Missing Rules Solutions

BPM 2017

# Loan Grade

## Rules = 1 - Missing Rules = 2

- Solution #1 found. 1 Solutions, Resolution 0.179s, 13 Nodes (72.7 n/s), 14 Backtracks, 10 Fails, 0 Restarts

Rule\_1\_LB = 1000 Rule\_1\_UB = 2500 Rule\_1\_LB = 0 Rule\_1\_UB = 5000 Rule\_2\_LB = 0 Rule\_2\_UB = 1000 Rule\_2\_LB = 1000 Rule\_2\_UB = 5000 Overlaps\_0\_0 = 0 Overlaps\_0\_1 = 0 Overlaps\_0\_2 = 0 Overlaps\_1\_0 = 0 Overlaps\_1\_1 = 0 Overlaps\_1\_2 = 0 Overlaps\_2\_0 = 0 Overlaps\_2\_1 = 0 Overlaps\_2\_2 = 0 TMP\_0 = 1 not(TMP\_0) = 0 TMP\_1 = 0 not(TMP\_1) = 1 TMP\_2 = 1 not(TMP\_2) = 0 TMP\_3 = 1 not(TMP\_3) = 0 TMP\_4 = 3 TMP\_5 = 0 not(TMP\_5) = 1 TMP\_6 = 0 not(TMP\_6) = 1 TMP\_7 = 0 TMP\_8 = 1 not(TMP\_8) = 0 TMP\_9 = 1 not(TMP\_9) = 0 TMP\_10 = 2 TMP\_11 = 0 not(TMP\_11) = 1 TMP\_12 = 0 not(TMP\_12) = 1 TMP\_13 = 1 not(TMP\_13) = 0 TMP\_14 = 1 not(TMP\_14) = 0 TMP\_15 = 1 not(TMP\_15) = 0 TMP\_16 = 2 TMP\_17 = 1 not(TMP\_17) = 0 TMP\_18 = 1 not(TMP\_18) = 0 TMP\_19 = 1 not(TMP\_19) = 0 TMP\_20 = 0 not(TMP\_20) = 1 TMP\_21 = 3 TMP\_22 = 0 not(TMP\_22) = 1 TMP\_23 = 0 not(TMP\_23) = 1 TMP\_24 = 0 TMP\_25 = 1 not(TMP\_25) = 0 TMP\_26 = 1 not(TMP\_26) = 0 TMP\_27 = 2 TMP\_28 = 0 not(TMP\_28) = 1 TMP\_29 = 0 not(TMP\_29) = 1 TMP\_30 = 1 not(TMP\_30) = 0 TMP\_31 = 1 not(TMP\_31) = 0 TMP\_32 = 1 not(TMP\_32) = 0 TMP\_33 = 2 TMP\_34 = 0 not(TMP\_34) = 1 TMP\_35 = 1 not(TMP\_35) = 0 TMP\_36 = 1 not(TMP\_36) = 0 TMP\_37 = 1 not(TMP\_37) = 0 TMP\_38 = 3 TMP\_39 = 0 not(TMP\_39) = 1 TMP\_40 = 0 not(TMP\_40) = 1 TMP\_41 = 0 TMP\_42 = 1 not(TMP\_42) = 0 TMP\_43 = 1 not(TMP\_43) = 0 TMP\_44 = 2 TMP\_45 = 0 not(TMP\_45) = 1 TMP\_46 = 0 not(TMP\_46) = 1 TMP\_47 = 1 not(TMP\_47) = 0 TMP\_48 = 1 not(TMP\_48) = 0 TMP\_49 = 1 not(TMP\_49) = 0 TMP\_50 = 2 Area\_0 = 1000000 Distance\_0\_Rule\_0 = 1000 Distance\_1\_Rule\_0 = 1000 Area\_1 = 7500000 -(Rule\_1\_LB) = -1000 Distance\_0\_Rule\_1 = 1500 -(Rule\_1\_LB) = 0 Distance\_1\_Rule\_1 = 5000 Area\_2 = 4000000 -(Rule\_2\_LB) = 0 Distance\_0\_Rule\_2 = 1000 -(Rule\_2\_LB) = -1000 Distance\_1\_Rule\_2 = 4000 TMP\_51 = 12500000 .

- Solution #2 found. 2 Solutions, Resolution 0.281s, 22 Nodes (78.4 n/s), 32 Backtracks, 18 Fails, 0 Restarts

Rule\_1\_LB = 1000 Rule\_1\_UB = 2500 Rule\_1\_LB = 0 Rule\_1\_UB = 1000 Rule\_2\_LB = 0 Rule\_2\_UB = 2500 Rule\_2\_LB = 1000 Rule\_2\_UB = 5000 Overlaps\_0\_0 = 0 Overlaps\_0\_1 = 0 Overlaps\_0\_2 = 0 Overlaps\_1\_0 = 0 Overlaps\_1\_1 = 0 Overlaps\_1\_2 = 0 Overlaps\_2\_0 = 0 Overlaps\_2\_1 = 0 Overlaps\_2\_2 = 0 TMP\_0 = 1 not(TMP\_0) = 0 TMP\_1 = 0 not(TMP\_1) = 1 TMP\_2 = 1 not(TMP\_2) = 0 TMP\_3 = 1 not(TMP\_3) = 0 TMP\_4 = 3 TMP\_5 = 0 not(TMP\_5) = 1 TMP\_6 = 0 not(TMP\_6) = 1 TMP\_7 = 0 TMP\_8 = 1 not(TMP\_8) = 0 TMP\_9 = 1 not(TMP\_9) = 0 TMP\_10 = 2 TMP\_11 = 0 not(TMP\_11) = 1 TMP\_12 = 0 not(TMP\_12) = 1 TMP\_13 = 1 not(TMP\_13) = 0 TMP\_14 = 1 not(TMP\_14) = 0 TMP\_15 = 1 not(TMP\_15) = 0 TMP\_16 = 2 TMP\_17 = 1 not(TMP\_17) = 0 TMP\_18 = 1 not(TMP\_18) = 0 TMP\_19 = 1 not(TMP\_19) = 0 TMP\_20 = 0 not(TMP\_20) = 1 TMP\_21 = 3 TMP\_22 = 0 not(TMP\_22) = 1 TMP\_23 = 0 not(TMP\_23) = 1 TMP\_24 = 0 TMP\_25 = 1 not(TMP\_25) = 0 TMP\_26 = 1 not(TMP\_26) = 0 TMP\_27 = 2 TMP\_28 = 0 not(TMP\_28) = 1 TMP\_29 = 0 not(TMP\_29) = 1 TMP\_30 = 1 not(TMP\_30) = 0 TMP\_31 = 1 not(TMP\_31) = 0 TMP\_32 = 1 not(TMP\_32) = 0 TMP\_33 = 2 TMP\_34 = 1 not(TMP\_34) = 0 TMP\_35 = 1 not(TMP\_35) = 0 TMP\_36 = 1 not(TMP\_36) = 0 TMP\_37 = 0 not(TMP\_37) = 1 TMP\_38 = 3 TMP\_39 = 0 not(TMP\_39) = 1 TMP\_40 = 0 not(TMP\_40) = 1 TMP\_41 = 0 TMP\_42 = 1 not(TMP\_42) = 0 TMP\_43 = 1 not(TMP\_43) = 0 TMP\_44 = 2 TMP\_45 = 0 not(TMP\_45) = 1 TMP\_46 = 0 not(TMP\_46) = 1 TMP\_47 = 1 not(TMP\_47) = 0 TMP\_48 = 1 not(TMP\_48) = 0 TMP\_49 = 1 not(TMP\_49) = 0 TMP\_50 = 2 Area\_0 = 1000000 Distance\_0\_Rule\_0 = 1000 Distance\_1\_Rule\_0 = 1000 Area\_1 = 1500000 -(Rule\_1\_LB) = -1000 Distance\_0\_Rule\_1 = 1500 -(Rule\_1\_LB) = 0 Distance\_1\_Rule\_1 = 1000 Area\_2 = 10000000 -(Rule\_2\_LB) = 0 Distance\_0\_Rule\_2 = 2500 -(Rule\_2\_LB) = -1000 Distance\_1\_Rule\_2 = 4000 TMP\_51 = 12500000 .

- Solution #3 found. 3 Solutions, Resolution 0.421s, 36 Nodes (85.6 n/s), 57 Backtracks, 29 Fails, 0 Restarts

Rule\_1\_LB = 0 Rule\_1\_UB = 2500 Rule\_1\_LB = 1000 Rule\_1\_UB = 5000 Rule\_2\_LB = 1000 Rule\_2\_UB = 2500 Rule\_2\_LB = 0 Rule\_2\_UB = 1000 Overlaps\_0\_0 = 0 Overlaps\_0\_1 = 0 Overlaps\_0\_2 = 0 Overlaps\_1\_0 = 0 Overlaps\_1\_1 = 0 Overlaps\_1\_2 = 0 Overlaps\_2\_0 = 0 Overlaps\_2\_1 = 0 Overlaps\_2\_2 = 0 TMP\_0 = 1 not(TMP\_0) = 0 TMP\_1 = 1 not(TMP\_1) = 0 TMP\_2 = 1 not(TMP\_2) = 0 TMP\_3 = 0 not(TMP\_3) = 1 TMP\_4 = 3 TMP\_5 = 0 not(TMP\_5) = 1 TMP\_6 = 0 not(TMP\_6) = 1 TMP\_7 = 0 TMP\_8 = 1 not(TMP\_8) = 0 TMP\_9 = 1 not(TMP\_9) = 0 TMP\_10 = 2 TMP\_11 = 0 not(TMP\_11) = 1 TMP\_12 = 0 not(TMP\_12) = 1 TMP\_13 = 1 not(TMP\_13) = 0 TMP\_14 = 1 not(TMP\_14) = 0 TMP\_15 = 1 not(TMP\_15) = 0 TMP\_16 = 2 TMP\_17 = 1 not(TMP\_17) = 0 TMP\_18 = 0 not(TMP\_18) = 1 TMP\_19 = 1 not(TMP\_19) = 0 TMP\_20 = 1 not(TMP\_20) = 0 TMP\_21 = 3 TMP\_22 = 0 not(TMP\_22) = 1 TMP\_23 = 0 not(TMP\_23) = 1 TMP\_24 = 0 TMP\_25 = 1 not(TMP\_25) = 0 TMP\_26 = 1 not(TMP\_26) = 0 TMP\_27 = 2 TMP\_28 = 0 not(TMP\_28) = 1 TMP\_29 = 0 not(TMP\_29) = 1 TMP\_30 = 1 not(TMP\_30) = 0 TMP\_31 = 1 not(TMP\_31) = 0 TMP\_32 = 1 not(TMP\_32) = 0 TMP\_33 = 2 TMP\_34 = 1 not(TMP\_34) = 0 TMP\_35 = 1 not(TMP\_35) = 0 TMP\_36 = 0 not(TMP\_36) = 1 TMP\_37 = 1 not(TMP\_37) = 0 TMP\_38 = 3 TMP\_39 = 0 not(TMP\_39) = 1 TMP\_40 = 0 not(TMP\_40) = 1 TMP\_41 = 0 TMP\_42 = 1 not(TMP\_42) = 0 TMP\_43 = 1 not(TMP\_43) = 0 TMP\_44 = 2 TMP\_45 = 0 not(TMP\_45) = 1 TMP\_46 = 0 not(TMP\_46) = 1 TMP\_47 = 1 not(TMP\_47) = 0 TMP\_48 = 1 not(TMP\_48) = 0 TMP\_49 = 1 not(TMP\_49) = 0 TMP\_50 = 2 Area\_0 = 1000000 Distance\_0\_Rule\_0 = 1000 Distance\_1\_Rule\_0 = 1000 Area\_1 = 10000000 -(Rule\_1\_LB) = 0 Distance\_0\_Rule\_1 = 2500 -(Rule\_1\_LB) = -1000 Distance\_1\_Rule\_1 = 4000 Area\_2 = 1500000 -(Rule\_2\_LB) = -1000 Distance\_0\_Rule\_2 = 1500 -(Rule\_2\_LB) = 0 Distance\_1\_Rule\_2 = 1000 TMP\_51 = 12500000 .

- Solution #4 found. 4 Solutions, Resolution 0.466s, 38 Nodes (81.5 n/s), 59 Backtracks, 30 Fails, 0 Restarts

Rule\_1\_LB = 0 Rule\_1\_UB = 1000 Rule\_1\_LB = 1000 Rule\_1\_UB = 5000 Rule\_2\_LB = 1000 Rule\_2\_UB = 2500 Rule\_2\_LB = 0 Rule\_2\_UB = 5000 Overlaps\_0\_0 = 0 Overlaps\_0\_1 = 0 Overlaps\_0\_2 = 0 Overlaps\_1\_0 = 0 Overlaps\_1\_1 = 0 Overlaps\_1\_2 = 0 Overlaps\_2\_0 = 0 Overlaps\_2\_1 = 0 Overlaps\_2\_2 = 0 TMP\_0 = 1 not(TMP\_0) = 0 TMP\_1 = 1 not(TMP\_1) = 0 TMP\_2 = 1 not(TMP\_2) = 0 TMP\_3 = 0 not(TMP\_3) = 1 TMP\_4 = 3 TMP\_5 = 0 not(TMP\_5) = 1 TMP\_6 = 0 not(TMP\_6) = 1 TMP\_7 = 0 TMP\_8 = 1 not(TMP\_8) = 0 TMP\_9 = 1 not(TMP\_9) = 0 TMP\_10 = 2 TMP\_11 = 0 not(TMP\_11) = 1 TMP\_12 = 0 not(TMP\_12) = 1 TMP\_13 = 1 not(TMP\_13) = 0 TMP\_14 = 1 not(TMP\_14) = 0 TMP\_15 = 1 not(TMP\_15) = 0 TMP\_16 = 2 TMP\_17 = 1 not(TMP\_17) = 0 TMP\_18 = 0 not(TMP\_18) = 1 TMP\_19 = 1 not(TMP\_19) = 0 TMP\_20 = 1 not(TMP\_20) = 0 TMP\_21 = 3 TMP\_22 = 0 not(TMP\_22) = 1 TMP\_23 = 0 not(TMP\_23) = 1 TMP\_24 = 0 TMP\_25 = 1 not(TMP\_25) = 0 TMP\_26 = 1 not(TMP\_26) = 0 TMP\_27 = 2 TMP\_28 = 0 not(TMP\_28) = 1 TMP\_29 = 0 not(TMP\_29) = 1 TMP\_30 = 1 not(TMP\_30) = 0 TMP\_31 = 1 not(TMP\_31) = 0 TMP\_32 = 1 not(TMP\_32) = 0 TMP\_33 = 2 TMP\_34 = 1 not(TMP\_34) = 0 TMP\_35 = 0 not(TMP\_35) = 1 TMP\_36 = 1 not(TMP\_36) = 0 TMP\_37 = 1 not(TMP\_37) = 0 TMP\_38 = 3 TMP\_39 = 0 not(TMP\_39) = 1 TMP\_40 = 0 not(TMP\_40) = 1 TMP\_41 = 0 TMP\_42 = 1 not(TMP\_42) = 0 TMP\_43 = 1 not(TMP\_43) = 0 TMP\_44 = 2 TMP\_45 = 0 not(TMP\_45) = 1 TMP\_46 = 0 not(TMP\_46) = 1 TMP\_47 = 1 not(TMP\_47) = 0 TMP\_48 = 1 not(TMP\_48) = 0 TMP\_49 = 1 not(TMP\_49) = 0 TMP\_50 = 2 Area\_0 = 1000000 Distance\_0\_Rule\_0 = 1000 Distance\_1\_Rule\_0 = 1000 Area\_1 = 4000000 -(Rule\_1\_LB) = 0 Distance\_0\_Rule\_1 = 1000 -(Rule\_1\_LB) = -1000 Distance\_1\_Rule\_1 = 4000 Area\_2 = 7500000 -(Rule\_2\_LB) = -1000 Distance\_0\_Rule\_2 = 1500 -(Rule\_2\_LB) = 0 Distance\_1\_Rule\_2 = 5000 TMP\_51 = 12500000 .

- Complete search - 4 solution(s) found.

Solutions: 4

Building time : 0.209s

Initialisation : 0.000s

Initial propagation : 0.032s

Resolution : 0.486s

Nodes: 38 (78.2 n/s)

Backtracks: 69

Fails: 31

Restarts: 0

Max depth: 9

Memory: 13mb

Variables: 130

Constraints: 119

# Loan Grade Modified

## Rules = 1 - Missing Rules = 2

- Solution #1 found. 1 Solutions, Resolution 0.032s, 11 Nodes (345.8 n/s), 6 Backtracks, 6 Fails, 0 Restarts

Rule\_1\_LB = 0 Rule\_1\_UB = 100 Rule\_1\_LB = 100 Rule\_1\_UB = 500 Rule\_2\_LB = 100 Rule\_2\_UB = 250 Rule\_2\_LB = 0 Rule\_2\_UB = 500 Overlaps\_0\_0 = 0 Overlaps\_0\_1 = 0 Overlaps\_0\_2 = 0 Overlaps\_1\_0 = 0 Overlaps\_1\_1 = 0 Overlaps\_1\_2 = 0 Overlaps\_2\_0 = 0 Overlaps\_2\_1 = 0 Overlaps\_2\_2 = 0 TMP\_0 = 1 not(TMP\_0) = 0 TMP\_1 = 1 not(TMP\_1) = 0 TMP\_2 = 0 not(TMP\_2) = 1 TMP\_3 = 1 not(TMP\_3) = 0 TMP\_4 = 3 TMP\_5 = 0 not(TMP\_5) = 1 TMP\_6 = 0 not(TMP\_6) = 1 TMP\_7 = 0 TMP\_8 = 1 not(TMP\_8) = 0 TMP\_9 = 1 not(TMP\_9) = 0 TMP\_10 = 2 TMP\_11 = 0 not(TMP\_11) = 1 TMP\_12 = 0 not(TMP\_12) = 1 TMP\_13 = 1 not(TMP\_13) = 0 TMP\_14 = 1 not(TMP\_14) = 0 TMP\_15 = 1 not(TMP\_15) = 0 TMP\_16 = 2 TMP\_17 = 1 not(TMP\_17) = 0 TMP\_18 = 0 not(TMP\_18) = 1 TMP\_19 = 1 not(TMP\_19) = 0 TMP\_20 = 1 not(TMP\_20) = 0 TMP\_21 = 3 TMP\_22 = 0 not(TMP\_22) = 1 TMP\_23 = 0 not(TMP\_23) = 1 TMP\_24 = 0 TMP\_25 = 1 not(TMP\_25) = 0 TMP\_26 = 1 not(TMP\_26) = 0 TMP\_27 = 2 TMP\_28 = 0 not(TMP\_28) = 1 TMP\_29 = 0 not(TMP\_29) = 1 TMP\_30 = 1 not(TMP\_30) = 0 TMP\_31 = 1 not(TMP\_31) = 0 TMP\_32 = 1 not(TMP\_32) = 0 TMP\_33 = 2 TMP\_34 = 0 not(TMP\_34) = 1 TMP\_35 = 1 not(TMP\_35) = 0 TMP\_36 = 1 not(TMP\_36) = 0 TMP\_37 = 1 not(TMP\_37) = 0 TMP\_38 = 3 TMP\_39 = 0 not(TMP\_39) = 1 TMP\_40 = 0 not(TMP\_40) = 1 TMP\_41 = 0 TMP\_42 = 1 not(TMP\_42) = 0 TMP\_43 = 1 not(TMP\_43) = 0 TMP\_44 = 2 TMP\_45 = 0 not(TMP\_45) = 1 TMP\_46 = 0 not(TMP\_46) = 1 TMP\_47 = 1 not(TMP\_47) = 0 TMP\_48 = 1 not(TMP\_48) = 0 TMP\_49 = 1 not(TMP\_49) = 0 TMP\_50 = 2 TMP\_51 = 0 not(TMP\_51) = 1 TMP\_52 = 1 not(TMP\_52) = 0 TMP\_53 = 1 not(TMP\_53) = 0 TMP\_54 = 1 not(TMP\_54) = 0 TMP\_55 = 3 TMP\_56 = 0 not(TMP\_56) = 1 TMP\_57 = 0 not(TMP\_57) = 1 TMP\_58 = 0 TMP\_59 = 1 not(TMP\_59) = 0 TMP\_60 = 1 not(TMP\_60) = 0 TMP\_61 = 2 TMP\_62 = 0 not(TMP\_62) = 1 TMP\_63 = 0 not(TMP\_63) = 1 TMP\_64 = 1 not(TMP\_64) = 0 TMP\_65 = 1 not(TMP\_65) = 0 TMP\_66 = 1 not(TMP\_66) = 0 TMP\_67 = 2 Area\_0 = 10000 Distance\_0\_Rule\_0 = 100 Distance\_1\_Rule\_0 = 100 Area\_1 = 40000 -(Rule\_1\_LB) = 0 Distance\_0\_Rule\_1 = 100 -(Rule\_1\_LB) = -100 Distance\_1\_Rule\_1 = 400 Area\_2 = 75000 -(Rule\_2\_LB) = -100 Distance\_0\_Rule\_2 = 150 -(Rule\_2\_LB) = 0 Distance\_1\_Rule\_2 = 500 TMP\_68 = 125000 .

- Solution #2 found. 2 Solutions, Resolution 0.047s, 16 Nodes (340.4 n/s), 24 Backtracks, 12 Fails, 0 Restarts

Rule\_1\_LB = 0 Rule\_1\_UB = 250 Rule\_1\_LB = 100 Rule\_1\_UB = 500 Rule\_2\_LB = 100 Rule\_2\_UB = 250 Rule\_2\_LB = 0 Rule\_2\_UB = 100 Overlaps\_0\_0 = 0 Overlaps\_0\_1 = 0 Overlaps\_0\_2 = 0 Overlaps\_1\_0 = 0 Overlaps\_1\_1 = 0 Overlaps\_1\_2 = 0 Overlaps\_2\_0 = 0 Overlaps\_2\_1 = 0 Overlaps\_2\_2 = 0 TMP\_0 = 1 not(TMP\_0) = 0 TMP\_1 = 1 not(TMP\_1) = 0 TMP\_2 = 0 not(TMP\_2) = 1 TMP\_3 = 1 not(TMP\_3) = 0 TMP\_4 = 3 TMP\_5 = 0 not(TMP\_5) = 1 TMP\_6 = 0 not(TMP\_6) = 1 TMP\_7 = 0 TMP\_8 = 1 not(TMP\_8) = 0 TMP\_9 = 1 not(TMP\_9) = 0 TMP\_10 = 2 TMP\_11 = 0 not(TMP\_11) = 1 TMP\_12 = 0 not(TMP\_12) = 1 TMP\_13 = 1 not(TMP\_13) = 0 TMP\_14 = 1 not(TMP\_14) = 0 TMP\_15 = 1 not(TMP\_15) = 0 TMP\_16 = 2 TMP\_17 = 1 not(TMP\_17) = 0 TMP\_18 = 1 not(TMP\_18) = 0 TMP\_19 = 0 not(TMP\_19) = 1 TMP\_20 = 1 not(TMP\_20) = 0 TMP\_21 = 3 TMP\_22 = 0 not(TMP\_22) = 1 TMP\_23 = 0 not(TMP\_23) = 1 TMP\_24 = 0 TMP\_25 = 1 not(TMP\_25) = 0 TMP\_26 = 1 not(TMP\_26) = 0 TMP\_27 = 2 TMP\_28 = 0 not(TMP\_28) = 1 TMP\_29 = 0 not(TMP\_29) = 1 TMP\_30 = 1 not(TMP\_30) = 0 TMP\_31 = 1 not(TMP\_31) = 0 TMP\_32 = 1 not(TMP\_32) = 0 TMP\_33 = 2 TMP\_34 = 0 not(TMP\_34) = 1 TMP\_35 = 1 not(TMP\_35) = 0 TMP\_36 = 1 not(TMP\_36) = 0 TMP\_37 = 1 not(TMP\_37) = 0 TMP\_38 = 3 TMP\_39 = 0 not(TMP\_39) = 1 TMP\_40 = 0 not(TMP\_40) = 1 TMP\_41 = 0 TMP\_42 = 1 not(TMP\_42) = 0 TMP\_43 = 1 not(TMP\_43) = 0 TMP\_44 = 2 TMP\_45 = 0 not(TMP\_45) = 1 TMP\_46 = 0 not(TMP\_46) = 1 TMP\_47 = 1 not(TMP\_47) = 0 TMP\_48 = 1 not(TMP\_48) = 0 TMP\_49 = 1 not(TMP\_49) = 0 TMP\_50 = 2 TMP\_51 = 1 not(TMP\_51) = 0 TMP\_52 = 1 not(TMP\_52) = 0 TMP\_53 = 1 not(TMP\_53) = 0 TMP\_54 = 0 not(TMP\_54) = 1 TMP\_55 = 3 TMP\_56 = 0 not(TMP\_56) = 1 TMP\_57 = 0 not(TMP\_57) = 1 TMP\_58 = 0 TMP\_59 = 1 not(TMP\_59) = 0 TMP\_60 = 1 not(TMP\_60) = 0 TMP\_61 = 2 TMP\_62 = 0 not(TMP\_62) = 1 TMP\_63 = 0 not(TMP\_63) = 1 TMP\_64 = 1 not(TMP\_64) = 0 TMP\_65 = 1 not(TMP\_65) = 0 TMP\_66 = 1 not(TMP\_66) = 0 TMP\_67 = 2 Area\_0 = 10000 Distance\_0\_Rule\_0 = 100 Distance\_1\_Rule\_0 = 100 Area\_1 = 100000 -(Rule\_1\_LB) = 0 Distance\_0\_Rule\_1 = 250 -(Rule\_1\_LB) = -100 Distance\_1\_Rule\_1 = 400 Area\_2 = 15000 -(Rule\_2\_LB) = -100 Distance\_0\_Rule\_2 = 150 -(Rule\_2\_LB) = 0 Distance\_1\_Rule\_2 = 100 TMP\_68 = 125000 .

- Solution #3 found. 3 Solutions, Resolution 0.056s, 24 Nodes (429.4 n/s), 33 Backtracks, 16 Fails, 0 Restarts

Rule\_1\_LB = 100 Rule\_1\_UB = 250 Rule\_1\_LB = 0 Rule\_1\_UB = 100 Rule\_2\_LB = 0 Rule\_2\_UB = 250 Rule\_2\_LB = 100 Rule\_2\_UB = 500 Overlaps\_0\_0 = 0 Overlaps\_0\_1 = 0 Overlaps\_0\_2 = 0 Overlaps\_1\_0 = 0 Overlaps\_1\_1 = 0 Overlaps\_1\_2 = 0 Overlaps\_2\_0 = 0 Overlaps\_2\_1 = 0 Overlaps\_2\_2 = 0 TMP\_0 = 0 not(TMP\_0) = 1 TMP\_1 = 1 not(TMP\_1) = 0 TMP\_2 = 1 not(TMP\_2) = 0 TMP\_3 = 1 not(TMP\_3) = 0 TMP\_4 = 3 TMP\_5 = 0 not(TMP\_5) = 1 TMP\_6 = 0 not(TMP\_6) = 1 TMP\_7 = 0 TMP\_8 = 1 not(TMP\_8) = 0 TMP\_9 = 1 not(TMP\_9) = 0 TMP\_10 = 2 TMP\_11 = 0 not(TMP\_11) = 1 TMP\_12 = 0 not(TMP\_12) = 1 TMP\_13 = 1 not(TMP\_13) = 0 TMP\_14 = 1 not(TMP\_14) = 0 TMP\_15 = 1 not(TMP\_15) = 0 TMP\_16 = 2 TMP\_17 = 1 not(TMP\_17) = 0 TMP\_18 = 1 not(TMP\_18) = 0 TMP\_19 = 1 not(TMP\_19) = 0 TMP\_20 = 0 not(TMP\_20) = 1 TMP\_21 = 3 TMP\_22 = 0 not(TMP\_22) = 1 TMP\_23 = 0 not(TMP\_23) = 1 TMP\_24 = 0 TMP\_25 = 1 not(TMP\_25) = 0 TMP\_26 = 1 not(TMP\_26) = 0 TMP\_27 = 2 TMP\_28 = 0 not(TMP\_28) = 1 TMP\_29 = 0 not(TMP\_29) = 1 TMP\_30 = 1 not(TMP\_30) = 0 TMP\_31 = 1 not(TMP\_31) = 0 TMP\_32 = 1 not(TMP\_32) = 0 TMP\_33 = 2 TMP\_34 = 1 not(TMP\_34) = 0 TMP\_35 = 1 not(TMP\_35) = 0 TMP\_36 = 0 not(TMP\_36) = 1 TMP\_37 = 1 not(TMP\_37) = 0 TMP\_38 = 3 TMP\_39 = 0 not(TMP\_39) = 1 TMP\_40 = 0 not(TMP\_40) = 1 TMP\_41 = 0 TMP\_42 = 1 not(TMP\_42) = 0 TMP\_43 = 1 not(TMP\_43) = 0 TMP\_44 = 2 TMP\_45 = 0 not(TMP\_45) = 1 TMP\_46 = 0 not(TMP\_46) = 1 TMP\_47 = 1 not(TMP\_47) = 0 TMP\_48 = 1 not(TMP\_48) = 0 TMP\_49 = 1 not(TMP\_49) = 0 TMP\_50 = 2 TMP\_51 = 1 not(TMP\_51) = 0 TMP\_52 = 1 not(TMP\_52) = 0 TMP\_53 = 0 not(TMP\_53) = 1 TMP\_54 = 1 not(TMP\_54) = 0 TMP\_55 = 3 TMP\_56 = 0 not(TMP\_56) = 1 TMP\_57 = 0 not(TMP\_57) = 1 TMP\_58 = 0 TMP\_59 = 1 not(TMP\_59) = 0 TMP\_60 = 1 not(TMP\_60) = 0 TMP\_61 = 2 TMP\_62 = 0 not(TMP\_62) = 1 TMP\_63 = 0 not(TMP\_63) = 1 TMP\_64 = 1 not(TMP\_64) = 0 TMP\_65 = 1 not(TMP\_65) = 0 TMP\_66 = 1 not(TMP\_66) = 0 TMP\_67 = 2 Area\_0 = 10000 Distance\_0\_Rule\_0 = 100 Distance\_1\_Rule\_0 = 100 Area\_1 = 15000 -(Rule\_1\_LB) = -100 Distance\_0\_Rule\_1 = 150 -(Rule\_1\_LB) = 0 Distance\_1\_Rule\_1 = 100 Area\_2 = 100000 -(Rule\_2\_LB) = 0 Distance\_0\_Rule\_2 = 250 -(Rule\_2\_LB) = -100 Distance\_1\_Rule\_2 = 400 TMP\_68 = 125000 .

- Solution #4 found. 4 Solutions, Resolution 0.059s, 25 Nodes (426.4 n/s), 34 Backtracks, 16 Fails, 0 Restarts

Rule\_1\_LB = 100 Rule\_1\_UB = 250 Rule\_1\_LB = 0 Rule\_1\_UB = 500 Rule\_2\_LB = 0 Rule\_2\_UB = 100 Rule\_2\_LB = 100 Rule\_2\_UB = 500 Overlaps\_0\_0 = 0 Overlaps\_0\_1 = 0 Overlaps\_0\_2 = 0 Overlaps\_1\_0 = 0 Overlaps\_1\_1 = 0 Overlaps\_1\_2 = 0 Overlaps\_2\_0 = 0 Overlaps\_2\_1 = 0 Overlaps\_2\_2 = 0 TMP\_0 = 0 not(TMP\_0) = 1 TMP\_1 = 1 not(TMP\_1) = 0 TMP\_2 = 1 not(TMP\_2) = 0 TMP\_3 = 1 not(TMP\_3) = 0 TMP\_4 = 3 TMP\_5 = 0 not(TMP\_5) = 1 TMP\_6 = 0 not(TMP\_6) = 1 TMP\_7 = 0 TMP\_8 = 1 not(TMP\_8) = 0 TMP\_9 = 1 not(TMP\_9) = 0 TMP\_10 = 2 TMP\_11 = 0 not(TMP\_11) = 1 TMP\_12 = 0 not(TMP\_12) = 1 TMP\_13 = 1 not(TMP\_13) = 0 TMP\_14 = 1 not(TMP\_14) = 0 TMP\_15 = 1 not(TMP\_15) = 0 TMP\_16 = 2 TMP\_17 = 0 not(TMP\_17) = 1 TMP\_18 = 1 not(TMP\_18) = 0 TMP\_19 = 1 not(TMP\_19) = 0 TMP\_20 = 1 not(TMP\_20) = 0 TMP\_21 = 3 TMP\_22 = 0 not(TMP\_22) = 1 TMP\_23 = 0 not(TMP\_23) = 1 TMP\_24 = 0 TMP\_25 = 1 not(TMP\_25) = 0 TMP\_26 = 1 not(TMP\_26) = 0 TMP\_27 = 2 TMP\_28 = 0 not(TMP\_28) = 1 TMP\_29 = 0 not(TMP\_29) = 1 TMP\_30 = 1 not(TMP\_30) = 0 TMP\_31 = 1 not(TMP\_31) = 0 TMP\_32 = 1 not(TMP\_32) = 0 TMP\_33 = 2 TMP\_34 = 1 not(TMP\_34) = 0 TMP\_35 = 1 not(TMP\_35) = 0 TMP\_36 = 0 not(TMP\_36) = 1 TMP\_37 = 1 not(TMP\_37) = 0 TMP\_38 = 3 TMP\_39 = 0 not(TMP\_39) = 1 TMP\_40 = 0 not(TMP\_40) = 1 TMP\_41 = 0 TMP\_42 = 1 not(TMP\_42) = 0 TMP\_43 = 1 not(TMP\_43) = 0 TMP\_44 = 2 TMP\_45 = 0 not(TMP\_45) = 1 TMP\_46 = 0 not(TMP\_46) = 1 TMP\_47 = 1 not(TMP\_47) = 0 TMP\_48 = 1 not(TMP\_48) = 0 TMP\_49 = 1 not(TMP\_49) = 0 TMP\_50 = 2 TMP\_51 = 1 not(TMP\_51) = 0 TMP\_52 = 0 not(TMP\_52) = 1 TMP\_53 = 1 not(TMP\_53) = 0 TMP\_54 = 1 not(TMP\_54) = 0 TMP\_55 = 3 TMP\_56 = 0 not(TMP\_56) = 1 TMP\_57 = 0 not(TMP\_57) = 1 TMP\_58 = 0 TMP\_59 = 1 not(TMP\_59) = 0 TMP\_60 = 1 not(TMP\_60) = 0 TMP\_61 = 2 TMP\_62 = 0 not(TMP\_62) = 1 TMP\_63 = 0 not(TMP\_63) = 1 TMP\_64 = 1 not(TMP\_64) = 0 TMP\_65 = 1 not(TMP\_65) = 0 TMP\_66 = 1 not(TMP\_66) = 0 TMP\_67 = 2 Area\_0 = 10000 Distance\_0\_Rule\_0 = 100 Distance\_1\_Rule\_0 = 100 Area\_1 = 75000 -(Rule\_1\_LB) = -100 Distance\_0\_Rule\_1 = 150 -(Rule\_1\_LB) = 0 Distance\_1\_Rule\_1 = 500 Area\_2 = 40000 -(Rule\_2\_LB) = 0 Distance\_0\_Rule\_2 = 100 -(Rule\_2\_LB) = -100 Distance\_1\_Rule\_2 = 400 TMP\_68 = 125000 .

- Complete search - 4 solution(s) found.

Solutions: 4

Building time : 0.110s

Initialisation : 0.000s

Initial propagation : 0.012s

Resolution : 0.067s

Nodes: 27 (405.7 n/s)

Backtracks: 47

Fails: 20

Restarts: 0

Max depth: 10

Memory: -1mb

Variables: 160

Constraints: 158

## Rules = 2 - Missing Rules = 4

- Solution #1 found. 1 Solutions, Resolution 85.672s, 889476 Nodes (10,382.4 n/s), 1778609 Backtracks, 889459 Fails, 0 Restarts

Rule\_2\_LB = 0 Rule\_2\_UB = 25 Rule\_2\_LB = 400 Rule\_2\_UB = 500 Rule\_3\_LB = 100 Rule\_3\_UB = 250 Rule\_3\_LB = 0 Rule\_3\_UB = 100 Rule\_4\_LB = 0 Rule\_4\_UB = 75 Rule\_4\_LB = 100 Rule\_4\_UB = 400 Rule\_5\_LB = 75 Rule\_5\_UB = 250 Rule\_5\_LB = 100 Rule\_5\_UB = 500 Overlaps\_0\_0 = 0 Overlaps\_0\_1 = 0 Overlaps\_0\_2 = 0 Overlaps\_0\_3 = 0 Overlaps\_0\_4 = 0 Overlaps\_0\_5 = 0 Overlaps\_1\_0 = 0 Overlaps\_1\_1 = 0 Overlaps\_1\_2 = 0 Overlaps\_1\_3 = 0 Overlaps\_1\_4 = 0 Overlaps\_1\_5 = 0 Overlaps\_2\_0 = 0 Overlaps\_2\_1 = 0 Overlaps\_2\_2 = 0 Overlaps\_2\_3 = 0 Overlaps\_2\_4 = 0 Overlaps\_2\_5 = 0 Overlaps\_3\_0 = 0 Overlaps\_3\_1 = 0 Overlaps\_3\_2 = 0 Overlaps\_3\_3 = 0 Overlaps\_3\_4 = 0 Overlaps\_3\_5 = 0 Overlaps\_4\_0 = 0 Overlaps\_4\_1 = 0 Overlaps\_4\_2 = 0 Overlaps\_4\_3 = 0 Overlaps\_4\_4 = 0 Overlaps\_4\_5 = 0 Overlaps\_5\_0 = 0 Overlaps\_5\_1 = 0 Overlaps\_5\_2 = 0 Overlaps\_5\_3 = 0 Overlaps\_5\_4 = 0 Overlaps\_5\_5 = 0 TMP\_0 = 1 not(TMP\_0) = 0 TMP\_1 = 1 not(TMP\_1) = 0 TMP\_2 = 0 not(TMP\_2) = 1 TMP\_3 = 1 not(TMP\_3) = 0 TMP\_4 = 3 TMP\_5 = 0 not(TMP\_5) = 1 TMP\_6 = 0 not(TMP\_6) = 1 TMP\_7 = 0 TMP\_8 = 1 not(TMP\_8) = 0 TMP\_9 = 1 not(TMP\_9) = 0 TMP\_10 = 2 TMP\_11 = 0 not(TMP\_11) = 1 TMP\_12 = 0 not(TMP\_12) = 1 TMP\_13 = 1 not(TMP\_13) = 0 TMP\_14 = 1 not(TMP\_14) = 0 TMP\_15 = 1 not(TMP\_15) = 0 TMP\_16 = 2 TMP\_17 = 1 not(TMP\_17) = 0 TMP\_18 = 0 not(TMP\_18) = 1 TMP\_19 = 1 not(TMP\_19) = 0 TMP\_20 = 1 not(TMP\_20) = 0 TMP\_21 = 3 TMP\_22 = 0 not(TMP\_22) = 1 TMP\_23 = 0 not(TMP\_23) = 1 TMP\_24 = 0 TMP\_25 = 1 not(TMP\_25) = 0 TMP\_26 = 1 not(TMP\_26) = 0 TMP\_27 = 2 TMP\_28 = 0 not(TMP\_28) = 1 TMP\_29 = 0 not(TMP\_29) = 1 TMP\_30 = 1 not(TMP\_30) = 0 TMP\_31 = 1 not(TMP\_31) = 0 TMP\_32 = 1 not(TMP\_32) = 0 TMP\_33 = 2 TMP\_34 = 1 not(TMP\_34) = 0 TMP\_35 = 0 not(TMP\_35) = 1 TMP\_36 = 0 not(TMP\_36) = 1 TMP\_37 = 1 not(TMP\_37) = 0 TMP\_38 = 2 TMP\_39 = 0 not(TMP\_39) = 1 TMP\_40 = 0 not(TMP\_40) = 1 TMP\_41 = 0 TMP\_42 = 1 not(TMP\_42) = 0 TMP\_43 = 1 not(TMP\_43) = 0 TMP\_44 = 2 TMP\_45 = 0 not(TMP\_45) = 1 TMP\_46 = 0 not(TMP\_46) = 1 TMP\_47 = 1 not(TMP\_47) = 0 TMP\_48 = 1 not(TMP\_48) = 0 TMP\_49 = 1 not(TMP\_49) = 0 TMP\_50 = 2 TMP\_51 = 1 not(TMP\_51) = 0 TMP\_52 = 1 not(TMP\_52) = 0 TMP\_53 = 0 not(TMP\_53) = 1 TMP\_54 = 1 not(TMP\_54) = 0 TMP\_55 = 3 TMP\_56 = 0 not(TMP\_56) = 1 TMP\_57 = 0 not(TMP\_57) = 1 TMP\_58 = 0 TMP\_59 = 1 not(TMP\_59) = 0 TMP\_60 = 1 not(TMP\_60) = 0 TMP\_61 = 2 TMP\_62 = 0 not(TMP\_62) = 1 TMP\_63 = 0 not(TMP\_63) = 1 TMP\_64 = 1 not(TMP\_64) = 0 TMP\_65 = 1 not(TMP\_65) = 0 TMP\_66 = 1 not(TMP\_66) = 0 TMP\_67 = 2 TMP\_68 = 1 not(TMP\_68) = 0 TMP\_69 = 0 not(TMP\_69) = 1 TMP\_70 = 1 not(TMP\_70) = 0 TMP\_71 = 1 not(TMP\_71) = 0 TMP\_72 = 3 TMP\_73 = 0 not(TMP\_73) = 1 TMP\_74 = 0 not(TMP\_74) = 1 TMP\_75 = 0 TMP\_76 = 1 not(TMP\_76) = 0 TMP\_77 = 1 not(TMP\_77) = 0 TMP\_78 = 2 TMP\_79 = 0 not(TMP\_79) = 1 TMP\_80 = 0 not(TMP\_80) = 1 TMP\_81 = 1 not(TMP\_81) = 0 TMP\_82 = 1 not(TMP\_82) = 0 TMP\_83 = 1 not(TMP\_83) = 0 TMP\_84 = 2 TMP\_85 = 0 not(TMP\_85) = 1 TMP\_86 = 1 not(TMP\_86) = 0 TMP\_87 = 1 not(TMP\_87) = 0 TMP\_88 = 1 not(TMP\_88) = 0 TMP\_89 = 3 TMP\_90 = 0 not(TMP\_90) = 1 TMP\_91 = 0 not(TMP\_91) = 1 TMP\_92 = 0 TMP\_93 = 1 not(TMP\_93) = 0 TMP\_94 = 1 not(TMP\_94) = 0 TMP\_95 = 2 TMP\_96 = 0 not(TMP\_96) = 1 TMP\_97 = 0 not(TMP\_97) = 1 TMP\_98 = 1 not(TMP\_98) = 0 TMP\_99 = 1 not(TMP\_99) = 0 TMP\_100 = 1 not(TMP\_100) = 0 TMP\_101 = 2 TMP\_102 = 0 not(TMP\_102) = 1 TMP\_103 = 1 not(TMP\_103) = 0 TMP\_104 = 1 not(TMP\_104) = 0 TMP\_105 = 0 not(TMP\_105) = 1 TMP\_106 = 2 TMP\_107 = 0 not(TMP\_107) = 1 TMP\_108 = 0 not(TMP\_108) = 1 TMP\_109 = 0 TMP\_110 = 1 not(TMP\_110) = 0 TMP\_111 = 1 not(TMP\_111) = 0 TMP\_112 = 2 TMP\_113 = 0 not(TMP\_113) = 1 TMP\_114 = 0 not(TMP\_114) = 1 TMP\_115 = 1 not(TMP\_115) = 0 TMP\_116 = 1 not(TMP\_116) = 0 TMP\_117 = 1 not(TMP\_117) = 0 TMP\_118 = 2 TMP\_119 = 0 not(TMP\_119) = 1 TMP\_120 = 1 not(TMP\_120) = 0 TMP\_121 = 1 not(TMP\_121) = 0 TMP\_122 = 0 not(TMP\_122) = 1 TMP\_123 = 2 TMP\_124 = 0 not(TMP\_124) = 1 TMP\_125 = 0 not(TMP\_125) = 1 TMP\_126 = 0 TMP\_127 = 1 not(TMP\_127) = 0 TMP\_128 = 1 not(TMP\_128) = 0 TMP\_129 = 2 TMP\_130 = 0 not(TMP\_130) = 1 TMP\_131 = 0 not(TMP\_131) = 1 TMP\_132 = 1 not(TMP\_132) = 0 TMP\_133 = 1 not(TMP\_133) = 0 TMP\_134 = 1 not(TMP\_134) = 0 TMP\_135 = 2 TMP\_136 = 0 not(TMP\_136) = 1 TMP\_137 = 1 not(TMP\_137) = 0 TMP\_138 = 1 not(TMP\_138) = 0 TMP\_139 = 0 not(TMP\_139) = 1 TMP\_140 = 2 TMP\_141 = 0 not(TMP\_141) = 1 TMP\_142 = 0 not(TMP\_142) = 1 TMP\_143 = 0 TMP\_144 = 1 not(TMP\_144) = 0 TMP\_145 = 1 not(TMP\_145) = 0 TMP\_146 = 2 TMP\_147 = 0 not(TMP\_147) = 1 TMP\_148 = 0 not(TMP\_148) = 1 TMP\_149 = 1 not(TMP\_149) = 0 TMP\_150 = 1 not(TMP\_150) = 0 TMP\_151 = 1 not(TMP\_151) = 0 TMP\_152 = 2 TMP\_153 = 1 not(TMP\_153) = 0 TMP\_154 = 1 not(TMP\_154) = 0 TMP\_155 = 1 not(TMP\_155) = 0 TMP\_156 = 0 not(TMP\_156) = 1 TMP\_157 = 3 TMP\_158 = 0 not(TMP\_158) = 1 TMP\_159 = 0 not(TMP\_159) = 1 TMP\_160 = 0 TMP\_161 = 1 not(TMP\_161) = 0 TMP\_162 = 1 not(TMP\_162) = 0 TMP\_163 = 2 TMP\_164 = 0 not(TMP\_164) = 1 TMP\_165 = 0 not(TMP\_165) = 1 TMP\_166 = 1 not(TMP\_166) = 0 TMP\_167 = 1 not(TMP\_167) = 0 TMP\_168 = 1 not(TMP\_168) = 0 TMP\_169 = 2 TMP\_170 = 1 not(TMP\_170) = 0 TMP\_171 = 1 not(TMP\_171) = 0 TMP\_172 = 0 not(TMP\_172) = 1 TMP\_173 = 1 not(TMP\_173) = 0 TMP\_174 = 3 TMP\_175 = 0 not(TMP\_175) = 1 TMP\_176 = 0 not(TMP\_176) = 1 TMP\_177 = 0 TMP\_178 = 1 not(TMP\_178) = 0 TMP\_179 = 1 not(TMP\_179) = 0 TMP\_180 = 2 TMP\_181 = 0 not(TMP\_181) = 1 TMP\_182 = 0 not(TMP\_182) = 1 TMP\_183 = 1 not(TMP\_183) = 0 TMP\_184 = 1 not(TMP\_184) = 0 TMP\_185 = 1 not(TMP\_185) = 0 TMP\_186 = 2 TMP\_187 = 1 not(TMP\_187) = 0 TMP\_188 = 1 not(TMP\_188) = 0 TMP\_189 = 1 not(TMP\_189) = 0 TMP\_190 = 0 not(TMP\_190) = 1 TMP\_191 = 3 TMP\_192 = 0 not(TMP\_192) = 1 TMP\_193 = 0 not(TMP\_193) = 1 TMP\_194 = 0 TMP\_195 = 1 not(TMP\_195) = 0 TMP\_196 = 1 not(TMP\_196) = 0 TMP\_197 = 2 TMP\_198 = 0 not(TMP\_198) = 1 TMP\_199 = 0 not(TMP\_199) = 1 TMP\_200 = 1 not(TMP\_200) = 0 TMP\_201 = 1 not(TMP\_201) = 0 TMP\_202 = 1 not(TMP\_202) = 0 TMP\_203 = 2 TMP\_204 = 1 not(TMP\_204) = 0 TMP\_205 = 1 not(TMP\_205) = 0 TMP\_206 = 1 not(TMP\_206) = 0 TMP\_207 = 0 not(TMP\_207) = 1 TMP\_208 = 3 TMP\_209 = 0 not(TMP\_209) = 1 TMP\_210 = 0 not(TMP\_210) = 1 TMP\_211 = 0 TMP\_212 = 1 not(TMP\_212) = 0 TMP\_213 = 1 not(TMP\_213) = 0 TMP\_214 = 2 TMP\_215 = 0 not(TMP\_215) = 1 TMP\_216 = 0 not(TMP\_216) = 1 TMP\_217 = 1 not(TMP\_217) = 0 TMP\_218 = 1 not(TMP\_218) = 0 TMP\_219 = 1 not(TMP\_219) = 0 TMP\_220 = 2 TMP\_221 = 1 not(TMP\_221) = 0 TMP\_222 = 0 not(TMP\_222) = 1 TMP\_223 = 0 not(TMP\_223) = 1 TMP\_224 = 1 not(TMP\_224) = 0 TMP\_225 = 2 TMP\_226 = 0 not(TMP\_226) = 1 TMP\_227 = 0 not(TMP\_227) = 1 TMP\_228 = 0 TMP\_229 = 1 not(TMP\_229) = 0 TMP\_230 = 1 not(TMP\_230) = 0 TMP\_231 = 2 TMP\_232 = 0 not(TMP\_232) = 1 TMP\_233 = 0 not(TMP\_233) = 1 TMP\_234 = 1 not(TMP\_234) = 0 TMP\_235 = 1 not(TMP\_235) = 0 TMP\_236 = 1 not(TMP\_236) = 0 TMP\_237 = 2 TMP\_238 = 1 not(TMP\_238) = 0 TMP\_239 = 0 not(TMP\_239) = 1 TMP\_240 = 1 not(TMP\_240) = 0 TMP\_241 = 1 not(TMP\_241) = 0 TMP\_242 = 3 TMP\_243 = 0 not(TMP\_243) = 1 TMP\_244 = 0 not(TMP\_244) = 1 TMP\_245 = 0 TMP\_246 = 1 not(TMP\_246) = 0 TMP\_247 = 1 not(TMP\_247) = 0 TMP\_248 = 2 TMP\_249 = 0 not(TMP\_249) = 1 TMP\_250 = 0 not(TMP\_250) = 1 TMP\_251 = 1 not(TMP\_251) = 0 TMP\_252 = 1 not(TMP\_252) = 0 TMP\_253 = 1 not(TMP\_253) = 0 TMP\_254 = 2 TMP\_255 = 1 not(TMP\_255) = 0 TMP\_256 = 1 not(TMP\_256) = 0 TMP\_257 = 0 not(TMP\_257) = 1 TMP\_258 = 1 not(TMP\_258) = 0 TMP\_259 = 3 TMP\_260 = 0 not(TMP\_260) = 1 TMP\_261 = 0 not(TMP\_261) = 1 TMP\_262 = 0 TMP\_263 = 1 not(TMP\_263) = 0 TMP\_264 = 1 not(TMP\_264) = 0 TMP\_265 = 2 TMP\_266 = 0 not(TMP\_266) = 1 TMP\_267 = 0 not(TMP\_267) = 1 TMP\_268 = 1 not(TMP\_268) = 0 TMP\_269 = 1 not(TMP\_269) = 0 TMP\_270 = 1 not(TMP\_270) = 0 TMP\_271 = 2 TMP\_272 = 0 not(TMP\_272) = 1 TMP\_273 = 1 not(TMP\_273) = 0 TMP\_274 = 1 not(TMP\_274) = 0 TMP\_275 = 1 not(TMP\_275) = 0 TMP\_276 = 3 TMP\_277 = 0 not(TMP\_277) = 1 TMP\_278 = 0 not(TMP\_278) = 1 TMP\_279 = 0 TMP\_280 = 1 not(TMP\_280) = 0 TMP\_281 = 1 not(TMP\_281) = 0 TMP\_282 = 2 TMP\_283 = 0 not(TMP\_283) = 1 TMP\_284 = 0 not(TMP\_284) = 1 TMP\_285 = 1 not(TMP\_285) = 0 TMP\_286 = 1 not(TMP\_286) = 0 TMP\_287 = 1 not(TMP\_287) = 0 TMP\_288 = 2 TMP\_289 = 0 not(TMP\_289) = 1 TMP\_290 = 1 not(TMP\_290) = 0 TMP\_291 = 1 not(TMP\_291) = 0 TMP\_292 = 1 not(TMP\_292) = 0 TMP\_293 = 3 TMP\_294 = 0 not(TMP\_294) = 1 TMP\_295 = 0 not(TMP\_295) = 1 TMP\_296 = 0 TMP\_297 = 1 not(TMP\_297) = 0 TMP\_298 = 1 not(TMP\_298) = 0 TMP\_299 = 2 TMP\_300 = 0 not(TMP\_300) = 1 TMP\_301 = 0 not(TMP\_301) = 1 TMP\_302 = 1 not(TMP\_302) = 0 TMP\_303 = 1 not(TMP\_303) = 0 TMP\_304 = 1 not(TMP\_304) = 0 TMP\_305 = 2 TMP\_306 = 1 not(TMP\_306) = 0 TMP\_307 = 1 not(TMP\_307) = 0 TMP\_308 = 0 not(TMP\_308) = 1 TMP\_309 = 1 not(TMP\_309) = 0 TMP\_310 = 3 TMP\_311 = 0 not(TMP\_311) = 1 TMP\_312 = 0 not(TMP\_312) = 1 TMP\_313 = 0 TMP\_314 = 1 not(TMP\_314) = 0 TMP\_315 = 1 not(TMP\_315) = 0 TMP\_316 = 2 TMP\_317 = 0 not(TMP\_317) = 1 TMP\_318 = 0 not(TMP\_318) = 1 TMP\_319 = 1 not(TMP\_319) = 0 TMP\_320 = 1 not(TMP\_320) = 0 TMP\_321 = 1 not(TMP\_321) = 0 TMP\_322 = 2 TMP\_323 = 0 not(TMP\_323) = 1 TMP\_324 = 1 not(TMP\_324) = 0 TMP\_325 = 1 not(TMP\_325) = 0 TMP\_326 = 1 not(TMP\_326) = 0 TMP\_327 = 3 TMP\_328 = 0 not(TMP\_328) = 1 TMP\_329 = 0 not(TMP\_329) = 1 TMP\_330 = 0 TMP\_331 = 1 not(TMP\_331) = 0 TMP\_332 = 1 not(TMP\_332) = 0 TMP\_333 = 2 TMP\_334 = 0 not(TMP\_334) = 1 TMP\_335 = 0 not(TMP\_335) = 1 TMP\_336 = 1 not(TMP\_336) = 0 TMP\_337 = 1 not(TMP\_337) = 0 TMP\_338 = 1 not(TMP\_338) = 0 TMP\_339 = 2 Area\_0 = 10000 Distance\_0\_Rule\_0 = 100 Distance\_1\_Rule\_0 = 100 Area\_1 = 5000 Distance\_0\_Rule\_1 = 50 Distance\_1\_Rule\_1 = 100 Area\_2 = 2500 -(Rule\_2\_LB) = 0 Distance\_0\_Rule\_2 = 25 -(Rule\_2\_LB) = -400 Distance\_1\_Rule\_2 = 100 Area\_3 = 15000 -(Rule\_3\_LB) = -100 Distance\_0\_Rule\_3 = 150 -(Rule\_3\_LB) = 0 Distance\_1\_Rule\_3 = 100 Area\_4 = 22500 -(Rule\_4\_LB) = 0 Distance\_0\_Rule\_4 = 75 -(Rule\_4\_LB) = -100 Distance\_1\_Rule\_4 = 300 Area\_5 = 70000 -(Rule\_5\_LB) = -75 Distance\_0\_Rule\_5 = 175 -(Rule\_5\_LB) = -100 Distance\_1\_Rule\_5 = 400 TMP\_340 = 125000 .

- Solution #2 found. 2 Solutions, Resolution 85.681s, 889477 Nodes (10,381.2 n/s), 1778610 Backtracks, 889459 Fails, 0 Restarts

Rule\_2\_LB = 0 Rule\_2\_UB = 25 Rule\_2\_LB = 400 Rule\_2\_UB = 500 Rule\_3\_LB = 100 Rule\_3\_UB = 250 Rule\_3\_LB = 0 Rule\_3\_UB = 100 Rule\_4\_LB = 0 Rule\_4\_UB = 75 Rule\_4\_LB = 100 Rule\_4\_UB = 400 Rule\_5\_LB = 75 Rule\_5\_UB = 250 Rule\_5\_LB = 100 Rule\_5\_UB = 500 Overlaps\_0\_0 = 0 Overlaps\_0\_1 = 0 Overlaps\_0\_2 = 0 Overlaps\_0\_3 = 0 Overlaps\_0\_4 = 0 Overlaps\_0\_5 = 0 Overlaps\_1\_0 = 1 Overlaps\_1\_1 = 0 Overlaps\_1\_2 = 0 Overlaps\_1\_3 = 0 Overlaps\_1\_4 = 0 Overlaps\_1\_5 = 0 Overlaps\_2\_0 = 0 Overlaps\_2\_1 = 0 Overlaps\_2\_2 = 0 Overlaps\_2\_3 = 0 Overlaps\_2\_4 = 0 Overlaps\_2\_5 = 0 Overlaps\_3\_0 = 0 Overlaps\_3\_1 = 0 Overlaps\_3\_2 = 0 Overlaps\_3\_3 = 0 Overlaps\_3\_4 = 0 Overlaps\_3\_5 = 0 Overlaps\_4\_0 = 0 Overlaps\_4\_1 = 0 Overlaps\_4\_2 = 0 Overlaps\_4\_3 = 0 Overlaps\_4\_4 = 0 Overlaps\_4\_5 = 0 Overlaps\_5\_0 = 0 Overlaps\_5\_1 = 0 Overlaps\_5\_2 = 0 Overlaps\_5\_3 = 0 Overlaps\_5\_4 = 0 Overlaps\_5\_5 = 0 TMP\_0 = 1 not(TMP\_0) = 0 TMP\_1 = 1 not(TMP\_1) = 0 TMP\_2 = 0 not(TMP\_2) = 1 TMP\_3 = 1 not(TMP\_3) = 0 TMP\_4 = 3 TMP\_5 = 0 not(TMP\_5) = 1 TMP\_6 = 0 not(TMP\_6) = 1 TMP\_7 = 0 TMP\_8 = 1 not(TMP\_8) = 0 TMP\_9 = 1 not(TMP\_9) = 0 TMP\_10 = 2 TMP\_11 = 0 not(TMP\_11) = 1 TMP\_12 = 0 not(TMP\_12) = 1 TMP\_13 = 1 not(TMP\_13) = 0 TMP\_14 = 1 not(TMP\_14) = 0 TMP\_15 = 1 not(TMP\_15) = 0 TMP\_16 = 2 TMP\_17 = 1 not(TMP\_17) = 0 TMP\_18 = 0 not(TMP\_18) = 1 TMP\_19 = 1 not(TMP\_19) = 0 TMP\_20 = 1 not(TMP\_20) = 0 TMP\_21 = 3 TMP\_22 = 0 not(TMP\_22) = 1 TMP\_23 = 0 not(TMP\_23) = 1 TMP\_24 = 0 TMP\_25 = 1 not(TMP\_25) = 0 TMP\_26 = 1 not(TMP\_26) = 0 TMP\_27 = 2 TMP\_28 = 0 not(TMP\_28) = 1 TMP\_29 = 0 not(TMP\_29) = 1 TMP\_30 = 1 not(TMP\_30) = 0 TMP\_31 = 1 not(TMP\_31) = 0 TMP\_32 = 1 not(TMP\_32) = 0 TMP\_33 = 2 TMP\_34 = 1 not(TMP\_34) = 0 TMP\_35 = 0 not(TMP\_35) = 1 TMP\_36 = 0 not(TMP\_36) = 1 TMP\_37 = 1 not(TMP\_37) = 0 TMP\_38 = 2 TMP\_39 = 0 not(TMP\_39) = 1 TMP\_40 = 0 not(TMP\_40) = 1 TMP\_41 = 0 TMP\_42 = 1 not(TMP\_42) = 0 TMP\_43 = 1 not(TMP\_43) = 0 TMP\_44 = 2 TMP\_45 = 0 not(TMP\_45) = 1 TMP\_46 = 0 not(TMP\_46) = 1 TMP\_47 = 1 not(TMP\_47) = 0 TMP\_48 = 1 not(TMP\_48) = 0 TMP\_49 = 1 not(TMP\_49) = 0 TMP\_50 = 2 TMP\_51 = 1 not(TMP\_51) = 0 TMP\_52 = 1 not(TMP\_52) = 0 TMP\_53 = 0 not(TMP\_53) = 1 TMP\_54 = 1 not(TMP\_54) = 0 TMP\_55 = 3 TMP\_56 = 0 not(TMP\_56) = 1 TMP\_57 = 0 not(TMP\_57) = 1 TMP\_58 = 0 TMP\_59 = 1 not(TMP\_59) = 0 TMP\_60 = 1 not(TMP\_60) = 0 TMP\_61 = 2 TMP\_62 = 0 not(TMP\_62) = 1 TMP\_63 = 0 not(TMP\_63) = 1 TMP\_64 = 1 not(TMP\_64) = 0 TMP\_65 = 1 not(TMP\_65) = 0 TMP\_66 = 1 not(TMP\_66) = 0 TMP\_67 = 2 TMP\_68 = 1 not(TMP\_68) = 0 TMP\_69 = 0 not(TMP\_69) = 1 TMP\_70 = 1 not(TMP\_70) = 0 TMP\_71 = 1 not(TMP\_71) = 0 TMP\_72 = 3 TMP\_73 = 0 not(TMP\_73) = 1 TMP\_74 = 0 not(TMP\_74) = 1 TMP\_75 = 0 TMP\_76 = 1 not(TMP\_76) = 0 TMP\_77 = 1 not(TMP\_77) = 0 TMP\_78 = 2 TMP\_79 = 0 not(TMP\_79) = 1 TMP\_80 = 0 not(TMP\_80) = 1 TMP\_81 = 1 not(TMP\_81) = 0 TMP\_82 = 1 not(TMP\_82) = 0 TMP\_83 = 1 not(TMP\_83) = 0 TMP\_84 = 2 TMP\_85 = 0 not(TMP\_85) = 1 TMP\_86 = 1 not(TMP\_86) = 0 TMP\_87 = 1 not(TMP\_87) = 0 TMP\_88 = 1 not(TMP\_88) = 0 TMP\_89 = 3 TMP\_90 = 0 not(TMP\_90) = 1 TMP\_91 = 0 not(TMP\_91) = 1 TMP\_92 = 0 TMP\_93 = 1 not(TMP\_93) = 0 TMP\_94 = 1 not(TMP\_94) = 0 TMP\_95 = 2 TMP\_96 = 0 not(TMP\_96) = 1 TMP\_97 = 0 not(TMP\_97) = 1 TMP\_98 = 1 not(TMP\_98) = 0 TMP\_99 = 1 not(TMP\_99) = 0 TMP\_100 = 1 not(TMP\_100) = 0 TMP\_101 = 2 TMP\_102 = 0 not(TMP\_102) = 1 TMP\_103 = 1 not(TMP\_103) = 0 TMP\_104 = 1 not(TMP\_104) = 0 TMP\_105 = 0 not(TMP\_105) = 1 TMP\_106 = 2 TMP\_107 = 0 not(TMP\_107) = 1 TMP\_108 = 0 not(TMP\_108) = 1 TMP\_109 = 0 TMP\_110 = 1 not(TMP\_110) = 0 TMP\_111 = 1 not(TMP\_111) = 0 TMP\_112 = 2 TMP\_113 = 0 not(TMP\_113) = 1 TMP\_114 = 0 not(TMP\_114) = 1 TMP\_115 = 1 not(TMP\_115) = 0 TMP\_116 = 1 not(TMP\_116) = 0 TMP\_117 = 1 not(TMP\_117) = 0 TMP\_118 = 2 TMP\_119 = 0 not(TMP\_119) = 1 TMP\_120 = 1 not(TMP\_120) = 0 TMP\_121 = 1 not(TMP\_121) = 0 TMP\_122 = 0 not(TMP\_122) = 1 TMP\_123 = 2 TMP\_124 = 0 not(TMP\_124) = 1 TMP\_125 = 0 not(TMP\_125) = 1 TMP\_126 = 0 TMP\_127 = 1 not(TMP\_127) = 0 TMP\_128 = 1 not(TMP\_128) = 0 TMP\_129 = 2 TMP\_130 = 0 not(TMP\_130) = 1 TMP\_131 = 0 not(TMP\_131) = 1 TMP\_132 = 1 not(TMP\_132) = 0 TMP\_133 = 1 not(TMP\_133) = 0 TMP\_134 = 1 not(TMP\_134) = 0 TMP\_135 = 2 TMP\_136 = 0 not(TMP\_136) = 1 TMP\_137 = 1 not(TMP\_137) = 0 TMP\_138 = 1 not(TMP\_138) = 0 TMP\_139 = 0 not(TMP\_139) = 1 TMP\_140 = 2 TMP\_141 = 0 not(TMP\_141) = 1 TMP\_142 = 0 not(TMP\_142) = 1 TMP\_143 = 0 TMP\_144 = 1 not(TMP\_144) = 0 TMP\_145 = 1 not(TMP\_145) = 0 TMP\_146 = 2 TMP\_147 = 0 not(TMP\_147) = 1 TMP\_148 = 0 not(TMP\_148) = 1 TMP\_149 = 1 not(TMP\_149) = 0 TMP\_150 = 1 not(TMP\_150) = 0 TMP\_151 = 1 not(TMP\_151) = 0 TMP\_152 = 2 TMP\_153 = 1 not(TMP\_153) = 0 TMP\_154 = 1 not(TMP\_154) = 0 TMP\_155 = 1 not(TMP\_155) = 0 TMP\_156 = 0 not(TMP\_156) = 1 TMP\_157 = 3 TMP\_158 = 0 not(TMP\_158) = 1 TMP\_159 = 0 not(TMP\_159) = 1 TMP\_160 = 0 TMP\_161 = 1 not(TMP\_161) = 0 TMP\_162 = 1 not(TMP\_162) = 0 TMP\_163 = 2 TMP\_164 = 0 not(TMP\_164) = 1 TMP\_165 = 0 not(TMP\_165) = 1 TMP\_166 = 1 not(TMP\_166) = 0 TMP\_167 = 1 not(TMP\_167) = 0 TMP\_168 = 1 not(TMP\_168) = 0 TMP\_169 = 2 TMP\_170 = 1 not(TMP\_170) = 0 TMP\_171 = 1 not(TMP\_171) = 0 TMP\_172 = 0 not(TMP\_172) = 1 TMP\_173 = 1 not(TMP\_173) = 0 TMP\_174 = 3 TMP\_175 = 0 not(TMP\_175) = 1 TMP\_176 = 0 not(TMP\_176) = 1 TMP\_177 = 0 TMP\_178 = 1 not(TMP\_178) = 0 TMP\_179 = 1 not(TMP\_179) = 0 TMP\_180 = 2 TMP\_181 = 0 not(TMP\_181) = 1 TMP\_182 = 0 not(TMP\_182) = 1 TMP\_183 = 1 not(TMP\_183) = 0 TMP\_184 = 1 not(TMP\_184) = 0 TMP\_185 = 1 not(TMP\_185) = 0 TMP\_186 = 2 TMP\_187 = 1 not(TMP\_187) = 0 TMP\_188 = 1 not(TMP\_188) = 0 TMP\_189 = 1 not(TMP\_189) = 0 TMP\_190 = 0 not(TMP\_190) = 1 TMP\_191 = 3 TMP\_192 = 0 not(TMP\_192) = 1 TMP\_193 = 0 not(TMP\_193) = 1 TMP\_194 = 0 TMP\_195 = 1 not(TMP\_195) = 0 TMP\_196 = 1 not(TMP\_196) = 0 TMP\_197 = 2 TMP\_198 = 0 not(TMP\_198) = 1 TMP\_199 = 0 not(TMP\_199) = 1 TMP\_200 = 1 not(TMP\_200) = 0 TMP\_201 = 1 not(TMP\_201) = 0 TMP\_202 = 1 not(TMP\_202) = 0 TMP\_203 = 2 TMP\_204 = 1 not(TMP\_204) = 0 TMP\_205 = 1 not(TMP\_205) = 0 TMP\_206 = 1 not(TMP\_206) = 0 TMP\_207 = 0 not(TMP\_207) = 1 TMP\_208 = 3 TMP\_209 = 0 not(TMP\_209) = 1 TMP\_210 = 0 not(TMP\_210) = 1 TMP\_211 = 0 TMP\_212 = 1 not(TMP\_212) = 0 TMP\_213 = 1 not(TMP\_213) = 0 TMP\_214 = 2 TMP\_215 = 0 not(TMP\_215) = 1 TMP\_216 = 0 not(TMP\_216) = 1 TMP\_217 = 1 not(TMP\_217) = 0 TMP\_218 = 1 not(TMP\_218) = 0 TMP\_219 = 1 not(TMP\_219) = 0 TMP\_220 = 2 TMP\_221 = 1 not(TMP\_221) = 0 TMP\_222 = 0 not(TMP\_222) = 1 TMP\_223 = 0 not(TMP\_223) = 1 TMP\_224 = 1 not(TMP\_224) = 0 TMP\_225 = 2 TMP\_226 = 0 not(TMP\_226) = 1 TMP\_227 = 0 not(TMP\_227) = 1 TMP\_228 = 0 TMP\_229 = 1 not(TMP\_229) = 0 TMP\_230 = 1 not(TMP\_230) = 0 TMP\_231 = 2 TMP\_232 = 0 not(TMP\_232) = 1 TMP\_233 = 0 not(TMP\_233) = 1 TMP\_234 = 1 not(TMP\_234) = 0 TMP\_235 = 1 not(TMP\_235) = 0 TMP\_236 = 1 not(TMP\_236) = 0 TMP\_237 = 2 TMP\_238 = 1 not(TMP\_238) = 0 TMP\_239 = 0 not(TMP\_239) = 1 TMP\_240 = 1 not(TMP\_240) = 0 TMP\_241 = 1 not(TMP\_241) = 0 TMP\_242 = 3 TMP\_243 = 0 not(TMP\_243) = 1 TMP\_244 = 0 not(TMP\_244) = 1 TMP\_245 = 0 TMP\_246 = 1 not(TMP\_246) = 0 TMP\_247 = 1 not(TMP\_247) = 0 TMP\_248 = 2 TMP\_249 = 0 not(TMP\_249) = 1 TMP\_250 = 0 not(TMP\_250) = 1 TMP\_251 = 1 not(TMP\_251) = 0 TMP\_252 = 1 not(TMP\_252) = 0 TMP\_253 = 1 not(TMP\_253) = 0 TMP\_254 = 2 TMP\_255 = 1 not(TMP\_255) = 0 TMP\_256 = 1 not(TMP\_256) = 0 TMP\_257 = 0 not(TMP\_257) = 1 TMP\_258 = 1 not(TMP\_258) = 0 TMP\_259 = 3 TMP\_260 = 0 not(TMP\_260) = 1 TMP\_261 = 0 not(TMP\_261) = 1 TMP\_262 = 0 TMP\_263 = 1 not(TMP\_263) = 0 TMP\_264 = 1 not(TMP\_264) = 0 TMP\_265 = 2 TMP\_266 = 0 not(TMP\_266) = 1 TMP\_267 = 0 not(TMP\_267) = 1 TMP\_268 = 1 not(TMP\_268) = 0 TMP\_269 = 1 not(TMP\_269) = 0 TMP\_270 = 1 not(TMP\_270) = 0 TMP\_271 = 2 TMP\_272 = 0 not(TMP\_272) = 1 TMP\_273 = 1 not(TMP\_273) = 0 TMP\_274 = 1 not(TMP\_274) = 0 TMP\_275 = 1 not(TMP\_275) = 0 TMP\_276 = 3 TMP\_277 = 0 not(TMP\_277) = 1 TMP\_278 = 0 not(TMP\_278) = 1 TMP\_279 = 0 TMP\_280 = 1 not(TMP\_280) = 0 TMP\_281 = 1 not(TMP\_281) = 0 TMP\_282 = 2 TMP\_283 = 0 not(TMP\_283) = 1 TMP\_284 = 0 not(TMP\_284) = 1 TMP\_285 = 1 not(TMP\_285) = 0 TMP\_286 = 1 not(TMP\_286) = 0 TMP\_287 = 1 not(TMP\_287) = 0 TMP\_288 = 2 TMP\_289 = 0 not(TMP\_289) = 1 TMP\_290 = 1 not(TMP\_290) = 0 TMP\_291 = 1 not(TMP\_291) = 0 TMP\_292 = 1 not(TMP\_292) = 0 TMP\_293 = 3 TMP\_294 = 0 not(TMP\_294) = 1 TMP\_295 = 0 not(TMP\_295) = 1 TMP\_296 = 0 TMP\_297 = 1 not(TMP\_297) = 0 TMP\_298 = 1 not(TMP\_298) = 0 TMP\_299 = 2 TMP\_300 = 0 not(TMP\_300) = 1 TMP\_301 = 0 not(TMP\_301) = 1 TMP\_302 = 1 not(TMP\_302) = 0 TMP\_303 = 1 not(TMP\_303) = 0 TMP\_304 = 1 not(TMP\_304) = 0 TMP\_305 = 2 TMP\_306 = 1 not(TMP\_306) = 0 TMP\_307 = 1 not(TMP\_307) = 0 TMP\_308 = 0 not(TMP\_308) = 1 TMP\_309 = 1 not(TMP\_309) = 0 TMP\_310 = 3 TMP\_311 = 0 not(TMP\_311) = 1 TMP\_312 = 0 not(TMP\_312) = 1 TMP\_313 = 0 TMP\_314 = 1 not(TMP\_314) = 0 TMP\_315 = 1 not(TMP\_315) = 0 TMP\_316 = 2 TMP\_317 = 0 not(TMP\_317) = 1 TMP\_318 = 0 not(TMP\_318) = 1 TMP\_319 = 1 not(TMP\_319) = 0 TMP\_320 = 1 not(TMP\_320) = 0 TMP\_321 = 1 not(TMP\_321) = 0 TMP\_322 = 2 TMP\_323 = 0 not(TMP\_323) = 1 TMP\_324 = 1 not(TMP\_324) = 0 TMP\_325 = 1 not(TMP\_325) = 0 TMP\_326 = 1 not(TMP\_326) = 0 TMP\_327 = 3 TMP\_328 = 0 not(TMP\_328) = 1 TMP\_329 = 0 not(TMP\_329) = 1 TMP\_330 = 0 TMP\_331 = 1 not(TMP\_331) = 0 TMP\_332 = 1 not(TMP\_332) = 0 TMP\_333 = 2 TMP\_334 = 0 not(TMP\_334) = 1 TMP\_335 = 0 not(TMP\_335) = 1 TMP\_336 = 1 not(TMP\_336) = 0 TMP\_337 = 1 not(TMP\_337) = 0 TMP\_338 = 1 not(TMP\_338) = 0 TMP\_339 = 2 Area\_0 = 10000 Distance\_0\_Rule\_0 = 100 Distance\_1\_Rule\_0 = 100 Area\_1 = 5000 Distance\_0\_Rule\_1 = 50 Distance\_1\_Rule\_1 = 100 Area\_2 = 2500 -(Rule\_2\_LB) = 0 Distance\_0\_Rule\_2 = 25 -(Rule\_2\_LB) = -400 Distance\_1\_Rule\_2 = 100 Area\_3 = 15000 -(Rule\_3\_LB) = -100 Distance\_0\_Rule\_3 = 150 -(Rule\_3\_LB) = 0 Distance\_1\_Rule\_3 = 100 Area\_4 = 22500 -(Rule\_4\_LB) = 0 Distance\_0\_Rule\_4 = 75 -(Rule\_4\_LB) = -100 Distance\_1\_Rule\_4 = 300 Area\_5 = 70000 -(Rule\_5\_LB) = -75 Distance\_0\_Rule\_5 = 175 -(Rule\_5\_LB) = -100 Distance\_1\_Rule\_5 = 400 TMP\_340 = 125000 .

- Solution #3 found. 3 Solutions, Resolution 85.686s, 889479 Nodes (10,380.6 n/s), 1778612 Backtracks, 889459 Fails, 0 Restarts

Rule\_2\_LB = 0 Rule\_2\_UB = 25 Rule\_2\_LB = 400 Rule\_2\_UB = 500 Rule\_3\_LB = 100 Rule\_3\_UB = 250 Rule\_3\_LB = 0 Rule\_3\_UB = 100 Rule\_4\_LB = 0 Rule\_4\_UB = 75 Rule\_4\_LB = 100 Rule\_4\_UB = 400 Rule\_5\_LB = 75 Rule\_5\_UB = 250 Rule\_5\_LB = 100 Rule\_5\_UB = 500 Overlaps\_0\_0 = 0 Overlaps\_0\_1 = 1 Overlaps\_0\_2 = 0 Overlaps\_0\_3 = 0 Overlaps\_0\_4 = 0 Overlaps\_0\_5 = 0 Overlaps\_1\_0 = 0 Overlaps\_1\_1 = 0 Overlaps\_1\_2 = 0 Overlaps\_1\_3 = 0 Overlaps\_1\_4 = 0 Overlaps\_1\_5 = 0 Overlaps\_2\_0 = 0 Overlaps\_2\_1 = 0 Overlaps\_2\_2 = 0 Overlaps\_2\_3 = 0 Overlaps\_2\_4 = 0 Overlaps\_2\_5 = 0 Overlaps\_3\_0 = 0 Overlaps\_3\_1 = 0 Overlaps\_3\_2 = 0 Overlaps\_3\_3 = 0 Overlaps\_3\_4 = 0 Overlaps\_3\_5 = 0 Overlaps\_4\_0 = 0 Overlaps\_4\_1 = 0 Overlaps\_4\_2 = 0 Overlaps\_4\_3 = 0 Overlaps\_4\_4 = 0 Overlaps\_4\_5 = 0 Overlaps\_5\_0 = 0 Overlaps\_5\_1 = 0 Overlaps\_5\_2 = 0 Overlaps\_5\_3 = 0 Overlaps\_5\_4 = 0 Overlaps\_5\_5 = 0 TMP\_0 = 1 not(TMP\_0) = 0 TMP\_1 = 1 not(TMP\_1) = 0 TMP\_2 = 0 not(TMP\_2) = 1 TMP\_3 = 1 not(TMP\_3) = 0 TMP\_4 = 3 TMP\_5 = 0 not(TMP\_5) = 1 TMP\_6 = 0 not(TMP\_6) = 1 TMP\_7 = 0 TMP\_8 = 1 not(TMP\_8) = 0 TMP\_9 = 1 not(TMP\_9) = 0 TMP\_10 = 2 TMP\_11 = 0 not(TMP\_11) = 1 TMP\_12 = 0 not(TMP\_12) = 1 TMP\_13 = 1 not(TMP\_13) = 0 TMP\_14 = 1 not(TMP\_14) = 0 TMP\_15 = 1 not(TMP\_15) = 0 TMP\_16 = 2 TMP\_17 = 1 not(TMP\_17) = 0 TMP\_18 = 0 not(TMP\_18) = 1 TMP\_19 = 1 not(TMP\_19) = 0 TMP\_20 = 1 not(TMP\_20) = 0 TMP\_21 = 3 TMP\_22 = 0 not(TMP\_22) = 1 TMP\_23 = 0 not(TMP\_23) = 1 TMP\_24 = 0 TMP\_25 = 1 not(TMP\_25) = 0 TMP\_26 = 1 not(TMP\_26) = 0 TMP\_27 = 2 TMP\_28 = 0 not(TMP\_28) = 1 TMP\_29 = 0 not(TMP\_29) = 1 TMP\_30 = 1 not(TMP\_30) = 0 TMP\_31 = 1 not(TMP\_31) = 0 TMP\_32 = 1 not(TMP\_32) = 0 TMP\_33 = 2 TMP\_34 = 1 not(TMP\_34) = 0 TMP\_35 = 0 not(TMP\_35) = 1 TMP\_36 = 0 not(TMP\_36) = 1 TMP\_37 = 1 not(TMP\_37) = 0 TMP\_38 = 2 TMP\_39 = 0 not(TMP\_39) = 1 TMP\_40 = 0 not(TMP\_40) = 1 TMP\_41 = 0 TMP\_42 = 1 not(TMP\_42) = 0 TMP\_43 = 1 not(TMP\_43) = 0 TMP\_44 = 2 TMP\_45 = 0 not(TMP\_45) = 1 TMP\_46 = 0 not(TMP\_46) = 1 TMP\_47 = 1 not(TMP\_47) = 0 TMP\_48 = 1 not(TMP\_48) = 0 TMP\_49 = 1 not(TMP\_49) = 0 TMP\_50 = 2 TMP\_51 = 1 not(TMP\_51) = 0 TMP\_52 = 1 not(TMP\_52) = 0 TMP\_53 = 0 not(TMP\_53) = 1 TMP\_54 = 1 not(TMP\_54) = 0 TMP\_55 = 3 TMP\_56 = 0 not(TMP\_56) = 1 TMP\_57 = 0 not(TMP\_57) = 1 TMP\_58 = 0 TMP\_59 = 1 not(TMP\_59) = 0 TMP\_60 = 1 not(TMP\_60) = 0 TMP\_61 = 2 TMP\_62 = 0 not(TMP\_62) = 1 TMP\_63 = 0 not(TMP\_63) = 1 TMP\_64 = 1 not(TMP\_64) = 0 TMP\_65 = 1 not(TMP\_65) = 0 TMP\_66 = 1 not(TMP\_66) = 0 TMP\_67 = 2 TMP\_68 = 1 not(TMP\_68) = 0 TMP\_69 = 0 not(TMP\_69) = 1 TMP\_70 = 1 not(TMP\_70) = 0 TMP\_71 = 1 not(TMP\_71) = 0 TMP\_72 = 3 TMP\_73 = 0 not(TMP\_73) = 1 TMP\_74 = 0 not(TMP\_74) = 1 TMP\_75 = 0 TMP\_76 = 1 not(TMP\_76) = 0 TMP\_77 = 1 not(TMP\_77) = 0 TMP\_78 = 2 TMP\_79 = 0 not(TMP\_79) = 1 TMP\_80 = 0 not(TMP\_80) = 1 TMP\_81 = 1 not(TMP\_81) = 0 TMP\_82 = 1 not(TMP\_82) = 0 TMP\_83 = 1 not(TMP\_83) = 0 TMP\_84 = 2 TMP\_85 = 0 not(TMP\_85) = 1 TMP\_86 = 1 not(TMP\_86) = 0 TMP\_87 = 1 not(TMP\_87) = 0 TMP\_88 = 1 not(TMP\_88) = 0 TMP\_89 = 3 TMP\_90 = 0 not(TMP\_90) = 1 TMP\_91 = 0 not(TMP\_91) = 1 TMP\_92 = 0 TMP\_93 = 1 not(TMP\_93) = 0 TMP\_94 = 1 not(TMP\_94) = 0 TMP\_95 = 2 TMP\_96 = 0 not(TMP\_96) = 1 TMP\_97 = 0 not(TMP\_97) = 1 TMP\_98 = 1 not(TMP\_98) = 0 TMP\_99 = 1 not(TMP\_99) = 0 TMP\_100 = 1 not(TMP\_100) = 0 TMP\_101 = 2 TMP\_102 = 0 not(TMP\_102) = 1 TMP\_103 = 1 not(TMP\_103) = 0 TMP\_104 = 1 not(TMP\_104) = 0 TMP\_105 = 0 not(TMP\_105) = 1 TMP\_106 = 2 TMP\_107 = 0 not(TMP\_107) = 1 TMP\_108 = 0 not(TMP\_108) = 1 TMP\_109 = 0 TMP\_110 = 1 not(TMP\_110) = 0 TMP\_111 = 1 not(TMP\_111) = 0 TMP\_112 = 2 TMP\_113 = 0 not(TMP\_113) = 1 TMP\_114 = 0 not(TMP\_114) = 1 TMP\_115 = 1 not(TMP\_115) = 0 TMP\_116 = 1 not(TMP\_116) = 0 TMP\_117 = 1 not(TMP\_117) = 0 TMP\_118 = 2 TMP\_119 = 0 not(TMP\_119) = 1 TMP\_120 = 1 not(TMP\_120) = 0 TMP\_121 = 1 not(TMP\_121) = 0 TMP\_122 = 0 not(TMP\_122) = 1 TMP\_123 = 2 TMP\_124 = 0 not(TMP\_124) = 1 TMP\_125 = 0 not(TMP\_125) = 1 TMP\_126 = 0 TMP\_127 = 1 not(TMP\_127) = 0 TMP\_128 = 1 not(TMP\_128) = 0 TMP\_129 = 2 TMP\_130 = 0 not(TMP\_130) = 1 TMP\_131 = 0 not(TMP\_131) = 1 TMP\_132 = 1 not(TMP\_132) = 0 TMP\_133 = 1 not(TMP\_133) = 0 TMP\_134 = 1 not(TMP\_134) = 0 TMP\_135 = 2 TMP\_136 = 0 not(TMP\_136) = 1 TMP\_137 = 1 not(TMP\_137) = 0 TMP\_138 = 1 not(TMP\_138) = 0 TMP\_139 = 0 not(TMP\_139) = 1 TMP\_140 = 2 TMP\_141 = 0 not(TMP\_141) = 1 TMP\_142 = 0 not(TMP\_142) = 1 TMP\_143 = 0 TMP\_144 = 1 not(TMP\_144) = 0 TMP\_145 = 1 not(TMP\_145) = 0 TMP\_146 = 2 TMP\_147 = 0 not(TMP\_147) = 1 TMP\_148 = 0 not(TMP\_148) = 1 TMP\_149 = 1 not(TMP\_149) = 0 TMP\_150 = 1 not(TMP\_150) = 0 TMP\_151 = 1 not(TMP\_151) = 0 TMP\_152 = 2 TMP\_153 = 1 not(TMP\_153) = 0 TMP\_154 = 1 not(TMP\_154) = 0 TMP\_155 = 1 not(TMP\_155) = 0 TMP\_156 = 0 not(TMP\_156) = 1 TMP\_157 = 3 TMP\_158 = 0 not(TMP\_158) = 1 TMP\_159 = 0 not(TMP\_159) = 1 TMP\_160 = 0 TMP\_161 = 1 not(TMP\_161) = 0 TMP\_162 = 1 not(TMP\_162) = 0 TMP\_163 = 2 TMP\_164 = 0 not(TMP\_164) = 1 TMP\_165 = 0 not(TMP\_165) = 1 TMP\_166 = 1 not(TMP\_166) = 0 TMP\_167 = 1 not(TMP\_167) = 0 TMP\_168 = 1 not(TMP\_168) = 0 TMP\_169 = 2 TMP\_170 = 1 not(TMP\_170) = 0 TMP\_171 = 1 not(TMP\_171) = 0 TMP\_172 = 0 not(TMP\_172) = 1 TMP\_173 = 1 not(TMP\_173) = 0 TMP\_174 = 3 TMP\_175 = 0 not(TMP\_175) = 1 TMP\_176 = 0 not(TMP\_176) = 1 TMP\_177 = 0 TMP\_178 = 1 not(TMP\_178) = 0 TMP\_179 = 1 not(TMP\_179) = 0 TMP\_180 = 2 TMP\_181 = 0 not(TMP\_181) = 1 TMP\_182 = 0 not(TMP\_182) = 1 TMP\_183 = 1 not(TMP\_183) = 0 TMP\_184 = 1 not(TMP\_184) = 0 TMP\_185 = 1 not(TMP\_185) = 0 TMP\_186 = 2 TMP\_187 = 1 not(TMP\_187) = 0 TMP\_188 = 1 not(TMP\_188) = 0 TMP\_189 = 1 not(TMP\_189) = 0 TMP\_190 = 0 not(TMP\_190) = 1 TMP\_191 = 3 TMP\_192 = 0 not(TMP\_192) = 1 TMP\_193 = 0 not(TMP\_193) = 1 TMP\_194 = 0 TMP\_195 = 1 not(TMP\_195) = 0 TMP\_196 = 1 not(TMP\_196) = 0 TMP\_197 = 2 TMP\_198 = 0 not(TMP\_198) = 1 TMP\_199 = 0 not(TMP\_199) = 1 TMP\_200 = 1 not(TMP\_200) = 0 TMP\_201 = 1 not(TMP\_201) = 0 TMP\_202 = 1 not(TMP\_202) = 0 TMP\_203 = 2 TMP\_204 = 1 not(TMP\_204) = 0 TMP\_205 = 1 not(TMP\_205) = 0 TMP\_206 = 1 not(TMP\_206) = 0 TMP\_207 = 0 not(TMP\_207) = 1 TMP\_208 = 3 TMP\_209 = 0 not(TMP\_209) = 1 TMP\_210 = 0 not(TMP\_210) = 1 TMP\_211 = 0 TMP\_212 = 1 not(TMP\_212) = 0 TMP\_213 = 1 not(TMP\_213) = 0 TMP\_214 = 2 TMP\_215 = 0 not(TMP\_215) = 1 TMP\_216 = 0 not(TMP\_216) = 1 TMP\_217 = 1 not(TMP\_217) = 0 TMP\_218 = 1 not(TMP\_218) = 0 TMP\_219 = 1 not(TMP\_219) = 0 TMP\_220 = 2 TMP\_221 = 1 not(TMP\_221) = 0 TMP\_222 = 0 not(TMP\_222) = 1 TMP\_223 = 0 not(TMP\_223) = 1 TMP\_224 = 1 not(TMP\_224) = 0 TMP\_225 = 2 TMP\_226 = 0 not(TMP\_226) = 1 TMP\_227 = 0 not(TMP\_227) = 1 TMP\_228 = 0 TMP\_229 = 1 not(TMP\_229) = 0 TMP\_230 = 1 not(TMP\_230) = 0 TMP\_231 = 2 TMP\_232 = 0 not(TMP\_232) = 1 TMP\_233 = 0 not(TMP\_233) = 1 TMP\_234 = 1 not(TMP\_234) = 0 TMP\_235 = 1 not(TMP\_235) = 0 TMP\_236 = 1 not(TMP\_236) = 0 TMP\_237 = 2 TMP\_238 = 1 not(TMP\_238) = 0 TMP\_239 = 0 not(TMP\_239) = 1 TMP\_240 = 1 not(TMP\_240) = 0 TMP\_241 = 1 not(TMP\_241) = 0 TMP\_242 = 3 TMP\_243 = 0 not(TMP\_243) = 1 TMP\_244 = 0 not(TMP\_244) = 1 TMP\_245 = 0 TMP\_246 = 1 not(TMP\_246) = 0 TMP\_247 = 1 not(TMP\_247) = 0 TMP\_248 = 2 TMP\_249 = 0 not(TMP\_249) = 1 TMP\_250 = 0 not(TMP\_250) = 1 TMP\_251 = 1 not(TMP\_251) = 0 TMP\_252 = 1 not(TMP\_252) = 0 TMP\_253 = 1 not(TMP\_253) = 0 TMP\_254 = 2 TMP\_255 = 1 not(TMP\_255) = 0 TMP\_256 = 1 not(TMP\_256) = 0 TMP\_257 = 0 not(TMP\_257) = 1 TMP\_258 = 1 not(TMP\_258) = 0 TMP\_259 = 3 TMP\_260 = 0 not(TMP\_260) = 1 TMP\_261 = 0 not(TMP\_261) = 1 TMP\_262 = 0 TMP\_263 = 1 not(TMP\_263) = 0 TMP\_264 = 1 not(TMP\_264) = 0 TMP\_265 = 2 TMP\_266 = 0 not(TMP\_266) = 1 TMP\_267 = 0 not(TMP\_267) = 1 TMP\_268 = 1 not(TMP\_268) = 0 TMP\_269 = 1 not(TMP\_269) = 0 TMP\_270 = 1 not(TMP\_270) = 0 TMP\_271 = 2 TMP\_272 = 0 not(TMP\_272) = 1 TMP\_273 = 1 not(TMP\_273) = 0 TMP\_274 = 1 not(TMP\_274) = 0 TMP\_275 = 1 not(TMP\_275) = 0 TMP\_276 = 3 TMP\_277 = 0 not(TMP\_277) = 1 TMP\_278 = 0 not(TMP\_278) = 1 TMP\_279 = 0 TMP\_280 = 1 not(TMP\_280) = 0 TMP\_281 = 1 not(TMP\_281) = 0 TMP\_282 = 2 TMP\_283 = 0 not(TMP\_283) = 1 TMP\_284 = 0 not(TMP\_284) = 1 TMP\_285 = 1 not(TMP\_285) = 0 TMP\_286 = 1 not(TMP\_286) = 0 TMP\_287 = 1 not(TMP\_287) = 0 TMP\_288 = 2 TMP\_289 = 0 not(TMP\_289) = 1 TMP\_290 = 1 not(TMP\_290) = 0 TMP\_291 = 1 not(TMP\_291) = 0 TMP\_292 = 1 not(TMP\_292) = 0 TMP\_293 = 3 TMP\_294 = 0 not(TMP\_294) = 1 TMP\_295 = 0 not(TMP\_295) = 1 TMP\_296 = 0 TMP\_297 = 1 not(TMP\_297) = 0 TMP\_298 = 1 not(TMP\_298) = 0 TMP\_299 = 2 TMP\_300 = 0 not(TMP\_300) = 1 TMP\_301 = 0 not(TMP\_301) = 1 TMP\_302 = 1 not(TMP\_302) = 0 TMP\_303 = 1 not(TMP\_303) = 0 TMP\_304 = 1 not(TMP\_304) = 0 TMP\_305 = 2 TMP\_306 = 1 not(TMP\_306) = 0 TMP\_307 = 1 not(TMP\_307) = 0 TMP\_308 = 0 not(TMP\_308) = 1 TMP\_309 = 1 not(TMP\_309) = 0 TMP\_310 = 3 TMP\_311 = 0 not(TMP\_311) = 1 TMP\_312 = 0 not(TMP\_312) = 1 TMP\_313 = 0 TMP\_314 = 1 not(TMP\_314) = 0 TMP\_315 = 1 not(TMP\_315) = 0 TMP\_316 = 2 TMP\_317 = 0 not(TMP\_317) = 1 TMP\_318 = 0 not(TMP\_318) = 1 TMP\_319 = 1 not(TMP\_319) = 0 TMP\_320 = 1 not(TMP\_320) = 0 TMP\_321 = 1 not(TMP\_321) = 0 TMP\_322 = 2 TMP\_323 = 0 not(TMP\_323) = 1 TMP\_324 = 1 not(TMP\_324) = 0 TMP\_325 = 1 not(TMP\_325) = 0 TMP\_326 = 1 not(TMP\_326) = 0 TMP\_327 = 3 TMP\_328 = 0 not(TMP\_328) = 1 TMP\_329 = 0 not(TMP\_329) = 1 TMP\_330 = 0 TMP\_331 = 1 not(TMP\_331) = 0 TMP\_332 = 1 not(TMP\_332) = 0 TMP\_333 = 2 TMP\_334 = 0 not(TMP\_334) = 1 TMP\_335 = 0 not(TMP\_335) = 1 TMP\_336 = 1 not(TMP\_336) = 0 TMP\_337 = 1 not(TMP\_337) = 0 TMP\_338 = 1 not(TMP\_338) = 0 TMP\_339 = 2 Area\_0 = 10000 Distance\_0\_Rule\_0 = 100 Distance\_1\_Rule\_0 = 100 Area\_1 = 5000 Distance\_0\_Rule\_1 = 50 Distance\_1\_Rule\_1 = 100 Area\_2 = 2500 -(Rule\_2\_LB) = 0 Distance\_0\_Rule\_2 = 25 -(Rule\_2\_LB) = -400 Distance\_1\_Rule\_2 = 100 Area\_3 = 15000 -(Rule\_3\_LB) = -100 Distance\_0\_Rule\_3 = 150 -(Rule\_3\_LB) = 0 Distance\_1\_Rule\_3 = 100 Area\_4 = 22500 -(Rule\_4\_LB) = 0 Distance\_0\_Rule\_4 = 75 -(Rule\_4\_LB) = -100 Distance\_1\_Rule\_4 = 300 Area\_5 = 70000 -(Rule\_5\_LB) = -75 Distance\_0\_Rule\_5 = 175 -(Rule\_5\_LB) = -100 Distance\_1\_Rule\_5 = 400 TMP\_340 = 125000 .

- Solution #4 found. 4 Solutions, Resolution 85.690s, 889480 Nodes (10,380.2 n/s), 1778613 Backtracks, 889459 Fails, 0 Restarts

Rule\_2\_LB = 0 Rule\_2\_UB = 25 Rule\_2\_LB = 400 Rule\_2\_UB = 500 Rule\_3\_LB = 100 Rule\_3\_UB = 250 Rule\_3\_LB = 0 Rule\_3\_UB = 100 Rule\_4\_LB = 0 Rule\_4\_UB = 75 Rule\_4\_LB = 100 Rule\_4\_UB = 400 Rule\_5\_LB = 75 Rule\_5\_UB = 250 Rule\_5\_LB = 100 Rule\_5\_UB = 500 Overlaps\_0\_0 = 0 Overlaps\_0\_1 = 1 Overlaps\_0\_2 = 0 Overlaps\_0\_3 = 0 Overlaps\_0\_4 = 0 Overlaps\_0\_5 = 0 Overlaps\_1\_0 = 1 Overlaps\_1\_1 = 0 Overlaps\_1\_2 = 0 Overlaps\_1\_3 = 0 Overlaps\_1\_4 = 0 Overlaps\_1\_5 = 0 Overlaps\_2\_0 = 0 Overlaps\_2\_1 = 0 Overlaps\_2\_2 = 0 Overlaps\_2\_3 = 0 Overlaps\_2\_4 = 0 Overlaps\_2\_5 = 0 Overlaps\_3\_0 = 0 Overlaps\_3\_1 = 0 Overlaps\_3\_2 = 0 Overlaps\_3\_3 = 0 Overlaps\_3\_4 = 0 Overlaps\_3\_5 = 0 Overlaps\_4\_0 = 0 Overlaps\_4\_1 = 0 Overlaps\_4\_2 = 0 Overlaps\_4\_3 = 0 Overlaps\_4\_4 = 0 Overlaps\_4\_5 = 0 Overlaps\_5\_0 = 0 Overlaps\_5\_1 = 0 Overlaps\_5\_2 = 0 Overlaps\_5\_3 = 0 Overlaps\_5\_4 = 0 Overlaps\_5\_5 = 0 TMP\_0 = 1 not(TMP\_0) = 0 TMP\_1 = 1 not(TMP\_1) = 0 TMP\_2 = 0 not(TMP\_2) = 1 TMP\_3 = 1 not(TMP\_3) = 0 TMP\_4 = 3 TMP\_5 = 0 not(TMP\_5) = 1 TMP\_6 = 0 not(TMP\_6) = 1 TMP\_7 = 0 TMP\_8 = 1 not(TMP\_8) = 0 TMP\_9 = 1 not(TMP\_9) = 0 TMP\_10 = 2 TMP\_11 = 0 not(TMP\_11) = 1 TMP\_12 = 0 not(TMP\_12) = 1 TMP\_13 = 1 not(TMP\_13) = 0 TMP\_14 = 1 not(TMP\_14) = 0 TMP\_15 = 1 not(TMP\_15) = 0 TMP\_16 = 2 TMP\_17 = 1 not(TMP\_17) = 0 TMP\_18 = 0 not(TMP\_18) = 1 TMP\_19 = 1 not(TMP\_19) = 0 TMP\_20 = 1 not(TMP\_20) = 0 TMP\_21 = 3 TMP\_22 = 0 not(TMP\_22) = 1 TMP\_23 = 0 not(TMP\_23) = 1 TMP\_24 = 0 TMP\_25 = 1 not(TMP\_25) = 0 TMP\_26 = 1 not(TMP\_26) = 0 TMP\_27 = 2 TMP\_28 = 0 not(TMP\_28) = 1 TMP\_29 = 0 not(TMP\_29) = 1 TMP\_30 = 1 not(TMP\_30) = 0 TMP\_31 = 1 not(TMP\_31) = 0 TMP\_32 = 1 not(TMP\_32) = 0 TMP\_33 = 2 TMP\_34 = 1 not(TMP\_34) = 0 TMP\_35 = 0 not(TMP\_35) = 1 TMP\_36 = 0 not(TMP\_36) = 1 TMP\_37 = 1 not(TMP\_37) = 0 TMP\_38 = 2 TMP\_39 = 0 not(TMP\_39) = 1 TMP\_40 = 0 not(TMP\_40) = 1 TMP\_41 = 0 TMP\_42 = 1 not(TMP\_42) = 0 TMP\_43 = 1 not(TMP\_43) = 0 TMP\_44 = 2 TMP\_45 = 0 not(TMP\_45) = 1 TMP\_46 = 0 not(TMP\_46) = 1 TMP\_47 = 1 not(TMP\_47) = 0 TMP\_48 = 1 not(TMP\_48) = 0 TMP\_49 = 1 not(TMP\_49) = 0 TMP\_50 = 2 TMP\_51 = 1 not(TMP\_51) = 0 TMP\_52 = 1 not(TMP\_52) = 0 TMP\_53 = 0 not(TMP\_53) = 1 TMP\_54 = 1 not(TMP\_54) = 0 TMP\_55 = 3 TMP\_56 = 0 not(TMP\_56) = 1 TMP\_57 = 0 not(TMP\_57) = 1 TMP\_58 = 0 TMP\_59 = 1 not(TMP\_59) = 0 TMP\_60 = 1 not(TMP\_60) = 0 TMP\_61 = 2 TMP\_62 = 0 not(TMP\_62) = 1 TMP\_63 = 0 not(TMP\_63) = 1 TMP\_64 = 1 not(TMP\_64) = 0 TMP\_65 = 1 not(TMP\_65) = 0 TMP\_66 = 1 not(TMP\_66) = 0 TMP\_67 = 2 TMP\_68 = 1 not(TMP\_68) = 0 TMP\_69 = 0 not(TMP\_69) = 1 TMP\_70 = 1 not(TMP\_70) = 0 TMP\_71 = 1 not(TMP\_71) = 0 TMP\_72 = 3 TMP\_73 = 0 not(TMP\_73) = 1 TMP\_74 = 0 not(TMP\_74) = 1 TMP\_75 = 0 TMP\_76 = 1 not(TMP\_76) = 0 TMP\_77 = 1 not(TMP\_77) = 0 TMP\_78 = 2 TMP\_79 = 0 not(TMP\_79) = 1 TMP\_80 = 0 not(TMP\_80) = 1 TMP\_81 = 1 not(TMP\_81) = 0 TMP\_82 = 1 not(TMP\_82) = 0 TMP\_83 = 1 not(TMP\_83) = 0 TMP\_84 = 2 TMP\_85 = 0 not(TMP\_85) = 1 TMP\_86 = 1 not(TMP\_86) = 0 TMP\_87 = 1 not(TMP\_87) = 0 TMP\_88 = 1 not(TMP\_88) = 0 TMP\_89 = 3 TMP\_90 = 0 not(TMP\_90) = 1 TMP\_91 = 0 not(TMP\_91) = 1 TMP\_92 = 0 TMP\_93 = 1 not(TMP\_93) = 0 TMP\_94 = 1 not(TMP\_94) = 0 TMP\_95 = 2 TMP\_96 = 0 not(TMP\_96) = 1 TMP\_97 = 0 not(TMP\_97) = 1 TMP\_98 = 1 not(TMP\_98) = 0 TMP\_99 = 1 not(TMP\_99) = 0 TMP\_100 = 1 not(TMP\_100) = 0 TMP\_101 = 2 TMP\_102 = 0 not(TMP\_102) = 1 TMP\_103 = 1 not(TMP\_103) = 0 TMP\_104 = 1 not(TMP\_104) = 0 TMP\_105 = 0 not(TMP\_105) = 1 TMP\_106 = 2 TMP\_107 = 0 not(TMP\_107) = 1 TMP\_108 = 0 not(TMP\_108) = 1 TMP\_109 = 0 TMP\_110 = 1 not(TMP\_110) = 0 TMP\_111 = 1 not(TMP\_111) = 0 TMP\_112 = 2 TMP\_113 = 0 not(TMP\_113) = 1 TMP\_114 = 0 not(TMP\_114) = 1 TMP\_115 = 1 not(TMP\_115) = 0 TMP\_116 = 1 not(TMP\_116) = 0 TMP\_117 = 1 not(TMP\_117) = 0 TMP\_118 = 2 TMP\_119 = 0 not(TMP\_119) = 1 TMP\_120 = 1 not(TMP\_120) = 0 TMP\_121 = 1 not(TMP\_121) = 0 TMP\_122 = 0 not(TMP\_122) = 1 TMP\_123 = 2 TMP\_124 = 0 not(TMP\_124) = 1 TMP\_125 = 0 not(TMP\_125) = 1 TMP\_126 = 0 TMP\_127 = 1 not(TMP\_127) = 0 TMP\_128 = 1 not(TMP\_128) = 0 TMP\_129 = 2 TMP\_130 = 0 not(TMP\_130) = 1 TMP\_131 = 0 not(TMP\_131) = 1 TMP\_132 = 1 not(TMP\_132) = 0 TMP\_133 = 1 not(TMP\_133) = 0 TMP\_134 = 1 not(TMP\_134) = 0 TMP\_135 = 2 TMP\_136 = 0 not(TMP\_136) = 1 TMP\_137 = 1 not(TMP\_137) = 0 TMP\_138 = 1 not(TMP\_138) = 0 TMP\_139 = 0 not(TMP\_139) = 1 TMP\_140 = 2 TMP\_141 = 0 not(TMP\_141) = 1 TMP\_142 = 0 not(TMP\_142) = 1 TMP\_143 = 0 TMP\_144 = 1 not(TMP\_144) = 0 TMP\_145 = 1 not(TMP\_145) = 0 TMP\_146 = 2 TMP\_147 = 0 not(TMP\_147) = 1 TMP\_148 = 0 not(TMP\_148) = 1 TMP\_149 = 1 not(TMP\_149) = 0 TMP\_150 = 1 not(TMP\_150) = 0 TMP\_151 = 1 not(TMP\_151) = 0 TMP\_152 = 2 TMP\_153 = 1 not(TMP\_153) = 0 TMP\_154 = 1 not(TMP\_154) = 0 TMP\_155 = 1 not(TMP\_155) = 0 TMP\_156 = 0 not(TMP\_156) = 1 TMP\_157 = 3 TMP\_158 = 0 not(TMP\_158) = 1 TMP\_159 = 0 not(TMP\_159) = 1 TMP\_160 = 0 TMP\_161 = 1 not(TMP\_161) = 0 TMP\_162 = 1 not(TMP\_162) = 0 TMP\_163 = 2 TMP\_164 = 0 not(TMP\_164) = 1 TMP\_165 = 0 not(TMP\_165) = 1 TMP\_166 = 1 not(TMP\_166) = 0 TMP\_167 = 1 not(TMP\_167) = 0 TMP\_168 = 1 not(TMP\_168) = 0 TMP\_169 = 2 TMP\_170 = 1 not(TMP\_170) = 0 TMP\_171 = 1 not(TMP\_171) = 0 TMP\_172 = 0 not(TMP\_172) = 1 TMP\_173 = 1 not(TMP\_173) = 0 TMP\_174 = 3 TMP\_175 = 0 not(TMP\_175) = 1 TMP\_176 = 0 not(TMP\_176) = 1 TMP\_177 = 0 TMP\_178 = 1 not(TMP\_178) = 0 TMP\_179 = 1 not(TMP\_179) = 0 TMP\_180 = 2 TMP\_181 = 0 not(TMP\_181) = 1 TMP\_182 = 0 not(TMP\_182) = 1 TMP\_183 = 1 not(TMP\_183) = 0 TMP\_184 = 1 not(TMP\_184) = 0 TMP\_185 = 1 not(TMP\_185) = 0 TMP\_186 = 2 TMP\_187 = 1 not(TMP\_187) = 0 TMP\_188 = 1 not(TMP\_188) = 0 TMP\_189 = 1 not(TMP\_189) = 0 TMP\_190 = 0 not(TMP\_190) = 1 TMP\_191 = 3 TMP\_192 = 0 not(TMP\_192) = 1 TMP\_193 = 0 not(TMP\_193) = 1 TMP\_194 = 0 TMP\_195 = 1 not(TMP\_195) = 0 TMP\_196 = 1 not(TMP\_196) = 0 TMP\_197 = 2 TMP\_198 = 0 not(TMP\_198) = 1 TMP\_199 = 0 not(TMP\_199) = 1 TMP\_200 = 1 not(TMP\_200) = 0 TMP\_201 = 1 not(TMP\_201) = 0 TMP\_202 = 1 not(TMP\_202) = 0 TMP\_203 = 2 TMP\_204 = 1 not(TMP\_204) = 0 TMP\_205 = 1 not(TMP\_205) = 0 TMP\_206 = 1 not(TMP\_206) = 0 TMP\_207 = 0 not(TMP\_207) = 1 TMP\_208 = 3 TMP\_209 = 0 not(TMP\_209) = 1 TMP\_210 = 0 not(TMP\_210) = 1 TMP\_211 = 0 TMP\_212 = 1 not(TMP\_212) = 0 TMP\_213 = 1 not(TMP\_213) = 0 TMP\_214 = 2 TMP\_215 = 0 not(TMP\_215) = 1 TMP\_216 = 0 not(TMP\_216) = 1 TMP\_217 = 1 not(TMP\_217) = 0 TMP\_218 = 1 not(TMP\_218) = 0 TMP\_219 = 1 not(TMP\_219) = 0 TMP\_220 = 2 TMP\_221 = 1 not(TMP\_221) = 0 TMP\_222 = 0 not(TMP\_222) = 1 TMP\_223 = 0 not(TMP\_223) = 1 TMP\_224 = 1 not(TMP\_224) = 0 TMP\_225 = 2 TMP\_226 = 0 not(TMP\_226) = 1 TMP\_227 = 0 not(TMP\_227) = 1 TMP\_228 = 0 TMP\_229 = 1 not(TMP\_229) = 0 TMP\_230 = 1 not(TMP\_230) = 0 TMP\_231 = 2 TMP\_232 = 0 not(TMP\_232) = 1 TMP\_233 = 0 not(TMP\_233) = 1 TMP\_234 = 1 not(TMP\_234) = 0 TMP\_235 = 1 not(TMP\_235) = 0 TMP\_236 = 1 not(TMP\_236) = 0 TMP\_237 = 2 TMP\_238 = 1 not(TMP\_238) = 0 TMP\_239 = 0 not(TMP\_239) = 1 TMP\_240 = 1 not(TMP\_240) = 0 TMP\_241 = 1 not(TMP\_241) = 0 TMP\_242 = 3 TMP\_243 = 0 not(TMP\_243) = 1 TMP\_244 = 0 not(TMP\_244) = 1 TMP\_245 = 0 TMP\_246 = 1 not(TMP\_246) = 0 TMP\_247 = 1 not(TMP\_247) = 0 TMP\_248 = 2 TMP\_249 = 0 not(TMP\_249) = 1 TMP\_250 = 0 not(TMP\_250) = 1 TMP\_251 = 1 not(TMP\_251) = 0 TMP\_252 = 1 not(TMP\_252) = 0 TMP\_253 = 1 not(TMP\_253) = 0 TMP\_254 = 2 TMP\_255 = 1 not(TMP\_255) = 0 TMP\_256 = 1 not(TMP\_256) = 0 TMP\_257 = 0 not(TMP\_257) = 1 TMP\_258 = 1 not(TMP\_258) = 0 TMP\_259 = 3 TMP\_260 = 0 not(TMP\_260) = 1 TMP\_261 = 0 not(TMP\_261) = 1 TMP\_262 = 0 TMP\_263 = 1 not(TMP\_263) = 0 TMP\_264 = 1 not(TMP\_264) = 0 TMP\_265 = 2 TMP\_266 = 0 not(TMP\_266) = 1 TMP\_267 = 0 not(TMP\_267) = 1 TMP\_268 = 1 not(TMP\_268) = 0 TMP\_269 = 1 not(TMP\_269) = 0 TMP\_270 = 1 not(TMP\_270) = 0 TMP\_271 = 2 TMP\_272 = 0 not(TMP\_272) = 1 TMP\_273 = 1 not(TMP\_273) = 0 TMP\_274 = 1 not(TMP\_274) = 0 TMP\_275 = 1 not(TMP\_275) = 0 TMP\_276 = 3 TMP\_277 = 0 not(TMP\_277) = 1 TMP\_278 = 0 not(TMP\_278) = 1 TMP\_279 = 0 TMP\_280 = 1 not(TMP\_280) = 0 TMP\_281 = 1 not(TMP\_281) = 0 TMP\_282 = 2 TMP\_283 = 0 not(TMP\_283) = 1 TMP\_284 = 0 not(TMP\_284) = 1 TMP\_285 = 1 not(TMP\_285) = 0 TMP\_286 = 1 not(TMP\_286) = 0 TMP\_287 = 1 not(TMP\_287) = 0 TMP\_288 = 2 TMP\_289 = 0 not(TMP\_289) = 1 TMP\_290 = 1 not(TMP\_290) = 0 TMP\_291 = 1 not(TMP\_291) = 0 TMP\_292 = 1 not(TMP\_292) = 0 TMP\_293 = 3 TMP\_294 = 0 not(TMP\_294) = 1 TMP\_295 = 0 not(TMP\_295) = 1 TMP\_296 = 0 TMP\_297 = 1 not(TMP\_297) = 0 TMP\_298 = 1 not(TMP\_298) = 0 TMP\_299 = 2 TMP\_300 = 0 not(TMP\_300) = 1 TMP\_301 = 0 not(TMP\_301) = 1 TMP\_302 = 1 not(TMP\_302) = 0 TMP\_303 = 1 not(TMP\_303) = 0 TMP\_304 = 1 not(TMP\_304) = 0 TMP\_305 = 2 TMP\_306 = 1 not(TMP\_306) = 0 TMP\_307 = 1 not(TMP\_307) = 0 TMP\_308 = 0 not(TMP\_308) = 1 TMP\_309 = 1 not(TMP\_309) = 0 TMP\_310 = 3 TMP\_311 = 0 not(TMP\_311) = 1 TMP\_312 = 0 not(TMP\_312) = 1 TMP\_313 = 0 TMP\_314 = 1 not(TMP\_314) = 0 TMP\_315 = 1 not(TMP\_315) = 0 TMP\_316 = 2 TMP\_317 = 0 not(TMP\_317) = 1 TMP\_318 = 0 not(TMP\_318) = 1 TMP\_319 = 1 not(TMP\_319) = 0 TMP\_320 = 1 not(TMP\_320) = 0 TMP\_321 = 1 not(TMP\_321) = 0 TMP\_322 = 2 TMP\_323 = 0 not(TMP\_323) = 1 TMP\_324 = 1 not(TMP\_324) = 0 TMP\_325 = 1 not(TMP\_325) = 0 TMP\_326 = 1 not(TMP\_326) = 0 TMP\_327 = 3 TMP\_328 = 0 not(TMP\_328) = 1 TMP\_329 = 0 not(TMP\_329) = 1 TMP\_330 = 0 TMP\_331 = 1 not(TMP\_331) = 0 TMP\_332 = 1 not(TMP\_332) = 0 TMP\_333 = 2 TMP\_334 = 0 not(TMP\_334) = 1 TMP\_335 = 0 not(TMP\_335) = 1 TMP\_336 = 1 not(TMP\_336) = 0 TMP\_337 = 1 not(TMP\_337) = 0 TMP\_338 = 1 not(TMP\_338) = 0 TMP\_339 = 2 Area\_0 = 10000 Distance\_0\_Rule\_0 = 100 Distance\_1\_Rule\_0 = 100 Area\_1 = 5000 Distance\_0\_Rule\_1 = 50 Distance\_1\_Rule\_1 = 100 Area\_2 = 2500 -(Rule\_2\_LB) = 0 Distance\_0\_Rule\_2 = 25 -(Rule\_2\_LB) = -400 Distance\_1\_Rule\_2 = 100 Area\_3 = 15000 -(Rule\_3\_LB) = -100 Distance\_0\_Rule\_3 = 150 -(Rule\_3\_LB) = 0 Distance\_1\_Rule\_3 = 100 Area\_4 = 22500 -(Rule\_4\_LB) = 0 Distance\_0\_Rule\_4 = 75 -(Rule\_4\_LB) = -100 Distance\_1\_Rule\_4 = 300 Area\_5 = 70000 -(Rule\_5\_LB) = -75 Distance\_0\_Rule\_5 = 175 -(Rule\_5\_LB) = -100 Distance\_1\_Rule\_5 = 400 TMP\_340 = 125000 .

- Solution #5 found. 5 Solutions, Resolution 99.823s, 1043508 Nodes (10,453.6 n/s), 2086788 Backtracks, 1043483 Fails, 0 Restarts

Rule\_2\_LB = 0 Rule\_2\_UB = 25 Rule\_2\_LB = 400 Rule\_2\_UB = 500 Rule\_3\_LB = 100 Rule\_3\_UB = 250 Rule\_3\_LB = 0 Rule\_3\_UB = 400 Rule\_4\_LB = 0 Rule\_4\_UB = 100 Rule\_4\_LB = 100 Rule\_4\_UB = 400 Rule\_5\_LB = 75 Rule\_5\_UB = 250 Rule\_5\_LB = 400 Rule\_5\_UB = 500 Overlaps\_0\_0 = 0 Overlaps\_0\_1 = 0 Overlaps\_0\_2 = 0 Overlaps\_0\_3 = 0 Overlaps\_0\_4 = 0 Overlaps\_0\_5 = 0 Overlaps\_1\_0 = 0 Overlaps\_1\_1 = 0 Overlaps\_1\_2 = 0 Overlaps\_1\_3 = 0 Overlaps\_1\_4 = 0 Overlaps\_1\_5 = 0 Overlaps\_2\_0 = 0 Overlaps\_2\_1 = 0 Overlaps\_2\_2 = 0 Overlaps\_2\_3 = 0 Overlaps\_2\_4 = 0 Overlaps\_2\_5 = 0 Overlaps\_3\_0 = 0 Overlaps\_3\_1 = 0 Overlaps\_3\_2 = 0 Overlaps\_3\_3 = 0 Overlaps\_3\_4 = 0 Overlaps\_3\_5 = 0 Overlaps\_4\_0 = 0 Overlaps\_4\_1 = 0 Overlaps\_4\_2 = 0 Overlaps\_4\_3 = 0 Overlaps\_4\_4 = 0 Overlaps\_4\_5 = 0 Overlaps\_5\_0 = 0 Overlaps\_5\_1 = 0 Overlaps\_5\_2 = 0 Overlaps\_5\_3 = 0 Overlaps\_5\_4 = 0 Overlaps\_5\_5 = 0 TMP\_0 = 1 not(TMP\_0) = 0 TMP\_1 = 1 not(TMP\_1) = 0 TMP\_2 = 0 not(TMP\_2) = 1 TMP\_3 = 1 not(TMP\_3) = 0 TMP\_4 = 3 TMP\_5 = 0 not(TMP\_5) = 1 TMP\_6 = 0 not(TMP\_6) = 1 TMP\_7 = 0 TMP\_8 = 1 not(TMP\_8) = 0 TMP\_9 = 1 not(TMP\_9) = 0 TMP\_10 = 2 TMP\_11 = 0 not(TMP\_11) = 1 TMP\_12 = 0 not(TMP\_12) = 1 TMP\_13 = 1 not(TMP\_13) = 0 TMP\_14 = 1 not(TMP\_14) = 0 TMP\_15 = 1 not(TMP\_15) = 0 TMP\_16 = 2 TMP\_17 = 1 not(TMP\_17) = 0 TMP\_18 = 0 not(TMP\_18) = 1 TMP\_19 = 1 not(TMP\_19) = 0 TMP\_20 = 1 not(TMP\_20) = 0 TMP\_21 = 3 TMP\_22 = 0 not(TMP\_22) = 1 TMP\_23 = 0 not(TMP\_23) = 1 TMP\_24 = 0 TMP\_25 = 1 not(TMP\_25) = 0 TMP\_26 = 1 not(TMP\_26) = 0 TMP\_27 = 2 TMP\_28 = 0 not(TMP\_28) = 1 TMP\_29 = 0 not(TMP\_29) = 1 TMP\_30 = 1 not(TMP\_30) = 0 TMP\_31 = 1 not(TMP\_31) = 0 TMP\_32 = 1 not(TMP\_32) = 0 TMP\_33 = 2 TMP\_34 = 1 not(TMP\_34) = 0 TMP\_35 = 0 not(TMP\_35) = 1 TMP\_36 = 0 not(TMP\_36) = 1 TMP\_37 = 1 not(TMP\_37) = 0 TMP\_38 = 2 TMP\_39 = 0 not(TMP\_39) = 1 TMP\_40 = 0 not(TMP\_40) = 1 TMP\_41 = 0 TMP\_42 = 1 not(TMP\_42) = 0 TMP\_43 = 1 not(TMP\_43) = 0 TMP\_44 = 2 TMP\_45 = 0 not(TMP\_45) = 1 TMP\_46 = 0 not(TMP\_46) = 1 TMP\_47 = 1 not(TMP\_47) = 0 TMP\_48 = 1 not(TMP\_48) = 0 TMP\_49 = 1 not(TMP\_49) = 0 TMP\_50 = 2 TMP\_51 = 1 not(TMP\_51) = 0 TMP\_52 = 1 not(TMP\_52) = 0 TMP\_53 = 0 not(TMP\_53) = 1 TMP\_54 = 1 not(TMP\_54) = 0 TMP\_55 = 3 TMP\_56 = 0 not(TMP\_56) = 1 TMP\_57 = 0 not(TMP\_57) = 1 TMP\_58 = 0 TMP\_59 = 1 not(TMP\_59) = 0 TMP\_60 = 1 not(TMP\_60) = 0 TMP\_61 = 2 TMP\_62 = 0 not(TMP\_62) = 1 TMP\_63 = 0 not(TMP\_63) = 1 TMP\_64 = 1 not(TMP\_64) = 0 TMP\_65 = 1 not(TMP\_65) = 0 TMP\_66 = 1 not(TMP\_66) = 0 TMP\_67 = 2 TMP\_68 = 1 not(TMP\_68) = 0 TMP\_69 = 0 not(TMP\_69) = 1 TMP\_70 = 1 not(TMP\_70) = 0 TMP\_71 = 1 not(TMP\_71) = 0 TMP\_72 = 3 TMP\_73 = 0 not(TMP\_73) = 1 TMP\_74 = 0 not(TMP\_74) = 1 TMP\_75 = 0 TMP\_76 = 1 not(TMP\_76) = 0 TMP\_77 = 1 not(TMP\_77) = 0 TMP\_78 = 2 TMP\_79 = 0 not(TMP\_79) = 1 TMP\_80 = 0 not(TMP\_80) = 1 TMP\_81 = 1 not(TMP\_81) = 0 TMP\_82 = 1 not(TMP\_82) = 0 TMP\_83 = 1 not(TMP\_83) = 0 TMP\_84 = 2 TMP\_85 = 0 not(TMP\_85) = 1 TMP\_86 = 1 not(TMP\_86) = 0 TMP\_87 = 1 not(TMP\_87) = 0 TMP\_88 = 1 not(TMP\_88) = 0 TMP\_89 = 3 TMP\_90 = 0 not(TMP\_90) = 1 TMP\_91 = 0 not(TMP\_91) = 1 TMP\_92 = 0 TMP\_93 = 1 not(TMP\_93) = 0 TMP\_94 = 1 not(TMP\_94) = 0 TMP\_95 = 2 TMP\_96 = 0 not(TMP\_96) = 1 TMP\_97 = 0 not(TMP\_97) = 1 TMP\_98 = 1 not(TMP\_98) = 0 TMP\_99 = 1 not(TMP\_99) = 0 TMP\_100 = 1 not(TMP\_100) = 0 TMP\_101 = 2 TMP\_102 = 0 not(TMP\_102) = 1 TMP\_103 = 1 not(TMP\_103) = 0 TMP\_104 = 1 not(TMP\_104) = 0 TMP\_105 = 0 not(TMP\_105) = 1 TMP\_106 = 2 TMP\_107 = 0 not(TMP\_107) = 1 TMP\_108 = 0 not(TMP\_108) = 1 TMP\_109 = 0 TMP\_110 = 1 not(TMP\_110) = 0 TMP\_111 = 1 not(TMP\_111) = 0 TMP\_112 = 2 TMP\_113 = 0 not(TMP\_113) = 1 TMP\_114 = 0 not(TMP\_114) = 1 TMP\_115 = 1 not(TMP\_115) = 0 TMP\_116 = 1 not(TMP\_116) = 0 TMP\_117 = 1 not(TMP\_117) = 0 TMP\_118 = 2 TMP\_119 = 0 not(TMP\_119) = 1 TMP\_120 = 1 not(TMP\_120) = 0 TMP\_121 = 1 not(TMP\_121) = 0 TMP\_122 = 0 not(TMP\_122) = 1 TMP\_123 = 2 TMP\_124 = 0 not(TMP\_124) = 1 TMP\_125 = 0 not(TMP\_125) = 1 TMP\_126 = 0 TMP\_127 = 1 not(TMP\_127) = 0 TMP\_128 = 1 not(TMP\_128) = 0 TMP\_129 = 2 TMP\_130 = 0 not(TMP\_130) = 1 TMP\_131 = 0 not(TMP\_131) = 1 TMP\_132 = 1 not(TMP\_132) = 0 TMP\_133 = 1 not(TMP\_133) = 0 TMP\_134 = 1 not(TMP\_134) = 0 TMP\_135 = 2 TMP\_136 = 0 not(TMP\_136) = 1 TMP\_137 = 1 not(TMP\_137) = 0 TMP\_138 = 1 not(TMP\_138) = 0 TMP\_139 = 1 not(TMP\_139) = 0 TMP\_140 = 3 TMP\_141 = 0 not(TMP\_141) = 1 TMP\_142 = 0 not(TMP\_142) = 1 TMP\_143 = 0 TMP\_144 = 1 not(TMP\_144) = 0 TMP\_145 = 1 not(TMP\_145) = 0 TMP\_146 = 2 TMP\_147 = 0 not(TMP\_147) = 1 TMP\_148 = 0 not(TMP\_148) = 1 TMP\_149 = 1 not(TMP\_149) = 0 TMP\_150 = 1 not(TMP\_150) = 0 TMP\_151 = 1 not(TMP\_151) = 0 TMP\_152 = 2 TMP\_153 = 1 not(TMP\_153) = 0 TMP\_154 = 1 not(TMP\_154) = 0 TMP\_155 = 1 not(TMP\_155) = 0 TMP\_156 = 0 not(TMP\_156) = 1 TMP\_157 = 3 TMP\_158 = 0 not(TMP\_158) = 1 TMP\_159 = 0 not(TMP\_159) = 1 TMP\_160 = 0 TMP\_161 = 1 not(TMP\_161) = 0 TMP\_162 = 1 not(TMP\_162) = 0 TMP\_163 = 2 TMP\_164 = 0 not(TMP\_164) = 1 TMP\_165 = 0 not(TMP\_165) = 1 TMP\_166 = 1 not(TMP\_166) = 0 TMP\_167 = 1 not(TMP\_167) = 0 TMP\_168 = 1 not(TMP\_168) = 0 TMP\_169 = 2 TMP\_170 = 1 not(TMP\_170) = 0 TMP\_171 = 1 not(TMP\_171) = 0 TMP\_172 = 0 not(TMP\_172) = 1 TMP\_173 = 1 not(TMP\_173) = 0 TMP\_174 = 3 TMP\_175 = 0 not(TMP\_175) = 1 TMP\_176 = 0 not(TMP\_176) = 1 TMP\_177 = 0 TMP\_178 = 1 not(TMP\_178) = 0 TMP\_179 = 1 not(TMP\_179) = 0 TMP\_180 = 2 TMP\_181 = 0 not(TMP\_181) = 1 TMP\_182 = 0 not(TMP\_182) = 1 TMP\_183 = 1 not(TMP\_183) = 0 TMP\_184 = 1 not(TMP\_184) = 0 TMP\_185 = 1 not(TMP\_185) = 0 TMP\_186 = 2 TMP\_187 = 1 not(TMP\_187) = 0 TMP\_188 = 1 not(TMP\_188) = 0 TMP\_189 = 1 not(TMP\_189) = 0 TMP\_190 = 0 not(TMP\_190) = 1 TMP\_191 = 3 TMP\_192 = 0 not(TMP\_192) = 1 TMP\_193 = 0 not(TMP\_193) = 1 TMP\_194 = 0 TMP\_195 = 1 not(TMP\_195) = 0 TMP\_196 = 1 not(TMP\_196) = 0 TMP\_197 = 2 TMP\_198 = 0 not(TMP\_198) = 1 TMP\_199 = 0 not(TMP\_199) = 1 TMP\_200 = 1 not(TMP\_200) = 0 TMP\_201 = 1 not(TMP\_201) = 0 TMP\_202 = 1 not(TMP\_202) = 0 TMP\_203 = 2 TMP\_204 = 1 not(TMP\_204) = 0 TMP\_205 = 1 not(TMP\_205) = 0 TMP\_206 = 1 not(TMP\_206) = 0 TMP\_207 = 0 not(TMP\_207) = 1 TMP\_208 = 3 TMP\_209 = 0 not(TMP\_209) = 1 TMP\_210 = 0 not(TMP\_210) = 1 TMP\_211 = 0 TMP\_212 = 1 not(TMP\_212) = 0 TMP\_213 = 1 not(TMP\_213) = 0 TMP\_214 = 2 TMP\_215 = 0 not(TMP\_215) = 1 TMP\_216 = 0 not(TMP\_216) = 1 TMP\_217 = 1 not(TMP\_217) = 0 TMP\_218 = 1 not(TMP\_218) = 0 TMP\_219 = 1 not(TMP\_219) = 0 TMP\_220 = 2 TMP\_221 = 1 not(TMP\_221) = 0 TMP\_222 = 0 not(TMP\_222) = 1 TMP\_223 = 1 not(TMP\_223) = 0 TMP\_224 = 1 not(TMP\_224) = 0 TMP\_225 = 3 TMP\_226 = 0 not(TMP\_226) = 1 TMP\_227 = 0 not(TMP\_227) = 1 TMP\_228 = 0 TMP\_229 = 1 not(TMP\_229) = 0 TMP\_230 = 1 not(TMP\_230) = 0 TMP\_231 = 2 TMP\_232 = 0 not(TMP\_232) = 1 TMP\_233 = 0 not(TMP\_233) = 1 TMP\_234 = 1 not(TMP\_234) = 0 TMP\_235 = 1 not(TMP\_235) = 0 TMP\_236 = 1 not(TMP\_236) = 0 TMP\_237 = 2 TMP\_238 = 1 not(TMP\_238) = 0 TMP\_239 = 1 not(TMP\_239) = 0 TMP\_240 = 1 not(TMP\_240) = 0 TMP\_241 = 0 not(TMP\_241) = 1 TMP\_242 = 3 TMP\_243 = 0 not(TMP\_243) = 1 TMP\_244 = 0 not(TMP\_244) = 1 TMP\_245 = 0 TMP\_246 = 1 not(TMP\_246) = 0 TMP\_247 = 1 not(TMP\_247) = 0 TMP\_248 = 2 TMP\_249 = 0 not(TMP\_249) = 1 TMP\_250 = 0 not(TMP\_250) = 1 TMP\_251 = 1 not(TMP\_251) = 0 TMP\_252 = 1 not(TMP\_252) = 0 TMP\_253 = 1 not(TMP\_253) = 0 TMP\_254 = 2 TMP\_255 = 1 not(TMP\_255) = 0 TMP\_256 = 1 not(TMP\_256) = 0 TMP\_257 = 0 not(TMP\_257) = 1 TMP\_258 = 1 not(TMP\_258) = 0 TMP\_259 = 3 TMP\_260 = 0 not(TMP\_260) = 1 TMP\_261 = 0 not(TMP\_261) = 1 TMP\_262 = 0 TMP\_263 = 1 not(TMP\_263) = 0 TMP\_264 = 1 not(TMP\_264) = 0 TMP\_265 = 2 TMP\_266 = 0 not(TMP\_266) = 1 TMP\_267 = 0 not(TMP\_267) = 1 TMP\_268 = 1 not(TMP\_268) = 0 TMP\_269 = 1 not(TMP\_269) = 0 TMP\_270 = 1 not(TMP\_270) = 0 TMP\_271 = 2 TMP\_272 = 0 not(TMP\_272) = 1 TMP\_273 = 1 not(TMP\_273) = 0 TMP\_274 = 1 not(TMP\_274) = 0 TMP\_275 = 1 not(TMP\_275) = 0 TMP\_276 = 3 TMP\_277 = 0 not(TMP\_277) = 1 TMP\_278 = 0 not(TMP\_278) = 1 TMP\_279 = 0 TMP\_280 = 1 not(TMP\_280) = 0 TMP\_281 = 1 not(TMP\_281) = 0 TMP\_282 = 2 TMP\_283 = 0 not(TMP\_283) = 1 TMP\_284 = 0 not(TMP\_284) = 1 TMP\_285 = 1 not(TMP\_285) = 0 TMP\_286 = 1 not(TMP\_286) = 0 TMP\_287 = 1 not(TMP\_287) = 0 TMP\_288 = 2 TMP\_289 = 0 not(TMP\_289) = 1 TMP\_290 = 1 not(TMP\_290) = 0 TMP\_291 = 1 not(TMP\_291) = 0 TMP\_292 = 1 not(TMP\_292) = 0 TMP\_293 = 3 TMP\_294 = 0 not(TMP\_294) = 1 TMP\_295 = 0 not(TMP\_295) = 1 TMP\_296 = 0 TMP\_297 = 1 not(TMP\_297) = 0 TMP\_298 = 1 not(TMP\_298) = 0 TMP\_299 = 2 TMP\_300 = 0 not(TMP\_300) = 1 TMP\_301 = 0 not(TMP\_301) = 1 TMP\_302 = 1 not(TMP\_302) = 0 TMP\_303 = 1 not(TMP\_303) = 0 TMP\_304 = 1 not(TMP\_304) = 0 TMP\_305 = 2 TMP\_306 = 1 not(TMP\_306) = 0 TMP\_307 = 1 not(TMP\_307) = 0 TMP\_308 = 0 not(TMP\_308) = 1 TMP\_309 = 1 not(TMP\_309) = 0 TMP\_310 = 3 TMP\_311 = 0 not(TMP\_311) = 1 TMP\_312 = 0 not(TMP\_312) = 1 TMP\_313 = 0 TMP\_314 = 1 not(TMP\_314) = 0 TMP\_315 = 1 not(TMP\_315) = 0 TMP\_316 = 2 TMP\_317 = 0 not(TMP\_317) = 1 TMP\_318 = 0 not(TMP\_318) = 1 TMP\_319 = 1 not(TMP\_319) = 0 TMP\_320 = 1 not(TMP\_320) = 0 TMP\_321 = 1 not(TMP\_321) = 0 TMP\_322 = 2 TMP\_323 = 1 not(TMP\_323) = 0 TMP\_324 = 1 not(TMP\_324) = 0 TMP\_325 = 0 not(TMP\_325) = 1 TMP\_326 = 1 not(TMP\_326) = 0 TMP\_327 = 3 TMP\_328 = 0 not(TMP\_328) = 1 TMP\_329 = 0 not(TMP\_329) = 1 TMP\_330 = 0 TMP\_331 = 1 not(TMP\_331) = 0 TMP\_332 = 1 not(TMP\_332) = 0 TMP\_333 = 2 TMP\_334 = 0 not(TMP\_334) = 1 TMP\_335 = 0 not(TMP\_335) = 1 TMP\_336 = 1 not(TMP\_336) = 0 TMP\_337 = 1 not(TMP\_337) = 0 TMP\_338 = 1 not(TMP\_338) = 0 TMP\_339 = 2 Area\_0 = 10000 Distance\_0\_Rule\_0 = 100 Distance\_1\_Rule\_0 = 100 Area\_1 = 5000 Distance\_0\_Rule\_1 = 50 Distance\_1\_Rule\_1 = 100 Area\_2 = 2500 -(Rule\_2\_LB) = 0 Distance\_0\_Rule\_2 = 25 -(Rule\_2\_LB) = -400 Distance\_1\_Rule\_2 = 100 Area\_3 = 60000 -(Rule\_3\_LB) = -100 Distance\_0\_Rule\_3 = 150 -(Rule\_3\_LB) = 0 Distance\_1\_Rule\_3 = 400 Area\_4 = 30000 -(Rule\_4\_LB) = 0 Distance\_0\_Rule\_4 = 100 -(Rule\_4\_LB) = -100 Distance\_1\_Rule\_4 = 300 Area\_5 = 17500 -(Rule\_5\_LB) = -75 Distance\_0\_Rule\_5 = 175 -(Rule\_5\_LB) = -400 Distance\_1\_Rule\_5 = 100 TMP\_340 = 125000 .

- Solution #6 found. 6 Solutions, Resolution 99.828s, 1043509 Nodes (10,453.1 n/s), 2086789 Backtracks, 1043483 Fails, 0 Restarts

Rule\_2\_LB = 0 Rule\_2\_UB = 25 Rule\_2\_LB = 400 Rule\_2\_UB = 500 Rule\_3\_LB = 100 Rule\_3\_UB = 250 Rule\_3\_LB = 0 Rule\_3\_UB = 400 Rule\_4\_LB = 0 Rule\_4\_UB = 100 Rule\_4\_LB = 100 Rule\_4\_UB = 400 Rule\_5\_LB = 75 Rule\_5\_UB = 250 Rule\_5\_LB = 400 Rule\_5\_UB = 500 Overlaps\_0\_0 = 0 Overlaps\_0\_1 = 1 Overlaps\_0\_2 = 0 Overlaps\_0\_3 = 0 Overlaps\_0\_4 = 0 Overlaps\_0\_5 = 0 Overlaps\_1\_0 = 0 Overlaps\_1\_1 = 0 Overlaps\_1\_2 = 0 Overlaps\_1\_3 = 0 Overlaps\_1\_4 = 0 Overlaps\_1\_5 = 0 Overlaps\_2\_0 = 0 Overlaps\_2\_1 = 0 Overlaps\_2\_2 = 0 Overlaps\_2\_3 = 0 Overlaps\_2\_4 = 0 Overlaps\_2\_5 = 0 Overlaps\_3\_0 = 0 Overlaps\_3\_1 = 0 Overlaps\_3\_2 = 0 Overlaps\_3\_3 = 0 Overlaps\_3\_4 = 0 Overlaps\_3\_5 = 0 Overlaps\_4\_0 = 0 Overlaps\_4\_1 = 0 Overlaps\_4\_2 = 0 Overlaps\_4\_3 = 0 Overlaps\_4\_4 = 0 Overlaps\_4\_5 = 0 Overlaps\_5\_0 = 0 Overlaps\_5\_1 = 0 Overlaps\_5\_2 = 0 Overlaps\_5\_3 = 0 Overlaps\_5\_4 = 0 Overlaps\_5\_5 = 0 TMP\_0 = 1 not(TMP\_0) = 0 TMP\_1 = 1 not(TMP\_1) = 0 TMP\_2 = 0 not(TMP\_2) = 1 TMP\_3 = 1 not(TMP\_3) = 0 TMP\_4 = 3 TMP\_5 = 0 not(TMP\_5) = 1 TMP\_6 = 0 not(TMP\_6) = 1 TMP\_7 = 0 TMP\_8 = 1 not(TMP\_8) = 0 TMP\_9 = 1 not(TMP\_9) = 0 TMP\_10 = 2 TMP\_11 = 0 not(TMP\_11) = 1 TMP\_12 = 0 not(TMP\_12) = 1 TMP\_13 = 1 not(TMP\_13) = 0 TMP\_14 = 1 not(TMP\_14) = 0 TMP\_15 = 1 not(TMP\_15) = 0 TMP\_16 = 2 TMP\_17 = 1 not(TMP\_17) = 0 TMP\_18 = 0 not(TMP\_18) = 1 TMP\_19 = 1 not(TMP\_19) = 0 TMP\_20 = 1 not(TMP\_20) = 0 TMP\_21 = 3 TMP\_22 = 0 not(TMP\_22) = 1 TMP\_23 = 0 not(TMP\_23) = 1 TMP\_24 = 0 TMP\_25 = 1 not(TMP\_25) = 0 TMP\_26 = 1 not(TMP\_26) = 0 TMP\_27 = 2 TMP\_28 = 0 not(TMP\_28) = 1 TMP\_29 = 0 not(TMP\_29) = 1 TMP\_30 = 1 not(TMP\_30) = 0 TMP\_31 = 1 not(TMP\_31) = 0 TMP\_32 = 1 not(TMP\_32) = 0 TMP\_33 = 2 TMP\_34 = 1 not(TMP\_34) = 0 TMP\_35 = 0 not(TMP\_35) = 1 TMP\_36 = 0 not(TMP\_36) = 1 TMP\_37 = 1 not(TMP\_37) = 0 TMP\_38 = 2 TMP\_39 = 0 not(TMP\_39) = 1 TMP\_40 = 0 not(TMP\_40) = 1 TMP\_41 = 0 TMP\_42 = 1 not(TMP\_42) = 0 TMP\_43 = 1 not(TMP\_43) = 0 TMP\_44 = 2 TMP\_45 = 0 not(TMP\_45) = 1 TMP\_46 = 0 not(TMP\_46) = 1 TMP\_47 = 1 not(TMP\_47) = 0 TMP\_48 = 1 not(TMP\_48) = 0 TMP\_49 = 1 not(TMP\_49) = 0 TMP\_50 = 2 TMP\_51 = 1 not(TMP\_51) = 0 TMP\_52 = 1 not(TMP\_52) = 0 TMP\_53 = 0 not(TMP\_53) = 1 TMP\_54 = 1 not(TMP\_54) = 0 TMP\_55 = 3 TMP\_56 = 0 not(TMP\_56) = 1 TMP\_57 = 0 not(TMP\_57) = 1 TMP\_58 = 0 TMP\_59 = 1 not(TMP\_59) = 0 TMP\_60 = 1 not(TMP\_60) = 0 TMP\_61 = 2 TMP\_62 = 0 not(TMP\_62) = 1 TMP\_63 = 0 not(TMP\_63) = 1 TMP\_64 = 1 not(TMP\_64) = 0 TMP\_65 = 1 not(TMP\_65) = 0 TMP\_66 = 1 not(TMP\_66) = 0 TMP\_67 = 2 TMP\_68 = 1 not(TMP\_68) = 0 TMP\_69 = 0 not(TMP\_69) = 1 TMP\_70 = 1 not(TMP\_70) = 0 TMP\_71 = 1 not(TMP\_71) = 0 TMP\_72 = 3 TMP\_73 = 0 not(TMP\_73) = 1 TMP\_74 = 0 not(TMP\_74) = 1 TMP\_75 = 0 TMP\_76 = 1 not(TMP\_76) = 0 TMP\_77 = 1 not(TMP\_77) = 0 TMP\_78 = 2 TMP\_79 = 0 not(TMP\_79) = 1 TMP\_80 = 0 not(TMP\_80) = 1 TMP\_81 = 1 not(TMP\_81) = 0 TMP\_82 = 1 not(TMP\_82) = 0 TMP\_83 = 1 not(TMP\_83) = 0 TMP\_84 = 2 TMP\_85 = 0 not(TMP\_85) = 1 TMP\_86 = 1 not(TMP\_86) = 0 TMP\_87 = 1 not(TMP\_87) = 0 TMP\_88 = 1 not(TMP\_88) = 0 TMP\_89 = 3 TMP\_90 = 0 not(TMP\_90) = 1 TMP\_91 = 0 not(TMP\_91) = 1 TMP\_92 = 0 TMP\_93 = 1 not(TMP\_93) = 0 TMP\_94 = 1 not(TMP\_94) = 0 TMP\_95 = 2 TMP\_96 = 0 not(TMP\_96) = 1 TMP\_97 = 0 not(TMP\_97) = 1 TMP\_98 = 1 not(TMP\_98) = 0 TMP\_99 = 1 not(TMP\_99) = 0 TMP\_100 = 1 not(TMP\_100) = 0 TMP\_101 = 2 TMP\_102 = 0 not(TMP\_102) = 1 TMP\_103 = 1 not(TMP\_103) = 0 TMP\_104 = 1 not(TMP\_104) = 0 TMP\_105 = 0 not(TMP\_105) = 1 TMP\_106 = 2 TMP\_107 = 0 not(TMP\_107) = 1 TMP\_108 = 0 not(TMP\_108) = 1 TMP\_109 = 0 TMP\_110 = 1 not(TMP\_110) = 0 TMP\_111 = 1 not(TMP\_111) = 0 TMP\_112 = 2 TMP\_113 = 0 not(TMP\_113) = 1 TMP\_114 = 0 not(TMP\_114) = 1 TMP\_115 = 1 not(TMP\_115) = 0 TMP\_116 = 1 not(TMP\_116) = 0 TMP\_117 = 1 not(TMP\_117) = 0 TMP\_118 = 2 TMP\_119 = 0 not(TMP\_119) = 1 TMP\_120 = 1 not(TMP\_120) = 0 TMP\_121 = 1 not(TMP\_121) = 0 TMP\_122 = 0 not(TMP\_122) = 1 TMP\_123 = 2 TMP\_124 = 0 not(TMP\_124) = 1 TMP\_125 = 0 not(TMP\_125) = 1 TMP\_126 = 0 TMP\_127 = 1 not(TMP\_127) = 0 TMP\_128 = 1 not(TMP\_128) = 0 TMP\_129 = 2 TMP\_130 = 0 not(TMP\_130) = 1 TMP\_131 = 0 not(TMP\_131) = 1 TMP\_132 = 1 not(TMP\_132) = 0 TMP\_133 = 1 not(TMP\_133) = 0 TMP\_134 = 1 not(TMP\_134) = 0 TMP\_135 = 2 TMP\_136 = 0 not(TMP\_136) = 1 TMP\_137 = 1 not(TMP\_137) = 0 TMP\_138 = 1 not(TMP\_138) = 0 TMP\_139 = 1 not(TMP\_139) = 0 TMP\_140 = 3 TMP\_141 = 0 not(TMP\_141) = 1 TMP\_142 = 0 not(TMP\_142) = 1 TMP\_143 = 0 TMP\_144 = 1 not(TMP\_144) = 0 TMP\_145 = 1 not(TMP\_145) = 0 TMP\_146 = 2 TMP\_147 = 0 not(TMP\_147) = 1 TMP\_148 = 0 not(TMP\_148) = 1 TMP\_149 = 1 not(TMP\_149) = 0 TMP\_150 = 1 not(TMP\_150) = 0 TMP\_151 = 1 not(TMP\_151) = 0 TMP\_152 = 2 TMP\_153 = 1 not(TMP\_153) = 0 TMP\_154 = 1 not(TMP\_154) = 0 TMP\_155 = 1 not(TMP\_155) = 0 TMP\_156 = 0 not(TMP\_156) = 1 TMP\_157 = 3 TMP\_158 = 0 not(TMP\_158) = 1 TMP\_159 = 0 not(TMP\_159) = 1 TMP\_160 = 0 TMP\_161 = 1 not(TMP\_161) = 0 TMP\_162 = 1 not(TMP\_162) = 0 TMP\_163 = 2 TMP\_164 = 0 not(TMP\_164) = 1 TMP\_165 = 0 not(TMP\_165) = 1 TMP\_166 = 1 not(TMP\_166) = 0 TMP\_167 = 1 not(TMP\_167) = 0 TMP\_168 = 1 not(TMP\_168) = 0 TMP\_169 = 2 TMP\_170 = 1 not(TMP\_170) = 0 TMP\_171 = 1 not(TMP\_171) = 0 TMP\_172 = 0 not(TMP\_172) = 1 TMP\_173 = 1 not(TMP\_173) = 0 TMP\_174 = 3 TMP\_175 = 0 not(TMP\_175) = 1 TMP\_176 = 0 not(TMP\_176) = 1 TMP\_177 = 0 TMP\_178 = 1 not(TMP\_178) = 0 TMP\_179 = 1 not(TMP\_179) = 0 TMP\_180 = 2 TMP\_181 = 0 not(TMP\_181) = 1 TMP\_182 = 0 not(TMP\_182) = 1 TMP\_183 = 1 not(TMP\_183) = 0 TMP\_184 = 1 not(TMP\_184) = 0 TMP\_185 = 1 not(TMP\_185) = 0 TMP\_186 = 2 TMP\_187 = 1 not(TMP\_187) = 0 TMP\_188 = 1 not(TMP\_188) = 0 TMP\_189 = 1 not(TMP\_189) = 0 TMP\_190 = 0 not(TMP\_190) = 1 TMP\_191 = 3 TMP\_192 = 0 not(TMP\_192) = 1 TMP\_193 = 0 not(TMP\_193) = 1 TMP\_194 = 0 TMP\_195 = 1 not(TMP\_195) = 0 TMP\_196 = 1 not(TMP\_196) = 0 TMP\_197 = 2 TMP\_198 = 0 not(TMP\_198) = 1 TMP\_199 = 0 not(TMP\_199) = 1 TMP\_200 = 1 not(TMP\_200) = 0 TMP\_201 = 1 not(TMP\_201) = 0 TMP\_202 = 1 not(TMP\_202) = 0 TMP\_203 = 2 TMP\_204 = 1 not(TMP\_204) = 0 TMP\_205 = 1 not(TMP\_205) = 0 TMP\_206 = 1 not(TMP\_206) = 0 TMP\_207 = 0 not(TMP\_207) = 1 TMP\_208 = 3 TMP\_209 = 0 not(TMP\_209) = 1 TMP\_210 = 0 not(TMP\_210) = 1 TMP\_211 = 0 TMP\_212 = 1 not(TMP\_212) = 0 TMP\_213 = 1 not(TMP\_213) = 0 TMP\_214 = 2 TMP\_215 = 0 not(TMP\_215) = 1 TMP\_216 = 0 not(TMP\_216) = 1 TMP\_217 = 1 not(TMP\_217) = 0 TMP\_218 = 1 not(TMP\_218) = 0 TMP\_219 = 1 not(TMP\_219) = 0 TMP\_220 = 2 TMP\_221 = 1 not(TMP\_221) = 0 TMP\_222 = 0 not(TMP\_222) = 1 TMP\_223 = 1 not(TMP\_223) = 0 TMP\_224 = 1 not(TMP\_224) = 0 TMP\_225 = 3 TMP\_226 = 0 not(TMP\_226) = 1 TMP\_227 = 0 not(TMP\_227) = 1 TMP\_228 = 0 TMP\_229 = 1 not(TMP\_229) = 0 TMP\_230 = 1 not(TMP\_230) = 0 TMP\_231 = 2 TMP\_232 = 0 not(TMP\_232) = 1 TMP\_233 = 0 not(TMP\_233) = 1 TMP\_234 = 1 not(TMP\_234) = 0 TMP\_235 = 1 not(TMP\_235) = 0 TMP\_236 = 1 not(TMP\_236) = 0 TMP\_237 = 2 TMP\_238 = 1 not(TMP\_238) = 0 TMP\_239 = 1 not(TMP\_239) = 0 TMP\_240 = 1 not(TMP\_240) = 0 TMP\_241 = 0 not(TMP\_241) = 1 TMP\_242 = 3 TMP\_243 = 0 not(TMP\_243) = 1 TMP\_244 = 0 not(TMP\_244) = 1 TMP\_245 = 0 TMP\_246 = 1 not(TMP\_246) = 0 TMP\_247 = 1 not(TMP\_247) = 0 TMP\_248 = 2 TMP\_249 = 0 not(TMP\_249) = 1 TMP\_250 = 0 not(TMP\_250) = 1 TMP\_251 = 1 not(TMP\_251) = 0 TMP\_252 = 1 not(TMP\_252) = 0 TMP\_253 = 1 not(TMP\_253) = 0 TMP\_254 = 2 TMP\_255 = 1 not(TMP\_255) = 0 TMP\_256 = 1 not(TMP\_256) = 0 TMP\_257 = 0 not(TMP\_257) = 1 TMP\_258 = 1 not(TMP\_258) = 0 TMP\_259 = 3 TMP\_260 = 0 not(TMP\_260) = 1 TMP\_261 = 0 not(TMP\_261) = 1 TMP\_262 = 0 TMP\_263 = 1 not(TMP\_263) = 0 TMP\_264 = 1 not(TMP\_264) = 0 TMP\_265 = 2 TMP\_266 = 0 not(TMP\_266) = 1 TMP\_267 = 0 not(TMP\_267) = 1 TMP\_268 = 1 not(TMP\_268) = 0 TMP\_269 = 1 not(TMP\_269) = 0 TMP\_270 = 1 not(TMP\_270) = 0 TMP\_271 = 2 TMP\_272 = 0 not(TMP\_272) = 1 TMP\_273 = 1 not(TMP\_273) = 0 TMP\_274 = 1 not(TMP\_274) = 0 TMP\_275 = 1 not(TMP\_275) = 0 TMP\_276 = 3 TMP\_277 = 0 not(TMP\_277) = 1 TMP\_278 = 0 not(TMP\_278) = 1 TMP\_279 = 0 TMP\_280 = 1 not(TMP\_280) = 0 TMP\_281 = 1 not(TMP\_281) = 0 TMP\_282 = 2 TMP\_283 = 0 not(TMP\_283) = 1 TMP\_284 = 0 not(TMP\_284) = 1 TMP\_285 = 1 not(TMP\_285) = 0 TMP\_286 = 1 not(TMP\_286) = 0 TMP\_287 = 1 not(TMP\_287) = 0 TMP\_288 = 2 TMP\_289 = 0 not(TMP\_289) = 1 TMP\_290 = 1 not(TMP\_290) = 0 TMP\_291 = 1 not(TMP\_291) = 0 TMP\_292 = 1 not(TMP\_292) = 0 TMP\_293 = 3 TMP\_294 = 0 not(TMP\_294) = 1 TMP\_295 = 0 not(TMP\_295) = 1 TMP\_296 = 0 TMP\_297 = 1 not(TMP\_297) = 0 TMP\_298 = 1 not(TMP\_298) = 0 TMP\_299 = 2 TMP\_300 = 0 not(TMP\_300) = 1 TMP\_301 = 0 not(TMP\_301) = 1 TMP\_302 = 1 not(TMP\_302) = 0 TMP\_303 = 1 not(TMP\_303) = 0 TMP\_304 = 1 not(TMP\_304) = 0 TMP\_305 = 2 TMP\_306 = 1 not(TMP\_306) = 0 TMP\_307 = 1 not(TMP\_307) = 0 TMP\_308 = 0 not(TMP\_308) = 1 TMP\_309 = 1 not(TMP\_309) = 0 TMP\_310 = 3 TMP\_311 = 0 not(TMP\_311) = 1 TMP\_312 = 0 not(TMP\_312) = 1 TMP\_313 = 0 TMP\_314 = 1 not(TMP\_314) = 0 TMP\_315 = 1 not(TMP\_315) = 0 TMP\_316 = 2 TMP\_317 = 0 not(TMP\_317) = 1 TMP\_318 = 0 not(TMP\_318) = 1 TMP\_319 = 1 not(TMP\_319) = 0 TMP\_320 = 1 not(TMP\_320) = 0 TMP\_321 = 1 not(TMP\_321) = 0 TMP\_322 = 2 TMP\_323 = 1 not(TMP\_323) = 0 TMP\_324 = 1 not(TMP\_324) = 0 TMP\_325 = 0 not(TMP\_325) = 1 TMP\_326 = 1 not(TMP\_326) = 0 TMP\_327 = 3 TMP\_328 = 0 not(TMP\_328) = 1 TMP\_329 = 0 not(TMP\_329) = 1 TMP\_330 = 0 TMP\_331 = 1 not(TMP\_331) = 0 TMP\_332 = 1 not(TMP\_332) = 0 TMP\_333 = 2 TMP\_334 = 0 not(TMP\_334) = 1 TMP\_335 = 0 not(TMP\_335) = 1 TMP\_336 = 1 not(TMP\_336) = 0 TMP\_337 = 1 not(TMP\_337) = 0 TMP\_338 = 1 not(TMP\_338) = 0 TMP\_339 = 2 Area\_0 = 10000 Distance\_0\_Rule\_0 = 100 Distance\_1\_Rule\_0 = 100 Area\_1 = 5000 Distance\_0\_Rule\_1 = 50 Distance\_1\_Rule\_1 = 100 Area\_2 = 2500 -(Rule\_2\_LB) = 0 Distance\_0\_Rule\_2 = 25 -(Rule\_2\_LB) = -400 Distance\_1\_Rule\_2 = 100 Area\_3 = 60000 -(Rule\_3\_LB) = -100 Distance\_0\_Rule\_3 = 150 -(Rule\_3\_LB) = 0 Distance\_1\_Rule\_3 = 400 Area\_4 = 30000 -(Rule\_4\_LB) = 0 Distance\_0\_Rule\_4 = 100 -(Rule\_4\_LB) = -100 Distance\_1\_Rule\_4 = 300 Area\_5 = 17500 -(Rule\_5\_LB) = -75 Distance\_0\_Rule\_5 = 175 -(Rule\_5\_LB) = -400 Distance\_1\_Rule\_5 = 100 TMP\_340 = 125000 .

- Solution #7 found. 7 Solutions, Resolution 99.833s, 1043511 Nodes (10,452.5 n/s), 2086791 Backtracks, 1043483 Fails, 0 Restarts

Rule\_2\_LB = 0 Rule\_2\_UB = 25 Rule\_2\_LB = 400 Rule\_2\_UB = 500 Rule\_3\_LB = 100 Rule\_3\_UB = 250 Rule\_3\_LB = 0 Rule\_3\_UB = 400 Rule\_4\_LB = 0 Rule\_4\_UB = 100 Rule\_4\_LB = 100 Rule\_4\_UB = 400 Rule\_5\_LB = 75 Rule\_5\_UB = 250 Rule\_5\_LB = 400 Rule\_5\_UB = 500 Overlaps\_0\_0 = 0 Overlaps\_0\_1 = 0 Overlaps\_0\_2 = 0 Overlaps\_0\_3 = 0 Overlaps\_0\_4 = 0 Overlaps\_0\_5 = 0 Overlaps\_1\_0 = 1 Overlaps\_1\_1 = 0 Overlaps\_1\_2 = 0 Overlaps\_1\_3 = 0 Overlaps\_1\_4 = 0 Overlaps\_1\_5 = 0 Overlaps\_2\_0 = 0 Overlaps\_2\_1 = 0 Overlaps\_2\_2 = 0 Overlaps\_2\_3 = 0 Overlaps\_2\_4 = 0 Overlaps\_2\_5 = 0 Overlaps\_3\_0 = 0 Overlaps\_3\_1 = 0 Overlaps\_3\_2 = 0 Overlaps\_3\_3 = 0 Overlaps\_3\_4 = 0 Overlaps\_3\_5 = 0 Overlaps\_4\_0 = 0 Overlaps\_4\_1 = 0 Overlaps\_4\_2 = 0 Overlaps\_4\_3 = 0 Overlaps\_4\_4 = 0 Overlaps\_4\_5 = 0 Overlaps\_5\_0 = 0 Overlaps\_5\_1 = 0 Overlaps\_5\_2 = 0 Overlaps\_5\_3 = 0 Overlaps\_5\_4 = 0 Overlaps\_5\_5 = 0 TMP\_0 = 1 not(TMP\_0) = 0 TMP\_1 = 1 not(TMP\_1) = 0 TMP\_2 = 0 not(TMP\_2) = 1 TMP\_3 = 1 not(TMP\_3) = 0 TMP\_4 = 3 TMP\_5 = 0 not(TMP\_5) = 1 TMP\_6 = 0 not(TMP\_6) = 1 TMP\_7 = 0 TMP\_8 = 1 not(TMP\_8) = 0 TMP\_9 = 1 not(TMP\_9) = 0 TMP\_10 = 2 TMP\_11 = 0 not(TMP\_11) = 1 TMP\_12 = 0 not(TMP\_12) = 1 TMP\_13 = 1 not(TMP\_13) = 0 TMP\_14 = 1 not(TMP\_14) = 0 TMP\_15 = 1 not(TMP\_15) = 0 TMP\_16 = 2 TMP\_17 = 1 not(TMP\_17) = 0 TMP\_18 = 0 not(TMP\_18) = 1 TMP\_19 = 1 not(TMP\_19) = 0 TMP\_20 = 1 not(TMP\_20) = 0 TMP\_21 = 3 TMP\_22 = 0 not(TMP\_22) = 1 TMP\_23 = 0 not(TMP\_23) = 1 TMP\_24 = 0 TMP\_25 = 1 not(TMP\_25) = 0 TMP\_26 = 1 not(TMP\_26) = 0 TMP\_27 = 2 TMP\_28 = 0 not(TMP\_28) = 1 TMP\_29 = 0 not(TMP\_29) = 1 TMP\_30 = 1 not(TMP\_30) = 0 TMP\_31 = 1 not(TMP\_31) = 0 TMP\_32 = 1 not(TMP\_32) = 0 TMP\_33 = 2 TMP\_34 = 1 not(TMP\_34) = 0 TMP\_35 = 0 not(TMP\_35) = 1 TMP\_36 = 0 not(TMP\_36) = 1 TMP\_37 = 1 not(TMP\_37) = 0 TMP\_38 = 2 TMP\_39 = 0 not(TMP\_39) = 1 TMP\_40 = 0 not(TMP\_40) = 1 TMP\_41 = 0 TMP\_42 = 1 not(TMP\_42) = 0 TMP\_43 = 1 not(TMP\_43) = 0 TMP\_44 = 2 TMP\_45 = 0 not(TMP\_45) = 1 TMP\_46 = 0 not(TMP\_46) = 1 TMP\_47 = 1 not(TMP\_47) = 0 TMP\_48 = 1 not(TMP\_48) = 0 TMP\_49 = 1 not(TMP\_49) = 0 TMP\_50 = 2 TMP\_51 = 1 not(TMP\_51) = 0 TMP\_52 = 1 not(TMP\_52) = 0 TMP\_53 = 0 not(TMP\_53) = 1 TMP\_54 = 1 not(TMP\_54) = 0 TMP\_55 = 3 TMP\_56 = 0 not(TMP\_56) = 1 TMP\_57 = 0 not(TMP\_57) = 1 TMP\_58 = 0 TMP\_59 = 1 not(TMP\_59) = 0 TMP\_60 = 1 not(TMP\_60) = 0 TMP\_61 = 2 TMP\_62 = 0 not(TMP\_62) = 1 TMP\_63 = 0 not(TMP\_63) = 1 TMP\_64 = 1 not(TMP\_64) = 0 TMP\_65 = 1 not(TMP\_65) = 0 TMP\_66 = 1 not(TMP\_66) = 0 TMP\_67 = 2 TMP\_68 = 1 not(TMP\_68) = 0 TMP\_69 = 0 not(TMP\_69) = 1 TMP\_70 = 1 not(TMP\_70) = 0 TMP\_71 = 1 not(TMP\_71) = 0 TMP\_72 = 3 TMP\_73 = 0 not(TMP\_73) = 1 TMP\_74 = 0 not(TMP\_74) = 1 TMP\_75 = 0 TMP\_76 = 1 not(TMP\_76) = 0 TMP\_77 = 1 not(TMP\_77) = 0 TMP\_78 = 2 TMP\_79 = 0 not(TMP\_79) = 1 TMP\_80 = 0 not(TMP\_80) = 1 TMP\_81 = 1 not(TMP\_81) = 0 TMP\_82 = 1 not(TMP\_82) = 0 TMP\_83 = 1 not(TMP\_83) = 0 TMP\_84 = 2 TMP\_85 = 0 not(TMP\_85) = 1 TMP\_86 = 1 not(TMP\_86) = 0 TMP\_87 = 1 not(TMP\_87) = 0 TMP\_88 = 1 not(TMP\_88) = 0 TMP\_89 = 3 TMP\_90 = 0 not(TMP\_90) = 1 TMP\_91 = 0 not(TMP\_91) = 1 TMP\_92 = 0 TMP\_93 = 1 not(TMP\_93) = 0 TMP\_94 = 1 not(TMP\_94) = 0 TMP\_95 = 2 TMP\_96 = 0 not(TMP\_96) = 1 TMP\_97 = 0 not(TMP\_97) = 1 TMP\_98 = 1 not(TMP\_98) = 0 TMP\_99 = 1 not(TMP\_99) = 0 TMP\_100 = 1 not(TMP\_100) = 0 TMP\_101 = 2 TMP\_102 = 0 not(TMP\_102) = 1 TMP\_103 = 1 not(TMP\_103) = 0 TMP\_104 = 1 not(TMP\_104) = 0 TMP\_105 = 0 not(TMP\_105) = 1 TMP\_106 = 2 TMP\_107 = 0 not(TMP\_107) = 1 TMP\_108 = 0 not(TMP\_108) = 1 TMP\_109 = 0 TMP\_110 = 1 not(TMP\_110) = 0 TMP\_111 = 1 not(TMP\_111) = 0 TMP\_112 = 2 TMP\_113 = 0 not(TMP\_113) = 1 TMP\_114 = 0 not(TMP\_114) = 1 TMP\_115 = 1 not(TMP\_115) = 0 TMP\_116 = 1 not(TMP\_116) = 0 TMP\_117 = 1 not(TMP\_117) = 0 TMP\_118 = 2 TMP\_119 = 0 not(TMP\_119) = 1 TMP\_120 = 1 not(TMP\_120) = 0 TMP\_121 = 1 not(TMP\_121) = 0 TMP\_122 = 0 not(TMP\_122) = 1 TMP\_123 = 2 TMP\_124 = 0 not(TMP\_124) = 1 TMP\_125 = 0 not(TMP\_125) = 1 TMP\_126 = 0 TMP\_127 = 1 not(TMP\_127) = 0 TMP\_128 = 1 not(TMP\_128) = 0 TMP\_129 = 2 TMP\_130 = 0 not(TMP\_130) = 1 TMP\_131 = 0 not(TMP\_131) = 1 TMP\_132 = 1 not(TMP\_132) = 0 TMP\_133 = 1 not(TMP\_133) = 0 TMP\_134 = 1 not(TMP\_134) = 0 TMP\_135 = 2 TMP\_136 = 0 not(TMP\_136) = 1 TMP\_137 = 1 not(TMP\_137) = 0 TMP\_138 = 1 not(TMP\_138) = 0 TMP\_139 = 1 not(TMP\_139) = 0 TMP\_140 = 3 TMP\_141 = 0 not(TMP\_141) = 1 TMP\_142 = 0 not(TMP\_142) = 1 TMP\_143 = 0 TMP\_144 = 1 not(TMP\_144) = 0 TMP\_145 = 1 not(TMP\_145) = 0 TMP\_146 = 2 TMP\_147 = 0 not(TMP\_147) = 1 TMP\_148 = 0 not(TMP\_148) = 1 TMP\_149 = 1 not(TMP\_149) = 0 TMP\_150 = 1 not(TMP\_150) = 0 TMP\_151 = 1 not(TMP\_151) = 0 TMP\_152 = 2 TMP\_153 = 1 not(TMP\_153) = 0 TMP\_154 = 1 not(TMP\_154) = 0 TMP\_155 = 1 not(TMP\_155) = 0 TMP\_156 = 0 not(TMP\_156) = 1 TMP\_157 = 3 TMP\_158 = 0 not(TMP\_158) = 1 TMP\_159 = 0 not(TMP\_159) = 1 TMP\_160 = 0 TMP\_161 = 1 not(TMP\_161) = 0 TMP\_162 = 1 not(TMP\_162) = 0 TMP\_163 = 2 TMP\_164 = 0 not(TMP\_164) = 1 TMP\_165 = 0 not(TMP\_165) = 1 TMP\_166 = 1 not(TMP\_166) = 0 TMP\_167 = 1 not(TMP\_167) = 0 TMP\_168 = 1 not(TMP\_168) = 0 TMP\_169 = 2 TMP\_170 = 1 not(TMP\_170) = 0 TMP\_171 = 1 not(TMP\_171) = 0 TMP\_172 = 0 not(TMP\_172) = 1 TMP\_173 = 1 not(TMP\_173) = 0 TMP\_174 = 3 TMP\_175 = 0 not(TMP\_175) = 1 TMP\_176 = 0 not(TMP\_176) = 1 TMP\_177 = 0 TMP\_178 = 1 not(TMP\_178) = 0 TMP\_179 = 1 not(TMP\_179) = 0 TMP\_180 = 2 TMP\_181 = 0 not(TMP\_181) = 1 TMP\_182 = 0 not(TMP\_182) = 1 TMP\_183 = 1 not(TMP\_183) = 0 TMP\_184 = 1 not(TMP\_184) = 0 TMP\_185 = 1 not(TMP\_185) = 0 TMP\_186 = 2 TMP\_187 = 1 not(TMP\_187) = 0 TMP\_188 = 1 not(TMP\_188) = 0 TMP\_189 = 1 not(TMP\_189) = 0 TMP\_190 = 0 not(TMP\_190) = 1 TMP\_191 = 3 TMP\_192 = 0 not(TMP\_192) = 1 TMP\_193 = 0 not(TMP\_193) = 1 TMP\_194 = 0 TMP\_195 = 1 not(TMP\_195) = 0 TMP\_196 = 1 not(TMP\_196) = 0 TMP\_197 = 2 TMP\_198 = 0 not(TMP\_198) = 1 TMP\_199 = 0 not(TMP\_199) = 1 TMP\_200 = 1 not(TMP\_200) = 0 TMP\_201 = 1 not(TMP\_201) = 0 TMP\_202 = 1 not(TMP\_202) = 0 TMP\_203 = 2 TMP\_204 = 1 not(TMP\_204) = 0 TMP\_205 = 1 not(TMP\_205) = 0 TMP\_206 = 1 not(TMP\_206) = 0 TMP\_207 = 0 not(TMP\_207) = 1 TMP\_208 = 3 TMP\_209 = 0 not(TMP\_209) = 1 TMP\_210 = 0 not(TMP\_210) = 1 TMP\_211 = 0 TMP\_212 = 1 not(TMP\_212) = 0 TMP\_213 = 1 not(TMP\_213) = 0 TMP\_214 = 2 TMP\_215 = 0 not(TMP\_215) = 1 TMP\_216 = 0 not(TMP\_216) = 1 TMP\_217 = 1 not(TMP\_217) = 0 TMP\_218 = 1 not(TMP\_218) = 0 TMP\_219 = 1 not(TMP\_219) = 0 TMP\_220 = 2 TMP\_221 = 1 not(TMP\_221) = 0 TMP\_222 = 0 not(TMP\_222) = 1 TMP\_223 = 1 not(TMP\_223) = 0 TMP\_224 = 1 not(TMP\_224) = 0 TMP\_225 = 3 TMP\_226 = 0 not(TMP\_226) = 1 TMP\_227 = 0 not(TMP\_227) = 1 TMP\_228 = 0 TMP\_229 = 1 not(TMP\_229) = 0 TMP\_230 = 1 not(TMP\_230) = 0 TMP\_231 = 2 TMP\_232 = 0 not(TMP\_232) = 1 TMP\_233 = 0 not(TMP\_233) = 1 TMP\_234 = 1 not(TMP\_234) = 0 TMP\_235 = 1 not(TMP\_235) = 0 TMP\_236 = 1 not(TMP\_236) = 0 TMP\_237 = 2 TMP\_238 = 1 not(TMP\_238) = 0 TMP\_239 = 1 not(TMP\_239) = 0 TMP\_240 = 1 not(TMP\_240) = 0 TMP\_241 = 0 not(TMP\_241) = 1 TMP\_242 = 3 TMP\_243 = 0 not(TMP\_243) = 1 TMP\_244 = 0 not(TMP\_244) = 1 TMP\_245 = 0 TMP\_246 = 1 not(TMP\_246) = 0 TMP\_247 = 1 not(TMP\_247) = 0 TMP\_248 = 2 TMP\_249 = 0 not(TMP\_249) = 1 TMP\_250 = 0 not(TMP\_250) = 1 TMP\_251 = 1 not(TMP\_251) = 0 TMP\_252 = 1 not(TMP\_252) = 0 TMP\_253 = 1 not(TMP\_253) = 0 TMP\_254 = 2 TMP\_255 = 1 not(TMP\_255) = 0 TMP\_256 = 1 not(TMP\_256) = 0 TMP\_257 = 0 not(TMP\_257) = 1 TMP\_258 = 1 not(TMP\_258) = 0 TMP\_259 = 3 TMP\_260 = 0 not(TMP\_260) = 1 TMP\_261 = 0 not(TMP\_261) = 1 TMP\_262 = 0 TMP\_263 = 1 not(TMP\_263) = 0 TMP\_264 = 1 not(TMP\_264) = 0 TMP\_265 = 2 TMP\_266 = 0 not(TMP\_266) = 1 TMP\_267 = 0 not(TMP\_267) = 1 TMP\_268 = 1 not(TMP\_268) = 0 TMP\_269 = 1 not(TMP\_269) = 0 TMP\_270 = 1 not(TMP\_270) = 0 TMP\_271 = 2 TMP\_272 = 0 not(TMP\_272) = 1 TMP\_273 = 1 not(TMP\_273) = 0 TMP\_274 = 1 not(TMP\_274) = 0 TMP\_275 = 1 not(TMP\_275) = 0 TMP\_276 = 3 TMP\_277 = 0 not(TMP\_277) = 1 TMP\_278 = 0 not(TMP\_278) = 1 TMP\_279 = 0 TMP\_280 = 1 not(TMP\_280) = 0 TMP\_281 = 1 not(TMP\_281) = 0 TMP\_282 = 2 TMP\_283 = 0 not(TMP\_283) = 1 TMP\_284 = 0 not(TMP\_284) = 1 TMP\_285 = 1 not(TMP\_285) = 0 TMP\_286 = 1 not(TMP\_286) = 0 TMP\_287 = 1 not(TMP\_287) = 0 TMP\_288 = 2 TMP\_289 = 0 not(TMP\_289) = 1 TMP\_290 = 1 not(TMP\_290) = 0 TMP\_291 = 1 not(TMP\_291) = 0 TMP\_292 = 1 not(TMP\_292) = 0 TMP\_293 = 3 TMP\_294 = 0 not(TMP\_294) = 1 TMP\_295 = 0 not(TMP\_295) = 1 TMP\_296 = 0 TMP\_297 = 1 not(TMP\_297) = 0 TMP\_298 = 1 not(TMP\_298) = 0 TMP\_299 = 2 TMP\_300 = 0 not(TMP\_300) = 1 TMP\_301 = 0 not(TMP\_301) = 1 TMP\_302 = 1 not(TMP\_302) = 0 TMP\_303 = 1 not(TMP\_303) = 0 TMP\_304 = 1 not(TMP\_304) = 0 TMP\_305 = 2 TMP\_306 = 1 not(TMP\_306) = 0 TMP\_307 = 1 not(TMP\_307) = 0 TMP\_308 = 0 not(TMP\_308) = 1 TMP\_309 = 1 not(TMP\_309) = 0 TMP\_310 = 3 TMP\_311 = 0 not(TMP\_311) = 1 TMP\_312 = 0 not(TMP\_312) = 1 TMP\_313 = 0 TMP\_314 = 1 not(TMP\_314) = 0 TMP\_315 = 1 not(TMP\_315) = 0 TMP\_316 = 2 TMP\_317 = 0 not(TMP\_317) = 1 TMP\_318 = 0 not(TMP\_318) = 1 TMP\_319 = 1 not(TMP\_319) = 0 TMP\_320 = 1 not(TMP\_320) = 0 TMP\_321 = 1 not(TMP\_321) = 0 TMP\_322 = 2 TMP\_323 = 1 not(TMP\_323) = 0 TMP\_324 = 1 not(TMP\_324) = 0 TMP\_325 = 0 not(TMP\_325) = 1 TMP\_326 = 1 not(TMP\_326) = 0 TMP\_327 = 3 TMP\_328 = 0 not(TMP\_328) = 1 TMP\_329 = 0 not(TMP\_329) = 1 TMP\_330 = 0 TMP\_331 = 1 not(TMP\_331) = 0 TMP\_332 = 1 not(TMP\_332) = 0 TMP\_333 = 2 TMP\_334 = 0 not(TMP\_334) = 1 TMP\_335 = 0 not(TMP\_335) = 1 TMP\_336 = 1 not(TMP\_336) = 0 TMP\_337 = 1 not(TMP\_337) = 0 TMP\_338 = 1 not(TMP\_338) = 0 TMP\_339 = 2 Area\_0 = 10000 Distance\_0\_Rule\_0 = 100 Distance\_1\_Rule\_0 = 100 Area\_1 = 5000 Distance\_0\_Rule\_1 = 50 Distance\_1\_Rule\_1 = 100 Area\_2 = 2500 -(Rule\_2\_LB) = 0 Distance\_0\_Rule\_2 = 25 -(Rule\_2\_LB) = -400 Distance\_1\_Rule\_2 = 100 Area\_3 = 60000 -(Rule\_3\_LB) = -100 Distance\_0\_Rule\_3 = 150 -(Rule\_3\_LB) = 0 Distance\_1\_Rule\_3 = 400 Area\_4 = 30000 -(Rule\_4\_LB) = 0 Distance\_0\_Rule\_4 = 100 -(Rule\_4\_LB) = -100 Distance\_1\_Rule\_4 = 300 Area\_5 = 17500 -(Rule\_5\_LB) = -75 Distance\_0\_Rule\_5 = 175 -(Rule\_5\_LB) = -400 Distance\_1\_Rule\_5 = 100 TMP\_340 = 125000 .

- Solution #8 found. 8 Solutions, Resolution 99.838s, 1043512 Nodes (10,452.1 n/s), 2086792 Backtracks, 1043483 Fails, 0 Restarts

Rule\_2\_LB = 0 Rule\_2\_UB = 25 Rule\_2\_LB = 400 Rule\_2\_UB = 500 Rule\_3\_LB = 100 Rule\_3\_UB = 250 Rule\_3\_LB = 0 Rule\_3\_UB = 400 Rule\_4\_LB = 0 Rule\_4\_UB = 100 Rule\_4\_LB = 100 Rule\_4\_UB = 400 Rule\_5\_LB = 75 Rule\_5\_UB = 250 Rule\_5\_LB = 400 Rule\_5\_UB = 500 Overlaps\_0\_0 = 0 Overlaps\_0\_1 = 1 Overlaps\_0\_2 = 0 Overlaps\_0\_3 = 0 Overlaps\_0\_4 = 0 Overlaps\_0\_5 = 0 Overlaps\_1\_0 = 1 Overlaps\_1\_1 = 0 Overlaps\_1\_2 = 0 Overlaps\_1\_3 = 0 Overlaps\_1\_4 = 0 Overlaps\_1\_5 = 0 Overlaps\_2\_0 = 0 Overlaps\_2\_1 = 0 Overlaps\_2\_2 = 0 Overlaps\_2\_3 = 0 Overlaps\_2\_4 = 0 Overlaps\_2\_5 = 0 Overlaps\_3\_0 = 0 Overlaps\_3\_1 = 0 Overlaps\_3\_2 = 0 Overlaps\_3\_3 = 0 Overlaps\_3\_4 = 0 Overlaps\_3\_5 = 0 Overlaps\_4\_0 = 0 Overlaps\_4\_1 = 0 Overlaps\_4\_2 = 0 Overlaps\_4\_3 = 0 Overlaps\_4\_4 = 0 Overlaps\_4\_5 = 0 Overlaps\_5\_0 = 0 Overlaps\_5\_1 = 0 Overlaps\_5\_2 = 0 Overlaps\_5\_3 = 0 Overlaps\_5\_4 = 0 Overlaps\_5\_5 = 0 TMP\_0 = 1 not(TMP\_0) = 0 TMP\_1 = 1 not(TMP\_1) = 0 TMP\_2 = 0 not(TMP\_2) = 1 TMP\_3 = 1 not(TMP\_3) = 0 TMP\_4 = 3 TMP\_5 = 0 not(TMP\_5) = 1 TMP\_6 = 0 not(TMP\_6) = 1 TMP\_7 = 0 TMP\_8 = 1 not(TMP\_8) = 0 TMP\_9 = 1 not(TMP\_9) = 0 TMP\_10 = 2 TMP\_11 = 0 not(TMP\_11) = 1 TMP\_12 = 0 not(TMP\_12) = 1 TMP\_13 = 1 not(TMP\_13) = 0 TMP\_14 = 1 not(TMP\_14) = 0 TMP\_15 = 1 not(TMP\_15) = 0 TMP\_16 = 2 TMP\_17 = 1 not(TMP\_17) = 0 TMP\_18 = 0 not(TMP\_18) = 1 TMP\_19 = 1 not(TMP\_19) = 0 TMP\_20 = 1 not(TMP\_20) = 0 TMP\_21 = 3 TMP\_22 = 0 not(TMP\_22) = 1 TMP\_23 = 0 not(TMP\_23) = 1 TMP\_24 = 0 TMP\_25 = 1 not(TMP\_25) = 0 TMP\_26 = 1 not(TMP\_26) = 0 TMP\_27 = 2 TMP\_28 = 0 not(TMP\_28) = 1 TMP\_29 = 0 not(TMP\_29) = 1 TMP\_30 = 1 not(TMP\_30) = 0 TMP\_31 = 1 not(TMP\_31) = 0 TMP\_32 = 1 not(TMP\_32) = 0 TMP\_33 = 2 TMP\_34 = 1 not(TMP\_34) = 0 TMP\_35 = 0 not(TMP\_35) = 1 TMP\_36 = 0 not(TMP\_36) = 1 TMP\_37 = 1 not(TMP\_37) = 0 TMP\_38 = 2 TMP\_39 = 0 not(TMP\_39) = 1 TMP\_40 = 0 not(TMP\_40) = 1 TMP\_41 = 0 TMP\_42 = 1 not(TMP\_42) = 0 TMP\_43 = 1 not(TMP\_43) = 0 TMP\_44 = 2 TMP\_45 = 0 not(TMP\_45) = 1 TMP\_46 = 0 not(TMP\_46) = 1 TMP\_47 = 1 not(TMP\_47) = 0 TMP\_48 = 1 not(TMP\_48) = 0 TMP\_49 = 1 not(TMP\_49) = 0 TMP\_50 = 2 TMP\_51 = 1 not(TMP\_51) = 0 TMP\_52 = 1 not(TMP\_52) = 0 TMP\_53 = 0 not(TMP\_53) = 1 TMP\_54 = 1 not(TMP\_54) = 0 TMP\_55 = 3 TMP\_56 = 0 not(TMP\_56) = 1 TMP\_57 = 0 not(TMP\_57) = 1 TMP\_58 = 0 TMP\_59 = 1 not(TMP\_59) = 0 TMP\_60 = 1 not(TMP\_60) = 0 TMP\_61 = 2 TMP\_62 = 0 not(TMP\_62) = 1 TMP\_63 = 0 not(TMP\_63) = 1 TMP\_64 = 1 not(TMP\_64) = 0 TMP\_65 = 1 not(TMP\_65) = 0 TMP\_66 = 1 not(TMP\_66) = 0 TMP\_67 = 2 TMP\_68 = 1 not(TMP\_68) = 0 TMP\_69 = 0 not(TMP\_69) = 1 TMP\_70 = 1 not(TMP\_70) = 0 TMP\_71 = 1 not(TMP\_71) = 0 TMP\_72 = 3 TMP\_73 = 0 not(TMP\_73) = 1 TMP\_74 = 0 not(TMP\_74) = 1 TMP\_75 = 0 TMP\_76 = 1 not(TMP\_76) = 0 TMP\_77 = 1 not(TMP\_77) = 0 TMP\_78 = 2 TMP\_79 = 0 not(TMP\_79) = 1 TMP\_80 = 0 not(TMP\_80) = 1 TMP\_81 = 1 not(TMP\_81) = 0 TMP\_82 = 1 not(TMP\_82) = 0 TMP\_83 = 1 not(TMP\_83) = 0 TMP\_84 = 2 TMP\_85 = 0 not(TMP\_85) = 1 TMP\_86 = 1 not(TMP\_86) = 0 TMP\_87 = 1 not(TMP\_87) = 0 TMP\_88 = 1 not(TMP\_88) = 0 TMP\_89 = 3 TMP\_90 = 0 not(TMP\_90) = 1 TMP\_91 = 0 not(TMP\_91) = 1 TMP\_92 = 0 TMP\_93 = 1 not(TMP\_93) = 0 TMP\_94 = 1 not(TMP\_94) = 0 TMP\_95 = 2 TMP\_96 = 0 not(TMP\_96) = 1 TMP\_97 = 0 not(TMP\_97) = 1 TMP\_98 = 1 not(TMP\_98) = 0 TMP\_99 = 1 not(TMP\_99) = 0 TMP\_100 = 1 not(TMP\_100) = 0 TMP\_101 = 2 TMP\_102 = 0 not(TMP\_102) = 1 TMP\_103 = 1 not(TMP\_103) = 0 TMP\_104 = 1 not(TMP\_104) = 0 TMP\_105 = 0 not(TMP\_105) = 1 TMP\_106 = 2 TMP\_107 = 0 not(TMP\_107) = 1 TMP\_108 = 0 not(TMP\_108) = 1 TMP\_109 = 0 TMP\_110 = 1 not(TMP\_110) = 0 TMP\_111 = 1 not(TMP\_111) = 0 TMP\_112 = 2 TMP\_113 = 0 not(TMP\_113) = 1 TMP\_114 = 0 not(TMP\_114) = 1 TMP\_115 = 1 not(TMP\_115) = 0 TMP\_116 = 1 not(TMP\_116) = 0 TMP\_117 = 1 not(TMP\_117) = 0 TMP\_118 = 2 TMP\_119 = 0 not(TMP\_119) = 1 TMP\_120 = 1 not(TMP\_120) = 0 TMP\_121 = 1 not(TMP\_121) = 0 TMP\_122 = 0 not(TMP\_122) = 1 TMP\_123 = 2 TMP\_124 = 0 not(TMP\_124) = 1 TMP\_125 = 0 not(TMP\_125) = 1 TMP\_126 = 0 TMP\_127 = 1 not(TMP\_127) = 0 TMP\_128 = 1 not(TMP\_128) = 0 TMP\_129 = 2 TMP\_130 = 0 not(TMP\_130) = 1 TMP\_131 = 0 not(TMP\_131) = 1 TMP\_132 = 1 not(TMP\_132) = 0 TMP\_133 = 1 not(TMP\_133) = 0 TMP\_134 = 1 not(TMP\_134) = 0 TMP\_135 = 2 TMP\_136 = 0 not(TMP\_136) = 1 TMP\_137 = 1 not(TMP\_137) = 0 TMP\_138 = 1 not(TMP\_138) = 0 TMP\_139 = 1 not(TMP\_139) = 0 TMP\_140 = 3 TMP\_141 = 0 not(TMP\_141) = 1 TMP\_142 = 0 not(TMP\_142) = 1 TMP\_143 = 0 TMP\_144 = 1 not(TMP\_144) = 0 TMP\_145 = 1 not(TMP\_145) = 0 TMP\_146 = 2 TMP\_147 = 0 not(TMP\_147) = 1 TMP\_148 = 0 not(TMP\_148) = 1 TMP\_149 = 1 not(TMP\_149) = 0 TMP\_150 = 1 not(TMP\_150) = 0 TMP\_151 = 1 not(TMP\_151) = 0 TMP\_152 = 2 TMP\_153 = 1 not(TMP\_153) = 0 TMP\_154 = 1 not(TMP\_154) = 0 TMP\_155 = 1 not(TMP\_155) = 0 TMP\_156 = 0 not(TMP\_156) = 1 TMP\_157 = 3 TMP\_158 = 0 not(TMP\_158) = 1 TMP\_159 = 0 not(TMP\_159) = 1 TMP\_160 = 0 TMP\_161 = 1 not(TMP\_161) = 0 TMP\_162 = 1 not(TMP\_162) = 0 TMP\_163 = 2 TMP\_164 = 0 not(TMP\_164) = 1 TMP\_165 = 0 not(TMP\_165) = 1 TMP\_166 = 1 not(TMP\_166) = 0 TMP\_167 = 1 not(TMP\_167) = 0 TMP\_168 = 1 not(TMP\_168) = 0 TMP\_169 = 2 TMP\_170 = 1 not(TMP\_170) = 0 TMP\_171 = 1 not(TMP\_171) = 0 TMP\_172 = 0 not(TMP\_172) = 1 TMP\_173 = 1 not(TMP\_173) = 0 TMP\_174 = 3 TMP\_175 = 0 not(TMP\_175) = 1 TMP\_176 = 0 not(TMP\_176) = 1 TMP\_177 = 0 TMP\_178 = 1 not(TMP\_178) = 0 TMP\_179 = 1 not(TMP\_179) = 0 TMP\_180 = 2 TMP\_181 = 0 not(TMP\_181) = 1 TMP\_182 = 0 not(TMP\_182) = 1 TMP\_183 = 1 not(TMP\_183) = 0 TMP\_184 = 1 not(TMP\_184) = 0 TMP\_185 = 1 not(TMP\_185) = 0 TMP\_186 = 2 TMP\_187 = 1 not(TMP\_187) = 0 TMP\_188 = 1 not(TMP\_188) = 0 TMP\_189 = 1 not(TMP\_189) = 0 TMP\_190 = 0 not(TMP\_190) = 1 TMP\_191 = 3 TMP\_192 = 0 not(TMP\_192) = 1 TMP\_193 = 0 not(TMP\_193) = 1 TMP\_194 = 0 TMP\_195 = 1 not(TMP\_195) = 0 TMP\_196 = 1 not(TMP\_196) = 0 TMP\_197 = 2 TMP\_198 = 0 not(TMP\_198) = 1 TMP\_199 = 0 not(TMP\_199) = 1 TMP\_200 = 1 not(TMP\_200) = 0 TMP\_201 = 1 not(TMP\_201) = 0 TMP\_202 = 1 not(TMP\_202) = 0 TMP\_203 = 2 TMP\_204 = 1 not(TMP\_204) = 0 TMP\_205 = 1 not(TMP\_205) = 0 TMP\_206 = 1 not(TMP\_206) = 0 TMP\_207 = 0 not(TMP\_207) = 1 TMP\_208 = 3 TMP\_209 = 0 not(TMP\_209) = 1 TMP\_210 = 0 not(TMP\_210) = 1 TMP\_211 = 0 TMP\_212 = 1 not(TMP\_212) = 0 TMP\_213 = 1 not(TMP\_213) = 0 TMP\_214 = 2 TMP\_215 = 0 not(TMP\_215) = 1 TMP\_216 = 0 not(TMP\_216) = 1 TMP\_217 = 1 not(TMP\_217) = 0 TMP\_218 = 1 not(TMP\_218) = 0 TMP\_219 = 1 not(TMP\_219) = 0 TMP\_220 = 2 TMP\_221 = 1 not(TMP\_221) = 0 TMP\_222 = 0 not(TMP\_222) = 1 TMP\_223 = 1 not(TMP\_223) = 0 TMP\_224 = 1 not(TMP\_224) = 0 TMP\_225 = 3 TMP\_226 = 0 not(TMP\_226) = 1 TMP\_227 = 0 not(TMP\_227) = 1 TMP\_228 = 0 TMP\_229 = 1 not(TMP\_229) = 0 TMP\_230 = 1 not(TMP\_230) = 0 TMP\_231 = 2 TMP\_232 = 0 not(TMP\_232) = 1 TMP\_233 = 0 not(TMP\_233) = 1 TMP\_234 = 1 not(TMP\_234) = 0 TMP\_235 = 1 not(TMP\_235) = 0 TMP\_236 = 1 not(TMP\_236) = 0 TMP\_237 = 2 TMP\_238 = 1 not(TMP\_238) = 0 TMP\_239 = 1 not(TMP\_239) = 0 TMP\_240 = 1 not(TMP\_240) = 0 TMP\_241 = 0 not(TMP\_241) = 1 TMP\_242 = 3 TMP\_243 = 0 not(TMP\_243) = 1 TMP\_244 = 0 not(TMP\_244) = 1 TMP\_245 = 0 TMP\_246 = 1 not(TMP\_246) = 0 TMP\_247 = 1 not(TMP\_247) = 0 TMP\_248 = 2 TMP\_249 = 0 not(TMP\_249) = 1 TMP\_250 = 0 not(TMP\_250) = 1 TMP\_251 = 1 not(TMP\_251) = 0 TMP\_252 = 1 not(TMP\_252) = 0 TMP\_253 = 1 not(TMP\_253) = 0 TMP\_254 = 2 TMP\_255 = 1 not(TMP\_255) = 0 TMP\_256 = 1 not(TMP\_256) = 0 TMP\_257 = 0 not(TMP\_257) = 1 TMP\_258 = 1 not(TMP\_258) = 0 TMP\_259 = 3 TMP\_260 = 0 not(TMP\_260) = 1 TMP\_261 = 0 not(TMP\_261) = 1 TMP\_262 = 0 TMP\_263 = 1 not(TMP\_263) = 0 TMP\_264 = 1 not(TMP\_264) = 0 TMP\_265 = 2 TMP\_266 = 0 not(TMP\_266) = 1 TMP\_267 = 0 not(TMP\_267) = 1 TMP\_268 = 1 not(TMP\_268) = 0 TMP\_269 = 1 not(TMP\_269) = 0 TMP\_270 = 1 not(TMP\_270) = 0 TMP\_271 = 2 TMP\_272 = 0 not(TMP\_272) = 1 TMP\_273 = 1 not(TMP\_273) = 0 TMP\_274 = 1 not(TMP\_274) = 0 TMP\_275 = 1 not(TMP\_275) = 0 TMP\_276 = 3 TMP\_277 = 0 not(TMP\_277) = 1 TMP\_278 = 0 not(TMP\_278) = 1 TMP\_279 = 0 TMP\_280 = 1 not(TMP\_280) = 0 TMP\_281 = 1 not(TMP\_281) = 0 TMP\_282 = 2 TMP\_283 = 0 not(TMP\_283) = 1 TMP\_284 = 0 not(TMP\_284) = 1 TMP\_285 = 1 not(TMP\_285) = 0 TMP\_286 = 1 not(TMP\_286) = 0 TMP\_287 = 1 not(TMP\_287) = 0 TMP\_288 = 2 TMP\_289 = 0 not(TMP\_289) = 1 TMP\_290 = 1 not(TMP\_290) = 0 TMP\_291 = 1 not(TMP\_291) = 0 TMP\_292 = 1 not(TMP\_292) = 0 TMP\_293 = 3 TMP\_294 = 0 not(TMP\_294) = 1 TMP\_295 = 0 not(TMP\_295) = 1 TMP\_296 = 0 TMP\_297 = 1 not(TMP\_297) = 0 TMP\_298 = 1 not(TMP\_298) = 0 TMP\_299 = 2 TMP\_300 = 0 not(TMP\_300) = 1 TMP\_301 = 0 not(TMP\_301) = 1 TMP\_302 = 1 not(TMP\_302) = 0 TMP\_303 = 1 not(TMP\_303) = 0 TMP\_304 = 1 not(TMP\_304) = 0 TMP\_305 = 2 TMP\_306 = 1 not(TMP\_306) = 0 TMP\_307 = 1 not(TMP\_307) = 0 TMP\_308 = 0 not(TMP\_308) = 1 TMP\_309 = 1 not(TMP\_309) = 0 TMP\_310 = 3 TMP\_311 = 0 not(TMP\_311) = 1 TMP\_312 = 0 not(TMP\_312) = 1 TMP\_313 = 0 TMP\_314 = 1 not(TMP\_314) = 0 TMP\_315 = 1 not(TMP\_315) = 0 TMP\_316 = 2 TMP\_317 = 0 not(TMP\_317) = 1 TMP\_318 = 0 not(TMP\_318) = 1 TMP\_319 = 1 not(TMP\_319) = 0 TMP\_320 = 1 not(TMP\_320) = 0 TMP\_321 = 1 not(TMP\_321) = 0 TMP\_322 = 2 TMP\_323 = 1 not(TMP\_323) = 0 TMP\_324 = 1 not(TMP\_324) = 0 TMP\_325 = 0 not(TMP\_325) = 1 TMP\_326 = 1 not(TMP\_326) = 0 TMP\_327 = 3 TMP\_328 = 0 not(TMP\_328) = 1 TMP\_329 = 0 not(TMP\_329) = 1 TMP\_330 = 0 TMP\_331 = 1 not(TMP\_331) = 0 TMP\_332 = 1 not(TMP\_332) = 0 TMP\_333 = 2 TMP\_334 = 0 not(TMP\_334) = 1 TMP\_335 = 0 not(TMP\_335) = 1 TMP\_336 = 1 not(TMP\_336) = 0 TMP\_337 = 1 not(TMP\_337) = 0 TMP\_338 = 1 not(TMP\_338) = 0 TMP\_339 = 2 Area\_0 = 10000 Distance\_0\_Rule\_0 = 100 Distance\_1\_Rule\_0 = 100 Area\_1 = 5000 Distance\_0\_Rule\_1 = 50 Distance\_1\_Rule\_1 = 100 Area\_2 = 2500 -(Rule\_2\_LB) = 0 Distance\_0\_Rule\_2 = 25 -(Rule\_2\_LB) = -400 Distance\_1\_Rule\_2 = 100 Area\_3 = 60000 -(Rule\_3\_LB) = -100 Distance\_0\_Rule\_3 = 150 -(Rule\_3\_LB) = 0 Distance\_1\_Rule\_3 = 400 Area\_4 = 30000 -(Rule\_4\_LB) = 0 Distance\_0\_Rule\_4 = 100 -(Rule\_4\_LB) = -100 Distance\_1\_Rule\_4 = 300 Area\_5 = 17500 -(Rule\_5\_LB) = -75 Distance\_0\_Rule\_5 = 175 -(Rule\_5\_LB) = -400 Distance\_1\_Rule\_5 = 100 TMP\_340 = 125000 .

- Solution #9 found. 9 Solutions, Resolution 659.435s, 5676653 Nodes (8,608.4 n/s), 11352848 Backtracks, 5676624 Fails, 0 Restarts

Rule\_2\_LB = 75 Rule\_2\_UB = 250 Rule\_2\_LB = 400 Rule\_2\_UB = 500 Rule\_3\_LB = 100 Rule\_3\_UB = 250 Rule\_3\_LB = 0 Rule\_3\_UB = 400 Rule\_4\_LB = 0 Rule\_4\_UB = 100 Rule\_4\_LB = 100 Rule\_4\_UB = 400 Rule\_5\_LB = 0 Rule\_5\_UB = 25 Rule\_5\_LB = 400 Rule\_5\_UB = 500 Overlaps\_0\_0 = 0 Overlaps\_0\_1 = 0 Overlaps\_0\_2 = 0 Overlaps\_0\_3 = 0 Overlaps\_0\_4 = 0 Overlaps\_0\_5 = 0 Overlaps\_1\_0 = 0 Overlaps\_1\_1 = 0 Overlaps\_1\_2 = 0 Overlaps\_1\_3 = 0 Overlaps\_1\_4 = 0 Overlaps\_1\_5 = 0 Overlaps\_2\_0 = 0 Overlaps\_2\_1 = 0 Overlaps\_2\_2 = 0 Overlaps\_2\_3 = 0 Overlaps\_2\_4 = 0 Overlaps\_2\_5 = 0 Overlaps\_3\_0 = 0 Overlaps\_3\_1 = 0 Overlaps\_3\_2 = 0 Overlaps\_3\_3 = 0 Overlaps\_3\_4 = 0 Overlaps\_3\_5 = 0 Overlaps\_4\_0 = 0 Overlaps\_4\_1 = 0 Overlaps\_4\_2 = 0 Overlaps\_4\_3 = 0 Overlaps\_4\_4 = 0 Overlaps\_4\_5 = 0 Overlaps\_5\_0 = 0 Overlaps\_5\_1 = 0 Overlaps\_5\_2 = 0 Overlaps\_5\_3 = 0 Overlaps\_5\_4 = 0 Overlaps\_5\_5 = 0 TMP\_0 = 1 not(TMP\_0) = 0 TMP\_1 = 1 not(TMP\_1) = 0 TMP\_2 = 0 not(TMP\_2) = 1 TMP\_3 = 1 not(TMP\_3) = 0 TMP\_4 = 3 TMP\_5 = 0 not(TMP\_5) = 1 TMP\_6 = 0 not(TMP\_6) = 1 TMP\_7 = 0 TMP\_8 = 1 not(TMP\_8) = 0 TMP\_9 = 1 not(TMP\_9) = 0 TMP\_10 = 2 TMP\_11 = 0 not(TMP\_11) = 1 TMP\_12 = 0 not(TMP\_12) = 1 TMP\_13 = 1 not(TMP\_13) = 0 TMP\_14 = 1 not(TMP\_14) = 0 TMP\_15 = 1 not(TMP\_15) = 0 TMP\_16 = 2 TMP\_17 = 0 not(TMP\_17) = 1 TMP\_18 = 1 not(TMP\_18) = 0 TMP\_19 = 1 not(TMP\_19) = 0 TMP\_20 = 1 not(TMP\_20) = 0 TMP\_21 = 3 TMP\_22 = 0 not(TMP\_22) = 1 TMP\_23 = 0 not(TMP\_23) = 1 TMP\_24 = 0 TMP\_25 = 1 not(TMP\_25) = 0 TMP\_26 = 1 not(TMP\_26) = 0 TMP\_27 = 2 TMP\_28 = 0 not(TMP\_28) = 1 TMP\_29 = 0 not(TMP\_29) = 1 TMP\_30 = 1 not(TMP\_30) = 0 TMP\_31 = 1 not(TMP\_31) = 0 TMP\_32 = 1 not(TMP\_32) = 0 TMP\_33 = 2 TMP\_34 = 1 not(TMP\_34) = 0 TMP\_35 = 1 not(TMP\_35) = 0 TMP\_36 = 0 not(TMP\_36) = 1 TMP\_37 = 1 not(TMP\_37) = 0 TMP\_38 = 3 TMP\_39 = 0 not(TMP\_39) = 1 TMP\_40 = 0 not(TMP\_40) = 1 TMP\_41 = 0 TMP\_42 = 1 not(TMP\_42) = 0 TMP\_43 = 1 not(TMP\_43) = 0 TMP\_44 = 2 TMP\_45 = 0 not(TMP\_45) = 1 TMP\_46 = 0 not(TMP\_46) = 1 TMP\_47 = 1 not(TMP\_47) = 0 TMP\_48 = 1 not(TMP\_48) = 0 TMP\_49 = 1 not(TMP\_49) = 0 TMP\_50 = 2 TMP\_51 = 1 not(TMP\_51) = 0 TMP\_52 = 1 not(TMP\_52) = 0 TMP\_53 = 0 not(TMP\_53) = 1 TMP\_54 = 1 not(TMP\_54) = 0 TMP\_55 = 3 TMP\_56 = 0 not(TMP\_56) = 1 TMP\_57 = 0 not(TMP\_57) = 1 TMP\_58 = 0 TMP\_59 = 1 not(TMP\_59) = 0 TMP\_60 = 1 not(TMP\_60) = 0 TMP\_61 = 2 TMP\_62 = 0 not(TMP\_62) = 1 TMP\_63 = 0 not(TMP\_63) = 1 TMP\_64 = 1 not(TMP\_64) = 0 TMP\_65 = 1 not(TMP\_65) = 0 TMP\_66 = 1 not(TMP\_66) = 0 TMP\_67 = 2 TMP\_68 = 0 not(TMP\_68) = 1 TMP\_69 = 1 not(TMP\_69) = 0 TMP\_70 = 1 not(TMP\_70) = 0 TMP\_71 = 1 not(TMP\_71) = 0 TMP\_72 = 3 TMP\_73 = 0 not(TMP\_73) = 1 TMP\_74 = 0 not(TMP\_74) = 1 TMP\_75 = 0 TMP\_76 = 1 not(TMP\_76) = 0 TMP\_77 = 1 not(TMP\_77) = 0 TMP\_78 = 2 TMP\_79 = 0 not(TMP\_79) = 1 TMP\_80 = 0 not(TMP\_80) = 1 TMP\_81 = 1 not(TMP\_81) = 0 TMP\_82 = 1 not(TMP\_82) = 0 TMP\_83 = 1 not(TMP\_83) = 0 TMP\_84 = 2 TMP\_85 = 0 not(TMP\_85) = 1 TMP\_86 = 1 not(TMP\_86) = 0 TMP\_87 = 1 not(TMP\_87) = 0 TMP\_88 = 1 not(TMP\_88) = 0 TMP\_89 = 3 TMP\_90 = 0 not(TMP\_90) = 1 TMP\_91 = 0 not(TMP\_91) = 1 TMP\_92 = 0 TMP\_93 = 1 not(TMP\_93) = 0 TMP\_94 = 1 not(TMP\_94) = 0 TMP\_95 = 2 TMP\_96 = 0 not(TMP\_96) = 1 TMP\_97 = 0 not(TMP\_97) = 1 TMP\_98 = 1 not(TMP\_98) = 0 TMP\_99 = 1 not(TMP\_99) = 0 TMP\_100 = 1 not(TMP\_100) = 0 TMP\_101 = 2 TMP\_102 = 0 not(TMP\_102) = 1 TMP\_103 = 1 not(TMP\_103) = 0 TMP\_104 = 1 not(TMP\_104) = 0 TMP\_105 = 0 not(TMP\_105) = 1 TMP\_106 = 2 TMP\_107 = 0 not(TMP\_107) = 1 TMP\_108 = 0 not(TMP\_108) = 1 TMP\_109 = 0 TMP\_110 = 1 not(TMP\_110) = 0 TMP\_111 = 1 not(TMP\_111) = 0 TMP\_112 = 2 TMP\_113 = 0 not(TMP\_113) = 1 TMP\_114 = 0 not(TMP\_114) = 1 TMP\_115 = 1 not(TMP\_115) = 0 TMP\_116 = 1 not(TMP\_116) = 0 TMP\_117 = 1 not(TMP\_117) = 0 TMP\_118 = 2 TMP\_119 = 1 not(TMP\_119) = 0 TMP\_120 = 1 not(TMP\_120) = 0 TMP\_121 = 1 not(TMP\_121) = 0 TMP\_122 = 0 not(TMP\_122) = 1 TMP\_123 = 3 TMP\_124 = 0 not(TMP\_124) = 1 TMP\_125 = 0 not(TMP\_125) = 1 TMP\_126 = 0 TMP\_127 = 1 not(TMP\_127) = 0 TMP\_128 = 1 not(TMP\_128) = 0 TMP\_129 = 2 TMP\_130 = 0 not(TMP\_130) = 1 TMP\_131 = 0 not(TMP\_131) = 1 TMP\_132 = 1 not(TMP\_132) = 0 TMP\_133 = 1 not(TMP\_133) = 0 TMP\_134 = 1 not(TMP\_134) = 0 TMP\_135 = 2 TMP\_136 = 0 not(TMP\_136) = 1 TMP\_137 = 1 not(TMP\_137) = 0 TMP\_138 = 1 not(TMP\_138) = 0 TMP\_139 = 1 not(TMP\_139) = 0 TMP\_140 = 3 TMP\_141 = 0 not(TMP\_141) = 1 TMP\_142 = 0 not(TMP\_142) = 1 TMP\_143 = 0 TMP\_144 = 1 not(TMP\_144) = 0 TMP\_145 = 1 not(TMP\_145) = 0 TMP\_146 = 2 TMP\_147 = 0 not(TMP\_147) = 1 TMP\_148 = 0 not(TMP\_148) = 1 TMP\_149 = 1 not(TMP\_149) = 0 TMP\_150 = 1 not(TMP\_150) = 0 TMP\_151 = 1 not(TMP\_151) = 0 TMP\_152 = 2 TMP\_153 = 0 not(TMP\_153) = 1 TMP\_154 = 1 not(TMP\_154) = 0 TMP\_155 = 1 not(TMP\_155) = 0 TMP\_156 = 0 not(TMP\_156) = 1 TMP\_157 = 2 TMP\_158 = 0 not(TMP\_158) = 1 TMP\_159 = 0 not(TMP\_159) = 1 TMP\_160 = 0 TMP\_161 = 1 not(TMP\_161) = 0 TMP\_162 = 1 not(TMP\_162) = 0 TMP\_163 = 2 TMP\_164 = 0 not(TMP\_164) = 1 TMP\_165 = 0 not(TMP\_165) = 1 TMP\_166 = 1 not(TMP\_166) = 0 TMP\_167 = 1 not(TMP\_167) = 0 TMP\_168 = 1 not(TMP\_168) = 0 TMP\_169 = 2 TMP\_170 = 1 not(TMP\_170) = 0 TMP\_171 = 1 not(TMP\_171) = 0 TMP\_172 = 0 not(TMP\_172) = 1 TMP\_173 = 1 not(TMP\_173) = 0 TMP\_174 = 3 TMP\_175 = 0 not(TMP\_175) = 1 TMP\_176 = 0 not(TMP\_176) = 1 TMP\_177 = 0 TMP\_178 = 1 not(TMP\_178) = 0 TMP\_179 = 1 not(TMP\_179) = 0 TMP\_180 = 2 TMP\_181 = 0 not(TMP\_181) = 1 TMP\_182 = 0 not(TMP\_182) = 1 TMP\_183 = 1 not(TMP\_183) = 0 TMP\_184 = 1 not(TMP\_184) = 0 TMP\_185 = 1 not(TMP\_185) = 0 TMP\_186 = 2 TMP\_187 = 1 not(TMP\_187) = 0 TMP\_188 = 1 not(TMP\_188) = 0 TMP\_189 = 1 not(TMP\_189) = 0 TMP\_190 = 0 not(TMP\_190) = 1 TMP\_191 = 3 TMP\_192 = 0 not(TMP\_192) = 1 TMP\_193 = 0 not(TMP\_193) = 1 TMP\_194 = 0 TMP\_195 = 1 not(TMP\_195) = 0 TMP\_196 = 1 not(TMP\_196) = 0 TMP\_197 = 2 TMP\_198 = 0 not(TMP\_198) = 1 TMP\_199 = 0 not(TMP\_199) = 1 TMP\_200 = 1 not(TMP\_200) = 0 TMP\_201 = 1 not(TMP\_201) = 0 TMP\_202 = 1 not(TMP\_202) = 0 TMP\_203 = 2 TMP\_204 = 1 not(TMP\_204) = 0 TMP\_205 = 1 not(TMP\_205) = 0 TMP\_206 = 1 not(TMP\_206) = 0 TMP\_207 = 0 not(TMP\_207) = 1 TMP\_208 = 3 TMP\_209 = 0 not(TMP\_209) = 1 TMP\_210 = 0 not(TMP\_210) = 1 TMP\_211 = 0 TMP\_212 = 1 not(TMP\_212) = 0 TMP\_213 = 1 not(TMP\_213) = 0 TMP\_214 = 2 TMP\_215 = 0 not(TMP\_215) = 1 TMP\_216 = 0 not(TMP\_216) = 1 TMP\_217 = 1 not(TMP\_217) = 0 TMP\_218 = 1 not(TMP\_218) = 0 TMP\_219 = 1 not(TMP\_219) = 0 TMP\_220 = 2 TMP\_221 = 1 not(TMP\_221) = 0 TMP\_222 = 0 not(TMP\_222) = 1 TMP\_223 = 1 not(TMP\_223) = 0 TMP\_224 = 1 not(TMP\_224) = 0 TMP\_225 = 3 TMP\_226 = 0 not(TMP\_226) = 1 TMP\_227 = 0 not(TMP\_227) = 1 TMP\_228 = 0 TMP\_229 = 1 not(TMP\_229) = 0 TMP\_230 = 1 not(TMP\_230) = 0 TMP\_231 = 2 TMP\_232 = 0 not(TMP\_232) = 1 TMP\_233 = 0 not(TMP\_233) = 1 TMP\_234 = 1 not(TMP\_234) = 0 TMP\_235 = 1 not(TMP\_235) = 0 TMP\_236 = 1 not(TMP\_236) = 0 TMP\_237 = 2 TMP\_238 = 1 not(TMP\_238) = 0 TMP\_239 = 1 not(TMP\_239) = 0 TMP\_240 = 1 not(TMP\_240) = 0 TMP\_241 = 0 not(TMP\_241) = 1 TMP\_242 = 3 TMP\_243 = 0 not(TMP\_243) = 1 TMP\_244 = 0 not(TMP\_244) = 1 TMP\_245 = 0 TMP\_246 = 1 not(TMP\_246) = 0 TMP\_247 = 1 not(TMP\_247) = 0 TMP\_248 = 2 TMP\_249 = 0 not(TMP\_249) = 1 TMP\_250 = 0 not(TMP\_250) = 1 TMP\_251 = 1 not(TMP\_251) = 0 TMP\_252 = 1 not(TMP\_252) = 0 TMP\_253 = 1 not(TMP\_253) = 0 TMP\_254 = 2 TMP\_255 = 1 not(TMP\_255) = 0 TMP\_256 = 1 not(TMP\_256) = 0 TMP\_257 = 0 not(TMP\_257) = 1 TMP\_258 = 1 not(TMP\_258) = 0 TMP\_259 = 3 TMP\_260 = 0 not(TMP\_260) = 1 TMP\_261 = 0 not(TMP\_261) = 1 TMP\_262 = 0 TMP\_263 = 1 not(TMP\_263) = 0 TMP\_264 = 1 not(TMP\_264) = 0 TMP\_265 = 2 TMP\_266 = 0 not(TMP\_266) = 1 TMP\_267 = 0 not(TMP\_267) = 1 TMP\_268 = 1 not(TMP\_268) = 0 TMP\_269 = 1 not(TMP\_269) = 0 TMP\_270 = 1 not(TMP\_270) = 0 TMP\_271 = 2 TMP\_272 = 1 not(TMP\_272) = 0 TMP\_273 = 0 not(TMP\_273) = 1 TMP\_274 = 1 not(TMP\_274) = 0 TMP\_275 = 1 not(TMP\_275) = 0 TMP\_276 = 3 TMP\_277 = 0 not(TMP\_277) = 1 TMP\_278 = 0 not(TMP\_278) = 1 TMP\_279 = 0 TMP\_280 = 1 not(TMP\_280) = 0 TMP\_281 = 1 not(TMP\_281) = 0 TMP\_282 = 2 TMP\_283 = 0 not(TMP\_283) = 1 TMP\_284 = 0 not(TMP\_284) = 1 TMP\_285 = 1 not(TMP\_285) = 0 TMP\_286 = 1 not(TMP\_286) = 0 TMP\_287 = 1 not(TMP\_287) = 0 TMP\_288 = 2 TMP\_289 = 1 not(TMP\_289) = 0 TMP\_290 = 0 not(TMP\_290) = 1 TMP\_291 = 1 not(TMP\_291) = 0 TMP\_292 = 1 not(TMP\_292) = 0 TMP\_293 = 3 TMP\_294 = 0 not(TMP\_294) = 1 TMP\_295 = 0 not(TMP\_295) = 1 TMP\_296 = 0 TMP\_297 = 1 not(TMP\_297) = 0 TMP\_298 = 1 not(TMP\_298) = 0 TMP\_299 = 2 TMP\_300 = 0 not(TMP\_300) = 1 TMP\_301 = 0 not(TMP\_301) = 1 TMP\_302 = 1 not(TMP\_302) = 0 TMP\_303 = 1 not(TMP\_303) = 0 TMP\_304 = 1 not(TMP\_304) = 0 TMP\_305 = 2 TMP\_306 = 1 not(TMP\_306) = 0 TMP\_307 = 0 not(TMP\_307) = 1 TMP\_308 = 0 not(TMP\_308) = 1 TMP\_309 = 1 not(TMP\_309) = 0 TMP\_310 = 2 TMP\_311 = 0 not(TMP\_311) = 1 TMP\_312 = 0 not(TMP\_312) = 1 TMP\_313 = 0 TMP\_314 = 1 not(TMP\_314) = 0 TMP\_315 = 1 not(TMP\_315) = 0 TMP\_316 = 2 TMP\_317 = 0 not(TMP\_317) = 1 TMP\_318 = 0 not(TMP\_318) = 1 TMP\_319 = 1 not(TMP\_319) = 0 TMP\_320 = 1 not(TMP\_320) = 0 TMP\_321 = 1 not(TMP\_321) = 0 TMP\_322 = 2 TMP\_323 = 1 not(TMP\_323) = 0 TMP\_324 = 1 not(TMP\_324) = 0 TMP\_325 = 0 not(TMP\_325) = 1 TMP\_326 = 1 not(TMP\_326) = 0 TMP\_327 = 3 TMP\_328 = 0 not(TMP\_328) = 1 TMP\_329 = 0 not(TMP\_329) = 1 TMP\_330 = 0 TMP\_331 = 1 not(TMP\_331) = 0 TMP\_332 = 1 not(TMP\_332) = 0 TMP\_333 = 2 TMP\_334 = 0 not(TMP\_334) = 1 TMP\_335 = 0 not(TMP\_335) = 1 TMP\_336 = 1 not(TMP\_336) = 0 TMP\_337 = 1 not(TMP\_337) = 0 TMP\_338 = 1 not(TMP\_338) = 0 TMP\_339 = 2 Area\_0 = 10000 Distance\_0\_Rule\_0 = 100 Distance\_1\_Rule\_0 = 100 Area\_1 = 5000 Distance\_0\_Rule\_1 = 50 Distance\_1\_Rule\_1 = 100 Area\_2 = 17500 -(Rule\_2\_LB) = -75 Distance\_0\_Rule\_2 = 175 -(Rule\_2\_LB) = -400 Distance\_1\_Rule\_2 = 100 Area\_3 = 60000 -(Rule\_3\_LB) = -100 Distance\_0\_Rule\_3 = 150 -(Rule\_3\_LB) = 0 Distance\_1\_Rule\_3 = 400 Area\_4 = 30000 -(Rule\_4\_LB) = 0 Distance\_0\_Rule\_4 = 100 -(Rule\_4\_LB) = -100 Distance\_1\_Rule\_4 = 300 Area\_5 = 2500 -(Rule\_5\_LB) = 0 Distance\_0\_Rule\_5 = 25 -(Rule\_5\_LB) = -400 Distance\_1\_Rule\_5 = 100 TMP\_340 = 125000 .

- Solution #10 found. 10 Solutions, Resolution 659.437s, 5676654 Nodes (8,608.3 n/s), 11352849 Backtracks, 5676624 Fails, 0 Restarts

Rule\_2\_LB = 75 Rule\_2\_UB = 250 Rule\_2\_LB = 400 Rule\_2\_UB = 500 Rule\_3\_LB = 100 Rule\_3\_UB = 250 Rule\_3\_LB = 0 Rule\_3\_UB = 400 Rule\_4\_LB = 0 Rule\_4\_UB = 100 Rule\_4\_LB = 100 Rule\_4\_UB = 400 Rule\_5\_LB = 0 Rule\_5\_UB = 25 Rule\_5\_LB = 400 Rule\_5\_UB = 500 Overlaps\_0\_0 = 0 Overlaps\_0\_1 = 1 Overlaps\_0\_2 = 0 Overlaps\_0\_3 = 0 Overlaps\_0\_4 = 0 Overlaps\_0\_5 = 0 Overlaps\_1\_0 = 0 Overlaps\_1\_1 = 0 Overlaps\_1\_2 = 0 Overlaps\_1\_3 = 0 Overlaps\_1\_4 = 0 Overlaps\_1\_5 = 0 Overlaps\_2\_0 = 0 Overlaps\_2\_1 = 0 Overlaps\_2\_2 = 0 Overlaps\_2\_3 = 0 Overlaps\_2\_4 = 0 Overlaps\_2\_5 = 0 Overlaps\_3\_0 = 0 Overlaps\_3\_1 = 0 Overlaps\_3\_2 = 0 Overlaps\_3\_3 = 0 Overlaps\_3\_4 = 0 Overlaps\_3\_5 = 0 Overlaps\_4\_0 = 0 Overlaps\_4\_1 = 0 Overlaps\_4\_2 = 0 Overlaps\_4\_3 = 0 Overlaps\_4\_4 = 0 Overlaps\_4\_5 = 0 Overlaps\_5\_0 = 0 Overlaps\_5\_1 = 0 Overlaps\_5\_2 = 0 Overlaps\_5\_3 = 0 Overlaps\_5\_4 = 0 Overlaps\_5\_5 = 0 TMP\_0 = 1 not(TMP\_0) = 0 TMP\_1 = 1 not(TMP\_1) = 0 TMP\_2 = 0 not(TMP\_2) = 1 TMP\_3 = 1 not(TMP\_3) = 0 TMP\_4 = 3 TMP\_5 = 0 not(TMP\_5) = 1 TMP\_6 = 0 not(TMP\_6) = 1 TMP\_7 = 0 TMP\_8 = 1 not(TMP\_8) = 0 TMP\_9 = 1 not(TMP\_9) = 0 TMP\_10 = 2 TMP\_11 = 0 not(TMP\_11) = 1 TMP\_12 = 0 not(TMP\_12) = 1 TMP\_13 = 1 not(TMP\_13) = 0 TMP\_14 = 1 not(TMP\_14) = 0 TMP\_15 = 1 not(TMP\_15) = 0 TMP\_16 = 2 TMP\_17 = 0 not(TMP\_17) = 1 TMP\_18 = 1 not(TMP\_18) = 0 TMP\_19 = 1 not(TMP\_19) = 0 TMP\_20 = 1 not(TMP\_20) = 0 TMP\_21 = 3 TMP\_22 = 0 not(TMP\_22) = 1 TMP\_23 = 0 not(TMP\_23) = 1 TMP\_24 = 0 TMP\_25 = 1 not(TMP\_25) = 0 TMP\_26 = 1 not(TMP\_26) = 0 TMP\_27 = 2 TMP\_28 = 0 not(TMP\_28) = 1 TMP\_29 = 0 not(TMP\_29) = 1 TMP\_30 = 1 not(TMP\_30) = 0 TMP\_31 = 1 not(TMP\_31) = 0 TMP\_32 = 1 not(TMP\_32) = 0 TMP\_33 = 2 TMP\_34 = 1 not(TMP\_34) = 0 TMP\_35 = 1 not(TMP\_35) = 0 TMP\_36 = 0 not(TMP\_36) = 1 TMP\_37 = 1 not(TMP\_37) = 0 TMP\_38 = 3 TMP\_39 = 0 not(TMP\_39) = 1 TMP\_40 = 0 not(TMP\_40) = 1 TMP\_41 = 0 TMP\_42 = 1 not(TMP\_42) = 0 TMP\_43 = 1 not(TMP\_43) = 0 TMP\_44 = 2 TMP\_45 = 0 not(TMP\_45) = 1 TMP\_46 = 0 not(TMP\_46) = 1 TMP\_47 = 1 not(TMP\_47) = 0 TMP\_48 = 1 not(TMP\_48) = 0 TMP\_49 = 1 not(TMP\_49) = 0 TMP\_50 = 2 TMP\_51 = 1 not(TMP\_51) = 0 TMP\_52 = 1 not(TMP\_52) = 0 TMP\_53 = 0 not(TMP\_53) = 1 TMP\_54 = 1 not(TMP\_54) = 0 TMP\_55 = 3 TMP\_56 = 0 not(TMP\_56) = 1 TMP\_57 = 0 not(TMP\_57) = 1 TMP\_58 = 0 TMP\_59 = 1 not(TMP\_59) = 0 TMP\_60 = 1 not(TMP\_60) = 0 TMP\_61 = 2 TMP\_62 = 0 not(TMP\_62) = 1 TMP\_63 = 0 not(TMP\_63) = 1 TMP\_64 = 1 not(TMP\_64) = 0 TMP\_65 = 1 not(TMP\_65) = 0 TMP\_66 = 1 not(TMP\_66) = 0 TMP\_67 = 2 TMP\_68 = 0 not(TMP\_68) = 1 TMP\_69 = 1 not(TMP\_69) = 0 TMP\_70 = 1 not(TMP\_70) = 0 TMP\_71 = 1 not(TMP\_71) = 0 TMP\_72 = 3 TMP\_73 = 0 not(TMP\_73) = 1 TMP\_74 = 0 not(TMP\_74) = 1 TMP\_75 = 0 TMP\_76 = 1 not(TMP\_76) = 0 TMP\_77 = 1 not(TMP\_77) = 0 TMP\_78 = 2 TMP\_79 = 0 not(TMP\_79) = 1 TMP\_80 = 0 not(TMP\_80) = 1 TMP\_81 = 1 not(TMP\_81) = 0 TMP\_82 = 1 not(TMP\_82) = 0 TMP\_83 = 1 not(TMP\_83) = 0 TMP\_84 = 2 TMP\_85 = 0 not(TMP\_85) = 1 TMP\_86 = 1 not(TMP\_86) = 0 TMP\_87 = 1 not(TMP\_87) = 0 TMP\_88 = 1 not(TMP\_88) = 0 TMP\_89 = 3 TMP\_90 = 0 not(TMP\_90) = 1 TMP\_91 = 0 not(TMP\_91) = 1 TMP\_92 = 0 TMP\_93 = 1 not(TMP\_93) = 0 TMP\_94 = 1 not(TMP\_94) = 0 TMP\_95 = 2 TMP\_96 = 0 not(TMP\_96) = 1 TMP\_97 = 0 not(TMP\_97) = 1 TMP\_98 = 1 not(TMP\_98) = 0 TMP\_99 = 1 not(TMP\_99) = 0 TMP\_100 = 1 not(TMP\_100) = 0 TMP\_101 = 2 TMP\_102 = 0 not(TMP\_102) = 1 TMP\_103 = 1 not(TMP\_103) = 0 TMP\_104 = 1 not(TMP\_104) = 0 TMP\_105 = 0 not(TMP\_105) = 1 TMP\_106 = 2 TMP\_107 = 0 not(TMP\_107) = 1 TMP\_108 = 0 not(TMP\_108) = 1 TMP\_109 = 0 TMP\_110 = 1 not(TMP\_110) = 0 TMP\_111 = 1 not(TMP\_111) = 0 TMP\_112 = 2 TMP\_113 = 0 not(TMP\_113) = 1 TMP\_114 = 0 not(TMP\_114) = 1 TMP\_115 = 1 not(TMP\_115) = 0 TMP\_116 = 1 not(TMP\_116) = 0 TMP\_117 = 1 not(TMP\_117) = 0 TMP\_118 = 2 TMP\_119 = 1 not(TMP\_119) = 0 TMP\_120 = 1 not(TMP\_120) = 0 TMP\_121 = 1 not(TMP\_121) = 0 TMP\_122 = 0 not(TMP\_122) = 1 TMP\_123 = 3 TMP\_124 = 0 not(TMP\_124) = 1 TMP\_125 = 0 not(TMP\_125) = 1 TMP\_126 = 0 TMP\_127 = 1 not(TMP\_127) = 0 TMP\_128 = 1 not(TMP\_128) = 0 TMP\_129 = 2 TMP\_130 = 0 not(TMP\_130) = 1 TMP\_131 = 0 not(TMP\_131) = 1 TMP\_132 = 1 not(TMP\_132) = 0 TMP\_133 = 1 not(TMP\_133) = 0 TMP\_134 = 1 not(TMP\_134) = 0 TMP\_135 = 2 TMP\_136 = 0 not(TMP\_136) = 1 TMP\_137 = 1 not(TMP\_137) = 0 TMP\_138 = 1 not(TMP\_138) = 0 TMP\_139 = 1 not(TMP\_139) = 0 TMP\_140 = 3 TMP\_141 = 0 not(TMP\_141) = 1 TMP\_142 = 0 not(TMP\_142) = 1 TMP\_143 = 0 TMP\_144 = 1 not(TMP\_144) = 0 TMP\_145 = 1 not(TMP\_145) = 0 TMP\_146 = 2 TMP\_147 = 0 not(TMP\_147) = 1 TMP\_148 = 0 not(TMP\_148) = 1 TMP\_149 = 1 not(TMP\_149) = 0 TMP\_150 = 1 not(TMP\_150) = 0 TMP\_151 = 1 not(TMP\_151) = 0 TMP\_152 = 2 TMP\_153 = 0 not(TMP\_153) = 1 TMP\_154 = 1 not(TMP\_154) = 0 TMP\_155 = 1 not(TMP\_155) = 0 TMP\_156 = 0 not(TMP\_156) = 1 TMP\_157 = 2 TMP\_158 = 0 not(TMP\_158) = 1 TMP\_159 = 0 not(TMP\_159) = 1 TMP\_160 = 0 TMP\_161 = 1 not(TMP\_161) = 0 TMP\_162 = 1 not(TMP\_162) = 0 TMP\_163 = 2 TMP\_164 = 0 not(TMP\_164) = 1 TMP\_165 = 0 not(TMP\_165) = 1 TMP\_166 = 1 not(TMP\_166) = 0 TMP\_167 = 1 not(TMP\_167) = 0 TMP\_168 = 1 not(TMP\_168) = 0 TMP\_169 = 2 TMP\_170 = 1 not(TMP\_170) = 0 TMP\_171 = 1 not(TMP\_171) = 0 TMP\_172 = 0 not(TMP\_172) = 1 TMP\_173 = 1 not(TMP\_173) = 0 TMP\_174 = 3 TMP\_175 = 0 not(TMP\_175) = 1 TMP\_176 = 0 not(TMP\_176) = 1 TMP\_177 = 0 TMP\_178 = 1 not(TMP\_178) = 0 TMP\_179 = 1 not(TMP\_179) = 0 TMP\_180 = 2 TMP\_181 = 0 not(TMP\_181) = 1 TMP\_182 = 0 not(TMP\_182) = 1 TMP\_183 = 1 not(TMP\_183) = 0 TMP\_184 = 1 not(TMP\_184) = 0 TMP\_185 = 1 not(TMP\_185) = 0 TMP\_186 = 2 TMP\_187 = 1 not(TMP\_187) = 0 TMP\_188 = 1 not(TMP\_188) = 0 TMP\_189 = 1 not(TMP\_189) = 0 TMP\_190 = 0 not(TMP\_190) = 1 TMP\_191 = 3 TMP\_192 = 0 not(TMP\_192) = 1 TMP\_193 = 0 not(TMP\_193) = 1 TMP\_194 = 0 TMP\_195 = 1 not(TMP\_195) = 0 TMP\_196 = 1 not(TMP\_196) = 0 TMP\_197 = 2 TMP\_198 = 0 not(TMP\_198) = 1 TMP\_199 = 0 not(TMP\_199) = 1 TMP\_200 = 1 not(TMP\_200) = 0 TMP\_201 = 1 not(TMP\_201) = 0 TMP\_202 = 1 not(TMP\_202) = 0 TMP\_203 = 2 TMP\_204 = 1 not(TMP\_204) = 0 TMP\_205 = 1 not(TMP\_205) = 0 TMP\_206 = 1 not(TMP\_206) = 0 TMP\_207 = 0 not(TMP\_207) = 1 TMP\_208 = 3 TMP\_209 = 0 not(TMP\_209) = 1 TMP\_210 = 0 not(TMP\_210) = 1 TMP\_211 = 0 TMP\_212 = 1 not(TMP\_212) = 0 TMP\_213 = 1 not(TMP\_213) = 0 TMP\_214 = 2 TMP\_215 = 0 not(TMP\_215) = 1 TMP\_216 = 0 not(TMP\_216) = 1 TMP\_217 = 1 not(TMP\_217) = 0 TMP\_218 = 1 not(TMP\_218) = 0 TMP\_219 = 1 not(TMP\_219) = 0 TMP\_220 = 2 TMP\_221 = 1 not(TMP\_221) = 0 TMP\_222 = 0 not(TMP\_222) = 1 TMP\_223 = 1 not(TMP\_223) = 0 TMP\_224 = 1 not(TMP\_224) = 0 TMP\_225 = 3 TMP\_226 = 0 not(TMP\_226) = 1 TMP\_227 = 0 not(TMP\_227) = 1 TMP\_228 = 0 TMP\_229 = 1 not(TMP\_229) = 0 TMP\_230 = 1 not(TMP\_230) = 0 TMP\_231 = 2 TMP\_232 = 0 not(TMP\_232) = 1 TMP\_233 = 0 not(TMP\_233) = 1 TMP\_234 = 1 not(TMP\_234) = 0 TMP\_235 = 1 not(TMP\_235) = 0 TMP\_236 = 1 not(TMP\_236) = 0 TMP\_237 = 2 TMP\_238 = 1 not(TMP\_238) = 0 TMP\_239 = 1 not(TMP\_239) = 0 TMP\_240 = 1 not(TMP\_240) = 0 TMP\_241 = 0 not(TMP\_241) = 1 TMP\_242 = 3 TMP\_243 = 0 not(TMP\_243) = 1 TMP\_244 = 0 not(TMP\_244) = 1 TMP\_245 = 0 TMP\_246 = 1 not(TMP\_246) = 0 TMP\_247 = 1 not(TMP\_247) = 0 TMP\_248 = 2 TMP\_249 = 0 not(TMP\_249) = 1 TMP\_250 = 0 not(TMP\_250) = 1 TMP\_251 = 1 not(TMP\_251) = 0 TMP\_252 = 1 not(TMP\_252) = 0 TMP\_253 = 1 not(TMP\_253) = 0 TMP\_254 = 2 TMP\_255 = 1 not(TMP\_255) = 0 TMP\_256 = 1 not(TMP\_256) = 0 TMP\_257 = 0 not(TMP\_257) = 1 TMP\_258 = 1 not(TMP\_258) = 0 TMP\_259 = 3 TMP\_260 = 0 not(TMP\_260) = 1 TMP\_261 = 0 not(TMP\_261) = 1 TMP\_262 = 0 TMP\_263 = 1 not(TMP\_263) = 0 TMP\_264 = 1 not(TMP\_264) = 0 TMP\_265 = 2 TMP\_266 = 0 not(TMP\_266) = 1 TMP\_267 = 0 not(TMP\_267) = 1 TMP\_268 = 1 not(TMP\_268) = 0 TMP\_269 = 1 not(TMP\_269) = 0 TMP\_270 = 1 not(TMP\_270) = 0 TMP\_271 = 2 TMP\_272 = 1 not(TMP\_272) = 0 TMP\_273 = 0 not(TMP\_273) = 1 TMP\_274 = 1 not(TMP\_274) = 0 TMP\_275 = 1 not(TMP\_275) = 0 TMP\_276 = 3 TMP\_277 = 0 not(TMP\_277) = 1 TMP\_278 = 0 not(TMP\_278) = 1 TMP\_279 = 0 TMP\_280 = 1 not(TMP\_280) = 0 TMP\_281 = 1 not(TMP\_281) = 0 TMP\_282 = 2 TMP\_283 = 0 not(TMP\_283) = 1 TMP\_284 = 0 not(TMP\_284) = 1 TMP\_285 = 1 not(TMP\_285) = 0 TMP\_286 = 1 not(TMP\_286) = 0 TMP\_287 = 1 not(TMP\_287) = 0 TMP\_288 = 2 TMP\_289 = 1 not(TMP\_289) = 0 TMP\_290 = 0 not(TMP\_290) = 1 TMP\_291 = 1 not(TMP\_291) = 0 TMP\_292 = 1 not(TMP\_292) = 0 TMP\_293 = 3 TMP\_294 = 0 not(TMP\_294) = 1 TMP\_295 = 0 not(TMP\_295) = 1 TMP\_296 = 0 TMP\_297 = 1 not(TMP\_297) = 0 TMP\_298 = 1 not(TMP\_298) = 0 TMP\_299 = 2 TMP\_300 = 0 not(TMP\_300) = 1 TMP\_301 = 0 not(TMP\_301) = 1 TMP\_302 = 1 not(TMP\_302) = 0 TMP\_303 = 1 not(TMP\_303) = 0 TMP\_304 = 1 not(TMP\_304) = 0 TMP\_305 = 2 TMP\_306 = 1 not(TMP\_306) = 0 TMP\_307 = 0 not(TMP\_307) = 1 TMP\_308 = 0 not(TMP\_308) = 1 TMP\_309 = 1 not(TMP\_309) = 0 TMP\_310 = 2 TMP\_311 = 0 not(TMP\_311) = 1 TMP\_312 = 0 not(TMP\_312) = 1 TMP\_313 = 0 TMP\_314 = 1 not(TMP\_314) = 0 TMP\_315 = 1 not(TMP\_315) = 0 TMP\_316 = 2 TMP\_317 = 0 not(TMP\_317) = 1 TMP\_318 = 0 not(TMP\_318) = 1 TMP\_319 = 1 not(TMP\_319) = 0 TMP\_320 = 1 not(TMP\_320) = 0 TMP\_321 = 1 not(TMP\_321) = 0 TMP\_322 = 2 TMP\_323 = 1 not(TMP\_323) = 0 TMP\_324 = 1 not(TMP\_324) = 0 TMP\_325 = 0 not(TMP\_325) = 1 TMP\_326 = 1 not(TMP\_326) = 0 TMP\_327 = 3 TMP\_328 = 0 not(TMP\_328) = 1 TMP\_329 = 0 not(TMP\_329) = 1 TMP\_330 = 0 TMP\_331 = 1 not(TMP\_331) = 0 TMP\_332 = 1 not(TMP\_332) = 0 TMP\_333 = 2 TMP\_334 = 0 not(TMP\_334) = 1 TMP\_335 = 0 not(TMP\_335) = 1 TMP\_336 = 1 not(TMP\_336) = 0 TMP\_337 = 1 not(TMP\_337) = 0 TMP\_338 = 1 not(TMP\_338) = 0 TMP\_339 = 2 Area\_0 = 10000 Distance\_0\_Rule\_0 = 100 Distance\_1\_Rule\_0 = 100 Area\_1 = 5000 Distance\_0\_Rule\_1 = 50 Distance\_1\_Rule\_1 = 100 Area\_2 = 17500 -(Rule\_2\_LB) = -75 Distance\_0\_Rule\_2 = 175 -(Rule\_2\_LB) = -400 Distance\_1\_Rule\_2 = 100 Area\_3 = 60000 -(Rule\_3\_LB) = -100 Distance\_0\_Rule\_3 = 150 -(Rule\_3\_LB) = 0 Distance\_1\_Rule\_3 = 400 Area\_4 = 30000 -(Rule\_4\_LB) = 0 Distance\_0\_Rule\_4 = 100 -(Rule\_4\_LB) = -100 Distance\_1\_Rule\_4 = 300 Area\_5 = 2500 -(Rule\_5\_LB) = 0 Distance\_0\_Rule\_5 = 25 -(Rule\_5\_LB) = -400 Distance\_1\_Rule\_5 = 100 TMP\_340 = 125000 .

- Solution #11 found. 11 Solutions, Resolution 659.440s, 5676656 Nodes (8,608.3 n/s), 11352851 Backtracks, 5676624 Fails, 0 Restarts

Rule\_2\_LB = 75 Rule\_2\_UB = 250 Rule\_2\_LB = 400 Rule\_2\_UB = 500 Rule\_3\_LB = 100 Rule\_3\_UB = 250 Rule\_3\_LB = 0 Rule\_3\_UB = 400 Rule\_4\_LB = 0 Rule\_4\_UB = 100 Rule\_4\_LB = 100 Rule\_4\_UB = 400 Rule\_5\_LB = 0 Rule\_5\_UB = 25 Rule\_5\_LB = 400 Rule\_5\_UB = 500 Overlaps\_0\_0 = 0 Overlaps\_0\_1 = 0 Overlaps\_0\_2 = 0 Overlaps\_0\_3 = 0 Overlaps\_0\_4 = 0 Overlaps\_0\_5 = 0 Overlaps\_1\_0 = 1 Overlaps\_1\_1 = 0 Overlaps\_1\_2 = 0 Overlaps\_1\_3 = 0 Overlaps\_1\_4 = 0 Overlaps\_1\_5 = 0 Overlaps\_2\_0 = 0 Overlaps\_2\_1 = 0 Overlaps\_2\_2 = 0 Overlaps\_2\_3 = 0 Overlaps\_2\_4 = 0 Overlaps\_2\_5 = 0 Overlaps\_3\_0 = 0 Overlaps\_3\_1 = 0 Overlaps\_3\_2 = 0 Overlaps\_3\_3 = 0 Overlaps\_3\_4 = 0 Overlaps\_3\_5 = 0 Overlaps\_4\_0 = 0 Overlaps\_4\_1 = 0 Overlaps\_4\_2 = 0 Overlaps\_4\_3 = 0 Overlaps\_4\_4 = 0 Overlaps\_4\_5 = 0 Overlaps\_5\_0 = 0 Overlaps\_5\_1 = 0 Overlaps\_5\_2 = 0 Overlaps\_5\_3 = 0 Overlaps\_5\_4 = 0 Overlaps\_5\_5 = 0 TMP\_0 = 1 not(TMP\_0) = 0 TMP\_1 = 1 not(TMP\_1) = 0 TMP\_2 = 0 not(TMP\_2) = 1 TMP\_3 = 1 not(TMP\_3) = 0 TMP\_4 = 3 TMP\_5 = 0 not(TMP\_5) = 1 TMP\_6 = 0 not(TMP\_6) = 1 TMP\_7 = 0 TMP\_8 = 1 not(TMP\_8) = 0 TMP\_9 = 1 not(TMP\_9) = 0 TMP\_10 = 2 TMP\_11 = 0 not(TMP\_11) = 1 TMP\_12 = 0 not(TMP\_12) = 1 TMP\_13 = 1 not(TMP\_13) = 0 TMP\_14 = 1 not(TMP\_14) = 0 TMP\_15 = 1 not(TMP\_15) = 0 TMP\_16 = 2 TMP\_17 = 0 not(TMP\_17) = 1 TMP\_18 = 1 not(TMP\_18) = 0 TMP\_19 = 1 not(TMP\_19) = 0 TMP\_20 = 1 not(TMP\_20) = 0 TMP\_21 = 3 TMP\_22 = 0 not(TMP\_22) = 1 TMP\_23 = 0 not(TMP\_23) = 1 TMP\_24 = 0 TMP\_25 = 1 not(TMP\_25) = 0 TMP\_26 = 1 not(TMP\_26) = 0 TMP\_27 = 2 TMP\_28 = 0 not(TMP\_28) = 1 TMP\_29 = 0 not(TMP\_29) = 1 TMP\_30 = 1 not(TMP\_30) = 0 TMP\_31 = 1 not(TMP\_31) = 0 TMP\_32 = 1 not(TMP\_32) = 0 TMP\_33 = 2 TMP\_34 = 1 not(TMP\_34) = 0 TMP\_35 = 1 not(TMP\_35) = 0 TMP\_36 = 0 not(TMP\_36) = 1 TMP\_37 = 1 not(TMP\_37) = 0 TMP\_38 = 3 TMP\_39 = 0 not(TMP\_39) = 1 TMP\_40 = 0 not(TMP\_40) = 1 TMP\_41 = 0 TMP\_42 = 1 not(TMP\_42) = 0 TMP\_43 = 1 not(TMP\_43) = 0 TMP\_44 = 2 TMP\_45 = 0 not(TMP\_45) = 1 TMP\_46 = 0 not(TMP\_46) = 1 TMP\_47 = 1 not(TMP\_47) = 0 TMP\_48 = 1 not(TMP\_48) = 0 TMP\_49 = 1 not(TMP\_49) = 0 TMP\_50 = 2 TMP\_51 = 1 not(TMP\_51) = 0 TMP\_52 = 1 not(TMP\_52) = 0 TMP\_53 = 0 not(TMP\_53) = 1 TMP\_54 = 1 not(TMP\_54) = 0 TMP\_55 = 3 TMP\_56 = 0 not(TMP\_56) = 1 TMP\_57 = 0 not(TMP\_57) = 1 TMP\_58 = 0 TMP\_59 = 1 not(TMP\_59) = 0 TMP\_60 = 1 not(TMP\_60) = 0 TMP\_61 = 2 TMP\_62 = 0 not(TMP\_62) = 1 TMP\_63 = 0 not(TMP\_63) = 1 TMP\_64 = 1 not(TMP\_64) = 0 TMP\_65 = 1 not(TMP\_65) = 0 TMP\_66 = 1 not(TMP\_66) = 0 TMP\_67 = 2 TMP\_68 = 0 not(TMP\_68) = 1 TMP\_69 = 1 not(TMP\_69) = 0 TMP\_70 = 1 not(TMP\_70) = 0 TMP\_71 = 1 not(TMP\_71) = 0 TMP\_72 = 3 TMP\_73 = 0 not(TMP\_73) = 1 TMP\_74 = 0 not(TMP\_74) = 1 TMP\_75 = 0 TMP\_76 = 1 not(TMP\_76) = 0 TMP\_77 = 1 not(TMP\_77) = 0 TMP\_78 = 2 TMP\_79 = 0 not(TMP\_79) = 1 TMP\_80 = 0 not(TMP\_80) = 1 TMP\_81 = 1 not(TMP\_81) = 0 TMP\_82 = 1 not(TMP\_82) = 0 TMP\_83 = 1 not(TMP\_83) = 0 TMP\_84 = 2 TMP\_85 = 0 not(TMP\_85) = 1 TMP\_86 = 1 not(TMP\_86) = 0 TMP\_87 = 1 not(TMP\_87) = 0 TMP\_88 = 1 not(TMP\_88) = 0 TMP\_89 = 3 TMP\_90 = 0 not(TMP\_90) = 1 TMP\_91 = 0 not(TMP\_91) = 1 TMP\_92 = 0 TMP\_93 = 1 not(TMP\_93) = 0 TMP\_94 = 1 not(TMP\_94) = 0 TMP\_95 = 2 TMP\_96 = 0 not(TMP\_96) = 1 TMP\_97 = 0 not(TMP\_97) = 1 TMP\_98 = 1 not(TMP\_98) = 0 TMP\_99 = 1 not(TMP\_99) = 0 TMP\_100 = 1 not(TMP\_100) = 0 TMP\_101 = 2 TMP\_102 = 0 not(TMP\_102) = 1 TMP\_103 = 1 not(TMP\_103) = 0 TMP\_104 = 1 not(TMP\_104) = 0 TMP\_105 = 0 not(TMP\_105) = 1 TMP\_106 = 2 TMP\_107 = 0 not(TMP\_107) = 1 TMP\_108 = 0 not(TMP\_108) = 1 TMP\_109 = 0 TMP\_110 = 1 not(TMP\_110) = 0 TMP\_111 = 1 not(TMP\_111) = 0 TMP\_112 = 2 TMP\_113 = 0 not(TMP\_113) = 1 TMP\_114 = 0 not(TMP\_114) = 1 TMP\_115 = 1 not(TMP\_115) = 0 TMP\_116 = 1 not(TMP\_116) = 0 TMP\_117 = 1 not(TMP\_117) = 0 TMP\_118 = 2 TMP\_119 = 1 not(TMP\_119) = 0 TMP\_120 = 1 not(TMP\_120) = 0 TMP\_121 = 1 not(TMP\_121) = 0 TMP\_122 = 0 not(TMP\_122) = 1 TMP\_123 = 3 TMP\_124 = 0 not(TMP\_124) = 1 TMP\_125 = 0 not(TMP\_125) = 1 TMP\_126 = 0 TMP\_127 = 1 not(TMP\_127) = 0 TMP\_128 = 1 not(TMP\_128) = 0 TMP\_129 = 2 TMP\_130 = 0 not(TMP\_130) = 1 TMP\_131 = 0 not(TMP\_131) = 1 TMP\_132 = 1 not(TMP\_132) = 0 TMP\_133 = 1 not(TMP\_133) = 0 TMP\_134 = 1 not(TMP\_134) = 0 TMP\_135 = 2 TMP\_136 = 0 not(TMP\_136) = 1 TMP\_137 = 1 not(TMP\_137) = 0 TMP\_138 = 1 not(TMP\_138) = 0 TMP\_139 = 1 not(TMP\_139) = 0 TMP\_140 = 3 TMP\_141 = 0 not(TMP\_141) = 1 TMP\_142 = 0 not(TMP\_142) = 1 TMP\_143 = 0 TMP\_144 = 1 not(TMP\_144) = 0 TMP\_145 = 1 not(TMP\_145) = 0 TMP\_146 = 2 TMP\_147 = 0 not(TMP\_147) = 1 TMP\_148 = 0 not(TMP\_148) = 1 TMP\_149 = 1 not(TMP\_149) = 0 TMP\_150 = 1 not(TMP\_150) = 0 TMP\_151 = 1 not(TMP\_151) = 0 TMP\_152 = 2 TMP\_153 = 0 not(TMP\_153) = 1 TMP\_154 = 1 not(TMP\_154) = 0 TMP\_155 = 1 not(TMP\_155) = 0 TMP\_156 = 0 not(TMP\_156) = 1 TMP\_157 = 2 TMP\_158 = 0 not(TMP\_158) = 1 TMP\_159 = 0 not(TMP\_159) = 1 TMP\_160 = 0 TMP\_161 = 1 not(TMP\_161) = 0 TMP\_162 = 1 not(TMP\_162) = 0 TMP\_163 = 2 TMP\_164 = 0 not(TMP\_164) = 1 TMP\_165 = 0 not(TMP\_165) = 1 TMP\_166 = 1 not(TMP\_166) = 0 TMP\_167 = 1 not(TMP\_167) = 0 TMP\_168 = 1 not(TMP\_168) = 0 TMP\_169 = 2 TMP\_170 = 1 not(TMP\_170) = 0 TMP\_171 = 1 not(TMP\_171) = 0 TMP\_172 = 0 not(TMP\_172) = 1 TMP\_173 = 1 not(TMP\_173) = 0 TMP\_174 = 3 TMP\_175 = 0 not(TMP\_175) = 1 TMP\_176 = 0 not(TMP\_176) = 1 TMP\_177 = 0 TMP\_178 = 1 not(TMP\_178) = 0 TMP\_179 = 1 not(TMP\_179) = 0 TMP\_180 = 2 TMP\_181 = 0 not(TMP\_181) = 1 TMP\_182 = 0 not(TMP\_182) = 1 TMP\_183 = 1 not(TMP\_183) = 0 TMP\_184 = 1 not(TMP\_184) = 0 TMP\_185 = 1 not(TMP\_185) = 0 TMP\_186 = 2 TMP\_187 = 1 not(TMP\_187) = 0 TMP\_188 = 1 not(TMP\_188) = 0 TMP\_189 = 1 not(TMP\_189) = 0 TMP\_190 = 0 not(TMP\_190) = 1 TMP\_191 = 3 TMP\_192 = 0 not(TMP\_192) = 1 TMP\_193 = 0 not(TMP\_193) = 1 TMP\_194 = 0 TMP\_195 = 1 not(TMP\_195) = 0 TMP\_196 = 1 not(TMP\_196) = 0 TMP\_197 = 2 TMP\_198 = 0 not(TMP\_198) = 1 TMP\_199 = 0 not(TMP\_199) = 1 TMP\_200 = 1 not(TMP\_200) = 0 TMP\_201 = 1 not(TMP\_201) = 0 TMP\_202 = 1 not(TMP\_202) = 0 TMP\_203 = 2 TMP\_204 = 1 not(TMP\_204) = 0 TMP\_205 = 1 not(TMP\_205) = 0 TMP\_206 = 1 not(TMP\_206) = 0 TMP\_207 = 0 not(TMP\_207) = 1 TMP\_208 = 3 TMP\_209 = 0 not(TMP\_209) = 1 TMP\_210 = 0 not(TMP\_210) = 1 TMP\_211 = 0 TMP\_212 = 1 not(TMP\_212) = 0 TMP\_213 = 1 not(TMP\_213) = 0 TMP\_214 = 2 TMP\_215 = 0 not(TMP\_215) = 1 TMP\_216 = 0 not(TMP\_216) = 1 TMP\_217 = 1 not(TMP\_217) = 0 TMP\_218 = 1 not(TMP\_218) = 0 TMP\_219 = 1 not(TMP\_219) = 0 TMP\_220 = 2 TMP\_221 = 1 not(TMP\_221) = 0 TMP\_222 = 0 not(TMP\_222) = 1 TMP\_223 = 1 not(TMP\_223) = 0 TMP\_224 = 1 not(TMP\_224) = 0 TMP\_225 = 3 TMP\_226 = 0 not(TMP\_226) = 1 TMP\_227 = 0 not(TMP\_227) = 1 TMP\_228 = 0 TMP\_229 = 1 not(TMP\_229) = 0 TMP\_230 = 1 not(TMP\_230) = 0 TMP\_231 = 2 TMP\_232 = 0 not(TMP\_232) = 1 TMP\_233 = 0 not(TMP\_233) = 1 TMP\_234 = 1 not(TMP\_234) = 0 TMP\_235 = 1 not(TMP\_235) = 0 TMP\_236 = 1 not(TMP\_236) = 0 TMP\_237 = 2 TMP\_238 = 1 not(TMP\_238) = 0 TMP\_239 = 1 not(TMP\_239) = 0 TMP\_240 = 1 not(TMP\_240) = 0 TMP\_241 = 0 not(TMP\_241) = 1 TMP\_242 = 3 TMP\_243 = 0 not(TMP\_243) = 1 TMP\_244 = 0 not(TMP\_244) = 1 TMP\_245 = 0 TMP\_246 = 1 not(TMP\_246) = 0 TMP\_247 = 1 not(TMP\_247) = 0 TMP\_248 = 2 TMP\_249 = 0 not(TMP\_249) = 1 TMP\_250 = 0 not(TMP\_250) = 1 TMP\_251 = 1 not(TMP\_251) = 0 TMP\_252 = 1 not(TMP\_252) = 0 TMP\_253 = 1 not(TMP\_253) = 0 TMP\_254 = 2 TMP\_255 = 1 not(TMP\_255) = 0 TMP\_256 = 1 not(TMP\_256) = 0 TMP\_257 = 0 not(TMP\_257) = 1 TMP\_258 = 1 not(TMP\_258) = 0 TMP\_259 = 3 TMP\_260 = 0 not(TMP\_260) = 1 TMP\_261 = 0 not(TMP\_261) = 1 TMP\_262 = 0 TMP\_263 = 1 not(TMP\_263) = 0 TMP\_264 = 1 not(TMP\_264) = 0 TMP\_265 = 2 TMP\_266 = 0 not(TMP\_266) = 1 TMP\_267 = 0 not(TMP\_267) = 1 TMP\_268 = 1 not(TMP\_268) = 0 TMP\_269 = 1 not(TMP\_269) = 0 TMP\_270 = 1 not(TMP\_270) = 0 TMP\_271 = 2 TMP\_272 = 1 not(TMP\_272) = 0 TMP\_273 = 0 not(TMP\_273) = 1 TMP\_274 = 1 not(TMP\_274) = 0 TMP\_275 = 1 not(TMP\_275) = 0 TMP\_276 = 3 TMP\_277 = 0 not(TMP\_277) = 1 TMP\_278 = 0 not(TMP\_278) = 1 TMP\_279 = 0 TMP\_280 = 1 not(TMP\_280) = 0 TMP\_281 = 1 not(TMP\_281) = 0 TMP\_282 = 2 TMP\_283 = 0 not(TMP\_283) = 1 TMP\_284 = 0 not(TMP\_284) = 1 TMP\_285 = 1 not(TMP\_285) = 0 TMP\_286 = 1 not(TMP\_286) = 0 TMP\_287 = 1 not(TMP\_287) = 0 TMP\_288 = 2 TMP\_289 = 1 not(TMP\_289) = 0 TMP\_290 = 0 not(TMP\_290) = 1 TMP\_291 = 1 not(TMP\_291) = 0 TMP\_292 = 1 not(TMP\_292) = 0 TMP\_293 = 3 TMP\_294 = 0 not(TMP\_294) = 1 TMP\_295 = 0 not(TMP\_295) = 1 TMP\_296 = 0 TMP\_297 = 1 not(TMP\_297) = 0 TMP\_298 = 1 not(TMP\_298) = 0 TMP\_299 = 2 TMP\_300 = 0 not(TMP\_300) = 1 TMP\_301 = 0 not(TMP\_301) = 1 TMP\_302 = 1 not(TMP\_302) = 0 TMP\_303 = 1 not(TMP\_303) = 0 TMP\_304 = 1 not(TMP\_304) = 0 TMP\_305 = 2 TMP\_306 = 1 not(TMP\_306) = 0 TMP\_307 = 0 not(TMP\_307) = 1 TMP\_308 = 0 not(TMP\_308) = 1 TMP\_309 = 1 not(TMP\_309) = 0 TMP\_310 = 2 TMP\_311 = 0 not(TMP\_311) = 1 TMP\_312 = 0 not(TMP\_312) = 1 TMP\_313 = 0 TMP\_314 = 1 not(TMP\_314) = 0 TMP\_315 = 1 not(TMP\_315) = 0 TMP\_316 = 2 TMP\_317 = 0 not(TMP\_317) = 1 TMP\_318 = 0 not(TMP\_318) = 1 TMP\_319 = 1 not(TMP\_319) = 0 TMP\_320 = 1 not(TMP\_320) = 0 TMP\_321 = 1 not(TMP\_321) = 0 TMP\_322 = 2 TMP\_323 = 1 not(TMP\_323) = 0 TMP\_324 = 1 not(TMP\_324) = 0 TMP\_325 = 0 not(TMP\_325) = 1 TMP\_326 = 1 not(TMP\_326) = 0 TMP\_327 = 3 TMP\_328 = 0 not(TMP\_328) = 1 TMP\_329 = 0 not(TMP\_329) = 1 TMP\_330 = 0 TMP\_331 = 1 not(TMP\_331) = 0 TMP\_332 = 1 not(TMP\_332) = 0 TMP\_333 = 2 TMP\_334 = 0 not(TMP\_334) = 1 TMP\_335 = 0 not(TMP\_335) = 1 TMP\_336 = 1 not(TMP\_336) = 0 TMP\_337 = 1 not(TMP\_337) = 0 TMP\_338 = 1 not(TMP\_338) = 0 TMP\_339 = 2 Area\_0 = 10000 Distance\_0\_Rule\_0 = 100 Distance\_1\_Rule\_0 = 100 Area\_1 = 5000 Distance\_0\_Rule\_1 = 50 Distance\_1\_Rule\_1 = 100 Area\_2 = 17500 -(Rule\_2\_LB) = -75 Distance\_0\_Rule\_2 = 175 -(Rule\_2\_LB) = -400 Distance\_1\_Rule\_2 = 100 Area\_3 = 60000 -(Rule\_3\_LB) = -100 Distance\_0\_Rule\_3 = 150 -(Rule\_3\_LB) = 0 Distance\_1\_Rule\_3 = 400 Area\_4 = 30000 -(Rule\_4\_LB) = 0 Distance\_0\_Rule\_4 = 100 -(Rule\_4\_LB) = -100 Distance\_1\_Rule\_4 = 300 Area\_5 = 2500 -(Rule\_5\_LB) = 0 Distance\_0\_Rule\_5 = 25 -(Rule\_5\_LB) = -400 Distance\_1\_Rule\_5 = 100 TMP\_340 = 125000 .

- Solution #12 found. 12 Solutions, Resolution 659.447s, 5676657 Nodes (8,608.2 n/s), 11352852 Backtracks, 5676624 Fails, 0 Restarts

Rule\_2\_LB = 75 Rule\_2\_UB = 250 Rule\_2\_LB = 400 Rule\_2\_UB = 500 Rule\_3\_LB = 100 Rule\_3\_UB = 250 Rule\_3\_LB = 0 Rule\_3\_UB = 400 Rule\_4\_LB = 0 Rule\_4\_UB = 100 Rule\_4\_LB = 100 Rule\_4\_UB = 400 Rule\_5\_LB = 0 Rule\_5\_UB = 25 Rule\_5\_LB = 400 Rule\_5\_UB = 500 Overlaps\_0\_0 = 0 Overlaps\_0\_1 = 1 Overlaps\_0\_2 = 0 Overlaps\_0\_3 = 0 Overlaps\_0\_4 = 0 Overlaps\_0\_5 = 0 Overlaps\_1\_0 = 1 Overlaps\_1\_1 = 0 Overlaps\_1\_2 = 0 Overlaps\_1\_3 = 0 Overlaps\_1\_4 = 0 Overlaps\_1\_5 = 0 Overlaps\_2\_0 = 0 Overlaps\_2\_1 = 0 Overlaps\_2\_2 = 0 Overlaps\_2\_3 = 0 Overlaps\_2\_4 = 0 Overlaps\_2\_5 = 0 Overlaps\_3\_0 = 0 Overlaps\_3\_1 = 0 Overlaps\_3\_2 = 0 Overlaps\_3\_3 = 0 Overlaps\_3\_4 = 0 Overlaps\_3\_5 = 0 Overlaps\_4\_0 = 0 Overlaps\_4\_1 = 0 Overlaps\_4\_2 = 0 Overlaps\_4\_3 = 0 Overlaps\_4\_4 = 0 Overlaps\_4\_5 = 0 Overlaps\_5\_0 = 0 Overlaps\_5\_1 = 0 Overlaps\_5\_2 = 0 Overlaps\_5\_3 = 0 Overlaps\_5\_4 = 0 Overlaps\_5\_5 = 0 TMP\_0 = 1 not(TMP\_0) = 0 TMP\_1 = 1 not(TMP\_1) = 0 TMP\_2 = 0 not(TMP\_2) = 1 TMP\_3 = 1 not(TMP\_3) = 0 TMP\_4 = 3 TMP\_5 = 0 not(TMP\_5) = 1 TMP\_6 = 0 not(TMP\_6) = 1 TMP\_7 = 0 TMP\_8 = 1 not(TMP\_8) = 0 TMP\_9 = 1 not(TMP\_9) = 0 TMP\_10 = 2 TMP\_11 = 0 not(TMP\_11) = 1 TMP\_12 = 0 not(TMP\_12) = 1 TMP\_13 = 1 not(TMP\_13) = 0 TMP\_14 = 1 not(TMP\_14) = 0 TMP\_15 = 1 not(TMP\_15) = 0 TMP\_16 = 2 TMP\_17 = 0 not(TMP\_17) = 1 TMP\_18 = 1 not(TMP\_18) = 0 TMP\_19 = 1 not(TMP\_19) = 0 TMP\_20 = 1 not(TMP\_20) = 0 TMP\_21 = 3 TMP\_22 = 0 not(TMP\_22) = 1 TMP\_23 = 0 not(TMP\_23) = 1 TMP\_24 = 0 TMP\_25 = 1 not(TMP\_25) = 0 TMP\_26 = 1 not(TMP\_26) = 0 TMP\_27 = 2 TMP\_28 = 0 not(TMP\_28) = 1 TMP\_29 = 0 not(TMP\_29) = 1 TMP\_30 = 1 not(TMP\_30) = 0 TMP\_31 = 1 not(TMP\_31) = 0 TMP\_32 = 1 not(TMP\_32) = 0 TMP\_33 = 2 TMP\_34 = 1 not(TMP\_34) = 0 TMP\_35 = 1 not(TMP\_35) = 0 TMP\_36 = 0 not(TMP\_36) = 1 TMP\_37 = 1 not(TMP\_37) = 0 TMP\_38 = 3 TMP\_39 = 0 not(TMP\_39) = 1 TMP\_40 = 0 not(TMP\_40) = 1 TMP\_41 = 0 TMP\_42 = 1 not(TMP\_42) = 0 TMP\_43 = 1 not(TMP\_43) = 0 TMP\_44 = 2 TMP\_45 = 0 not(TMP\_45) = 1 TMP\_46 = 0 not(TMP\_46) = 1 TMP\_47 = 1 not(TMP\_47) = 0 TMP\_48 = 1 not(TMP\_48) = 0 TMP\_49 = 1 not(TMP\_49) = 0 TMP\_50 = 2 TMP\_51 = 1 not(TMP\_51) = 0 TMP\_52 = 1 not(TMP\_52) = 0 TMP\_53 = 0 not(TMP\_53) = 1 TMP\_54 = 1 not(TMP\_54) = 0 TMP\_55 = 3 TMP\_56 = 0 not(TMP\_56) = 1 TMP\_57 = 0 not(TMP\_57) = 1 TMP\_58 = 0 TMP\_59 = 1 not(TMP\_59) = 0 TMP\_60 = 1 not(TMP\_60) = 0 TMP\_61 = 2 TMP\_62 = 0 not(TMP\_62) = 1 TMP\_63 = 0 not(TMP\_63) = 1 TMP\_64 = 1 not(TMP\_64) = 0 TMP\_65 = 1 not(TMP\_65) = 0 TMP\_66 = 1 not(TMP\_66) = 0 TMP\_67 = 2 TMP\_68 = 0 not(TMP\_68) = 1 TMP\_69 = 1 not(TMP\_69) = 0 TMP\_70 = 1 not(TMP\_70) = 0 TMP\_71 = 1 not(TMP\_71) = 0 TMP\_72 = 3 TMP\_73 = 0 not(TMP\_73) = 1 TMP\_74 = 0 not(TMP\_74) = 1 TMP\_75 = 0 TMP\_76 = 1 not(TMP\_76) = 0 TMP\_77 = 1 not(TMP\_77) = 0 TMP\_78 = 2 TMP\_79 = 0 not(TMP\_79) = 1 TMP\_80 = 0 not(TMP\_80) = 1 TMP\_81 = 1 not(TMP\_81) = 0 TMP\_82 = 1 not(TMP\_82) = 0 TMP\_83 = 1 not(TMP\_83) = 0 TMP\_84 = 2 TMP\_85 = 0 not(TMP\_85) = 1 TMP\_86 = 1 not(TMP\_86) = 0 TMP\_87 = 1 not(TMP\_87) = 0 TMP\_88 = 1 not(TMP\_88) = 0 TMP\_89 = 3 TMP\_90 = 0 not(TMP\_90) = 1 TMP\_91 = 0 not(TMP\_91) = 1 TMP\_92 = 0 TMP\_93 = 1 not(TMP\_93) = 0 TMP\_94 = 1 not(TMP\_94) = 0 TMP\_95 = 2 TMP\_96 = 0 not(TMP\_96) = 1 TMP\_97 = 0 not(TMP\_97) = 1 TMP\_98 = 1 not(TMP\_98) = 0 TMP\_99 = 1 not(TMP\_99) = 0 TMP\_100 = 1 not(TMP\_100) = 0 TMP\_101 = 2 TMP\_102 = 0 not(TMP\_102) = 1 TMP\_103 = 1 not(TMP\_103) = 0 TMP\_104 = 1 not(TMP\_104) = 0 TMP\_105 = 0 not(TMP\_105) = 1 TMP\_106 = 2 TMP\_107 = 0 not(TMP\_107) = 1 TMP\_108 = 0 not(TMP\_108) = 1 TMP\_109 = 0 TMP\_110 = 1 not(TMP\_110) = 0 TMP\_111 = 1 not(TMP\_111) = 0 TMP\_112 = 2 TMP\_113 = 0 not(TMP\_113) = 1 TMP\_114 = 0 not(TMP\_114) = 1 TMP\_115 = 1 not(TMP\_115) = 0 TMP\_116 = 1 not(TMP\_116) = 0 TMP\_117 = 1 not(TMP\_117) = 0 TMP\_118 = 2 TMP\_119 = 1 not(TMP\_119) = 0 TMP\_120 = 1 not(TMP\_120) = 0 TMP\_121 = 1 not(TMP\_121) = 0 TMP\_122 = 0 not(TMP\_122) = 1 TMP\_123 = 3 TMP\_124 = 0 not(TMP\_124) = 1 TMP\_125 = 0 not(TMP\_125) = 1 TMP\_126 = 0 TMP\_127 = 1 not(TMP\_127) = 0 TMP\_128 = 1 not(TMP\_128) = 0 TMP\_129 = 2 TMP\_130 = 0 not(TMP\_130) = 1 TMP\_131 = 0 not(TMP\_131) = 1 TMP\_132 = 1 not(TMP\_132) = 0 TMP\_133 = 1 not(TMP\_133) = 0 TMP\_134 = 1 not(TMP\_134) = 0 TMP\_135 = 2 TMP\_136 = 0 not(TMP\_136) = 1 TMP\_137 = 1 not(TMP\_137) = 0 TMP\_138 = 1 not(TMP\_138) = 0 TMP\_139 = 1 not(TMP\_139) = 0 TMP\_140 = 3 TMP\_141 = 0 not(TMP\_141) = 1 TMP\_142 = 0 not(TMP\_142) = 1 TMP\_143 = 0 TMP\_144 = 1 not(TMP\_144) = 0 TMP\_145 = 1 not(TMP\_145) = 0 TMP\_146 = 2 TMP\_147 = 0 not(TMP\_147) = 1 TMP\_148 = 0 not(TMP\_148) = 1 TMP\_149 = 1 not(TMP\_149) = 0 TMP\_150 = 1 not(TMP\_150) = 0 TMP\_151 = 1 not(TMP\_151) = 0 TMP\_152 = 2 TMP\_153 = 0 not(TMP\_153) = 1 TMP\_154 = 1 not(TMP\_154) = 0 TMP\_155 = 1 not(TMP\_155) = 0 TMP\_156 = 0 not(TMP\_156) = 1 TMP\_157 = 2 TMP\_158 = 0 not(TMP\_158) = 1 TMP\_159 = 0 not(TMP\_159) = 1 TMP\_160 = 0 TMP\_161 = 1 not(TMP\_161) = 0 TMP\_162 = 1 not(TMP\_162) = 0 TMP\_163 = 2 TMP\_164 = 0 not(TMP\_164) = 1 TMP\_165 = 0 not(TMP\_165) = 1 TMP\_166 = 1 not(TMP\_166) = 0 TMP\_167 = 1 not(TMP\_167) = 0 TMP\_168 = 1 not(TMP\_168) = 0 TMP\_169 = 2 TMP\_170 = 1 not(TMP\_170) = 0 TMP\_171 = 1 not(TMP\_171) = 0 TMP\_172 = 0 not(TMP\_172) = 1 TMP\_173 = 1 not(TMP\_173) = 0 TMP\_174 = 3 TMP\_175 = 0 not(TMP\_175) = 1 TMP\_176 = 0 not(TMP\_176) = 1 TMP\_177 = 0 TMP\_178 = 1 not(TMP\_178) = 0 TMP\_179 = 1 not(TMP\_179) = 0 TMP\_180 = 2 TMP\_181 = 0 not(TMP\_181) = 1 TMP\_182 = 0 not(TMP\_182) = 1 TMP\_183 = 1 not(TMP\_183) = 0 TMP\_184 = 1 not(TMP\_184) = 0 TMP\_185 = 1 not(TMP\_185) = 0 TMP\_186 = 2 TMP\_187 = 1 not(TMP\_187) = 0 TMP\_188 = 1 not(TMP\_188) = 0 TMP\_189 = 1 not(TMP\_189) = 0 TMP\_190 = 0 not(TMP\_190) = 1 TMP\_191 = 3 TMP\_192 = 0 not(TMP\_192) = 1 TMP\_193 = 0 not(TMP\_193) = 1 TMP\_194 = 0 TMP\_195 = 1 not(TMP\_195) = 0 TMP\_196 = 1 not(TMP\_196) = 0 TMP\_197 = 2 TMP\_198 = 0 not(TMP\_198) = 1 TMP\_199 = 0 not(TMP\_199) = 1 TMP\_200 = 1 not(TMP\_200) = 0 TMP\_201 = 1 not(TMP\_201) = 0 TMP\_202 = 1 not(TMP\_202) = 0 TMP\_203 = 2 TMP\_204 = 1 not(TMP\_204) = 0 TMP\_205 = 1 not(TMP\_205) = 0 TMP\_206 = 1 not(TMP\_206) = 0 TMP\_207 = 0 not(TMP\_207) = 1 TMP\_208 = 3 TMP\_209 = 0 not(TMP\_209) = 1 TMP\_210 = 0 not(TMP\_210) = 1 TMP\_211 = 0 TMP\_212 = 1 not(TMP\_212) = 0 TMP\_213 = 1 not(TMP\_213) = 0 TMP\_214 = 2 TMP\_215 = 0 not(TMP\_215) = 1 TMP\_216 = 0 not(TMP\_216) = 1 TMP\_217 = 1 not(TMP\_217) = 0 TMP\_218 = 1 not(TMP\_218) = 0 TMP\_219 = 1 not(TMP\_219) = 0 TMP\_220 = 2 TMP\_221 = 1 not(TMP\_221) = 0 TMP\_222 = 0 not(TMP\_222) = 1 TMP\_223 = 1 not(TMP\_223) = 0 TMP\_224 = 1 not(TMP\_224) = 0 TMP\_225 = 3 TMP\_226 = 0 not(TMP\_226) = 1 TMP\_227 = 0 not(TMP\_227) = 1 TMP\_228 = 0 TMP\_229 = 1 not(TMP\_229) = 0 TMP\_230 = 1 not(TMP\_230) = 0 TMP\_231 = 2 TMP\_232 = 0 not(TMP\_232) = 1 TMP\_233 = 0 not(TMP\_233) = 1 TMP\_234 = 1 not(TMP\_234) = 0 TMP\_235 = 1 not(TMP\_235) = 0 TMP\_236 = 1 not(TMP\_236) = 0 TMP\_237 = 2 TMP\_238 = 1 not(TMP\_238) = 0 TMP\_239 = 1 not(TMP\_239) = 0 TMP\_240 = 1 not(TMP\_240) = 0 TMP\_241 = 0 not(TMP\_241) = 1 TMP\_242 = 3 TMP\_243 = 0 not(TMP\_243) = 1 TMP\_244 = 0 not(TMP\_244) = 1 TMP\_245 = 0 TMP\_246 = 1 not(TMP\_246) = 0 TMP\_247 = 1 not(TMP\_247) = 0 TMP\_248 = 2 TMP\_249 = 0 not(TMP\_249) = 1 TMP\_250 = 0 not(TMP\_250) = 1 TMP\_251 = 1 not(TMP\_251) = 0 TMP\_252 = 1 not(TMP\_252) = 0 TMP\_253 = 1 not(TMP\_253) = 0 TMP\_254 = 2 TMP\_255 = 1 not(TMP\_255) = 0 TMP\_256 = 1 not(TMP\_256) = 0 TMP\_257 = 0 not(TMP\_257) = 1 TMP\_258 = 1 not(TMP\_258) = 0 TMP\_259 = 3 TMP\_260 = 0 not(TMP\_260) = 1 TMP\_261 = 0 not(TMP\_261) = 1 TMP\_262 = 0 TMP\_263 = 1 not(TMP\_263) = 0 TMP\_264 = 1 not(TMP\_264) = 0 TMP\_265 = 2 TMP\_266 = 0 not(TMP\_266) = 1 TMP\_267 = 0 not(TMP\_267) = 1 TMP\_268 = 1 not(TMP\_268) = 0 TMP\_269 = 1 not(TMP\_269) = 0 TMP\_270 = 1 not(TMP\_270) = 0 TMP\_271 = 2 TMP\_272 = 1 not(TMP\_272) = 0 TMP\_273 = 0 not(TMP\_273) = 1 TMP\_274 = 1 not(TMP\_274) = 0 TMP\_275 = 1 not(TMP\_275) = 0 TMP\_276 = 3 TMP\_277 = 0 not(TMP\_277) = 1 TMP\_278 = 0 not(TMP\_278) = 1 TMP\_279 = 0 TMP\_280 = 1 not(TMP\_280) = 0 TMP\_281 = 1 not(TMP\_281) = 0 TMP\_282 = 2 TMP\_283 = 0 not(TMP\_283) = 1 TMP\_284 = 0 not(TMP\_284) = 1 TMP\_285 = 1 not(TMP\_285) = 0 TMP\_286 = 1 not(TMP\_286) = 0 TMP\_287 = 1 not(TMP\_287) = 0 TMP\_288 = 2 TMP\_289 = 1 not(TMP\_289) = 0 TMP\_290 = 0 not(TMP\_290) = 1 TMP\_291 = 1 not(TMP\_291) = 0 TMP\_292 = 1 not(TMP\_292) = 0 TMP\_293 = 3 TMP\_294 = 0 not(TMP\_294) = 1 TMP\_295 = 0 not(TMP\_295) = 1 TMP\_296 = 0 TMP\_297 = 1 not(TMP\_297) = 0 TMP\_298 = 1 not(TMP\_298) = 0 TMP\_299 = 2 TMP\_300 = 0 not(TMP\_300) = 1 TMP\_301 = 0 not(TMP\_301) = 1 TMP\_302 = 1 not(TMP\_302) = 0 TMP\_303 = 1 not(TMP\_303) = 0 TMP\_304 = 1 not(TMP\_304) = 0 TMP\_305 = 2 TMP\_306 = 1 not(TMP\_306) = 0 TMP\_307 = 0 not(TMP\_307) = 1 TMP\_308 = 0 not(TMP\_308) = 1 TMP\_309 = 1 not(TMP\_309) = 0 TMP\_310 = 2 TMP\_311 = 0 not(TMP\_311) = 1 TMP\_312 = 0 not(TMP\_312) = 1 TMP\_313 = 0 TMP\_314 = 1 not(TMP\_314) = 0 TMP\_315 = 1 not(TMP\_315) = 0 TMP\_316 = 2 TMP\_317 = 0 not(TMP\_317) = 1 TMP\_318 = 0 not(TMP\_318) = 1 TMP\_319 = 1 not(TMP\_319) = 0 TMP\_320 = 1 not(TMP\_320) = 0 TMP\_321 = 1 not(TMP\_321) = 0 TMP\_322 = 2 TMP\_323 = 1 not(TMP\_323) = 0 TMP\_324 = 1 not(TMP\_324) = 0 TMP\_325 = 0 not(TMP\_325) = 1 TMP\_326 = 1 not(TMP\_326) = 0 TMP\_327 = 3 TMP\_328 = 0 not(TMP\_328) = 1 TMP\_329 = 0 not(TMP\_329) = 1 TMP\_330 = 0 TMP\_331 = 1 not(TMP\_331) = 0 TMP\_332 = 1 not(TMP\_332) = 0 TMP\_333 = 2 TMP\_334 = 0 not(TMP\_334) = 1 TMP\_335 = 0 not(TMP\_335) = 1 TMP\_336 = 1 not(TMP\_336) = 0 TMP\_337 = 1 not(TMP\_337) = 0 TMP\_338 = 1 not(TMP\_338) = 0 TMP\_339 = 2 Area\_0 = 10000 Distance\_0\_Rule\_0 = 100 Distance\_1\_Rule\_0 = 100 Area\_1 = 5000 Distance\_0\_Rule\_1 = 50 Distance\_1\_Rule\_1 = 100 Area\_2 = 17500 -(Rule\_2\_LB) = -75 Distance\_0\_Rule\_2 = 175 -(Rule\_2\_LB) = -400 Distance\_1\_Rule\_2 = 100 Area\_3 = 60000 -(Rule\_3\_LB) = -100 Distance\_0\_Rule\_3 = 150 -(Rule\_3\_LB) = 0 Distance\_1\_Rule\_3 = 400 Area\_4 = 30000 -(Rule\_4\_LB) = 0 Distance\_0\_Rule\_4 = 100 -(Rule\_4\_LB) = -100 Distance\_1\_Rule\_4 = 300 Area\_5 = 2500 -(Rule\_5\_LB) = 0 Distance\_0\_Rule\_5 = 25 -(Rule\_5\_LB) = -400 Distance\_1\_Rule\_5 = 100 TMP\_340 = 125000 .

- Solution #13 found. 13 Solutions, Resolution 976.035s, 8245800 Nodes (8,448.3 n/s), 16491519 Backtracks, 8245760 Fails, 0 Restarts

Rule\_2\_LB = 75 Rule\_2\_UB = 250 Rule\_2\_LB = 100 Rule\_2\_UB = 500 Rule\_3\_LB = 100 Rule\_3\_UB = 250 Rule\_3\_LB = 0 Rule\_3\_UB = 100 Rule\_4\_LB = 0 Rule\_4\_UB = 75 Rule\_4\_LB = 100 Rule\_4\_UB = 400 Rule\_5\_LB = 0 Rule\_5\_UB = 25 Rule\_5\_LB = 400 Rule\_5\_UB = 500 Overlaps\_0\_0 = 0 Overlaps\_0\_1 = 0 Overlaps\_0\_2 = 0 Overlaps\_0\_3 = 0 Overlaps\_0\_4 = 0 Overlaps\_0\_5 = 0 Overlaps\_1\_0 = 0 Overlaps\_1\_1 = 0 Overlaps\_1\_2 = 0 Overlaps\_1\_3 = 0 Overlaps\_1\_4 = 0 Overlaps\_1\_5 = 0 Overlaps\_2\_0 = 0 Overlaps\_2\_1 = 0 Overlaps\_2\_2 = 0 Overlaps\_2\_3 = 0 Overlaps\_2\_4 = 0 Overlaps\_2\_5 = 0 Overlaps\_3\_0 = 0 Overlaps\_3\_1 = 0 Overlaps\_3\_2 = 0 Overlaps\_3\_3 = 0 Overlaps\_3\_4 = 0 Overlaps\_3\_5 = 0 Overlaps\_4\_0 = 0 Overlaps\_4\_1 = 0 Overlaps\_4\_2 = 0 Overlaps\_4\_3 = 0 Overlaps\_4\_4 = 0 Overlaps\_4\_5 = 0 Overlaps\_5\_0 = 0 Overlaps\_5\_1 = 0 Overlaps\_5\_2 = 0 Overlaps\_5\_3 = 0 Overlaps\_5\_4 = 0 Overlaps\_5\_5 = 0 TMP\_0 = 1 not(TMP\_0) = 0 TMP\_1 = 1 not(TMP\_1) = 0 TMP\_2 = 0 not(TMP\_2) = 1 TMP\_3 = 1 not(TMP\_3) = 0 TMP\_4 = 3 TMP\_5 = 0 not(TMP\_5) = 1 TMP\_6 = 0 not(TMP\_6) = 1 TMP\_7 = 0 TMP\_8 = 1 not(TMP\_8) = 0 TMP\_9 = 1 not(TMP\_9) = 0 TMP\_10 = 2 TMP\_11 = 0 not(TMP\_11) = 1 TMP\_12 = 0 not(TMP\_12) = 1 TMP\_13 = 1 not(TMP\_13) = 0 TMP\_14 = 1 not(TMP\_14) = 0 TMP\_15 = 1 not(TMP\_15) = 0 TMP\_16 = 2 TMP\_17 = 0 not(TMP\_17) = 1 TMP\_18 = 1 not(TMP\_18) = 0 TMP\_19 = 1 not(TMP\_19) = 0 TMP\_20 = 1 not(TMP\_20) = 0 TMP\_21 = 3 TMP\_22 = 0 not(TMP\_22) = 1 TMP\_23 = 0 not(TMP\_23) = 1 TMP\_24 = 0 TMP\_25 = 1 not(TMP\_25) = 0 TMP\_26 = 1 not(TMP\_26) = 0 TMP\_27 = 2 TMP\_28 = 0 not(TMP\_28) = 1 TMP\_29 = 0 not(TMP\_29) = 1 TMP\_30 = 1 not(TMP\_30) = 0 TMP\_31 = 1 not(TMP\_31) = 0 TMP\_32 = 1 not(TMP\_32) = 0 TMP\_33 = 2 TMP\_34 = 1 not(TMP\_34) = 0 TMP\_35 = 1 not(TMP\_35) = 0 TMP\_36 = 0 not(TMP\_36) = 1 TMP\_37 = 1 not(TMP\_37) = 0 TMP\_38 = 3 TMP\_39 = 0 not(TMP\_39) = 1 TMP\_40 = 0 not(TMP\_40) = 1 TMP\_41 = 0 TMP\_42 = 1 not(TMP\_42) = 0 TMP\_43 = 1 not(TMP\_43) = 0 TMP\_44 = 2 TMP\_45 = 0 not(TMP\_45) = 1 TMP\_46 = 0 not(TMP\_46) = 1 TMP\_47 = 1 not(TMP\_47) = 0 TMP\_48 = 1 not(TMP\_48) = 0 TMP\_49 = 1 not(TMP\_49) = 0 TMP\_50 = 2 TMP\_51 = 0 not(TMP\_51) = 1 TMP\_52 = 1 not(TMP\_52) = 0 TMP\_53 = 1 not(TMP\_53) = 0 TMP\_54 = 1 not(TMP\_54) = 0 TMP\_55 = 3 TMP\_56 = 0 not(TMP\_56) = 1 TMP\_57 = 0 not(TMP\_57) = 1 TMP\_58 = 0 TMP\_59 = 1 not(TMP\_59) = 0 TMP\_60 = 1 not(TMP\_60) = 0 TMP\_61 = 2 TMP\_62 = 0 not(TMP\_62) = 1 TMP\_63 = 0 not(TMP\_63) = 1 TMP\_64 = 1 not(TMP\_64) = 0 TMP\_65 = 1 not(TMP\_65) = 0 TMP\_66 = 1 not(TMP\_66) = 0 TMP\_67 = 2 TMP\_68 = 0 not(TMP\_68) = 1 TMP\_69 = 1 not(TMP\_69) = 0 TMP\_70 = 1 not(TMP\_70) = 0 TMP\_71 = 1 not(TMP\_71) = 0 TMP\_72 = 3 TMP\_73 = 0 not(TMP\_73) = 1 TMP\_74 = 0 not(TMP\_74) = 1 TMP\_75 = 0 TMP\_76 = 1 not(TMP\_76) = 0 TMP\_77 = 1 not(TMP\_77) = 0 TMP\_78 = 2 TMP\_79 = 0 not(TMP\_79) = 1 TMP\_80 = 0 not(TMP\_80) = 1 TMP\_81 = 1 not(TMP\_81) = 0 TMP\_82 = 1 not(TMP\_82) = 0 TMP\_83 = 1 not(TMP\_83) = 0 TMP\_84 = 2 TMP\_85 = 0 not(TMP\_85) = 1 TMP\_86 = 1 not(TMP\_86) = 0 TMP\_87 = 1 not(TMP\_87) = 0 TMP\_88 = 1 not(TMP\_88) = 0 TMP\_89 = 3 TMP\_90 = 0 not(TMP\_90) = 1 TMP\_91 = 0 not(TMP\_91) = 1 TMP\_92 = 0 TMP\_93 = 1 not(TMP\_93) = 0 TMP\_94 = 1 not(TMP\_94) = 0 TMP\_95 = 2 TMP\_96 = 0 not(TMP\_96) = 1 TMP\_97 = 0 not(TMP\_97) = 1 TMP\_98 = 1 not(TMP\_98) = 0 TMP\_99 = 1 not(TMP\_99) = 0 TMP\_100 = 1 not(TMP\_100) = 0 TMP\_101 = 2 TMP\_102 = 0 not(TMP\_102) = 1 TMP\_103 = 1 not(TMP\_103) = 0 TMP\_104 = 1 not(TMP\_104) = 0 TMP\_105 = 0 not(TMP\_105) = 1 TMP\_106 = 2 TMP\_107 = 0 not(TMP\_107) = 1 TMP\_108 = 0 not(TMP\_108) = 1 TMP\_109 = 0 TMP\_110 = 1 not(TMP\_110) = 0 TMP\_111 = 1 not(TMP\_111) = 0 TMP\_112 = 2 TMP\_113 = 0 not(TMP\_113) = 1 TMP\_114 = 0 not(TMP\_114) = 1 TMP\_115 = 1 not(TMP\_115) = 0 TMP\_116 = 1 not(TMP\_116) = 0 TMP\_117 = 1 not(TMP\_117) = 0 TMP\_118 = 2 TMP\_119 = 1 not(TMP\_119) = 0 TMP\_120 = 1 not(TMP\_120) = 0 TMP\_121 = 1 not(TMP\_121) = 0 TMP\_122 = 0 not(TMP\_122) = 1 TMP\_123 = 3 TMP\_124 = 0 not(TMP\_124) = 1 TMP\_125 = 0 not(TMP\_125) = 1 TMP\_126 = 0 TMP\_127 = 1 not(TMP\_127) = 0 TMP\_128 = 1 not(TMP\_128) = 0 TMP\_129 = 2 TMP\_130 = 0 not(TMP\_130) = 1 TMP\_131 = 0 not(TMP\_131) = 1 TMP\_132 = 1 not(TMP\_132) = 0 TMP\_133 = 1 not(TMP\_133) = 0 TMP\_134 = 1 not(TMP\_134) = 0 TMP\_135 = 2 TMP\_136 = 0 not(TMP\_136) = 1 TMP\_137 = 1 not(TMP\_137) = 0 TMP\_138 = 1 not(TMP\_138) = 0 TMP\_139 = 0 not(TMP\_139) = 1 TMP\_140 = 2 TMP\_141 = 0 not(TMP\_141) = 1 TMP\_142 = 0 not(TMP\_142) = 1 TMP\_143 = 0 TMP\_144 = 1 not(TMP\_144) = 0 TMP\_145 = 1 not(TMP\_145) = 0 TMP\_146 = 2 TMP\_147 = 0 not(TMP\_147) = 1 TMP\_148 = 0 not(TMP\_148) = 1 TMP\_149 = 1 not(TMP\_149) = 0 TMP\_150 = 1 not(TMP\_150) = 0 TMP\_151 = 1 not(TMP\_151) = 0 TMP\_152 = 2 TMP\_153 = 0 not(TMP\_153) = 1 TMP\_154 = 1 not(TMP\_154) = 0 TMP\_155 = 1 not(TMP\_155) = 0 TMP\_156 = 0 not(TMP\_156) = 1 TMP\_157 = 2 TMP\_158 = 0 not(TMP\_158) = 1 TMP\_159 = 0 not(TMP\_159) = 1 TMP\_160 = 0 TMP\_161 = 1 not(TMP\_161) = 0 TMP\_162 = 1 not(TMP\_162) = 0 TMP\_163 = 2 TMP\_164 = 0 not(TMP\_164) = 1 TMP\_165 = 0 not(TMP\_165) = 1 TMP\_166 = 1 not(TMP\_166) = 0 TMP\_167 = 1 not(TMP\_167) = 0 TMP\_168 = 1 not(TMP\_168) = 0 TMP\_169 = 2 TMP\_170 = 1 not(TMP\_170) = 0 TMP\_171 = 1 not(TMP\_171) = 0 TMP\_172 = 0 not(TMP\_172) = 1 TMP\_173 = 1 not(TMP\_173) = 0 TMP\_174 = 3 TMP\_175 = 0 not(TMP\_175) = 1 TMP\_176 = 0 not(TMP\_176) = 1 TMP\_177 = 0 TMP\_178 = 1 not(TMP\_178) = 0 TMP\_179 = 1 not(TMP\_179) = 0 TMP\_180 = 2 TMP\_181 = 0 not(TMP\_181) = 1 TMP\_182 = 0 not(TMP\_182) = 1 TMP\_183 = 1 not(TMP\_183) = 0 TMP\_184 = 1 not(TMP\_184) = 0 TMP\_185 = 1 not(TMP\_185) = 0 TMP\_186 = 2 TMP\_187 = 1 not(TMP\_187) = 0 TMP\_188 = 1 not(TMP\_188) = 0 TMP\_189 = 1 not(TMP\_189) = 0 TMP\_190 = 0 not(TMP\_190) = 1 TMP\_191 = 3 TMP\_192 = 0 not(TMP\_192) = 1 TMP\_193 = 0 not(TMP\_193) = 1 TMP\_194 = 0 TMP\_195 = 1 not(TMP\_195) = 0 TMP\_196 = 1 not(TMP\_196) = 0 TMP\_197 = 2 TMP\_198 = 0 not(TMP\_198) = 1 TMP\_199 = 0 not(TMP\_199) = 1 TMP\_200 = 1 not(TMP\_200) = 0 TMP\_201 = 1 not(TMP\_201) = 0 TMP\_202 = 1 not(TMP\_202) = 0 TMP\_203 = 2 TMP\_204 = 1 not(TMP\_204) = 0 TMP\_205 = 0 not(TMP\_205) = 1 TMP\_206 = 1 not(TMP\_206) = 0 TMP\_207 = 1 not(TMP\_207) = 0 TMP\_208 = 3 TMP\_209 = 0 not(TMP\_209) = 1 TMP\_210 = 0 not(TMP\_210) = 1 TMP\_211 = 0 TMP\_212 = 1 not(TMP\_212) = 0 TMP\_213 = 1 not(TMP\_213) = 0 TMP\_214 = 2 TMP\_215 = 0 not(TMP\_215) = 1 TMP\_216 = 0 not(TMP\_216) = 1 TMP\_217 = 1 not(TMP\_217) = 0 TMP\_218 = 1 not(TMP\_218) = 0 TMP\_219 = 1 not(TMP\_219) = 0 TMP\_220 = 2 TMP\_221 = 1 not(TMP\_221) = 0 TMP\_222 = 0 not(TMP\_222) = 1 TMP\_223 = 0 not(TMP\_223) = 1 TMP\_224 = 1 not(TMP\_224) = 0 TMP\_225 = 2 TMP\_226 = 0 not(TMP\_226) = 1 TMP\_227 = 0 not(TMP\_227) = 1 TMP\_228 = 0 TMP\_229 = 1 not(TMP\_229) = 0 TMP\_230 = 1 not(TMP\_230) = 0 TMP\_231 = 2 TMP\_232 = 0 not(TMP\_232) = 1 TMP\_233 = 0 not(TMP\_233) = 1 TMP\_234 = 1 not(TMP\_234) = 0 TMP\_235 = 1 not(TMP\_235) = 0 TMP\_236 = 1 not(TMP\_236) = 0 TMP\_237 = 2 TMP\_238 = 1 not(TMP\_238) = 0 TMP\_239 = 1 not(TMP\_239) = 0 TMP\_240 = 1 not(TMP\_240) = 0 TMP\_241 = 0 not(TMP\_241) = 1 TMP\_242 = 3 TMP\_243 = 0 not(TMP\_243) = 1 TMP\_244 = 0 not(TMP\_244) = 1 TMP\_245 = 0 TMP\_246 = 1 not(TMP\_246) = 0 TMP\_247 = 1 not(TMP\_247) = 0 TMP\_248 = 2 TMP\_249 = 0 not(TMP\_249) = 1 TMP\_250 = 0 not(TMP\_250) = 1 TMP\_251 = 1 not(TMP\_251) = 0 TMP\_252 = 1 not(TMP\_252) = 0 TMP\_253 = 1 not(TMP\_253) = 0 TMP\_254 = 2 TMP\_255 = 1 not(TMP\_255) = 0 TMP\_256 = 1 not(TMP\_256) = 0 TMP\_257 = 0 not(TMP\_257) = 1 TMP\_258 = 1 not(TMP\_258) = 0 TMP\_259 = 3 TMP\_260 = 0 not(TMP\_260) = 1 TMP\_261 = 0 not(TMP\_261) = 1 TMP\_262 = 0 TMP\_263 = 1 not(TMP\_263) = 0 TMP\_264 = 1 not(TMP\_264) = 0 TMP\_265 = 2 TMP\_266 = 0 not(TMP\_266) = 1 TMP\_267 = 0 not(TMP\_267) = 1 TMP\_268 = 1 not(TMP\_268) = 0 TMP\_269 = 1 not(TMP\_269) = 0 TMP\_270 = 1 not(TMP\_270) = 0 TMP\_271 = 2 TMP\_272 = 1 not(TMP\_272) = 0 TMP\_273 = 0 not(TMP\_273) = 1 TMP\_274 = 1 not(TMP\_274) = 0 TMP\_275 = 1 not(TMP\_275) = 0 TMP\_276 = 3 TMP\_277 = 0 not(TMP\_277) = 1 TMP\_278 = 0 not(TMP\_278) = 1 TMP\_279 = 0 TMP\_280 = 1 not(TMP\_280) = 0 TMP\_281 = 1 not(TMP\_281) = 0 TMP\_282 = 2 TMP\_283 = 0 not(TMP\_283) = 1 TMP\_284 = 0 not(TMP\_284) = 1 TMP\_285 = 1 not(TMP\_285) = 0 TMP\_286 = 1 not(TMP\_286) = 0 TMP\_287 = 1 not(TMP\_287) = 0 TMP\_288 = 2 TMP\_289 = 1 not(TMP\_289) = 0 TMP\_290 = 0 not(TMP\_290) = 1 TMP\_291 = 1 not(TMP\_291) = 0 TMP\_292 = 1 not(TMP\_292) = 0 TMP\_293 = 3 TMP\_294 = 0 not(TMP\_294) = 1 TMP\_295 = 0 not(TMP\_295) = 1 TMP\_296 = 0 TMP\_297 = 1 not(TMP\_297) = 0 TMP\_298 = 1 not(TMP\_298) = 0 TMP\_299 = 2 TMP\_300 = 0 not(TMP\_300) = 1 TMP\_301 = 0 not(TMP\_301) = 1 TMP\_302 = 1 not(TMP\_302) = 0 TMP\_303 = 1 not(TMP\_303) = 0 TMP\_304 = 1 not(TMP\_304) = 0 TMP\_305 = 2 TMP\_306 = 1 not(TMP\_306) = 0 TMP\_307 = 0 not(TMP\_307) = 1 TMP\_308 = 0 not(TMP\_308) = 1 TMP\_309 = 1 not(TMP\_309) = 0 TMP\_310 = 2 TMP\_311 = 0 not(TMP\_311) = 1 TMP\_312 = 0 not(TMP\_312) = 1 TMP\_313 = 0 TMP\_314 = 1 not(TMP\_314) = 0 TMP\_315 = 1 not(TMP\_315) = 0 TMP\_316 = 2 TMP\_317 = 0 not(TMP\_317) = 1 TMP\_318 = 0 not(TMP\_318) = 1 TMP\_319 = 1 not(TMP\_319) = 0 TMP\_320 = 1 not(TMP\_320) = 0 TMP\_321 = 1 not(TMP\_321) = 0 TMP\_322 = 2 TMP\_323 = 1 not(TMP\_323) = 0 TMP\_324 = 1 not(TMP\_324) = 0 TMP\_325 = 0 not(TMP\_325) = 1 TMP\_326 = 1 not(TMP\_326) = 0 TMP\_327 = 3 TMP\_328 = 0 not(TMP\_328) = 1 TMP\_329 = 0 not(TMP\_329) = 1 TMP\_330 = 0 TMP\_331 = 1 not(TMP\_331) = 0 TMP\_332 = 1 not(TMP\_332) = 0 TMP\_333 = 2 TMP\_334 = 0 not(TMP\_334) = 1 TMP\_335 = 0 not(TMP\_335) = 1 TMP\_336 = 1 not(TMP\_336) = 0 TMP\_337 = 1 not(TMP\_337) = 0 TMP\_338 = 1 not(TMP\_338) = 0 TMP\_339 = 2 Area\_0 = 10000 Distance\_0\_Rule\_0 = 100 Distance\_1\_Rule\_0 = 100 Area\_1 = 5000 Distance\_0\_Rule\_1 = 50 Distance\_1\_Rule\_1 = 100 Area\_2 = 70000 -(Rule\_2\_LB) = -75 Distance\_0\_Rule\_2 = 175 -(Rule\_2\_LB) = -100 Distance\_1\_Rule\_2 = 400 Area\_3 = 15000 -(Rule\_3\_LB) = -100 Distance\_0\_Rule\_3 = 150 -(Rule\_3\_LB) = 0 Distance\_1\_Rule\_3 = 100 Area\_4 = 22500 -(Rule\_4\_LB) = 0 Distance\_0\_Rule\_4 = 75 -(Rule\_4\_LB) = -100 Distance\_1\_Rule\_4 = 300 Area\_5 = 2500 -(Rule\_5\_LB) = 0 Distance\_0\_Rule\_5 = 25 -(Rule\_5\_LB) = -400 Distance\_1\_Rule\_5 = 100 TMP\_340 = 125000 .

- Solution #14 found. 14 Solutions, Resolution 976.037s, 8245801 Nodes (8,448.3 n/s), 16491520 Backtracks, 8245760 Fails, 0 Restarts

Rule\_2\_LB = 75 Rule\_2\_UB = 250 Rule\_2\_LB = 100 Rule\_2\_UB = 500 Rule\_3\_LB = 100 Rule\_3\_UB = 250 Rule\_3\_LB = 0 Rule\_3\_UB = 100 Rule\_4\_LB = 0 Rule\_4\_UB = 75 Rule\_4\_LB = 100 Rule\_4\_UB = 400 Rule\_5\_LB = 0 Rule\_5\_UB = 25 Rule\_5\_LB = 400 Rule\_5\_UB = 500 Overlaps\_0\_0 = 0 Overlaps\_0\_1 = 0 Overlaps\_0\_2 = 0 Overlaps\_0\_3 = 0 Overlaps\_0\_4 = 0 Overlaps\_0\_5 = 0 Overlaps\_1\_0 = 1 Overlaps\_1\_1 = 0 Overlaps\_1\_2 = 0 Overlaps\_1\_3 = 0 Overlaps\_1\_4 = 0 Overlaps\_1\_5 = 0 Overlaps\_2\_0 = 0 Overlaps\_2\_1 = 0 Overlaps\_2\_2 = 0 Overlaps\_2\_3 = 0 Overlaps\_2\_4 = 0 Overlaps\_2\_5 = 0 Overlaps\_3\_0 = 0 Overlaps\_3\_1 = 0 Overlaps\_3\_2 = 0 Overlaps\_3\_3 = 0 Overlaps\_3\_4 = 0 Overlaps\_3\_5 = 0 Overlaps\_4\_0 = 0 Overlaps\_4\_1 = 0 Overlaps\_4\_2 = 0 Overlaps\_4\_3 = 0 Overlaps\_4\_4 = 0 Overlaps\_4\_5 = 0 Overlaps\_5\_0 = 0 Overlaps\_5\_1 = 0 Overlaps\_5\_2 = 0 Overlaps\_5\_3 = 0 Overlaps\_5\_4 = 0 Overlaps\_5\_5 = 0 TMP\_0 = 1 not(TMP\_0) = 0 TMP\_1 = 1 not(TMP\_1) = 0 TMP\_2 = 0 not(TMP\_2) = 1 TMP\_3 = 1 not(TMP\_3) = 0 TMP\_4 = 3 TMP\_5 = 0 not(TMP\_5) = 1 TMP\_6 = 0 not(TMP\_6) = 1 TMP\_7 = 0 TMP\_8 = 1 not(TMP\_8) = 0 TMP\_9 = 1 not(TMP\_9) = 0 TMP\_10 = 2 TMP\_11 = 0 not(TMP\_11) = 1 TMP\_12 = 0 not(TMP\_12) = 1 TMP\_13 = 1 not(TMP\_13) = 0 TMP\_14 = 1 not(TMP\_14) = 0 TMP\_15 = 1 not(TMP\_15) = 0 TMP\_16 = 2 TMP\_17 = 0 not(TMP\_17) = 1 TMP\_18 = 1 not(TMP\_18) = 0 TMP\_19 = 1 not(TMP\_19) = 0 TMP\_20 = 1 not(TMP\_20) = 0 TMP\_21 = 3 TMP\_22 = 0 not(TMP\_22) = 1 TMP\_23 = 0 not(TMP\_23) = 1 TMP\_24 = 0 TMP\_25 = 1 not(TMP\_25) = 0 TMP\_26 = 1 not(TMP\_26) = 0 TMP\_27 = 2 TMP\_28 = 0 not(TMP\_28) = 1 TMP\_29 = 0 not(TMP\_29) = 1 TMP\_30 = 1 not(TMP\_30) = 0 TMP\_31 = 1 not(TMP\_31) = 0 TMP\_32 = 1 not(TMP\_32) = 0 TMP\_33 = 2 TMP\_34 = 1 not(TMP\_34) = 0 TMP\_35 = 1 not(TMP\_35) = 0 TMP\_36 = 0 not(TMP\_36) = 1 TMP\_37 = 1 not(TMP\_37) = 0 TMP\_38 = 3 TMP\_39 = 0 not(TMP\_39) = 1 TMP\_40 = 0 not(TMP\_40) = 1 TMP\_41 = 0 TMP\_42 = 1 not(TMP\_42) = 0 TMP\_43 = 1 not(TMP\_43) = 0 TMP\_44 = 2 TMP\_45 = 0 not(TMP\_45) = 1 TMP\_46 = 0 not(TMP\_46) = 1 TMP\_47 = 1 not(TMP\_47) = 0 TMP\_48 = 1 not(TMP\_48) = 0 TMP\_49 = 1 not(TMP\_49) = 0 TMP\_50 = 2 TMP\_51 = 0 not(TMP\_51) = 1 TMP\_52 = 1 not(TMP\_52) = 0 TMP\_53 = 1 not(TMP\_53) = 0 TMP\_54 = 1 not(TMP\_54) = 0 TMP\_55 = 3 TMP\_56 = 0 not(TMP\_56) = 1 TMP\_57 = 0 not(TMP\_57) = 1 TMP\_58 = 0 TMP\_59 = 1 not(TMP\_59) = 0 TMP\_60 = 1 not(TMP\_60) = 0 TMP\_61 = 2 TMP\_62 = 0 not(TMP\_62) = 1 TMP\_63 = 0 not(TMP\_63) = 1 TMP\_64 = 1 not(TMP\_64) = 0 TMP\_65 = 1 not(TMP\_65) = 0 TMP\_66 = 1 not(TMP\_66) = 0 TMP\_67 = 2 TMP\_68 = 0 not(TMP\_68) = 1 TMP\_69 = 1 not(TMP\_69) = 0 TMP\_70 = 1 not(TMP\_70) = 0 TMP\_71 = 1 not(TMP\_71) = 0 TMP\_72 = 3 TMP\_73 = 0 not(TMP\_73) = 1 TMP\_74 = 0 not(TMP\_74) = 1 TMP\_75 = 0 TMP\_76 = 1 not(TMP\_76) = 0 TMP\_77 = 1 not(TMP\_77) = 0 TMP\_78 = 2 TMP\_79 = 0 not(TMP\_79) = 1 TMP\_80 = 0 not(TMP\_80) = 1 TMP\_81 = 1 not(TMP\_81) = 0 TMP\_82 = 1 not(TMP\_82) = 0 TMP\_83 = 1 not(TMP\_83) = 0 TMP\_84 = 2 TMP\_85 = 0 not(TMP\_85) = 1 TMP\_86 = 1 not(TMP\_86) = 0 TMP\_87 = 1 not(TMP\_87) = 0 TMP\_88 = 1 not(TMP\_88) = 0 TMP\_89 = 3 TMP\_90 = 0 not(TMP\_90) = 1 TMP\_91 = 0 not(TMP\_91) = 1 TMP\_92 = 0 TMP\_93 = 1 not(TMP\_93) = 0 TMP\_94 = 1 not(TMP\_94) = 0 TMP\_95 = 2 TMP\_96 = 0 not(TMP\_96) = 1 TMP\_97 = 0 not(TMP\_97) = 1 TMP\_98 = 1 not(TMP\_98) = 0 TMP\_99 = 1 not(TMP\_99) = 0 TMP\_100 = 1 not(TMP\_100) = 0 TMP\_101 = 2 TMP\_102 = 0 not(TMP\_102) = 1 TMP\_103 = 1 not(TMP\_103) = 0 TMP\_104 = 1 not(TMP\_104) = 0 TMP\_105 = 0 not(TMP\_105) = 1 TMP\_106 = 2 TMP\_107 = 0 not(TMP\_107) = 1 TMP\_108 = 0 not(TMP\_108) = 1 TMP\_109 = 0 TMP\_110 = 1 not(TMP\_110) = 0 TMP\_111 = 1 not(TMP\_111) = 0 TMP\_112 = 2 TMP\_113 = 0 not(TMP\_113) = 1 TMP\_114 = 0 not(TMP\_114) = 1 TMP\_115 = 1 not(TMP\_115) = 0 TMP\_116 = 1 not(TMP\_116) = 0 TMP\_117 = 1 not(TMP\_117) = 0 TMP\_118 = 2 TMP\_119 = 1 not(TMP\_119) = 0 TMP\_120 = 1 not(TMP\_120) = 0 TMP\_121 = 1 not(TMP\_121) = 0 TMP\_122 = 0 not(TMP\_122) = 1 TMP\_123 = 3 TMP\_124 = 0 not(TMP\_124) = 1 TMP\_125 = 0 not(TMP\_125) = 1 TMP\_126 = 0 TMP\_127 = 1 not(TMP\_127) = 0 TMP\_128 = 1 not(TMP\_128) = 0 TMP\_129 = 2 TMP\_130 = 0 not(TMP\_130) = 1 TMP\_131 = 0 not(TMP\_131) = 1 TMP\_132 = 1 not(TMP\_132) = 0 TMP\_133 = 1 not(TMP\_133) = 0 TMP\_134 = 1 not(TMP\_134) = 0 TMP\_135 = 2 TMP\_136 = 0 not(TMP\_136) = 1 TMP\_137 = 1 not(TMP\_137) = 0 TMP\_138 = 1 not(TMP\_138) = 0 TMP\_139 = 0 not(TMP\_139) = 1 TMP\_140 = 2 TMP\_141 = 0 not(TMP\_141) = 1 TMP\_142 = 0 not(TMP\_142) = 1 TMP\_143 = 0 TMP\_144 = 1 not(TMP\_144) = 0 TMP\_145 = 1 not(TMP\_145) = 0 TMP\_146 = 2 TMP\_147 = 0 not(TMP\_147) = 1 TMP\_148 = 0 not(TMP\_148) = 1 TMP\_149 = 1 not(TMP\_149) = 0 TMP\_150 = 1 not(TMP\_150) = 0 TMP\_151 = 1 not(TMP\_151) = 0 TMP\_152 = 2 TMP\_153 = 0 not(TMP\_153) = 1 TMP\_154 = 1 not(TMP\_154) = 0 TMP\_155 = 1 not(TMP\_155) = 0 TMP\_156 = 0 not(TMP\_156) = 1 TMP\_157 = 2 TMP\_158 = 0 not(TMP\_158) = 1 TMP\_159 = 0 not(TMP\_159) = 1 TMP\_160 = 0 TMP\_161 = 1 not(TMP\_161) = 0 TMP\_162 = 1 not(TMP\_162) = 0 TMP\_163 = 2 TMP\_164 = 0 not(TMP\_164) = 1 TMP\_165 = 0 not(TMP\_165) = 1 TMP\_166 = 1 not(TMP\_166) = 0 TMP\_167 = 1 not(TMP\_167) = 0 TMP\_168 = 1 not(TMP\_168) = 0 TMP\_169 = 2 TMP\_170 = 1 not(TMP\_170) = 0 TMP\_171 = 1 not(TMP\_171) = 0 TMP\_172 = 0 not(TMP\_172) = 1 TMP\_173 = 1 not(TMP\_173) = 0 TMP\_174 = 3 TMP\_175 = 0 not(TMP\_175) = 1 TMP\_176 = 0 not(TMP\_176) = 1 TMP\_177 = 0 TMP\_178 = 1 not(TMP\_178) = 0 TMP\_179 = 1 not(TMP\_179) = 0 TMP\_180 = 2 TMP\_181 = 0 not(TMP\_181) = 1 TMP\_182 = 0 not(TMP\_182) = 1 TMP\_183 = 1 not(TMP\_183) = 0 TMP\_184 = 1 not(TMP\_184) = 0 TMP\_185 = 1 not(TMP\_185) = 0 TMP\_186 = 2 TMP\_187 = 1 not(TMP\_187) = 0 TMP\_188 = 1 not(TMP\_188) = 0 TMP\_189 = 1 not(TMP\_189) = 0 TMP\_190 = 0 not(TMP\_190) = 1 TMP\_191 = 3 TMP\_192 = 0 not(TMP\_192) = 1 TMP\_193 = 0 not(TMP\_193) = 1 TMP\_194 = 0 TMP\_195 = 1 not(TMP\_195) = 0 TMP\_196 = 1 not(TMP\_196) = 0 TMP\_197 = 2 TMP\_198 = 0 not(TMP\_198) = 1 TMP\_199 = 0 not(TMP\_199) = 1 TMP\_200 = 1 not(TMP\_200) = 0 TMP\_201 = 1 not(TMP\_201) = 0 TMP\_202 = 1 not(TMP\_202) = 0 TMP\_203 = 2 TMP\_204 = 1 not(TMP\_204) = 0 TMP\_205 = 0 not(TMP\_205) = 1 TMP\_206 = 1 not(TMP\_206) = 0 TMP\_207 = 1 not(TMP\_207) = 0 TMP\_208 = 3 TMP\_209 = 0 not(TMP\_209) = 1 TMP\_210 = 0 not(TMP\_210) = 1 TMP\_211 = 0 TMP\_212 = 1 not(TMP\_212) = 0 TMP\_213 = 1 not(TMP\_213) = 0 TMP\_214 = 2 TMP\_215 = 0 not(TMP\_215) = 1 TMP\_216 = 0 not(TMP\_216) = 1 TMP\_217 = 1 not(TMP\_217) = 0 TMP\_218 = 1 not(TMP\_218) = 0 TMP\_219 = 1 not(TMP\_219) = 0 TMP\_220 = 2 TMP\_221 = 1 not(TMP\_221) = 0 TMP\_222 = 0 not(TMP\_222) = 1 TMP\_223 = 0 not(TMP\_223) = 1 TMP\_224 = 1 not(TMP\_224) = 0 TMP\_225 = 2 TMP\_226 = 0 not(TMP\_226) = 1 TMP\_227 = 0 not(TMP\_227) = 1 TMP\_228 = 0 TMP\_229 = 1 not(TMP\_229) = 0 TMP\_230 = 1 not(TMP\_230) = 0 TMP\_231 = 2 TMP\_232 = 0 not(TMP\_232) = 1 TMP\_233 = 0 not(TMP\_233) = 1 TMP\_234 = 1 not(TMP\_234) = 0 TMP\_235 = 1 not(TMP\_235) = 0 TMP\_236 = 1 not(TMP\_236) = 0 TMP\_237 = 2 TMP\_238 = 1 not(TMP\_238) = 0 TMP\_239 = 1 not(TMP\_239) = 0 TMP\_240 = 1 not(TMP\_240) = 0 TMP\_241 = 0 not(TMP\_241) = 1 TMP\_242 = 3 TMP\_243 = 0 not(TMP\_243) = 1 TMP\_244 = 0 not(TMP\_244) = 1 TMP\_245 = 0 TMP\_246 = 1 not(TMP\_246) = 0 TMP\_247 = 1 not(TMP\_247) = 0 TMP\_248 = 2 TMP\_249 = 0 not(TMP\_249) = 1 TMP\_250 = 0 not(TMP\_250) = 1 TMP\_251 = 1 not(TMP\_251) = 0 TMP\_252 = 1 not(TMP\_252) = 0 TMP\_253 = 1 not(TMP\_253) = 0 TMP\_254 = 2 TMP\_255 = 1 not(TMP\_255) = 0 TMP\_256 = 1 not(TMP\_256) = 0 TMP\_257 = 0 not(TMP\_257) = 1 TMP\_258 = 1 not(TMP\_258) = 0 TMP\_259 = 3 TMP\_260 = 0 not(TMP\_260) = 1 TMP\_261 = 0 not(TMP\_261) = 1 TMP\_262 = 0 TMP\_263 = 1 not(TMP\_263) = 0 TMP\_264 = 1 not(TMP\_264) = 0 TMP\_265 = 2 TMP\_266 = 0 not(TMP\_266) = 1 TMP\_267 = 0 not(TMP\_267) = 1 TMP\_268 = 1 not(TMP\_268) = 0 TMP\_269 = 1 not(TMP\_269) = 0 TMP\_270 = 1 not(TMP\_270) = 0 TMP\_271 = 2 TMP\_272 = 1 not(TMP\_272) = 0 TMP\_273 = 0 not(TMP\_273) = 1 TMP\_274 = 1 not(TMP\_274) = 0 TMP\_275 = 1 not(TMP\_275) = 0 TMP\_276 = 3 TMP\_277 = 0 not(TMP\_277) = 1 TMP\_278 = 0 not(TMP\_278) = 1 TMP\_279 = 0 TMP\_280 = 1 not(TMP\_280) = 0 TMP\_281 = 1 not(TMP\_281) = 0 TMP\_282 = 2 TMP\_283 = 0 not(TMP\_283) = 1 TMP\_284 = 0 not(TMP\_284) = 1 TMP\_285 = 1 not(TMP\_285) = 0 TMP\_286 = 1 not(TMP\_286) = 0 TMP\_287 = 1 not(TMP\_287) = 0 TMP\_288 = 2 TMP\_289 = 1 not(TMP\_289) = 0 TMP\_290 = 0 not(TMP\_290) = 1 TMP\_291 = 1 not(TMP\_291) = 0 TMP\_292 = 1 not(TMP\_292) = 0 TMP\_293 = 3 TMP\_294 = 0 not(TMP\_294) = 1 TMP\_295 = 0 not(TMP\_295) = 1 TMP\_296 = 0 TMP\_297 = 1 not(TMP\_297) = 0 TMP\_298 = 1 not(TMP\_298) = 0 TMP\_299 = 2 TMP\_300 = 0 not(TMP\_300) = 1 TMP\_301 = 0 not(TMP\_301) = 1 TMP\_302 = 1 not(TMP\_302) = 0 TMP\_303 = 1 not(TMP\_303) = 0 TMP\_304 = 1 not(TMP\_304) = 0 TMP\_305 = 2 TMP\_306 = 1 not(TMP\_306) = 0 TMP\_307 = 0 not(TMP\_307) = 1 TMP\_308 = 0 not(TMP\_308) = 1 TMP\_309 = 1 not(TMP\_309) = 0 TMP\_310 = 2 TMP\_311 = 0 not(TMP\_311) = 1 TMP\_312 = 0 not(TMP\_312) = 1 TMP\_313 = 0 TMP\_314 = 1 not(TMP\_314) = 0 TMP\_315 = 1 not(TMP\_315) = 0 TMP\_316 = 2 TMP\_317 = 0 not(TMP\_317) = 1 TMP\_318 = 0 not(TMP\_318) = 1 TMP\_319 = 1 not(TMP\_319) = 0 TMP\_320 = 1 not(TMP\_320) = 0 TMP\_321 = 1 not(TMP\_321) = 0 TMP\_322 = 2 TMP\_323 = 1 not(TMP\_323) = 0 TMP\_324 = 1 not(TMP\_324) = 0 TMP\_325 = 0 not(TMP\_325) = 1 TMP\_326 = 1 not(TMP\_326) = 0 TMP\_327 = 3 TMP\_328 = 0 not(TMP\_328) = 1 TMP\_329 = 0 not(TMP\_329) = 1 TMP\_330 = 0 TMP\_331 = 1 not(TMP\_331) = 0 TMP\_332 = 1 not(TMP\_332) = 0 TMP\_333 = 2 TMP\_334 = 0 not(TMP\_334) = 1 TMP\_335 = 0 not(TMP\_335) = 1 TMP\_336 = 1 not(TMP\_336) = 0 TMP\_337 = 1 not(TMP\_337) = 0 TMP\_338 = 1 not(TMP\_338) = 0 TMP\_339 = 2 Area\_0 = 10000 Distance\_0\_Rule\_0 = 100 Distance\_1\_Rule\_0 = 100 Area\_1 = 5000 Distance\_0\_Rule\_1 = 50 Distance\_1\_Rule\_1 = 100 Area\_2 = 70000 -(Rule\_2\_LB) = -75 Distance\_0\_Rule\_2 = 175 -(Rule\_2\_LB) = -100 Distance\_1\_Rule\_2 = 400 Area\_3 = 15000 -(Rule\_3\_LB) = -100 Distance\_0\_Rule\_3 = 150 -(Rule\_3\_LB) = 0 Distance\_1\_Rule\_3 = 100 Area\_4 = 22500 -(Rule\_4\_LB) = 0 Distance\_0\_Rule\_4 = 75 -(Rule\_4\_LB) = -100 Distance\_1\_Rule\_4 = 300 Area\_5 = 2500 -(Rule\_5\_LB) = 0 Distance\_0\_Rule\_5 = 25 -(Rule\_5\_LB) = -400 Distance\_1\_Rule\_5 = 100 TMP\_340 = 125000 .

- Solution #15 found. 15 Solutions, Resolution 976.038s, 8245803 Nodes (8,448.2 n/s), 16491522 Backtracks, 8245760 Fails, 0 Restarts

Rule\_2\_LB = 75 Rule\_2\_UB = 250 Rule\_2\_LB = 100 Rule\_2\_UB = 500 Rule\_3\_LB = 100 Rule\_3\_UB = 250 Rule\_3\_LB = 0 Rule\_3\_UB = 100 Rule\_4\_LB = 0 Rule\_4\_UB = 75 Rule\_4\_LB = 100 Rule\_4\_UB = 400 Rule\_5\_LB = 0 Rule\_5\_UB = 25 Rule\_5\_LB = 400 Rule\_5\_UB = 500 Overlaps\_0\_0 = 0 Overlaps\_0\_1 = 1 Overlaps\_0\_2 = 0 Overlaps\_0\_3 = 0 Overlaps\_0\_4 = 0 Overlaps\_0\_5 = 0 Overlaps\_1\_0 = 0 Overlaps\_1\_1 = 0 Overlaps\_1\_2 = 0 Overlaps\_1\_3 = 0 Overlaps\_1\_4 = 0 Overlaps\_1\_5 = 0 Overlaps\_2\_0 = 0 Overlaps\_2\_1 = 0 Overlaps\_2\_2 = 0 Overlaps\_2\_3 = 0 Overlaps\_2\_4 = 0 Overlaps\_2\_5 = 0 Overlaps\_3\_0 = 0 Overlaps\_3\_1 = 0 Overlaps\_3\_2 = 0 Overlaps\_3\_3 = 0 Overlaps\_3\_4 = 0 Overlaps\_3\_5 = 0 Overlaps\_4\_0 = 0 Overlaps\_4\_1 = 0 Overlaps\_4\_2 = 0 Overlaps\_4\_3 = 0 Overlaps\_4\_4 = 0 Overlaps\_4\_5 = 0 Overlaps\_5\_0 = 0 Overlaps\_5\_1 = 0 Overlaps\_5\_2 = 0 Overlaps\_5\_3 = 0 Overlaps\_5\_4 = 0 Overlaps\_5\_5 = 0 TMP\_0 = 1 not(TMP\_0) = 0 TMP\_1 = 1 not(TMP\_1) = 0 TMP\_2 = 0 not(TMP\_2) = 1 TMP\_3 = 1 not(TMP\_3) = 0 TMP\_4 = 3 TMP\_5 = 0 not(TMP\_5) = 1 TMP\_6 = 0 not(TMP\_6) = 1 TMP\_7 = 0 TMP\_8 = 1 not(TMP\_8) = 0 TMP\_9 = 1 not(TMP\_9) = 0 TMP\_10 = 2 TMP\_11 = 0 not(TMP\_11) = 1 TMP\_12 = 0 not(TMP\_12) = 1 TMP\_13 = 1 not(TMP\_13) = 0 TMP\_14 = 1 not(TMP\_14) = 0 TMP\_15 = 1 not(TMP\_15) = 0 TMP\_16 = 2 TMP\_17 = 0 not(TMP\_17) = 1 TMP\_18 = 1 not(TMP\_18) = 0 TMP\_19 = 1 not(TMP\_19) = 0 TMP\_20 = 1 not(TMP\_20) = 0 TMP\_21 = 3 TMP\_22 = 0 not(TMP\_22) = 1 TMP\_23 = 0 not(TMP\_23) = 1 TMP\_24 = 0 TMP\_25 = 1 not(TMP\_25) = 0 TMP\_26 = 1 not(TMP\_26) = 0 TMP\_27 = 2 TMP\_28 = 0 not(TMP\_28) = 1 TMP\_29 = 0 not(TMP\_29) = 1 TMP\_30 = 1 not(TMP\_30) = 0 TMP\_31 = 1 not(TMP\_31) = 0 TMP\_32 = 1 not(TMP\_32) = 0 TMP\_33 = 2 TMP\_34 = 1 not(TMP\_34) = 0 TMP\_35 = 1 not(TMP\_35) = 0 TMP\_36 = 0 not(TMP\_36) = 1 TMP\_37 = 1 not(TMP\_37) = 0 TMP\_38 = 3 TMP\_39 = 0 not(TMP\_39) = 1 TMP\_40 = 0 not(TMP\_40) = 1 TMP\_41 = 0 TMP\_42 = 1 not(TMP\_42) = 0 TMP\_43 = 1 not(TMP\_43) = 0 TMP\_44 = 2 TMP\_45 = 0 not(TMP\_45) = 1 TMP\_46 = 0 not(TMP\_46) = 1 TMP\_47 = 1 not(TMP\_47) = 0 TMP\_48 = 1 not(TMP\_48) = 0 TMP\_49 = 1 not(TMP\_49) = 0 TMP\_50 = 2 TMP\_51 = 0 not(TMP\_51) = 1 TMP\_52 = 1 not(TMP\_52) = 0 TMP\_53 = 1 not(TMP\_53) = 0 TMP\_54 = 1 not(TMP\_54) = 0 TMP\_55 = 3 TMP\_56 = 0 not(TMP\_56) = 1 TMP\_57 = 0 not(TMP\_57) = 1 TMP\_58 = 0 TMP\_59 = 1 not(TMP\_59) = 0 TMP\_60 = 1 not(TMP\_60) = 0 TMP\_61 = 2 TMP\_62 = 0 not(TMP\_62) = 1 TMP\_63 = 0 not(TMP\_63) = 1 TMP\_64 = 1 not(TMP\_64) = 0 TMP\_65 = 1 not(TMP\_65) = 0 TMP\_66 = 1 not(TMP\_66) = 0 TMP\_67 = 2 TMP\_68 = 0 not(TMP\_68) = 1 TMP\_69 = 1 not(TMP\_69) = 0 TMP\_70 = 1 not(TMP\_70) = 0 TMP\_71 = 1 not(TMP\_71) = 0 TMP\_72 = 3 TMP\_73 = 0 not(TMP\_73) = 1 TMP\_74 = 0 not(TMP\_74) = 1 TMP\_75 = 0 TMP\_76 = 1 not(TMP\_76) = 0 TMP\_77 = 1 not(TMP\_77) = 0 TMP\_78 = 2 TMP\_79 = 0 not(TMP\_79) = 1 TMP\_80 = 0 not(TMP\_80) = 1 TMP\_81 = 1 not(TMP\_81) = 0 TMP\_82 = 1 not(TMP\_82) = 0 TMP\_83 = 1 not(TMP\_83) = 0 TMP\_84 = 2 TMP\_85 = 0 not(TMP\_85) = 1 TMP\_86 = 1 not(TMP\_86) = 0 TMP\_87 = 1 not(TMP\_87) = 0 TMP\_88 = 1 not(TMP\_88) = 0 TMP\_89 = 3 TMP\_90 = 0 not(TMP\_90) = 1 TMP\_91 = 0 not(TMP\_91) = 1 TMP\_92 = 0 TMP\_93 = 1 not(TMP\_93) = 0 TMP\_94 = 1 not(TMP\_94) = 0 TMP\_95 = 2 TMP\_96 = 0 not(TMP\_96) = 1 TMP\_97 = 0 not(TMP\_97) = 1 TMP\_98 = 1 not(TMP\_98) = 0 TMP\_99 = 1 not(TMP\_99) = 0 TMP\_100 = 1 not(TMP\_100) = 0 TMP\_101 = 2 TMP\_102 = 0 not(TMP\_102) = 1 TMP\_103 = 1 not(TMP\_103) = 0 TMP\_104 = 1 not(TMP\_104) = 0 TMP\_105 = 0 not(TMP\_105) = 1 TMP\_106 = 2 TMP\_107 = 0 not(TMP\_107) = 1 TMP\_108 = 0 not(TMP\_108) = 1 TMP\_109 = 0 TMP\_110 = 1 not(TMP\_110) = 0 TMP\_111 = 1 not(TMP\_111) = 0 TMP\_112 = 2 TMP\_113 = 0 not(TMP\_113) = 1 TMP\_114 = 0 not(TMP\_114) = 1 TMP\_115 = 1 not(TMP\_115) = 0 TMP\_116 = 1 not(TMP\_116) = 0 TMP\_117 = 1 not(TMP\_117) = 0 TMP\_118 = 2 TMP\_119 = 1 not(TMP\_119) = 0 TMP\_120 = 1 not(TMP\_120) = 0 TMP\_121 = 1 not(TMP\_121) = 0 TMP\_122 = 0 not(TMP\_122) = 1 TMP\_123 = 3 TMP\_124 = 0 not(TMP\_124) = 1 TMP\_125 = 0 not(TMP\_125) = 1 TMP\_126 = 0 TMP\_127 = 1 not(TMP\_127) = 0 TMP\_128 = 1 not(TMP\_128) = 0 TMP\_129 = 2 TMP\_130 = 0 not(TMP\_130) = 1 TMP\_131 = 0 not(TMP\_131) = 1 TMP\_132 = 1 not(TMP\_132) = 0 TMP\_133 = 1 not(TMP\_133) = 0 TMP\_134 = 1 not(TMP\_134) = 0 TMP\_135 = 2 TMP\_136 = 0 not(TMP\_136) = 1 TMP\_137 = 1 not(TMP\_137) = 0 TMP\_138 = 1 not(TMP\_138) = 0 TMP\_139 = 0 not(TMP\_139) = 1 TMP\_140 = 2 TMP\_141 = 0 not(TMP\_141) = 1 TMP\_142 = 0 not(TMP\_142) = 1 TMP\_143 = 0 TMP\_144 = 1 not(TMP\_144) = 0 TMP\_145 = 1 not(TMP\_145) = 0 TMP\_146 = 2 TMP\_147 = 0 not(TMP\_147) = 1 TMP\_148 = 0 not(TMP\_148) = 1 TMP\_149 = 1 not(TMP\_149) = 0 TMP\_150 = 1 not(TMP\_150) = 0 TMP\_151 = 1 not(TMP\_151) = 0 TMP\_152 = 2 TMP\_153 = 0 not(TMP\_153) = 1 TMP\_154 = 1 not(TMP\_154) = 0 TMP\_155 = 1 not(TMP\_155) = 0 TMP\_156 = 0 not(TMP\_156) = 1 TMP\_157 = 2 TMP\_158 = 0 not(TMP\_158) = 1 TMP\_159 = 0 not(TMP\_159) = 1 TMP\_160 = 0 TMP\_161 = 1 not(TMP\_161) = 0 TMP\_162 = 1 not(TMP\_162) = 0 TMP\_163 = 2 TMP\_164 = 0 not(TMP\_164) = 1 TMP\_165 = 0 not(TMP\_165) = 1 TMP\_166 = 1 not(TMP\_166) = 0 TMP\_167 = 1 not(TMP\_167) = 0 TMP\_168 = 1 not(TMP\_168) = 0 TMP\_169 = 2 TMP\_170 = 1 not(TMP\_170) = 0 TMP\_171 = 1 not(TMP\_171) = 0 TMP\_172 = 0 not(TMP\_172) = 1 TMP\_173 = 1 not(TMP\_173) = 0 TMP\_174 = 3 TMP\_175 = 0 not(TMP\_175) = 1 TMP\_176 = 0 not(TMP\_176) = 1 TMP\_177 = 0 TMP\_178 = 1 not(TMP\_178) = 0 TMP\_179 = 1 not(TMP\_179) = 0 TMP\_180 = 2 TMP\_181 = 0 not(TMP\_181) = 1 TMP\_182 = 0 not(TMP\_182) = 1 TMP\_183 = 1 not(TMP\_183) = 0 TMP\_184 = 1 not(TMP\_184) = 0 TMP\_185 = 1 not(TMP\_185) = 0 TMP\_186 = 2 TMP\_187 = 1 not(TMP\_187) = 0 TMP\_188 = 1 not(TMP\_188) = 0 TMP\_189 = 1 not(TMP\_189) = 0 TMP\_190 = 0 not(TMP\_190) = 1 TMP\_191 = 3 TMP\_192 = 0 not(TMP\_192) = 1 TMP\_193 = 0 not(TMP\_193) = 1 TMP\_194 = 0 TMP\_195 = 1 not(TMP\_195) = 0 TMP\_196 = 1 not(TMP\_196) = 0 TMP\_197 = 2 TMP\_198 = 0 not(TMP\_198) = 1 TMP\_199 = 0 not(TMP\_199) = 1 TMP\_200 = 1 not(TMP\_200) = 0 TMP\_201 = 1 not(TMP\_201) = 0 TMP\_202 = 1 not(TMP\_202) = 0 TMP\_203 = 2 TMP\_204 = 1 not(TMP\_204) = 0 TMP\_205 = 0 not(TMP\_205) = 1 TMP\_206 = 1 not(TMP\_206) = 0 TMP\_207 = 1 not(TMP\_207) = 0 TMP\_208 = 3 TMP\_209 = 0 not(TMP\_209) = 1 TMP\_210 = 0 not(TMP\_210) = 1 TMP\_211 = 0 TMP\_212 = 1 not(TMP\_212) = 0 TMP\_213 = 1 not(TMP\_213) = 0 TMP\_214 = 2 TMP\_215 = 0 not(TMP\_215) = 1 TMP\_216 = 0 not(TMP\_216) = 1 TMP\_217 = 1 not(TMP\_217) = 0 TMP\_218 = 1 not(TMP\_218) = 0 TMP\_219 = 1 not(TMP\_219) = 0 TMP\_220 = 2 TMP\_221 = 1 not(TMP\_221) = 0 TMP\_222 = 0 not(TMP\_222) = 1 TMP\_223 = 0 not(TMP\_223) = 1 TMP\_224 = 1 not(TMP\_224) = 0 TMP\_225 = 2 TMP\_226 = 0 not(TMP\_226) = 1 TMP\_227 = 0 not(TMP\_227) = 1 TMP\_228 = 0 TMP\_229 = 1 not(TMP\_229) = 0 TMP\_230 = 1 not(TMP\_230) = 0 TMP\_231 = 2 TMP\_232 = 0 not(TMP\_232) = 1 TMP\_233 = 0 not(TMP\_233) = 1 TMP\_234 = 1 not(TMP\_234) = 0 TMP\_235 = 1 not(TMP\_235) = 0 TMP\_236 = 1 not(TMP\_236) = 0 TMP\_237 = 2 TMP\_238 = 1 not(TMP\_238) = 0 TMP\_239 = 1 not(TMP\_239) = 0 TMP\_240 = 1 not(TMP\_240) = 0 TMP\_241 = 0 not(TMP\_241) = 1 TMP\_242 = 3 TMP\_243 = 0 not(TMP\_243) = 1 TMP\_244 = 0 not(TMP\_244) = 1 TMP\_245 = 0 TMP\_246 = 1 not(TMP\_246) = 0 TMP\_247 = 1 not(TMP\_247) = 0 TMP\_248 = 2 TMP\_249 = 0 not(TMP\_249) = 1 TMP\_250 = 0 not(TMP\_250) = 1 TMP\_251 = 1 not(TMP\_251) = 0 TMP\_252 = 1 not(TMP\_252) = 0 TMP\_253 = 1 not(TMP\_253) = 0 TMP\_254 = 2 TMP\_255 = 1 not(TMP\_255) = 0 TMP\_256 = 1 not(TMP\_256) = 0 TMP\_257 = 0 not(TMP\_257) = 1 TMP\_258 = 1 not(TMP\_258) = 0 TMP\_259 = 3 TMP\_260 = 0 not(TMP\_260) = 1 TMP\_261 = 0 not(TMP\_261) = 1 TMP\_262 = 0 TMP\_263 = 1 not(TMP\_263) = 0 TMP\_264 = 1 not(TMP\_264) = 0 TMP\_265 = 2 TMP\_266 = 0 not(TMP\_266) = 1 TMP\_267 = 0 not(TMP\_267) = 1 TMP\_268 = 1 not(TMP\_268) = 0 TMP\_269 = 1 not(TMP\_269) = 0 TMP\_270 = 1 not(TMP\_270) = 0 TMP\_271 = 2 TMP\_272 = 1 not(TMP\_272) = 0 TMP\_273 = 0 not(TMP\_273) = 1 TMP\_274 = 1 not(TMP\_274) = 0 TMP\_275 = 1 not(TMP\_275) = 0 TMP\_276 = 3 TMP\_277 = 0 not(TMP\_277) = 1 TMP\_278 = 0 not(TMP\_278) = 1 TMP\_279 = 0 TMP\_280 = 1 not(TMP\_280) = 0 TMP\_281 = 1 not(TMP\_281) = 0 TMP\_282 = 2 TMP\_283 = 0 not(TMP\_283) = 1 TMP\_284 = 0 not(TMP\_284) = 1 TMP\_285 = 1 not(TMP\_285) = 0 TMP\_286 = 1 not(TMP\_286) = 0 TMP\_287 = 1 not(TMP\_287) = 0 TMP\_288 = 2 TMP\_289 = 1 not(TMP\_289) = 0 TMP\_290 = 0 not(TMP\_290) = 1 TMP\_291 = 1 not(TMP\_291) = 0 TMP\_292 = 1 not(TMP\_292) = 0 TMP\_293 = 3 TMP\_294 = 0 not(TMP\_294) = 1 TMP\_295 = 0 not(TMP\_295) = 1 TMP\_296 = 0 TMP\_297 = 1 not(TMP\_297) = 0 TMP\_298 = 1 not(TMP\_298) = 0 TMP\_299 = 2 TMP\_300 = 0 not(TMP\_300) = 1 TMP\_301 = 0 not(TMP\_301) = 1 TMP\_302 = 1 not(TMP\_302) = 0 TMP\_303 = 1 not(TMP\_303) = 0 TMP\_304 = 1 not(TMP\_304) = 0 TMP\_305 = 2 TMP\_306 = 1 not(TMP\_306) = 0 TMP\_307 = 0 not(TMP\_307) = 1 TMP\_308 = 0 not(TMP\_308) = 1 TMP\_309 = 1 not(TMP\_309) = 0 TMP\_310 = 2 TMP\_311 = 0 not(TMP\_311) = 1 TMP\_312 = 0 not(TMP\_312) = 1 TMP\_313 = 0 TMP\_314 = 1 not(TMP\_314) = 0 TMP\_315 = 1 not(TMP\_315) = 0 TMP\_316 = 2 TMP\_317 = 0 not(TMP\_317) = 1 TMP\_318 = 0 not(TMP\_318) = 1 TMP\_319 = 1 not(TMP\_319) = 0 TMP\_320 = 1 not(TMP\_320) = 0 TMP\_321 = 1 not(TMP\_321) = 0 TMP\_322 = 2 TMP\_323 = 1 not(TMP\_323) = 0 TMP\_324 = 1 not(TMP\_324) = 0 TMP\_325 = 0 not(TMP\_325) = 1 TMP\_326 = 1 not(TMP\_326) = 0 TMP\_327 = 3 TMP\_328 = 0 not(TMP\_328) = 1 TMP\_329 = 0 not(TMP\_329) = 1 TMP\_330 = 0 TMP\_331 = 1 not(TMP\_331) = 0 TMP\_332 = 1 not(TMP\_332) = 0 TMP\_333 = 2 TMP\_334 = 0 not(TMP\_334) = 1 TMP\_335 = 0 not(TMP\_335) = 1 TMP\_336 = 1 not(TMP\_336) = 0 TMP\_337 = 1 not(TMP\_337) = 0 TMP\_338 = 1 not(TMP\_338) = 0 TMP\_339 = 2 Area\_0 = 10000 Distance\_0\_Rule\_0 = 100 Distance\_1\_Rule\_0 = 100 Area\_1 = 5000 Distance\_0\_Rule\_1 = 50 Distance\_1\_Rule\_1 = 100 Area\_2 = 70000 -(Rule\_2\_LB) = -75 Distance\_0\_Rule\_2 = 175 -(Rule\_2\_LB) = -100 Distance\_1\_Rule\_2 = 400 Area\_3 = 15000 -(Rule\_3\_LB) = -100 Distance\_0\_Rule\_3 = 150 -(Rule\_3\_LB) = 0 Distance\_1\_Rule\_3 = 100 Area\_4 = 22500 -(Rule\_4\_LB) = 0 Distance\_0\_Rule\_4 = 75 -(Rule\_4\_LB) = -100 Distance\_1\_Rule\_4 = 300 Area\_5 = 2500 -(Rule\_5\_LB) = 0 Distance\_0\_Rule\_5 = 25 -(Rule\_5\_LB) = -400 Distance\_1\_Rule\_5 = 100 TMP\_340 = 125000 .

- Solution #16 found. 16 Solutions, Resolution 976.039s, 8245804 Nodes (8,448.2 n/s), 16491523 Backtracks, 8245760 Fails, 0 Restarts

Rule\_2\_LB = 75 Rule\_2\_UB = 250 Rule\_2\_LB = 100 Rule\_2\_UB = 500 Rule\_3\_LB = 100 Rule\_3\_UB = 250 Rule\_3\_LB = 0 Rule\_3\_UB = 100 Rule\_4\_LB = 0 Rule\_4\_UB = 75 Rule\_4\_LB = 100 Rule\_4\_UB = 400 Rule\_5\_LB = 0 Rule\_5\_UB = 25 Rule\_5\_LB = 400 Rule\_5\_UB = 500 Overlaps\_0\_0 = 0 Overlaps\_0\_1 = 1 Overlaps\_0\_2 = 0 Overlaps\_0\_3 = 0 Overlaps\_0\_4 = 0 Overlaps\_0\_5 = 0 Overlaps\_1\_0 = 1 Overlaps\_1\_1 = 0 Overlaps\_1\_2 = 0 Overlaps\_1\_3 = 0 Overlaps\_1\_4 = 0 Overlaps\_1\_5 = 0 Overlaps\_2\_0 = 0 Overlaps\_2\_1 = 0 Overlaps\_2\_2 = 0 Overlaps\_2\_3 = 0 Overlaps\_2\_4 = 0 Overlaps\_2\_5 = 0 Overlaps\_3\_0 = 0 Overlaps\_3\_1 = 0 Overlaps\_3\_2 = 0 Overlaps\_3\_3 = 0 Overlaps\_3\_4 = 0 Overlaps\_3\_5 = 0 Overlaps\_4\_0 = 0 Overlaps\_4\_1 = 0 Overlaps\_4\_2 = 0 Overlaps\_4\_3 = 0 Overlaps\_4\_4 = 0 Overlaps\_4\_5 = 0 Overlaps\_5\_0 = 0 Overlaps\_5\_1 = 0 Overlaps\_5\_2 = 0 Overlaps\_5\_3 = 0 Overlaps\_5\_4 = 0 Overlaps\_5\_5 = 0 TMP\_0 = 1 not(TMP\_0) = 0 TMP\_1 = 1 not(TMP\_1) = 0 TMP\_2 = 0 not(TMP\_2) = 1 TMP\_3 = 1 not(TMP\_3) = 0 TMP\_4 = 3 TMP\_5 = 0 not(TMP\_5) = 1 TMP\_6 = 0 not(TMP\_6) = 1 TMP\_7 = 0 TMP\_8 = 1 not(TMP\_8) = 0 TMP\_9 = 1 not(TMP\_9) = 0 TMP\_10 = 2 TMP\_11 = 0 not(TMP\_11) = 1 TMP\_12 = 0 not(TMP\_12) = 1 TMP\_13 = 1 not(TMP\_13) = 0 TMP\_14 = 1 not(TMP\_14) = 0 TMP\_15 = 1 not(TMP\_15) = 0 TMP\_16 = 2 TMP\_17 = 0 not(TMP\_17) = 1 TMP\_18 = 1 not(TMP\_18) = 0 TMP\_19 = 1 not(TMP\_19) = 0 TMP\_20 = 1 not(TMP\_20) = 0 TMP\_21 = 3 TMP\_22 = 0 not(TMP\_22) = 1 TMP\_23 = 0 not(TMP\_23) = 1 TMP\_24 = 0 TMP\_25 = 1 not(TMP\_25) = 0 TMP\_26 = 1 not(TMP\_26) = 0 TMP\_27 = 2 TMP\_28 = 0 not(TMP\_28) = 1 TMP\_29 = 0 not(TMP\_29) = 1 TMP\_30 = 1 not(TMP\_30) = 0 TMP\_31 = 1 not(TMP\_31) = 0 TMP\_32 = 1 not(TMP\_32) = 0 TMP\_33 = 2 TMP\_34 = 1 not(TMP\_34) = 0 TMP\_35 = 1 not(TMP\_35) = 0 TMP\_36 = 0 not(TMP\_36) = 1 TMP\_37 = 1 not(TMP\_37) = 0 TMP\_38 = 3 TMP\_39 = 0 not(TMP\_39) = 1 TMP\_40 = 0 not(TMP\_40) = 1 TMP\_41 = 0 TMP\_42 = 1 not(TMP\_42) = 0 TMP\_43 = 1 not(TMP\_43) = 0 TMP\_44 = 2 TMP\_45 = 0 not(TMP\_45) = 1 TMP\_46 = 0 not(TMP\_46) = 1 TMP\_47 = 1 not(TMP\_47) = 0 TMP\_48 = 1 not(TMP\_48) = 0 TMP\_49 = 1 not(TMP\_49) = 0 TMP\_50 = 2 TMP\_51 = 0 not(TMP\_51) = 1 TMP\_52 = 1 not(TMP\_52) = 0 TMP\_53 = 1 not(TMP\_53) = 0 TMP\_54 = 1 not(TMP\_54) = 0 TMP\_55 = 3 TMP\_56 = 0 not(TMP\_56) = 1 TMP\_57 = 0 not(TMP\_57) = 1 TMP\_58 = 0 TMP\_59 = 1 not(TMP\_59) = 0 TMP\_60 = 1 not(TMP\_60) = 0 TMP\_61 = 2 TMP\_62 = 0 not(TMP\_62) = 1 TMP\_63 = 0 not(TMP\_63) = 1 TMP\_64 = 1 not(TMP\_64) = 0 TMP\_65 = 1 not(TMP\_65) = 0 TMP\_66 = 1 not(TMP\_66) = 0 TMP\_67 = 2 TMP\_68 = 0 not(TMP\_68) = 1 TMP\_69 = 1 not(TMP\_69) = 0 TMP\_70 = 1 not(TMP\_70) = 0 TMP\_71 = 1 not(TMP\_71) = 0 TMP\_72 = 3 TMP\_73 = 0 not(TMP\_73) = 1 TMP\_74 = 0 not(TMP\_74) = 1 TMP\_75 = 0 TMP\_76 = 1 not(TMP\_76) = 0 TMP\_77 = 1 not(TMP\_77) = 0 TMP\_78 = 2 TMP\_79 = 0 not(TMP\_79) = 1 TMP\_80 = 0 not(TMP\_80) = 1 TMP\_81 = 1 not(TMP\_81) = 0 TMP\_82 = 1 not(TMP\_82) = 0 TMP\_83 = 1 not(TMP\_83) = 0 TMP\_84 = 2 TMP\_85 = 0 not(TMP\_85) = 1 TMP\_86 = 1 not(TMP\_86) = 0 TMP\_87 = 1 not(TMP\_87) = 0 TMP\_88 = 1 not(TMP\_88) = 0 TMP\_89 = 3 TMP\_90 = 0 not(TMP\_90) = 1 TMP\_91 = 0 not(TMP\_91) = 1 TMP\_92 = 0 TMP\_93 = 1 not(TMP\_93) = 0 TMP\_94 = 1 not(TMP\_94) = 0 TMP\_95 = 2 TMP\_96 = 0 not(TMP\_96) = 1 TMP\_97 = 0 not(TMP\_97) = 1 TMP\_98 = 1 not(TMP\_98) = 0 TMP\_99 = 1 not(TMP\_99) = 0 TMP\_100 = 1 not(TMP\_100) = 0 TMP\_101 = 2 TMP\_102 = 0 not(TMP\_102) = 1 TMP\_103 = 1 not(TMP\_103) = 0 TMP\_104 = 1 not(TMP\_104) = 0 TMP\_105 = 0 not(TMP\_105) = 1 TMP\_106 = 2 TMP\_107 = 0 not(TMP\_107) = 1 TMP\_108 = 0 not(TMP\_108) = 1 TMP\_109 = 0 TMP\_110 = 1 not(TMP\_110) = 0 TMP\_111 = 1 not(TMP\_111) = 0 TMP\_112 = 2 TMP\_113 = 0 not(TMP\_113) = 1 TMP\_114 = 0 not(TMP\_114) = 1 TMP\_115 = 1 not(TMP\_115) = 0 TMP\_116 = 1 not(TMP\_116) = 0 TMP\_117 = 1 not(TMP\_117) = 0 TMP\_118 = 2 TMP\_119 = 1 not(TMP\_119) = 0 TMP\_120 = 1 not(TMP\_120) = 0 TMP\_121 = 1 not(TMP\_121) = 0 TMP\_122 = 0 not(TMP\_122) = 1 TMP\_123 = 3 TMP\_124 = 0 not(TMP\_124) = 1 TMP\_125 = 0 not(TMP\_125) = 1 TMP\_126 = 0 TMP\_127 = 1 not(TMP\_127) = 0 TMP\_128 = 1 not(TMP\_128) = 0 TMP\_129 = 2 TMP\_130 = 0 not(TMP\_130) = 1 TMP\_131 = 0 not(TMP\_131) = 1 TMP\_132 = 1 not(TMP\_132) = 0 TMP\_133 = 1 not(TMP\_133) = 0 TMP\_134 = 1 not(TMP\_134) = 0 TMP\_135 = 2 TMP\_136 = 0 not(TMP\_136) = 1 TMP\_137 = 1 not(TMP\_137) = 0 TMP\_138 = 1 not(TMP\_138) = 0 TMP\_139 = 0 not(TMP\_139) = 1 TMP\_140 = 2 TMP\_141 = 0 not(TMP\_141) = 1 TMP\_142 = 0 not(TMP\_142) = 1 TMP\_143 = 0 TMP\_144 = 1 not(TMP\_144) = 0 TMP\_145 = 1 not(TMP\_145) = 0 TMP\_146 = 2 TMP\_147 = 0 not(TMP\_147) = 1 TMP\_148 = 0 not(TMP\_148) = 1 TMP\_149 = 1 not(TMP\_149) = 0 TMP\_150 = 1 not(TMP\_150) = 0 TMP\_151 = 1 not(TMP\_151) = 0 TMP\_152 = 2 TMP\_153 = 0 not(TMP\_153) = 1 TMP\_154 = 1 not(TMP\_154) = 0 TMP\_155 = 1 not(TMP\_155) = 0 TMP\_156 = 0 not(TMP\_156) = 1 TMP\_157 = 2 TMP\_158 = 0 not(TMP\_158) = 1 TMP\_159 = 0 not(TMP\_159) = 1 TMP\_160 = 0 TMP\_161 = 1 not(TMP\_161) = 0 TMP\_162 = 1 not(TMP\_162) = 0 TMP\_163 = 2 TMP\_164 = 0 not(TMP\_164) = 1 TMP\_165 = 0 not(TMP\_165) = 1 TMP\_166 = 1 not(TMP\_166) = 0 TMP\_167 = 1 not(TMP\_167) = 0 TMP\_168 = 1 not(TMP\_168) = 0 TMP\_169 = 2 TMP\_170 = 1 not(TMP\_170) = 0 TMP\_171 = 1 not(TMP\_171) = 0 TMP\_172 = 0 not(TMP\_172) = 1 TMP\_173 = 1 not(TMP\_173) = 0 TMP\_174 = 3 TMP\_175 = 0 not(TMP\_175) = 1 TMP\_176 = 0 not(TMP\_176) = 1 TMP\_177 = 0 TMP\_178 = 1 not(TMP\_178) = 0 TMP\_179 = 1 not(TMP\_179) = 0 TMP\_180 = 2 TMP\_181 = 0 not(TMP\_181) = 1 TMP\_182 = 0 not(TMP\_182) = 1 TMP\_183 = 1 not(TMP\_183) = 0 TMP\_184 = 1 not(TMP\_184) = 0 TMP\_185 = 1 not(TMP\_185) = 0 TMP\_186 = 2 TMP\_187 = 1 not(TMP\_187) = 0 TMP\_188 = 1 not(TMP\_188) = 0 TMP\_189 = 1 not(TMP\_189) = 0 TMP\_190 = 0 not(TMP\_190) = 1 TMP\_191 = 3 TMP\_192 = 0 not(TMP\_192) = 1 TMP\_193 = 0 not(TMP\_193) = 1 TMP\_194 = 0 TMP\_195 = 1 not(TMP\_195) = 0 TMP\_196 = 1 not(TMP\_196) = 0 TMP\_197 = 2 TMP\_198 = 0 not(TMP\_198) = 1 TMP\_199 = 0 not(TMP\_199) = 1 TMP\_200 = 1 not(TMP\_200) = 0 TMP\_201 = 1 not(TMP\_201) = 0 TMP\_202 = 1 not(TMP\_202) = 0 TMP\_203 = 2 TMP\_204 = 1 not(TMP\_204) = 0 TMP\_205 = 0 not(TMP\_205) = 1 TMP\_206 = 1 not(TMP\_206) = 0 TMP\_207 = 1 not(TMP\_207) = 0 TMP\_208 = 3 TMP\_209 = 0 not(TMP\_209) = 1 TMP\_210 = 0 not(TMP\_210) = 1 TMP\_211 = 0 TMP\_212 = 1 not(TMP\_212) = 0 TMP\_213 = 1 not(TMP\_213) = 0 TMP\_214 = 2 TMP\_215 = 0 not(TMP\_215) = 1 TMP\_216 = 0 not(TMP\_216) = 1 TMP\_217 = 1 not(TMP\_217) = 0 TMP\_218 = 1 not(TMP\_218) = 0 TMP\_219 = 1 not(TMP\_219) = 0 TMP\_220 = 2 TMP\_221 = 1 not(TMP\_221) = 0 TMP\_222 = 0 not(TMP\_222) = 1 TMP\_223 = 0 not(TMP\_223) = 1 TMP\_224 = 1 not(TMP\_224) = 0 TMP\_225 = 2 TMP\_226 = 0 not(TMP\_226) = 1 TMP\_227 = 0 not(TMP\_227) = 1 TMP\_228 = 0 TMP\_229 = 1 not(TMP\_229) = 0 TMP\_230 = 1 not(TMP\_230) = 0 TMP\_231 = 2 TMP\_232 = 0 not(TMP\_232) = 1 TMP\_233 = 0 not(TMP\_233) = 1 TMP\_234 = 1 not(TMP\_234) = 0 TMP\_235 = 1 not(TMP\_235) = 0 TMP\_236 = 1 not(TMP\_236) = 0 TMP\_237 = 2 TMP\_238 = 1 not(TMP\_238) = 0 TMP\_239 = 1 not(TMP\_239) = 0 TMP\_240 = 1 not(TMP\_240) = 0 TMP\_241 = 0 not(TMP\_241) = 1 TMP\_242 = 3 TMP\_243 = 0 not(TMP\_243) = 1 TMP\_244 = 0 not(TMP\_244) = 1 TMP\_245 = 0 TMP\_246 = 1 not(TMP\_246) = 0 TMP\_247 = 1 not(TMP\_247) = 0 TMP\_248 = 2 TMP\_249 = 0 not(TMP\_249) = 1 TMP\_250 = 0 not(TMP\_250) = 1 TMP\_251 = 1 not(TMP\_251) = 0 TMP\_252 = 1 not(TMP\_252) = 0 TMP\_253 = 1 not(TMP\_253) = 0 TMP\_254 = 2 TMP\_255 = 1 not(TMP\_255) = 0 TMP\_256 = 1 not(TMP\_256) = 0 TMP\_257 = 0 not(TMP\_257) = 1 TMP\_258 = 1 not(TMP\_258) = 0 TMP\_259 = 3 TMP\_260 = 0 not(TMP\_260) = 1 TMP\_261 = 0 not(TMP\_261) = 1 TMP\_262 = 0 TMP\_263 = 1 not(TMP\_263) = 0 TMP\_264 = 1 not(TMP\_264) = 0 TMP\_265 = 2 TMP\_266 = 0 not(TMP\_266) = 1 TMP\_267 = 0 not(TMP\_267) = 1 TMP\_268 = 1 not(TMP\_268) = 0 TMP\_269 = 1 not(TMP\_269) = 0 TMP\_270 = 1 not(TMP\_270) = 0 TMP\_271 = 2 TMP\_272 = 1 not(TMP\_272) = 0 TMP\_273 = 0 not(TMP\_273) = 1 TMP\_274 = 1 not(TMP\_274) = 0 TMP\_275 = 1 not(TMP\_275) = 0 TMP\_276 = 3 TMP\_277 = 0 not(TMP\_277) = 1 TMP\_278 = 0 not(TMP\_278) = 1 TMP\_279 = 0 TMP\_280 = 1 not(TMP\_280) = 0 TMP\_281 = 1 not(TMP\_281) = 0 TMP\_282 = 2 TMP\_283 = 0 not(TMP\_283) = 1 TMP\_284 = 0 not(TMP\_284) = 1 TMP\_285 = 1 not(TMP\_285) = 0 TMP\_286 = 1 not(TMP\_286) = 0 TMP\_287 = 1 not(TMP\_287) = 0 TMP\_288 = 2 TMP\_289 = 1 not(TMP\_289) = 0 TMP\_290 = 0 not(TMP\_290) = 1 TMP\_291 = 1 not(TMP\_291) = 0 TMP\_292 = 1 not(TMP\_292) = 0 TMP\_293 = 3 TMP\_294 = 0 not(TMP\_294) = 1 TMP\_295 = 0 not(TMP\_295) = 1 TMP\_296 = 0 TMP\_297 = 1 not(TMP\_297) = 0 TMP\_298 = 1 not(TMP\_298) = 0 TMP\_299 = 2 TMP\_300 = 0 not(TMP\_300) = 1 TMP\_301 = 0 not(TMP\_301) = 1 TMP\_302 = 1 not(TMP\_302) = 0 TMP\_303 = 1 not(TMP\_303) = 0 TMP\_304 = 1 not(TMP\_304) = 0 TMP\_305 = 2 TMP\_306 = 1 not(TMP\_306) = 0 TMP\_307 = 0 not(TMP\_307) = 1 TMP\_308 = 0 not(TMP\_308) = 1 TMP\_309 = 1 not(TMP\_309) = 0 TMP\_310 = 2 TMP\_311 = 0 not(TMP\_311) = 1 TMP\_312 = 0 not(TMP\_312) = 1 TMP\_313 = 0 TMP\_314 = 1 not(TMP\_314) = 0 TMP\_315 = 1 not(TMP\_315) = 0 TMP\_316 = 2 TMP\_317 = 0 not(TMP\_317) = 1 TMP\_318 = 0 not(TMP\_318) = 1 TMP\_319 = 1 not(TMP\_319) = 0 TMP\_320 = 1 not(TMP\_320) = 0 TMP\_321 = 1 not(TMP\_321) = 0 TMP\_322 = 2 TMP\_323 = 1 not(TMP\_323) = 0 TMP\_324 = 1 not(TMP\_324) = 0 TMP\_325 = 0 not(TMP\_325) = 1 TMP\_326 = 1 not(TMP\_326) = 0 TMP\_327 = 3 TMP\_328 = 0 not(TMP\_328) = 1 TMP\_329 = 0 not(TMP\_329) = 1 TMP\_330 = 0 TMP\_331 = 1 not(TMP\_331) = 0 TMP\_332 = 1 not(TMP\_332) = 0 TMP\_333 = 2 TMP\_334 = 0 not(TMP\_334) = 1 TMP\_335 = 0 not(TMP\_335) = 1 TMP\_336 = 1 not(TMP\_336) = 0 TMP\_337 = 1 not(TMP\_337) = 0 TMP\_338 = 1 not(TMP\_338) = 0 TMP\_339 = 2 Area\_0 = 10000 Distance\_0\_Rule\_0 = 100 Distance\_1\_Rule\_0 = 100 Area\_1 = 5000 Distance\_0\_Rule\_1 = 50 Distance\_1\_Rule\_1 = 100 Area\_2 = 70000 -(Rule\_2\_LB) = -75 Distance\_0\_Rule\_2 = 175 -(Rule\_2\_LB) = -100 Distance\_1\_Rule\_2 = 400 Area\_3 = 15000 -(Rule\_3\_LB) = -100 Distance\_0\_Rule\_3 = 150 -(Rule\_3\_LB) = 0 Distance\_1\_Rule\_3 = 100 Area\_4 = 22500 -(Rule\_4\_LB) = 0 Distance\_0\_Rule\_4 = 75 -(Rule\_4\_LB) = -100 Distance\_1\_Rule\_4 = 300 Area\_5 = 2500 -(Rule\_5\_LB) = 0 Distance\_0\_Rule\_5 = 25 -(Rule\_5\_LB) = -400 Distance\_1\_Rule\_5 = 100 TMP\_340 = 125000 .

- Solution #17 found. 17 Solutions, Resolution 1130.530s, 9453484 Nodes (8,362.0 n/s), 18906606 Backtracks, 9453440 Fails, 0 Restarts

Rule\_2\_LB = 0 Rule\_2\_UB = 25 Rule\_2\_LB = 100 Rule\_2\_UB = 500 Rule\_3\_LB = 100 Rule\_3\_UB = 250 Rule\_3\_LB = 0 Rule\_3\_UB = 400 Rule\_4\_LB = 25 Rule\_4\_UB = 100 Rule\_4\_LB = 100 Rule\_4\_UB = 400 Rule\_5\_LB = 75 Rule\_5\_UB = 250 Rule\_5\_LB = 400 Rule\_5\_UB = 500 Overlaps\_0\_0 = 0 Overlaps\_0\_1 = 0 Overlaps\_0\_2 = 0 Overlaps\_0\_3 = 0 Overlaps\_0\_4 = 0 Overlaps\_0\_5 = 0 Overlaps\_1\_0 = 0 Overlaps\_1\_1 = 0 Overlaps\_1\_2 = 0 Overlaps\_1\_3 = 0 Overlaps\_1\_4 = 0 Overlaps\_1\_5 = 0 Overlaps\_2\_0 = 0 Overlaps\_2\_1 = 0 Overlaps\_2\_2 = 0 Overlaps\_2\_3 = 0 Overlaps\_2\_4 = 0 Overlaps\_2\_5 = 0 Overlaps\_3\_0 = 0 Overlaps\_3\_1 = 0 Overlaps\_3\_2 = 0 Overlaps\_3\_3 = 0 Overlaps\_3\_4 = 0 Overlaps\_3\_5 = 0 Overlaps\_4\_0 = 0 Overlaps\_4\_1 = 0 Overlaps\_4\_2 = 0 Overlaps\_4\_3 = 0 Overlaps\_4\_4 = 0 Overlaps\_4\_5 = 0 Overlaps\_5\_0 = 0 Overlaps\_5\_1 = 0 Overlaps\_5\_2 = 0 Overlaps\_5\_3 = 0 Overlaps\_5\_4 = 0 Overlaps\_5\_5 = 0 TMP\_0 = 1 not(TMP\_0) = 0 TMP\_1 = 1 not(TMP\_1) = 0 TMP\_2 = 0 not(TMP\_2) = 1 TMP\_3 = 1 not(TMP\_3) = 0 TMP\_4 = 3 TMP\_5 = 0 not(TMP\_5) = 1 TMP\_6 = 0 not(TMP\_6) = 1 TMP\_7 = 0 TMP\_8 = 1 not(TMP\_8) = 0 TMP\_9 = 1 not(TMP\_9) = 0 TMP\_10 = 2 TMP\_11 = 0 not(TMP\_11) = 1 TMP\_12 = 0 not(TMP\_12) = 1 TMP\_13 = 1 not(TMP\_13) = 0 TMP\_14 = 1 not(TMP\_14) = 0 TMP\_15 = 1 not(TMP\_15) = 0 TMP\_16 = 2 TMP\_17 = 1 not(TMP\_17) = 0 TMP\_18 = 0 not(TMP\_18) = 1 TMP\_19 = 1 not(TMP\_19) = 0 TMP\_20 = 1 not(TMP\_20) = 0 TMP\_21 = 3 TMP\_22 = 0 not(TMP\_22) = 1 TMP\_23 = 0 not(TMP\_23) = 1 TMP\_24 = 0 TMP\_25 = 1 not(TMP\_25) = 0 TMP\_26 = 1 not(TMP\_26) = 0 TMP\_27 = 2 TMP\_28 = 0 not(TMP\_28) = 1 TMP\_29 = 0 not(TMP\_29) = 1 TMP\_30 = 1 not(TMP\_30) = 0 TMP\_31 = 1 not(TMP\_31) = 0 TMP\_32 = 1 not(TMP\_32) = 0 TMP\_33 = 2 TMP\_34 = 1 not(TMP\_34) = 0 TMP\_35 = 0 not(TMP\_35) = 1 TMP\_36 = 1 not(TMP\_36) = 0 TMP\_37 = 1 not(TMP\_37) = 0 TMP\_38 = 3 TMP\_39 = 0 not(TMP\_39) = 1 TMP\_40 = 0 not(TMP\_40) = 1 TMP\_41 = 0 TMP\_42 = 1 not(TMP\_42) = 0 TMP\_43 = 1 not(TMP\_43) = 0 TMP\_44 = 2 TMP\_45 = 0 not(TMP\_45) = 1 TMP\_46 = 0 not(TMP\_46) = 1 TMP\_47 = 1 not(TMP\_47) = 0 TMP\_48 = 1 not(TMP\_48) = 0 TMP\_49 = 1 not(TMP\_49) = 0 TMP\_50 = 2 TMP\_51 = 1 not(TMP\_51) = 0 TMP\_52 = 0 not(TMP\_52) = 1 TMP\_53 = 1 not(TMP\_53) = 0 TMP\_54 = 1 not(TMP\_54) = 0 TMP\_55 = 3 TMP\_56 = 0 not(TMP\_56) = 1 TMP\_57 = 0 not(TMP\_57) = 1 TMP\_58 = 0 TMP\_59 = 1 not(TMP\_59) = 0 TMP\_60 = 1 not(TMP\_60) = 0 TMP\_61 = 2 TMP\_62 = 0 not(TMP\_62) = 1 TMP\_63 = 0 not(TMP\_63) = 1 TMP\_64 = 1 not(TMP\_64) = 0 TMP\_65 = 1 not(TMP\_65) = 0 TMP\_66 = 1 not(TMP\_66) = 0 TMP\_67 = 2 TMP\_68 = 1 not(TMP\_68) = 0 TMP\_69 = 0 not(TMP\_69) = 1 TMP\_70 = 1 not(TMP\_70) = 0 TMP\_71 = 1 not(TMP\_71) = 0 TMP\_72 = 3 TMP\_73 = 0 not(TMP\_73) = 1 TMP\_74 = 0 not(TMP\_74) = 1 TMP\_75 = 0 TMP\_76 = 1 not(TMP\_76) = 0 TMP\_77 = 1 not(TMP\_77) = 0 TMP\_78 = 2 TMP\_79 = 0 not(TMP\_79) = 1 TMP\_80 = 0 not(TMP\_80) = 1 TMP\_81 = 1 not(TMP\_81) = 0 TMP\_82 = 1 not(TMP\_82) = 0 TMP\_83 = 1 not(TMP\_83) = 0 TMP\_84 = 2 TMP\_85 = 0 not(TMP\_85) = 1 TMP\_86 = 1 not(TMP\_86) = 0 TMP\_87 = 1 not(TMP\_87) = 0 TMP\_88 = 1 not(TMP\_88) = 0 TMP\_89 = 3 TMP\_90 = 0 not(TMP\_90) = 1 TMP\_91 = 0 not(TMP\_91) = 1 TMP\_92 = 0 TMP\_93 = 1 not(TMP\_93) = 0 TMP\_94 = 1 not(TMP\_94) = 0 TMP\_95 = 2 TMP\_96 = 0 not(TMP\_96) = 1 TMP\_97 = 0 not(TMP\_97) = 1 TMP\_98 = 1 not(TMP\_98) = 0 TMP\_99 = 1 not(TMP\_99) = 0 TMP\_100 = 1 not(TMP\_100) = 0 TMP\_101 = 2 TMP\_102 = 0 not(TMP\_102) = 1 TMP\_103 = 1 not(TMP\_103) = 0 TMP\_104 = 1 not(TMP\_104) = 0 TMP\_105 = 0 not(TMP\_105) = 1 TMP\_106 = 2 TMP\_107 = 0 not(TMP\_107) = 1 TMP\_108 = 0 not(TMP\_108) = 1 TMP\_109 = 0 TMP\_110 = 1 not(TMP\_110) = 0 TMP\_111 = 1 not(TMP\_111) = 0 TMP\_112 = 2 TMP\_113 = 0 not(TMP\_113) = 1 TMP\_114 = 0 not(TMP\_114) = 1 TMP\_115 = 1 not(TMP\_115) = 0 TMP\_116 = 1 not(TMP\_116) = 0 TMP\_117 = 1 not(TMP\_117) = 0 TMP\_118 = 2 TMP\_119 = 0 not(TMP\_119) = 1 TMP\_120 = 1 not(TMP\_120) = 0 TMP\_121 = 1 not(TMP\_121) = 0 TMP\_122 = 1 not(TMP\_122) = 0 TMP\_123 = 3 TMP\_124 = 0 not(TMP\_124) = 1 TMP\_125 = 0 not(TMP\_125) = 1 TMP\_126 = 0 TMP\_127 = 1 not(TMP\_127) = 0 TMP\_128 = 1 not(TMP\_128) = 0 TMP\_129 = 2 TMP\_130 = 0 not(TMP\_130) = 1 TMP\_131 = 0 not(TMP\_131) = 1 TMP\_132 = 1 not(TMP\_132) = 0 TMP\_133 = 1 not(TMP\_133) = 0 TMP\_134 = 1 not(TMP\_134) = 0 TMP\_135 = 2 TMP\_136 = 0 not(TMP\_136) = 1 TMP\_137 = 1 not(TMP\_137) = 0 TMP\_138 = 1 not(TMP\_138) = 0 TMP\_139 = 1 not(TMP\_139) = 0 TMP\_140 = 3 TMP\_141 = 0 not(TMP\_141) = 1 TMP\_142 = 0 not(TMP\_142) = 1 TMP\_143 = 0 TMP\_144 = 1 not(TMP\_144) = 0 TMP\_145 = 1 not(TMP\_145) = 0 TMP\_146 = 2 TMP\_147 = 0 not(TMP\_147) = 1 TMP\_148 = 0 not(TMP\_148) = 1 TMP\_149 = 1 not(TMP\_149) = 0 TMP\_150 = 1 not(TMP\_150) = 0 TMP\_151 = 1 not(TMP\_151) = 0 TMP\_152 = 2 TMP\_153 = 1 not(TMP\_153) = 0 TMP\_154 = 1 not(TMP\_154) = 0 TMP\_155 = 1 not(TMP\_155) = 0 TMP\_156 = 0 not(TMP\_156) = 1 TMP\_157 = 3 TMP\_158 = 0 not(TMP\_158) = 1 TMP\_159 = 0 not(TMP\_159) = 1 TMP\_160 = 0 TMP\_161 = 1 not(TMP\_161) = 0 TMP\_162 = 1 not(TMP\_162) = 0 TMP\_163 = 2 TMP\_164 = 0 not(TMP\_164) = 1 TMP\_165 = 0 not(TMP\_165) = 1 TMP\_166 = 1 not(TMP\_166) = 0 TMP\_167 = 1 not(TMP\_167) = 0 TMP\_168 = 1 not(TMP\_168) = 0 TMP\_169 = 2 TMP\_170 = 1 not(TMP\_170) = 0 TMP\_171 = 1 not(TMP\_171) = 0 TMP\_172 = 0 not(TMP\_172) = 1 TMP\_173 = 1 not(TMP\_173) = 0 TMP\_174 = 3 TMP\_175 = 0 not(TMP\_175) = 1 TMP\_176 = 0 not(TMP\_176) = 1 TMP\_177 = 0 TMP\_178 = 1 not(TMP\_178) = 0 TMP\_179 = 1 not(TMP\_179) = 0 TMP\_180 = 2 TMP\_181 = 0 not(TMP\_181) = 1 TMP\_182 = 0 not(TMP\_182) = 1 TMP\_183 = 1 not(TMP\_183) = 0 TMP\_184 = 1 not(TMP\_184) = 0 TMP\_185 = 1 not(TMP\_185) = 0 TMP\_186 = 2 TMP\_187 = 1 not(TMP\_187) = 0 TMP\_188 = 1 not(TMP\_188) = 0 TMP\_189 = 1 not(TMP\_189) = 0 TMP\_190 = 0 not(TMP\_190) = 1 TMP\_191 = 3 TMP\_192 = 0 not(TMP\_192) = 1 TMP\_193 = 0 not(TMP\_193) = 1 TMP\_194 = 0 TMP\_195 = 1 not(TMP\_195) = 0 TMP\_196 = 1 not(TMP\_196) = 0 TMP\_197 = 2 TMP\_198 = 0 not(TMP\_198) = 1 TMP\_199 = 0 not(TMP\_199) = 1 TMP\_200 = 1 not(TMP\_200) = 0 TMP\_201 = 1 not(TMP\_201) = 0 TMP\_202 = 1 not(TMP\_202) = 0 TMP\_203 = 2 TMP\_204 = 0 not(TMP\_204) = 1 TMP\_205 = 1 not(TMP\_205) = 0 TMP\_206 = 1 not(TMP\_206) = 0 TMP\_207 = 1 not(TMP\_207) = 0 TMP\_208 = 3 TMP\_209 = 0 not(TMP\_209) = 1 TMP\_210 = 0 not(TMP\_210) = 1 TMP\_211 = 0 TMP\_212 = 1 not(TMP\_212) = 0 TMP\_213 = 1 not(TMP\_213) = 0 TMP\_214 = 2 TMP\_215 = 0 not(TMP\_215) = 1 TMP\_216 = 0 not(TMP\_216) = 1 TMP\_217 = 1 not(TMP\_217) = 0 TMP\_218 = 1 not(TMP\_218) = 0 TMP\_219 = 1 not(TMP\_219) = 0 TMP\_220 = 2 TMP\_221 = 1 not(TMP\_221) = 0 TMP\_222 = 0 not(TMP\_222) = 1 TMP\_223 = 1 not(TMP\_223) = 0 TMP\_224 = 1 not(TMP\_224) = 0 TMP\_225 = 3 TMP\_226 = 0 not(TMP\_226) = 1 TMP\_227 = 0 not(TMP\_227) = 1 TMP\_228 = 0 TMP\_229 = 1 not(TMP\_229) = 0 TMP\_230 = 1 not(TMP\_230) = 0 TMP\_231 = 2 TMP\_232 = 0 not(TMP\_232) = 1 TMP\_233 = 0 not(TMP\_233) = 1 TMP\_234 = 1 not(TMP\_234) = 0 TMP\_235 = 1 not(TMP\_235) = 0 TMP\_236 = 1 not(TMP\_236) = 0 TMP\_237 = 2 TMP\_238 = 1 not(TMP\_238) = 0 TMP\_239 = 1 not(TMP\_239) = 0 TMP\_240 = 1 not(TMP\_240) = 0 TMP\_241 = 0 not(TMP\_241) = 1 TMP\_242 = 3 TMP\_243 = 0 not(TMP\_243) = 1 TMP\_244 = 0 not(TMP\_244) = 1 TMP\_245 = 0 TMP\_246 = 1 not(TMP\_246) = 0 TMP\_247 = 1 not(TMP\_247) = 0 TMP\_248 = 2 TMP\_249 = 0 not(TMP\_249) = 1 TMP\_250 = 0 not(TMP\_250) = 1 TMP\_251 = 1 not(TMP\_251) = 0 TMP\_252 = 1 not(TMP\_252) = 0 TMP\_253 = 1 not(TMP\_253) = 0 TMP\_254 = 2 TMP\_255 = 1 not(TMP\_255) = 0 TMP\_256 = 1 not(TMP\_256) = 0 TMP\_257 = 0 not(TMP\_257) = 1 TMP\_258 = 1 not(TMP\_258) = 0 TMP\_259 = 3 TMP\_260 = 0 not(TMP\_260) = 1 TMP\_261 = 0 not(TMP\_261) = 1 TMP\_262 = 0 TMP\_263 = 1 not(TMP\_263) = 0 TMP\_264 = 1 not(TMP\_264) = 0 TMP\_265 = 2 TMP\_266 = 0 not(TMP\_266) = 1 TMP\_267 = 0 not(TMP\_267) = 1 TMP\_268 = 1 not(TMP\_268) = 0 TMP\_269 = 1 not(TMP\_269) = 0 TMP\_270 = 1 not(TMP\_270) = 0 TMP\_271 = 2 TMP\_272 = 0 not(TMP\_272) = 1 TMP\_273 = 1 not(TMP\_273) = 0 TMP\_274 = 1 not(TMP\_274) = 0 TMP\_275 = 1 not(TMP\_275) = 0 TMP\_276 = 3 TMP\_277 = 0 not(TMP\_277) = 1 TMP\_278 = 0 not(TMP\_278) = 1 TMP\_279 = 0 TMP\_280 = 1 not(TMP\_280) = 0 TMP\_281 = 1 not(TMP\_281) = 0 TMP\_282 = 2 TMP\_283 = 0 not(TMP\_283) = 1 TMP\_284 = 0 not(TMP\_284) = 1 TMP\_285 = 1 not(TMP\_285) = 0 TMP\_286 = 1 not(TMP\_286) = 0 TMP\_287 = 1 not(TMP\_287) = 0 TMP\_288 = 2 TMP\_289 = 0 not(TMP\_289) = 1 TMP\_290 = 1 not(TMP\_290) = 0 TMP\_291 = 1 not(TMP\_291) = 0 TMP\_292 = 1 not(TMP\_292) = 0 TMP\_293 = 3 TMP\_294 = 0 not(TMP\_294) = 1 TMP\_295 = 0 not(TMP\_295) = 1 TMP\_296 = 0 TMP\_297 = 1 not(TMP\_297) = 0 TMP\_298 = 1 not(TMP\_298) = 0 TMP\_299 = 2 TMP\_300 = 0 not(TMP\_300) = 1 TMP\_301 = 0 not(TMP\_301) = 1 TMP\_302 = 1 not(TMP\_302) = 0 TMP\_303 = 1 not(TMP\_303) = 0 TMP\_304 = 1 not(TMP\_304) = 0 TMP\_305 = 2 TMP\_306 = 1 not(TMP\_306) = 0 TMP\_307 = 1 not(TMP\_307) = 0 TMP\_308 = 0 not(TMP\_308) = 1 TMP\_309 = 1 not(TMP\_309) = 0 TMP\_310 = 3 TMP\_311 = 0 not(TMP\_311) = 1 TMP\_312 = 0 not(TMP\_312) = 1 TMP\_313 = 0 TMP\_314 = 1 not(TMP\_314) = 0 TMP\_315 = 1 not(TMP\_315) = 0 TMP\_316 = 2 TMP\_317 = 0 not(TMP\_317) = 1 TMP\_318 = 0 not(TMP\_318) = 1 TMP\_319 = 1 not(TMP\_319) = 0 TMP\_320 = 1 not(TMP\_320) = 0 TMP\_321 = 1 not(TMP\_321) = 0 TMP\_322 = 2 TMP\_323 = 1 not(TMP\_323) = 0 TMP\_324 = 1 not(TMP\_324) = 0 TMP\_325 = 0 not(TMP\_325) = 1 TMP\_326 = 1 not(TMP\_326) = 0 TMP\_327 = 3 TMP\_328 = 0 not(TMP\_328) = 1 TMP\_329 = 0 not(TMP\_329) = 1 TMP\_330 = 0 TMP\_331 = 1 not(TMP\_331) = 0 TMP\_332 = 1 not(TMP\_332) = 0 TMP\_333 = 2 TMP\_334 = 0 not(TMP\_334) = 1 TMP\_335 = 0 not(TMP\_335) = 1 TMP\_336 = 1 not(TMP\_336) = 0 TMP\_337 = 1 not(TMP\_337) = 0 TMP\_338 = 1 not(TMP\_338) = 0 TMP\_339 = 2 Area\_0 = 10000 Distance\_0\_Rule\_0 = 100 Distance\_1\_Rule\_0 = 100 Area\_1 = 5000 Distance\_0\_Rule\_1 = 50 Distance\_1\_Rule\_1 = 100 Area\_2 = 10000 -(Rule\_2\_LB) = 0 Distance\_0\_Rule\_2 = 25 -(Rule\_2\_LB) = -100 Distance\_1\_Rule\_2 = 400 Area\_3 = 60000 -(Rule\_3\_LB) = -100 Distance\_0\_Rule\_3 = 150 -(Rule\_3\_LB) = 0 Distance\_1\_Rule\_3 = 400 Area\_4 = 22500 -(Rule\_4\_LB) = -25 Distance\_0\_Rule\_4 = 75 -(Rule\_4\_LB) = -100 Distance\_1\_Rule\_4 = 300 Area\_5 = 17500 -(Rule\_5\_LB) = -75 Distance\_0\_Rule\_5 = 175 -(Rule\_5\_LB) = -400 Distance\_1\_Rule\_5 = 100 TMP\_340 = 125000 .

- Solution #18 found. 18 Solutions, Resolution 1130.532s, 9453485 Nodes (8,362.0 n/s), 18906607 Backtracks, 9453440 Fails, 0 Restarts

Rule\_2\_LB = 0 Rule\_2\_UB = 25 Rule\_2\_LB = 100 Rule\_2\_UB = 500 Rule\_3\_LB = 100 Rule\_3\_UB = 250 Rule\_3\_LB = 0 Rule\_3\_UB = 400 Rule\_4\_LB = 25 Rule\_4\_UB = 100 Rule\_4\_LB = 100 Rule\_4\_UB = 400 Rule\_5\_LB = 75 Rule\_5\_UB = 250 Rule\_5\_LB = 400 Rule\_5\_UB = 500 Overlaps\_0\_0 = 0 Overlaps\_0\_1 = 0 Overlaps\_0\_2 = 0 Overlaps\_0\_3 = 0 Overlaps\_0\_4 = 0 Overlaps\_0\_5 = 0 Overlaps\_1\_0 = 1 Overlaps\_1\_1 = 0 Overlaps\_1\_2 = 0 Overlaps\_1\_3 = 0 Overlaps\_1\_4 = 0 Overlaps\_1\_5 = 0 Overlaps\_2\_0 = 0 Overlaps\_2\_1 = 0 Overlaps\_2\_2 = 0 Overlaps\_2\_3 = 0 Overlaps\_2\_4 = 0 Overlaps\_2\_5 = 0 Overlaps\_3\_0 = 0 Overlaps\_3\_1 = 0 Overlaps\_3\_2 = 0 Overlaps\_3\_3 = 0 Overlaps\_3\_4 = 0 Overlaps\_3\_5 = 0 Overlaps\_4\_0 = 0 Overlaps\_4\_1 = 0 Overlaps\_4\_2 = 0 Overlaps\_4\_3 = 0 Overlaps\_4\_4 = 0 Overlaps\_4\_5 = 0 Overlaps\_5\_0 = 0 Overlaps\_5\_1 = 0 Overlaps\_5\_2 = 0 Overlaps\_5\_3 = 0 Overlaps\_5\_4 = 0 Overlaps\_5\_5 = 0 TMP\_0 = 1 not(TMP\_0) = 0 TMP\_1 = 1 not(TMP\_1) = 0 TMP\_2 = 0 not(TMP\_2) = 1 TMP\_3 = 1 not(TMP\_3) = 0 TMP\_4 = 3 TMP\_5 = 0 not(TMP\_5) = 1 TMP\_6 = 0 not(TMP\_6) = 1 TMP\_7 = 0 TMP\_8 = 1 not(TMP\_8) = 0 TMP\_9 = 1 not(TMP\_9) = 0 TMP\_10 = 2 TMP\_11 = 0 not(TMP\_11) = 1 TMP\_12 = 0 not(TMP\_12) = 1 TMP\_13 = 1 not(TMP\_13) = 0 TMP\_14 = 1 not(TMP\_14) = 0 TMP\_15 = 1 not(TMP\_15) = 0 TMP\_16 = 2 TMP\_17 = 1 not(TMP\_17) = 0 TMP\_18 = 0 not(TMP\_18) = 1 TMP\_19 = 1 not(TMP\_19) = 0 TMP\_20 = 1 not(TMP\_20) = 0 TMP\_21 = 3 TMP\_22 = 0 not(TMP\_22) = 1 TMP\_23 = 0 not(TMP\_23) = 1 TMP\_24 = 0 TMP\_25 = 1 not(TMP\_25) = 0 TMP\_26 = 1 not(TMP\_26) = 0 TMP\_27 = 2 TMP\_28 = 0 not(TMP\_28) = 1 TMP\_29 = 0 not(TMP\_29) = 1 TMP\_30 = 1 not(TMP\_30) = 0 TMP\_31 = 1 not(TMP\_31) = 0 TMP\_32 = 1 not(TMP\_32) = 0 TMP\_33 = 2 TMP\_34 = 1 not(TMP\_34) = 0 TMP\_35 = 0 not(TMP\_35) = 1 TMP\_36 = 1 not(TMP\_36) = 0 TMP\_37 = 1 not(TMP\_37) = 0 TMP\_38 = 3 TMP\_39 = 0 not(TMP\_39) = 1 TMP\_40 = 0 not(TMP\_40) = 1 TMP\_41 = 0 TMP\_42 = 1 not(TMP\_42) = 0 TMP\_43 = 1 not(TMP\_43) = 0 TMP\_44 = 2 TMP\_45 = 0 not(TMP\_45) = 1 TMP\_46 = 0 not(TMP\_46) = 1 TMP\_47 = 1 not(TMP\_47) = 0 TMP\_48 = 1 not(TMP\_48) = 0 TMP\_49 = 1 not(TMP\_49) = 0 TMP\_50 = 2 TMP\_51 = 1 not(TMP\_51) = 0 TMP\_52 = 0 not(TMP\_52) = 1 TMP\_53 = 1 not(TMP\_53) = 0 TMP\_54 = 1 not(TMP\_54) = 0 TMP\_55 = 3 TMP\_56 = 0 not(TMP\_56) = 1 TMP\_57 = 0 not(TMP\_57) = 1 TMP\_58 = 0 TMP\_59 = 1 not(TMP\_59) = 0 TMP\_60 = 1 not(TMP\_60) = 0 TMP\_61 = 2 TMP\_62 = 0 not(TMP\_62) = 1 TMP\_63 = 0 not(TMP\_63) = 1 TMP\_64 = 1 not(TMP\_64) = 0 TMP\_65 = 1 not(TMP\_65) = 0 TMP\_66 = 1 not(TMP\_66) = 0 TMP\_67 = 2 TMP\_68 = 1 not(TMP\_68) = 0 TMP\_69 = 0 not(TMP\_69) = 1 TMP\_70 = 1 not(TMP\_70) = 0 TMP\_71 = 1 not(TMP\_71) = 0 TMP\_72 = 3 TMP\_73 = 0 not(TMP\_73) = 1 TMP\_74 = 0 not(TMP\_74) = 1 TMP\_75 = 0 TMP\_76 = 1 not(TMP\_76) = 0 TMP\_77 = 1 not(TMP\_77) = 0 TMP\_78 = 2 TMP\_79 = 0 not(TMP\_79) = 1 TMP\_80 = 0 not(TMP\_80) = 1 TMP\_81 = 1 not(TMP\_81) = 0 TMP\_82 = 1 not(TMP\_82) = 0 TMP\_83 = 1 not(TMP\_83) = 0 TMP\_84 = 2 TMP\_85 = 0 not(TMP\_85) = 1 TMP\_86 = 1 not(TMP\_86) = 0 TMP\_87 = 1 not(TMP\_87) = 0 TMP\_88 = 1 not(TMP\_88) = 0 TMP\_89 = 3 TMP\_90 = 0 not(TMP\_90) = 1 TMP\_91 = 0 not(TMP\_91) = 1 TMP\_92 = 0 TMP\_93 = 1 not(TMP\_93) = 0 TMP\_94 = 1 not(TMP\_94) = 0 TMP\_95 = 2 TMP\_96 = 0 not(TMP\_96) = 1 TMP\_97 = 0 not(TMP\_97) = 1 TMP\_98 = 1 not(TMP\_98) = 0 TMP\_99 = 1 not(TMP\_99) = 0 TMP\_100 = 1 not(TMP\_100) = 0 TMP\_101 = 2 TMP\_102 = 0 not(TMP\_102) = 1 TMP\_103 = 1 not(TMP\_103) = 0 TMP\_104 = 1 not(TMP\_104) = 0 TMP\_105 = 0 not(TMP\_105) = 1 TMP\_106 = 2 TMP\_107 = 0 not(TMP\_107) = 1 TMP\_108 = 0 not(TMP\_108) = 1 TMP\_109 = 0 TMP\_110 = 1 not(TMP\_110) = 0 TMP\_111 = 1 not(TMP\_111) = 0 TMP\_112 = 2 TMP\_113 = 0 not(TMP\_113) = 1 TMP\_114 = 0 not(TMP\_114) = 1 TMP\_115 = 1 not(TMP\_115) = 0 TMP\_116 = 1 not(TMP\_116) = 0 TMP\_117 = 1 not(TMP\_117) = 0 TMP\_118 = 2 TMP\_119 = 0 not(TMP\_119) = 1 TMP\_120 = 1 not(TMP\_120) = 0 TMP\_121 = 1 not(TMP\_121) = 0 TMP\_122 = 1 not(TMP\_122) = 0 TMP\_123 = 3 TMP\_124 = 0 not(TMP\_124) = 1 TMP\_125 = 0 not(TMP\_125) = 1 TMP\_126 = 0 TMP\_127 = 1 not(TMP\_127) = 0 TMP\_128 = 1 not(TMP\_128) = 0 TMP\_129 = 2 TMP\_130 = 0 not(TMP\_130) = 1 TMP\_131 = 0 not(TMP\_131) = 1 TMP\_132 = 1 not(TMP\_132) = 0 TMP\_133 = 1 not(TMP\_133) = 0 TMP\_134 = 1 not(TMP\_134) = 0 TMP\_135 = 2 TMP\_136 = 0 not(TMP\_136) = 1 TMP\_137 = 1 not(TMP\_137) = 0 TMP\_138 = 1 not(TMP\_138) = 0 TMP\_139 = 1 not(TMP\_139) = 0 TMP\_140 = 3 TMP\_141 = 0 not(TMP\_141) = 1 TMP\_142 = 0 not(TMP\_142) = 1 TMP\_143 = 0 TMP\_144 = 1 not(TMP\_144) = 0 TMP\_145 = 1 not(TMP\_145) = 0 TMP\_146 = 2 TMP\_147 = 0 not(TMP\_147) = 1 TMP\_148 = 0 not(TMP\_148) = 1 TMP\_149 = 1 not(TMP\_149) = 0 TMP\_150 = 1 not(TMP\_150) = 0 TMP\_151 = 1 not(TMP\_151) = 0 TMP\_152 = 2 TMP\_153 = 1 not(TMP\_153) = 0 TMP\_154 = 1 not(TMP\_154) = 0 TMP\_155 = 1 not(TMP\_155) = 0 TMP\_156 = 0 not(TMP\_156) = 1 TMP\_157 = 3 TMP\_158 = 0 not(TMP\_158) = 1 TMP\_159 = 0 not(TMP\_159) = 1 TMP\_160 = 0 TMP\_161 = 1 not(TMP\_161) = 0 TMP\_162 = 1 not(TMP\_162) = 0 TMP\_163 = 2 TMP\_164 = 0 not(TMP\_164) = 1 TMP\_165 = 0 not(TMP\_165) = 1 TMP\_166 = 1 not(TMP\_166) = 0 TMP\_167 = 1 not(TMP\_167) = 0 TMP\_168 = 1 not(TMP\_168) = 0 TMP\_169 = 2 TMP\_170 = 1 not(TMP\_170) = 0 TMP\_171 = 1 not(TMP\_171) = 0 TMP\_172 = 0 not(TMP\_172) = 1 TMP\_173 = 1 not(TMP\_173) = 0 TMP\_174 = 3 TMP\_175 = 0 not(TMP\_175) = 1 TMP\_176 = 0 not(TMP\_176) = 1 TMP\_177 = 0 TMP\_178 = 1 not(TMP\_178) = 0 TMP\_179 = 1 not(TMP\_179) = 0 TMP\_180 = 2 TMP\_181 = 0 not(TMP\_181) = 1 TMP\_182 = 0 not(TMP\_182) = 1 TMP\_183 = 1 not(TMP\_183) = 0 TMP\_184 = 1 not(TMP\_184) = 0 TMP\_185 = 1 not(TMP\_185) = 0 TMP\_186 = 2 TMP\_187 = 1 not(TMP\_187) = 0 TMP\_188 = 1 not(TMP\_188) = 0 TMP\_189 = 1 not(TMP\_189) = 0 TMP\_190 = 0 not(TMP\_190) = 1 TMP\_191 = 3 TMP\_192 = 0 not(TMP\_192) = 1 TMP\_193 = 0 not(TMP\_193) = 1 TMP\_194 = 0 TMP\_195 = 1 not(TMP\_195) = 0 TMP\_196 = 1 not(TMP\_196) = 0 TMP\_197 = 2 TMP\_198 = 0 not(TMP\_198) = 1 TMP\_199 = 0 not(TMP\_199) = 1 TMP\_200 = 1 not(TMP\_200) = 0 TMP\_201 = 1 not(TMP\_201) = 0 TMP\_202 = 1 not(TMP\_202) = 0 TMP\_203 = 2 TMP\_204 = 0 not(TMP\_204) = 1 TMP\_205 = 1 not(TMP\_205) = 0 TMP\_206 = 1 not(TMP\_206) = 0 TMP\_207 = 1 not(TMP\_207) = 0 TMP\_208 = 3 TMP\_209 = 0 not(TMP\_209) = 1 TMP\_210 = 0 not(TMP\_210) = 1 TMP\_211 = 0 TMP\_212 = 1 not(TMP\_212) = 0 TMP\_213 = 1 not(TMP\_213) = 0 TMP\_214 = 2 TMP\_215 = 0 not(TMP\_215) = 1 TMP\_216 = 0 not(TMP\_216) = 1 TMP\_217 = 1 not(TMP\_217) = 0 TMP\_218 = 1 not(TMP\_218) = 0 TMP\_219 = 1 not(TMP\_219) = 0 TMP\_220 = 2 TMP\_221 = 1 not(TMP\_221) = 0 TMP\_222 = 0 not(TMP\_222) = 1 TMP\_223 = 1 not(TMP\_223) = 0 TMP\_224 = 1 not(TMP\_224) = 0 TMP\_225 = 3 TMP\_226 = 0 not(TMP\_226) = 1 TMP\_227 = 0 not(TMP\_227) = 1 TMP\_228 = 0 TMP\_229 = 1 not(TMP\_229) = 0 TMP\_230 = 1 not(TMP\_230) = 0 TMP\_231 = 2 TMP\_232 = 0 not(TMP\_232) = 1 TMP\_233 = 0 not(TMP\_233) = 1 TMP\_234 = 1 not(TMP\_234) = 0 TMP\_235 = 1 not(TMP\_235) = 0 TMP\_236 = 1 not(TMP\_236) = 0 TMP\_237 = 2 TMP\_238 = 1 not(TMP\_238) = 0 TMP\_239 = 1 not(TMP\_239) = 0 TMP\_240 = 1 not(TMP\_240) = 0 TMP\_241 = 0 not(TMP\_241) = 1 TMP\_242 = 3 TMP\_243 = 0 not(TMP\_243) = 1 TMP\_244 = 0 not(TMP\_244) = 1 TMP\_245 = 0 TMP\_246 = 1 not(TMP\_246) = 0 TMP\_247 = 1 not(TMP\_247) = 0 TMP\_248 = 2 TMP\_249 = 0 not(TMP\_249) = 1 TMP\_250 = 0 not(TMP\_250) = 1 TMP\_251 = 1 not(TMP\_251) = 0 TMP\_252 = 1 not(TMP\_252) = 0 TMP\_253 = 1 not(TMP\_253) = 0 TMP\_254 = 2 TMP\_255 = 1 not(TMP\_255) = 0 TMP\_256 = 1 not(TMP\_256) = 0 TMP\_257 = 0 not(TMP\_257) = 1 TMP\_258 = 1 not(TMP\_258) = 0 TMP\_259 = 3 TMP\_260 = 0 not(TMP\_260) = 1 TMP\_261 = 0 not(TMP\_261) = 1 TMP\_262 = 0 TMP\_263 = 1 not(TMP\_263) = 0 TMP\_264 = 1 not(TMP\_264) = 0 TMP\_265 = 2 TMP\_266 = 0 not(TMP\_266) = 1 TMP\_267 = 0 not(TMP\_267) = 1 TMP\_268 = 1 not(TMP\_268) = 0 TMP\_269 = 1 not(TMP\_269) = 0 TMP\_270 = 1 not(TMP\_270) = 0 TMP\_271 = 2 TMP\_272 = 0 not(TMP\_272) = 1 TMP\_273 = 1 not(TMP\_273) = 0 TMP\_274 = 1 not(TMP\_274) = 0 TMP\_275 = 1 not(TMP\_275) = 0 TMP\_276 = 3 TMP\_277 = 0 not(TMP\_277) = 1 TMP\_278 = 0 not(TMP\_278) = 1 TMP\_279 = 0 TMP\_280 = 1 not(TMP\_280) = 0 TMP\_281 = 1 not(TMP\_281) = 0 TMP\_282 = 2 TMP\_283 = 0 not(TMP\_283) = 1 TMP\_284 = 0 not(TMP\_284) = 1 TMP\_285 = 1 not(TMP\_285) = 0 TMP\_286 = 1 not(TMP\_286) = 0 TMP\_287 = 1 not(TMP\_287) = 0 TMP\_288 = 2 TMP\_289 = 0 not(TMP\_289) = 1 TMP\_290 = 1 not(TMP\_290) = 0 TMP\_291 = 1 not(TMP\_291) = 0 TMP\_292 = 1 not(TMP\_292) = 0 TMP\_293 = 3 TMP\_294 = 0 not(TMP\_294) = 1 TMP\_295 = 0 not(TMP\_295) = 1 TMP\_296 = 0 TMP\_297 = 1 not(TMP\_297) = 0 TMP\_298 = 1 not(TMP\_298) = 0 TMP\_299 = 2 TMP\_300 = 0 not(TMP\_300) = 1 TMP\_301 = 0 not(TMP\_301) = 1 TMP\_302 = 1 not(TMP\_302) = 0 TMP\_303 = 1 not(TMP\_303) = 0 TMP\_304 = 1 not(TMP\_304) = 0 TMP\_305 = 2 TMP\_306 = 1 not(TMP\_306) = 0 TMP\_307 = 1 not(TMP\_307) = 0 TMP\_308 = 0 not(TMP\_308) = 1 TMP\_309 = 1 not(TMP\_309) = 0 TMP\_310 = 3 TMP\_311 = 0 not(TMP\_311) = 1 TMP\_312 = 0 not(TMP\_312) = 1 TMP\_313 = 0 TMP\_314 = 1 not(TMP\_314) = 0 TMP\_315 = 1 not(TMP\_315) = 0 TMP\_316 = 2 TMP\_317 = 0 not(TMP\_317) = 1 TMP\_318 = 0 not(TMP\_318) = 1 TMP\_319 = 1 not(TMP\_319) = 0 TMP\_320 = 1 not(TMP\_320) = 0 TMP\_321 = 1 not(TMP\_321) = 0 TMP\_322 = 2 TMP\_323 = 1 not(TMP\_323) = 0 TMP\_324 = 1 not(TMP\_324) = 0 TMP\_325 = 0 not(TMP\_325) = 1 TMP\_326 = 1 not(TMP\_326) = 0 TMP\_327 = 3 TMP\_328 = 0 not(TMP\_328) = 1 TMP\_329 = 0 not(TMP\_329) = 1 TMP\_330 = 0 TMP\_331 = 1 not(TMP\_331) = 0 TMP\_332 = 1 not(TMP\_332) = 0 TMP\_333 = 2 TMP\_334 = 0 not(TMP\_334) = 1 TMP\_335 = 0 not(TMP\_335) = 1 TMP\_336 = 1 not(TMP\_336) = 0 TMP\_337 = 1 not(TMP\_337) = 0 TMP\_338 = 1 not(TMP\_338) = 0 TMP\_339 = 2 Area\_0 = 10000 Distance\_0\_Rule\_0 = 100 Distance\_1\_Rule\_0 = 100 Area\_1 = 5000 Distance\_0\_Rule\_1 = 50 Distance\_1\_Rule\_1 = 100 Area\_2 = 10000 -(Rule\_2\_LB) = 0 Distance\_0\_Rule\_2 = 25 -(Rule\_2\_LB) = -100 Distance\_1\_Rule\_2 = 400 Area\_3 = 60000 -(Rule\_3\_LB) = -100 Distance\_0\_Rule\_3 = 150 -(Rule\_3\_LB) = 0 Distance\_1\_Rule\_3 = 400 Area\_4 = 22500 -(Rule\_4\_LB) = -25 Distance\_0\_Rule\_4 = 75 -(Rule\_4\_LB) = -100 Distance\_1\_Rule\_4 = 300 Area\_5 = 17500 -(Rule\_5\_LB) = -75 Distance\_0\_Rule\_5 = 175 -(Rule\_5\_LB) = -400 Distance\_1\_Rule\_5 = 100 TMP\_340 = 125000 .

- Solution #19 found. 19 Solutions, Resolution 1130.533s, 9453487 Nodes (8,362.0 n/s), 18906609 Backtracks, 9453440 Fails, 0 Restarts

Rule\_2\_LB = 0 Rule\_2\_UB = 25 Rule\_2\_LB = 100 Rule\_2\_UB = 500 Rule\_3\_LB = 100 Rule\_3\_UB = 250 Rule\_3\_LB = 0 Rule\_3\_UB = 400 Rule\_4\_LB = 25 Rule\_4\_UB = 100 Rule\_4\_LB = 100 Rule\_4\_UB = 400 Rule\_5\_LB = 75 Rule\_5\_UB = 250 Rule\_5\_LB = 400 Rule\_5\_UB = 500 Overlaps\_0\_0 = 0 Overlaps\_0\_1 = 1 Overlaps\_0\_2 = 0 Overlaps\_0\_3 = 0 Overlaps\_0\_4 = 0 Overlaps\_0\_5 = 0 Overlaps\_1\_0 = 0 Overlaps\_1\_1 = 0 Overlaps\_1\_2 = 0 Overlaps\_1\_3 = 0 Overlaps\_1\_4 = 0 Overlaps\_1\_5 = 0 Overlaps\_2\_0 = 0 Overlaps\_2\_1 = 0 Overlaps\_2\_2 = 0 Overlaps\_2\_3 = 0 Overlaps\_2\_4 = 0 Overlaps\_2\_5 = 0 Overlaps\_3\_0 = 0 Overlaps\_3\_1 = 0 Overlaps\_3\_2 = 0 Overlaps\_3\_3 = 0 Overlaps\_3\_4 = 0 Overlaps\_3\_5 = 0 Overlaps\_4\_0 = 0 Overlaps\_4\_1 = 0 Overlaps\_4\_2 = 0 Overlaps\_4\_3 = 0 Overlaps\_4\_4 = 0 Overlaps\_4\_5 = 0 Overlaps\_5\_0 = 0 Overlaps\_5\_1 = 0 Overlaps\_5\_2 = 0 Overlaps\_5\_3 = 0 Overlaps\_5\_4 = 0 Overlaps\_5\_5 = 0 TMP\_0 = 1 not(TMP\_0) = 0 TMP\_1 = 1 not(TMP\_1) = 0 TMP\_2 = 0 not(TMP\_2) = 1 TMP\_3 = 1 not(TMP\_3) = 0 TMP\_4 = 3 TMP\_5 = 0 not(TMP\_5) = 1 TMP\_6 = 0 not(TMP\_6) = 1 TMP\_7 = 0 TMP\_8 = 1 not(TMP\_8) = 0 TMP\_9 = 1 not(TMP\_9) = 0 TMP\_10 = 2 TMP\_11 = 0 not(TMP\_11) = 1 TMP\_12 = 0 not(TMP\_12) = 1 TMP\_13 = 1 not(TMP\_13) = 0 TMP\_14 = 1 not(TMP\_14) = 0 TMP\_15 = 1 not(TMP\_15) = 0 TMP\_16 = 2 TMP\_17 = 1 not(TMP\_17) = 0 TMP\_18 = 0 not(TMP\_18) = 1 TMP\_19 = 1 not(TMP\_19) = 0 TMP\_20 = 1 not(TMP\_20) = 0 TMP\_21 = 3 TMP\_22 = 0 not(TMP\_22) = 1 TMP\_23 = 0 not(TMP\_23) = 1 TMP\_24 = 0 TMP\_25 = 1 not(TMP\_25) = 0 TMP\_26 = 1 not(TMP\_26) = 0 TMP\_27 = 2 TMP\_28 = 0 not(TMP\_28) = 1 TMP\_29 = 0 not(TMP\_29) = 1 TMP\_30 = 1 not(TMP\_30) = 0 TMP\_31 = 1 not(TMP\_31) = 0 TMP\_32 = 1 not(TMP\_32) = 0 TMP\_33 = 2 TMP\_34 = 1 not(TMP\_34) = 0 TMP\_35 = 0 not(TMP\_35) = 1 TMP\_36 = 1 not(TMP\_36) = 0 TMP\_37 = 1 not(TMP\_37) = 0 TMP\_38 = 3 TMP\_39 = 0 not(TMP\_39) = 1 TMP\_40 = 0 not(TMP\_40) = 1 TMP\_41 = 0 TMP\_42 = 1 not(TMP\_42) = 0 TMP\_43 = 1 not(TMP\_43) = 0 TMP\_44 = 2 TMP\_45 = 0 not(TMP\_45) = 1 TMP\_46 = 0 not(TMP\_46) = 1 TMP\_47 = 1 not(TMP\_47) = 0 TMP\_48 = 1 not(TMP\_48) = 0 TMP\_49 = 1 not(TMP\_49) = 0 TMP\_50 = 2 TMP\_51 = 1 not(TMP\_51) = 0 TMP\_52 = 0 not(TMP\_52) = 1 TMP\_53 = 1 not(TMP\_53) = 0 TMP\_54 = 1 not(TMP\_54) = 0 TMP\_55 = 3 TMP\_56 = 0 not(TMP\_56) = 1 TMP\_57 = 0 not(TMP\_57) = 1 TMP\_58 = 0 TMP\_59 = 1 not(TMP\_59) = 0 TMP\_60 = 1 not(TMP\_60) = 0 TMP\_61 = 2 TMP\_62 = 0 not(TMP\_62) = 1 TMP\_63 = 0 not(TMP\_63) = 1 TMP\_64 = 1 not(TMP\_64) = 0 TMP\_65 = 1 not(TMP\_65) = 0 TMP\_66 = 1 not(TMP\_66) = 0 TMP\_67 = 2 TMP\_68 = 1 not(TMP\_68) = 0 TMP\_69 = 0 not(TMP\_69) = 1 TMP\_70 = 1 not(TMP\_70) = 0 TMP\_71 = 1 not(TMP\_71) = 0 TMP\_72 = 3 TMP\_73 = 0 not(TMP\_73) = 1 TMP\_74 = 0 not(TMP\_74) = 1 TMP\_75 = 0 TMP\_76 = 1 not(TMP\_76) = 0 TMP\_77 = 1 not(TMP\_77) = 0 TMP\_78 = 2 TMP\_79 = 0 not(TMP\_79) = 1 TMP\_80 = 0 not(TMP\_80) = 1 TMP\_81 = 1 not(TMP\_81) = 0 TMP\_82 = 1 not(TMP\_82) = 0 TMP\_83 = 1 not(TMP\_83) = 0 TMP\_84 = 2 TMP\_85 = 0 not(TMP\_85) = 1 TMP\_86 = 1 not(TMP\_86) = 0 TMP\_87 = 1 not(TMP\_87) = 0 TMP\_88 = 1 not(TMP\_88) = 0 TMP\_89 = 3 TMP\_90 = 0 not(TMP\_90) = 1 TMP\_91 = 0 not(TMP\_91) = 1 TMP\_92 = 0 TMP\_93 = 1 not(TMP\_93) = 0 TMP\_94 = 1 not(TMP\_94) = 0 TMP\_95 = 2 TMP\_96 = 0 not(TMP\_96) = 1 TMP\_97 = 0 not(TMP\_97) = 1 TMP\_98 = 1 not(TMP\_98) = 0 TMP\_99 = 1 not(TMP\_99) = 0 TMP\_100 = 1 not(TMP\_100) = 0 TMP\_101 = 2 TMP\_102 = 0 not(TMP\_102) = 1 TMP\_103 = 1 not(TMP\_103) = 0 TMP\_104 = 1 not(TMP\_104) = 0 TMP\_105 = 0 not(TMP\_105) = 1 TMP\_106 = 2 TMP\_107 = 0 not(TMP\_107) = 1 TMP\_108 = 0 not(TMP\_108) = 1 TMP\_109 = 0 TMP\_110 = 1 not(TMP\_110) = 0 TMP\_111 = 1 not(TMP\_111) = 0 TMP\_112 = 2 TMP\_113 = 0 not(TMP\_113) = 1 TMP\_114 = 0 not(TMP\_114) = 1 TMP\_115 = 1 not(TMP\_115) = 0 TMP\_116 = 1 not(TMP\_116) = 0 TMP\_117 = 1 not(TMP\_117) = 0 TMP\_118 = 2 TMP\_119 = 0 not(TMP\_119) = 1 TMP\_120 = 1 not(TMP\_120) = 0 TMP\_121 = 1 not(TMP\_121) = 0 TMP\_122 = 1 not(TMP\_122) = 0 TMP\_123 = 3 TMP\_124 = 0 not(TMP\_124) = 1 TMP\_125 = 0 not(TMP\_125) = 1 TMP\_126 = 0 TMP\_127 = 1 not(TMP\_127) = 0 TMP\_128 = 1 not(TMP\_128) = 0 TMP\_129 = 2 TMP\_130 = 0 not(TMP\_130) = 1 TMP\_131 = 0 not(TMP\_131) = 1 TMP\_132 = 1 not(TMP\_132) = 0 TMP\_133 = 1 not(TMP\_133) = 0 TMP\_134 = 1 not(TMP\_134) = 0 TMP\_135 = 2 TMP\_136 = 0 not(TMP\_136) = 1 TMP\_137 = 1 not(TMP\_137) = 0 TMP\_138 = 1 not(TMP\_138) = 0 TMP\_139 = 1 not(TMP\_139) = 0 TMP\_140 = 3 TMP\_141 = 0 not(TMP\_141) = 1 TMP\_142 = 0 not(TMP\_142) = 1 TMP\_143 = 0 TMP\_144 = 1 not(TMP\_144) = 0 TMP\_145 = 1 not(TMP\_145) = 0 TMP\_146 = 2 TMP\_147 = 0 not(TMP\_147) = 1 TMP\_148 = 0 not(TMP\_148) = 1 TMP\_149 = 1 not(TMP\_149) = 0 TMP\_150 = 1 not(TMP\_150) = 0 TMP\_151 = 1 not(TMP\_151) = 0 TMP\_152 = 2 TMP\_153 = 1 not(TMP\_153) = 0 TMP\_154 = 1 not(TMP\_154) = 0 TMP\_155 = 1 not(TMP\_155) = 0 TMP\_156 = 0 not(TMP\_156) = 1 TMP\_157 = 3 TMP\_158 = 0 not(TMP\_158) = 1 TMP\_159 = 0 not(TMP\_159) = 1 TMP\_160 = 0 TMP\_161 = 1 not(TMP\_161) = 0 TMP\_162 = 1 not(TMP\_162) = 0 TMP\_163 = 2 TMP\_164 = 0 not(TMP\_164) = 1 TMP\_165 = 0 not(TMP\_165) = 1 TMP\_166 = 1 not(TMP\_166) = 0 TMP\_167 = 1 not(TMP\_167) = 0 TMP\_168 = 1 not(TMP\_168) = 0 TMP\_169 = 2 TMP\_170 = 1 not(TMP\_170) = 0 TMP\_171 = 1 not(TMP\_171) = 0 TMP\_172 = 0 not(TMP\_172) = 1 TMP\_173 = 1 not(TMP\_173) = 0 TMP\_174 = 3 TMP\_175 = 0 not(TMP\_175) = 1 TMP\_176 = 0 not(TMP\_176) = 1 TMP\_177 = 0 TMP\_178 = 1 not(TMP\_178) = 0 TMP\_179 = 1 not(TMP\_179) = 0 TMP\_180 = 2 TMP\_181 = 0 not(TMP\_181) = 1 TMP\_182 = 0 not(TMP\_182) = 1 TMP\_183 = 1 not(TMP\_183) = 0 TMP\_184 = 1 not(TMP\_184) = 0 TMP\_185 = 1 not(TMP\_185) = 0 TMP\_186 = 2 TMP\_187 = 1 not(TMP\_187) = 0 TMP\_188 = 1 not(TMP\_188) = 0 TMP\_189 = 1 not(TMP\_189) = 0 TMP\_190 = 0 not(TMP\_190) = 1 TMP\_191 = 3 TMP\_192 = 0 not(TMP\_192) = 1 TMP\_193 = 0 not(TMP\_193) = 1 TMP\_194 = 0 TMP\_195 = 1 not(TMP\_195) = 0 TMP\_196 = 1 not(TMP\_196) = 0 TMP\_197 = 2 TMP\_198 = 0 not(TMP\_198) = 1 TMP\_199 = 0 not(TMP\_199) = 1 TMP\_200 = 1 not(TMP\_200) = 0 TMP\_201 = 1 not(TMP\_201) = 0 TMP\_202 = 1 not(TMP\_202) = 0 TMP\_203 = 2 TMP\_204 = 0 not(TMP\_204) = 1 TMP\_205 = 1 not(TMP\_205) = 0 TMP\_206 = 1 not(TMP\_206) = 0 TMP\_207 = 1 not(TMP\_207) = 0 TMP\_208 = 3 TMP\_209 = 0 not(TMP\_209) = 1 TMP\_210 = 0 not(TMP\_210) = 1 TMP\_211 = 0 TMP\_212 = 1 not(TMP\_212) = 0 TMP\_213 = 1 not(TMP\_213) = 0 TMP\_214 = 2 TMP\_215 = 0 not(TMP\_215) = 1 TMP\_216 = 0 not(TMP\_216) = 1 TMP\_217 = 1 not(TMP\_217) = 0 TMP\_218 = 1 not(TMP\_218) = 0 TMP\_219 = 1 not(TMP\_219) = 0 TMP\_220 = 2 TMP\_221 = 1 not(TMP\_221) = 0 TMP\_222 = 0 not(TMP\_222) = 1 TMP\_223 = 1 not(TMP\_223) = 0 TMP\_224 = 1 not(TMP\_224) = 0 TMP\_225 = 3 TMP\_226 = 0 not(TMP\_226) = 1 TMP\_227 = 0 not(TMP\_227) = 1 TMP\_228 = 0 TMP\_229 = 1 not(TMP\_229) = 0 TMP\_230 = 1 not(TMP\_230) = 0 TMP\_231 = 2 TMP\_232 = 0 not(TMP\_232) = 1 TMP\_233 = 0 not(TMP\_233) = 1 TMP\_234 = 1 not(TMP\_234) = 0 TMP\_235 = 1 not(TMP\_235) = 0 TMP\_236 = 1 not(TMP\_236) = 0 TMP\_237 = 2 TMP\_238 = 1 not(TMP\_238) = 0 TMP\_239 = 1 not(TMP\_239) = 0 TMP\_240 = 1 not(TMP\_240) = 0 TMP\_241 = 0 not(TMP\_241) = 1 TMP\_242 = 3 TMP\_243 = 0 not(TMP\_243) = 1 TMP\_244 = 0 not(TMP\_244) = 1 TMP\_245 = 0 TMP\_246 = 1 not(TMP\_246) = 0 TMP\_247 = 1 not(TMP\_247) = 0 TMP\_248 = 2 TMP\_249 = 0 not(TMP\_249) = 1 TMP\_250 = 0 not(TMP\_250) = 1 TMP\_251 = 1 not(TMP\_251) = 0 TMP\_252 = 1 not(TMP\_252) = 0 TMP\_253 = 1 not(TMP\_253) = 0 TMP\_254 = 2 TMP\_255 = 1 not(TMP\_255) = 0 TMP\_256 = 1 not(TMP\_256) = 0 TMP\_257 = 0 not(TMP\_257) = 1 TMP\_258 = 1 not(TMP\_258) = 0 TMP\_259 = 3 TMP\_260 = 0 not(TMP\_260) = 1 TMP\_261 = 0 not(TMP\_261) = 1 TMP\_262 = 0 TMP\_263 = 1 not(TMP\_263) = 0 TMP\_264 = 1 not(TMP\_264) = 0 TMP\_265 = 2 TMP\_266 = 0 not(TMP\_266) = 1 TMP\_267 = 0 not(TMP\_267) = 1 TMP\_268 = 1 not(TMP\_268) = 0 TMP\_269 = 1 not(TMP\_269) = 0 TMP\_270 = 1 not(TMP\_270) = 0 TMP\_271 = 2 TMP\_272 = 0 not(TMP\_272) = 1 TMP\_273 = 1 not(TMP\_273) = 0 TMP\_274 = 1 not(TMP\_274) = 0 TMP\_275 = 1 not(TMP\_275) = 0 TMP\_276 = 3 TMP\_277 = 0 not(TMP\_277) = 1 TMP\_278 = 0 not(TMP\_278) = 1 TMP\_279 = 0 TMP\_280 = 1 not(TMP\_280) = 0 TMP\_281 = 1 not(TMP\_281) = 0 TMP\_282 = 2 TMP\_283 = 0 not(TMP\_283) = 1 TMP\_284 = 0 not(TMP\_284) = 1 TMP\_285 = 1 not(TMP\_285) = 0 TMP\_286 = 1 not(TMP\_286) = 0 TMP\_287 = 1 not(TMP\_287) = 0 TMP\_288 = 2 TMP\_289 = 0 not(TMP\_289) = 1 TMP\_290 = 1 not(TMP\_290) = 0 TMP\_291 = 1 not(TMP\_291) = 0 TMP\_292 = 1 not(TMP\_292) = 0 TMP\_293 = 3 TMP\_294 = 0 not(TMP\_294) = 1 TMP\_295 = 0 not(TMP\_295) = 1 TMP\_296 = 0 TMP\_297 = 1 not(TMP\_297) = 0 TMP\_298 = 1 not(TMP\_298) = 0 TMP\_299 = 2 TMP\_300 = 0 not(TMP\_300) = 1 TMP\_301 = 0 not(TMP\_301) = 1 TMP\_302 = 1 not(TMP\_302) = 0 TMP\_303 = 1 not(TMP\_303) = 0 TMP\_304 = 1 not(TMP\_304) = 0 TMP\_305 = 2 TMP\_306 = 1 not(TMP\_306) = 0 TMP\_307 = 1 not(TMP\_307) = 0 TMP\_308 = 0 not(TMP\_308) = 1 TMP\_309 = 1 not(TMP\_309) = 0 TMP\_310 = 3 TMP\_311 = 0 not(TMP\_311) = 1 TMP\_312 = 0 not(TMP\_312) = 1 TMP\_313 = 0 TMP\_314 = 1 not(TMP\_314) = 0 TMP\_315 = 1 not(TMP\_315) = 0 TMP\_316 = 2 TMP\_317 = 0 not(TMP\_317) = 1 TMP\_318 = 0 not(TMP\_318) = 1 TMP\_319 = 1 not(TMP\_319) = 0 TMP\_320 = 1 not(TMP\_320) = 0 TMP\_321 = 1 not(TMP\_321) = 0 TMP\_322 = 2 TMP\_323 = 1 not(TMP\_323) = 0 TMP\_324 = 1 not(TMP\_324) = 0 TMP\_325 = 0 not(TMP\_325) = 1 TMP\_326 = 1 not(TMP\_326) = 0 TMP\_327 = 3 TMP\_328 = 0 not(TMP\_328) = 1 TMP\_329 = 0 not(TMP\_329) = 1 TMP\_330 = 0 TMP\_331 = 1 not(TMP\_331) = 0 TMP\_332 = 1 not(TMP\_332) = 0 TMP\_333 = 2 TMP\_334 = 0 not(TMP\_334) = 1 TMP\_335 = 0 not(TMP\_335) = 1 TMP\_336 = 1 not(TMP\_336) = 0 TMP\_337 = 1 not(TMP\_337) = 0 TMP\_338 = 1 not(TMP\_338) = 0 TMP\_339 = 2 Area\_0 = 10000 Distance\_0\_Rule\_0 = 100 Distance\_1\_Rule\_0 = 100 Area\_1 = 5000 Distance\_0\_Rule\_1 = 50 Distance\_1\_Rule\_1 = 100 Area\_2 = 10000 -(Rule\_2\_LB) = 0 Distance\_0\_Rule\_2 = 25 -(Rule\_2\_LB) = -100 Distance\_1\_Rule\_2 = 400 Area\_3 = 60000 -(Rule\_3\_LB) = -100 Distance\_0\_Rule\_3 = 150 -(Rule\_3\_LB) = 0 Distance\_1\_Rule\_3 = 400 Area\_4 = 22500 -(Rule\_4\_LB) = -25 Distance\_0\_Rule\_4 = 75 -(Rule\_4\_LB) = -100 Distance\_1\_Rule\_4 = 300 Area\_5 = 17500 -(Rule\_5\_LB) = -75 Distance\_0\_Rule\_5 = 175 -(Rule\_5\_LB) = -400 Distance\_1\_Rule\_5 = 100 TMP\_340 = 125000 .

- Solution #20 found. 20 Solutions, Resolution 1130.535s, 9453488 Nodes (8,362.0 n/s), 18906610 Backtracks, 9453440 Fails, 0 Restarts

Rule\_2\_LB = 0 Rule\_2\_UB = 25 Rule\_2\_LB = 100 Rule\_2\_UB = 500 Rule\_3\_LB = 100 Rule\_3\_UB = 250 Rule\_3\_LB = 0 Rule\_3\_UB = 400 Rule\_4\_LB = 25 Rule\_4\_UB = 100 Rule\_4\_LB = 100 Rule\_4\_UB = 400 Rule\_5\_LB = 75 Rule\_5\_UB = 250 Rule\_5\_LB = 400 Rule\_5\_UB = 500 Overlaps\_0\_0 = 0 Overlaps\_0\_1 = 1 Overlaps\_0\_2 = 0 Overlaps\_0\_3 = 0 Overlaps\_0\_4 = 0 Overlaps\_0\_5 = 0 Overlaps\_1\_0 = 1 Overlaps\_1\_1 = 0 Overlaps\_1\_2 = 0 Overlaps\_1\_3 = 0 Overlaps\_1\_4 = 0 Overlaps\_1\_5 = 0 Overlaps\_2\_0 = 0 Overlaps\_2\_1 = 0 Overlaps\_2\_2 = 0 Overlaps\_2\_3 = 0 Overlaps\_2\_4 = 0 Overlaps\_2\_5 = 0 Overlaps\_3\_0 = 0 Overlaps\_3\_1 = 0 Overlaps\_3\_2 = 0 Overlaps\_3\_3 = 0 Overlaps\_3\_4 = 0 Overlaps\_3\_5 = 0 Overlaps\_4\_0 = 0 Overlaps\_4\_1 = 0 Overlaps\_4\_2 = 0 Overlaps\_4\_3 = 0 Overlaps\_4\_4 = 0 Overlaps\_4\_5 = 0 Overlaps\_5\_0 = 0 Overlaps\_5\_1 = 0 Overlaps\_5\_2 = 0 Overlaps\_5\_3 = 0 Overlaps\_5\_4 = 0 Overlaps\_5\_5 = 0 TMP\_0 = 1 not(TMP\_0) = 0 TMP\_1 = 1 not(TMP\_1) = 0 TMP\_2 = 0 not(TMP\_2) = 1 TMP\_3 = 1 not(TMP\_3) = 0 TMP\_4 = 3 TMP\_5 = 0 not(TMP\_5) = 1 TMP\_6 = 0 not(TMP\_6) = 1 TMP\_7 = 0 TMP\_8 = 1 not(TMP\_8) = 0 TMP\_9 = 1 not(TMP\_9) = 0 TMP\_10 = 2 TMP\_11 = 0 not(TMP\_11) = 1 TMP\_12 = 0 not(TMP\_12) = 1 TMP\_13 = 1 not(TMP\_13) = 0 TMP\_14 = 1 not(TMP\_14) = 0 TMP\_15 = 1 not(TMP\_15) = 0 TMP\_16 = 2 TMP\_17 = 1 not(TMP\_17) = 0 TMP\_18 = 0 not(TMP\_18) = 1 TMP\_19 = 1 not(TMP\_19) = 0 TMP\_20 = 1 not(TMP\_20) = 0 TMP\_21 = 3 TMP\_22 = 0 not(TMP\_22) = 1 TMP\_23 = 0 not(TMP\_23) = 1 TMP\_24 = 0 TMP\_25 = 1 not(TMP\_25) = 0 TMP\_26 = 1 not(TMP\_26) = 0 TMP\_27 = 2 TMP\_28 = 0 not(TMP\_28) = 1 TMP\_29 = 0 not(TMP\_29) = 1 TMP\_30 = 1 not(TMP\_30) = 0 TMP\_31 = 1 not(TMP\_31) = 0 TMP\_32 = 1 not(TMP\_32) = 0 TMP\_33 = 2 TMP\_34 = 1 not(TMP\_34) = 0 TMP\_35 = 0 not(TMP\_35) = 1 TMP\_36 = 1 not(TMP\_36) = 0 TMP\_37 = 1 not(TMP\_37) = 0 TMP\_38 = 3 TMP\_39 = 0 not(TMP\_39) = 1 TMP\_40 = 0 not(TMP\_40) = 1 TMP\_41 = 0 TMP\_42 = 1 not(TMP\_42) = 0 TMP\_43 = 1 not(TMP\_43) = 0 TMP\_44 = 2 TMP\_45 = 0 not(TMP\_45) = 1 TMP\_46 = 0 not(TMP\_46) = 1 TMP\_47 = 1 not(TMP\_47) = 0 TMP\_48 = 1 not(TMP\_48) = 0 TMP\_49 = 1 not(TMP\_49) = 0 TMP\_50 = 2 TMP\_51 = 1 not(TMP\_51) = 0 TMP\_52 = 0 not(TMP\_52) = 1 TMP\_53 = 1 not(TMP\_53) = 0 TMP\_54 = 1 not(TMP\_54) = 0 TMP\_55 = 3 TMP\_56 = 0 not(TMP\_56) = 1 TMP\_57 = 0 not(TMP\_57) = 1 TMP\_58 = 0 TMP\_59 = 1 not(TMP\_59) = 0 TMP\_60 = 1 not(TMP\_60) = 0 TMP\_61 = 2 TMP\_62 = 0 not(TMP\_62) = 1 TMP\_63 = 0 not(TMP\_63) = 1 TMP\_64 = 1 not(TMP\_64) = 0 TMP\_65 = 1 not(TMP\_65) = 0 TMP\_66 = 1 not(TMP\_66) = 0 TMP\_67 = 2 TMP\_68 = 1 not(TMP\_68) = 0 TMP\_69 = 0 not(TMP\_69) = 1 TMP\_70 = 1 not(TMP\_70) = 0 TMP\_71 = 1 not(TMP\_71) = 0 TMP\_72 = 3 TMP\_73 = 0 not(TMP\_73) = 1 TMP\_74 = 0 not(TMP\_74) = 1 TMP\_75 = 0 TMP\_76 = 1 not(TMP\_76) = 0 TMP\_77 = 1 not(TMP\_77) = 0 TMP\_78 = 2 TMP\_79 = 0 not(TMP\_79) = 1 TMP\_80 = 0 not(TMP\_80) = 1 TMP\_81 = 1 not(TMP\_81) = 0 TMP\_82 = 1 not(TMP\_82) = 0 TMP\_83 = 1 not(TMP\_83) = 0 TMP\_84 = 2 TMP\_85 = 0 not(TMP\_85) = 1 TMP\_86 = 1 not(TMP\_86) = 0 TMP\_87 = 1 not(TMP\_87) = 0 TMP\_88 = 1 not(TMP\_88) = 0 TMP\_89 = 3 TMP\_90 = 0 not(TMP\_90) = 1 TMP\_91 = 0 not(TMP\_91) = 1 TMP\_92 = 0 TMP\_93 = 1 not(TMP\_93) = 0 TMP\_94 = 1 not(TMP\_94) = 0 TMP\_95 = 2 TMP\_96 = 0 not(TMP\_96) = 1 TMP\_97 = 0 not(TMP\_97) = 1 TMP\_98 = 1 not(TMP\_98) = 0 TMP\_99 = 1 not(TMP\_99) = 0 TMP\_100 = 1 not(TMP\_100) = 0 TMP\_101 = 2 TMP\_102 = 0 not(TMP\_102) = 1 TMP\_103 = 1 not(TMP\_103) = 0 TMP\_104 = 1 not(TMP\_104) = 0 TMP\_105 = 0 not(TMP\_105) = 1 TMP\_106 = 2 TMP\_107 = 0 not(TMP\_107) = 1 TMP\_108 = 0 not(TMP\_108) = 1 TMP\_109 = 0 TMP\_110 = 1 not(TMP\_110) = 0 TMP\_111 = 1 not(TMP\_111) = 0 TMP\_112 = 2 TMP\_113 = 0 not(TMP\_113) = 1 TMP\_114 = 0 not(TMP\_114) = 1 TMP\_115 = 1 not(TMP\_115) = 0 TMP\_116 = 1 not(TMP\_116) = 0 TMP\_117 = 1 not(TMP\_117) = 0 TMP\_118 = 2 TMP\_119 = 0 not(TMP\_119) = 1 TMP\_120 = 1 not(TMP\_120) = 0 TMP\_121 = 1 not(TMP\_121) = 0 TMP\_122 = 1 not(TMP\_122) = 0 TMP\_123 = 3 TMP\_124 = 0 not(TMP\_124) = 1 TMP\_125 = 0 not(TMP\_125) = 1 TMP\_126 = 0 TMP\_127 = 1 not(TMP\_127) = 0 TMP\_128 = 1 not(TMP\_128) = 0 TMP\_129 = 2 TMP\_130 = 0 not(TMP\_130) = 1 TMP\_131 = 0 not(TMP\_131) = 1 TMP\_132 = 1 not(TMP\_132) = 0 TMP\_133 = 1 not(TMP\_133) = 0 TMP\_134 = 1 not(TMP\_134) = 0 TMP\_135 = 2 TMP\_136 = 0 not(TMP\_136) = 1 TMP\_137 = 1 not(TMP\_137) = 0 TMP\_138 = 1 not(TMP\_138) = 0 TMP\_139 = 1 not(TMP\_139) = 0 TMP\_140 = 3 TMP\_141 = 0 not(TMP\_141) = 1 TMP\_142 = 0 not(TMP\_142) = 1 TMP\_143 = 0 TMP\_144 = 1 not(TMP\_144) = 0 TMP\_145 = 1 not(TMP\_145) = 0 TMP\_146 = 2 TMP\_147 = 0 not(TMP\_147) = 1 TMP\_148 = 0 not(TMP\_148) = 1 TMP\_149 = 1 not(TMP\_149) = 0 TMP\_150 = 1 not(TMP\_150) = 0 TMP\_151 = 1 not(TMP\_151) = 0 TMP\_152 = 2 TMP\_153 = 1 not(TMP\_153) = 0 TMP\_154 = 1 not(TMP\_154) = 0 TMP\_155 = 1 not(TMP\_155) = 0 TMP\_156 = 0 not(TMP\_156) = 1 TMP\_157 = 3 TMP\_158 = 0 not(TMP\_158) = 1 TMP\_159 = 0 not(TMP\_159) = 1 TMP\_160 = 0 TMP\_161 = 1 not(TMP\_161) = 0 TMP\_162 = 1 not(TMP\_162) = 0 TMP\_163 = 2 TMP\_164 = 0 not(TMP\_164) = 1 TMP\_165 = 0 not(TMP\_165) = 1 TMP\_166 = 1 not(TMP\_166) = 0 TMP\_167 = 1 not(TMP\_167) = 0 TMP\_168 = 1 not(TMP\_168) = 0 TMP\_169 = 2 TMP\_170 = 1 not(TMP\_170) = 0 TMP\_171 = 1 not(TMP\_171) = 0 TMP\_172 = 0 not(TMP\_172) = 1 TMP\_173 = 1 not(TMP\_173) = 0 TMP\_174 = 3 TMP\_175 = 0 not(TMP\_175) = 1 TMP\_176 = 0 not(TMP\_176) = 1 TMP\_177 = 0 TMP\_178 = 1 not(TMP\_178) = 0 TMP\_179 = 1 not(TMP\_179) = 0 TMP\_180 = 2 TMP\_181 = 0 not(TMP\_181) = 1 TMP\_182 = 0 not(TMP\_182) = 1 TMP\_183 = 1 not(TMP\_183) = 0 TMP\_184 = 1 not(TMP\_184) = 0 TMP\_185 = 1 not(TMP\_185) = 0 TMP\_186 = 2 TMP\_187 = 1 not(TMP\_187) = 0 TMP\_188 = 1 not(TMP\_188) = 0 TMP\_189 = 1 not(TMP\_189) = 0 TMP\_190 = 0 not(TMP\_190) = 1 TMP\_191 = 3 TMP\_192 = 0 not(TMP\_192) = 1 TMP\_193 = 0 not(TMP\_193) = 1 TMP\_194 = 0 TMP\_195 = 1 not(TMP\_195) = 0 TMP\_196 = 1 not(TMP\_196) = 0 TMP\_197 = 2 TMP\_198 = 0 not(TMP\_198) = 1 TMP\_199 = 0 not(TMP\_199) = 1 TMP\_200 = 1 not(TMP\_200) = 0 TMP\_201 = 1 not(TMP\_201) = 0 TMP\_202 = 1 not(TMP\_202) = 0 TMP\_203 = 2 TMP\_204 = 0 not(TMP\_204) = 1 TMP\_205 = 1 not(TMP\_205) = 0 TMP\_206 = 1 not(TMP\_206) = 0 TMP\_207 = 1 not(TMP\_207) = 0 TMP\_208 = 3 TMP\_209 = 0 not(TMP\_209) = 1 TMP\_210 = 0 not(TMP\_210) = 1 TMP\_211 = 0 TMP\_212 = 1 not(TMP\_212) = 0 TMP\_213 = 1 not(TMP\_213) = 0 TMP\_214 = 2 TMP\_215 = 0 not(TMP\_215) = 1 TMP\_216 = 0 not(TMP\_216) = 1 TMP\_217 = 1 not(TMP\_217) = 0 TMP\_218 = 1 not(TMP\_218) = 0 TMP\_219 = 1 not(TMP\_219) = 0 TMP\_220 = 2 TMP\_221 = 1 not(TMP\_221) = 0 TMP\_222 = 0 not(TMP\_222) = 1 TMP\_223 = 1 not(TMP\_223) = 0 TMP\_224 = 1 not(TMP\_224) = 0 TMP\_225 = 3 TMP\_226 = 0 not(TMP\_226) = 1 TMP\_227 = 0 not(TMP\_227) = 1 TMP\_228 = 0 TMP\_229 = 1 not(TMP\_229) = 0 TMP\_230 = 1 not(TMP\_230) = 0 TMP\_231 = 2 TMP\_232 = 0 not(TMP\_232) = 1 TMP\_233 = 0 not(TMP\_233) = 1 TMP\_234 = 1 not(TMP\_234) = 0 TMP\_235 = 1 not(TMP\_235) = 0 TMP\_236 = 1 not(TMP\_236) = 0 TMP\_237 = 2 TMP\_238 = 1 not(TMP\_238) = 0 TMP\_239 = 1 not(TMP\_239) = 0 TMP\_240 = 1 not(TMP\_240) = 0 TMP\_241 = 0 not(TMP\_241) = 1 TMP\_242 = 3 TMP\_243 = 0 not(TMP\_243) = 1 TMP\_244 = 0 not(TMP\_244) = 1 TMP\_245 = 0 TMP\_246 = 1 not(TMP\_246) = 0 TMP\_247 = 1 not(TMP\_247) = 0 TMP\_248 = 2 TMP\_249 = 0 not(TMP\_249) = 1 TMP\_250 = 0 not(TMP\_250) = 1 TMP\_251 = 1 not(TMP\_251) = 0 TMP\_252 = 1 not(TMP\_252) = 0 TMP\_253 = 1 not(TMP\_253) = 0 TMP\_254 = 2 TMP\_255 = 1 not(TMP\_255) = 0 TMP\_256 = 1 not(TMP\_256) = 0 TMP\_257 = 0 not(TMP\_257) = 1 TMP\_258 = 1 not(TMP\_258) = 0 TMP\_259 = 3 TMP\_260 = 0 not(TMP\_260) = 1 TMP\_261 = 0 not(TMP\_261) = 1 TMP\_262 = 0 TMP\_263 = 1 not(TMP\_263) = 0 TMP\_264 = 1 not(TMP\_264) = 0 TMP\_265 = 2 TMP\_266 = 0 not(TMP\_266) = 1 TMP\_267 = 0 not(TMP\_267) = 1 TMP\_268 = 1 not(TMP\_268) = 0 TMP\_269 = 1 not(TMP\_269) = 0 TMP\_270 = 1 not(TMP\_270) = 0 TMP\_271 = 2 TMP\_272 = 0 not(TMP\_272) = 1 TMP\_273 = 1 not(TMP\_273) = 0 TMP\_274 = 1 not(TMP\_274) = 0 TMP\_275 = 1 not(TMP\_275) = 0 TMP\_276 = 3 TMP\_277 = 0 not(TMP\_277) = 1 TMP\_278 = 0 not(TMP\_278) = 1 TMP\_279 = 0 TMP\_280 = 1 not(TMP\_280) = 0 TMP\_281 = 1 not(TMP\_281) = 0 TMP\_282 = 2 TMP\_283 = 0 not(TMP\_283) = 1 TMP\_284 = 0 not(TMP\_284) = 1 TMP\_285 = 1 not(TMP\_285) = 0 TMP\_286 = 1 not(TMP\_286) = 0 TMP\_287 = 1 not(TMP\_287) = 0 TMP\_288 = 2 TMP\_289 = 0 not(TMP\_289) = 1 TMP\_290 = 1 not(TMP\_290) = 0 TMP\_291 = 1 not(TMP\_291) = 0 TMP\_292 = 1 not(TMP\_292) = 0 TMP\_293 = 3 TMP\_294 = 0 not(TMP\_294) = 1 TMP\_295 = 0 not(TMP\_295) = 1 TMP\_296 = 0 TMP\_297 = 1 not(TMP\_297) = 0 TMP\_298 = 1 not(TMP\_298) = 0 TMP\_299 = 2 TMP\_300 = 0 not(TMP\_300) = 1 TMP\_301 = 0 not(TMP\_301) = 1 TMP\_302 = 1 not(TMP\_302) = 0 TMP\_303 = 1 not(TMP\_303) = 0 TMP\_304 = 1 not(TMP\_304) = 0 TMP\_305 = 2 TMP\_306 = 1 not(TMP\_306) = 0 TMP\_307 = 1 not(TMP\_307) = 0 TMP\_308 = 0 not(TMP\_308) = 1 TMP\_309 = 1 not(TMP\_309) = 0 TMP\_310 = 3 TMP\_311 = 0 not(TMP\_311) = 1 TMP\_312 = 0 not(TMP\_312) = 1 TMP\_313 = 0 TMP\_314 = 1 not(TMP\_314) = 0 TMP\_315 = 1 not(TMP\_315) = 0 TMP\_316 = 2 TMP\_317 = 0 not(TMP\_317) = 1 TMP\_318 = 0 not(TMP\_318) = 1 TMP\_319 = 1 not(TMP\_319) = 0 TMP\_320 = 1 not(TMP\_320) = 0 TMP\_321 = 1 not(TMP\_321) = 0 TMP\_322 = 2 TMP\_323 = 1 not(TMP\_323) = 0 TMP\_324 = 1 not(TMP\_324) = 0 TMP\_325 = 0 not(TMP\_325) = 1 TMP\_326 = 1 not(TMP\_326) = 0 TMP\_327 = 3 TMP\_328 = 0 not(TMP\_328) = 1 TMP\_329 = 0 not(TMP\_329) = 1 TMP\_330 = 0 TMP\_331 = 1 not(TMP\_331) = 0 TMP\_332 = 1 not(TMP\_332) = 0 TMP\_333 = 2 TMP\_334 = 0 not(TMP\_334) = 1 TMP\_335 = 0 not(TMP\_335) = 1 TMP\_336 = 1 not(TMP\_336) = 0 TMP\_337 = 1 not(TMP\_337) = 0 TMP\_338 = 1 not(TMP\_338) = 0 TMP\_339 = 2 Area\_0 = 10000 Distance\_0\_Rule\_0 = 100 Distance\_1\_Rule\_0 = 100 Area\_1 = 5000 Distance\_0\_Rule\_1 = 50 Distance\_1\_Rule\_1 = 100 Area\_2 = 10000 -(Rule\_2\_LB) = 0 Distance\_0\_Rule\_2 = 25 -(Rule\_2\_LB) = -100 Distance\_1\_Rule\_2 = 400 Area\_3 = 60000 -(Rule\_3\_LB) = -100 Distance\_0\_Rule\_3 = 150 -(Rule\_3\_LB) = 0 Distance\_1\_Rule\_3 = 400 Area\_4 = 22500 -(Rule\_4\_LB) = -25 Distance\_0\_Rule\_4 = 75 -(Rule\_4\_LB) = -100 Distance\_1\_Rule\_4 = 300 Area\_5 = 17500 -(Rule\_5\_LB) = -75 Distance\_0\_Rule\_5 = 175 -(Rule\_5\_LB) = -400 Distance\_1\_Rule\_5 = 100 TMP\_340 = 125000 .

- Incomplete search - Limit reached.

Solutions: 20

Building time : 0.089s

Initialisation : 0.000s

Initial propagation : 0.020s

Resolution : 1,130.536s

Nodes: 9,453,488 (8,361.9 n/s)

Backtracks: 18,906,610

Fails: 9,453,440

Restarts: 0

Max depth: 47,872

Memory: -10mb

Variables: 694

Constraints: 710

## Rules = 3 - Missing Rules = 5

- Solution #1 found. 1 Solutions, Resolution 0.885s, 4676 Nodes (5,283.4 n/s), 9180 Backtracks, 4647 Fails, 0 Restarts

Rule\_3\_LB = 50 Rule\_3\_UB = 250 Rule\_3\_LB = 300 Rule\_3\_UB = 400 Rule\_4\_LB = 0 Rule\_4\_UB = 25 Rule\_4\_LB = 400 Rule\_4\_UB = 500 Rule\_5\_LB = 150 Rule\_5\_UB = 250 Rule\_5\_LB = 0 Rule\_5\_UB = 300 Rule\_6\_LB = 75 Rule\_6\_UB = 250 Rule\_6\_LB = 400 Rule\_6\_UB = 500 Rule\_7\_LB = 0 Rule\_7\_UB = 50 Rule\_7\_LB = 100 Rule\_7\_UB = 400 Overlaps\_0\_0 = 0 Overlaps\_0\_1 = 0 Overlaps\_0\_2 = 0 Overlaps\_0\_3 = 0 Overlaps\_0\_4 = 0 Overlaps\_0\_5 = 0 Overlaps\_0\_6 = 0 Overlaps\_0\_7 = 0 Overlaps\_1\_0 = 0 Overlaps\_1\_1 = 0 Overlaps\_1\_2 = 0 Overlaps\_1\_3 = 0 Overlaps\_1\_4 = 0 Overlaps\_1\_5 = 0 Overlaps\_1\_6 = 0 Overlaps\_1\_7 = 0 Overlaps\_2\_0 = 0 Overlaps\_2\_1 = 0 Overlaps\_2\_2 = 0 Overlaps\_2\_3 = 0 Overlaps\_2\_4 = 0 Overlaps\_2\_5 = 0 Overlaps\_2\_6 = 0 Overlaps\_2\_7 = 0 Overlaps\_3\_0 = 0 Overlaps\_3\_1 = 0 Overlaps\_3\_2 = 0 Overlaps\_3\_3 = 0 Overlaps\_3\_4 = 0 Overlaps\_3\_5 = 0 Overlaps\_3\_6 = 0 Overlaps\_3\_7 = 0 Overlaps\_4\_0 = 0 Overlaps\_4\_1 = 0 Overlaps\_4\_2 = 0 Overlaps\_4\_3 = 0 Overlaps\_4\_4 = 0 Overlaps\_4\_5 = 0 Overlaps\_4\_6 = 0 Overlaps\_4\_7 = 0 Overlaps\_5\_0 = 0 Overlaps\_5\_1 = 0 Overlaps\_5\_2 = 0 Overlaps\_5\_3 = 0 Overlaps\_5\_4 = 0 Overlaps\_5\_5 = 0 Overlaps\_5\_6 = 0 Overlaps\_5\_7 = 0 Overlaps\_6\_0 = 0 Overlaps\_6\_1 = 0 Overlaps\_6\_2 = 0 Overlaps\_6\_3 = 0 Overlaps\_6\_4 = 0 Overlaps\_6\_5 = 0 Overlaps\_6\_6 = 0 Overlaps\_6\_7 = 0 Overlaps\_7\_0 = 0 Overlaps\_7\_1 = 0 Overlaps\_7\_2 = 0 Overlaps\_7\_3 = 0 Overlaps\_7\_4 = 0 Overlaps\_7\_5 = 0 Overlaps\_7\_6 = 0 Overlaps\_7\_7 = 0 TMP\_0 = 1 not(TMP\_0) = 0 TMP\_1 = 1 not(TMP\_1) = 0 TMP\_2 = 0 not(TMP\_2) = 1 TMP\_3 = 1 not(TMP\_3) = 0 TMP\_4 = 3 TMP\_5 = 0 not(TMP\_5) = 1 TMP\_6 = 0 not(TMP\_6) = 1 TMP\_7 = 0 TMP\_8 = 1 not(TMP\_8) = 0 TMP\_9 = 1 not(TMP\_9) = 0 TMP\_10 = 2 TMP\_11 = 0 not(TMP\_11) = 1 TMP\_12 = 0 not(TMP\_12) = 1 TMP\_13 = 1 not(TMP\_13) = 0 TMP\_14 = 1 not(TMP\_14) = 0 TMP\_15 = 1 not(TMP\_15) = 0 TMP\_16 = 2 TMP\_17 = 1 not(TMP\_17) = 0 TMP\_18 = 1 not(TMP\_18) = 0 TMP\_19 = 1 not(TMP\_19) = 0 TMP\_20 = 0 not(TMP\_20) = 1 TMP\_21 = 3 TMP\_22 = 0 not(TMP\_22) = 1 TMP\_23 = 0 not(TMP\_23) = 1 TMP\_24 = 0 TMP\_25 = 1 not(TMP\_25) = 0 TMP\_26 = 1 not(TMP\_26) = 0 TMP\_27 = 2 TMP\_28 = 0 not(TMP\_28) = 1 TMP\_29 = 0 not(TMP\_29) = 1 TMP\_30 = 1 not(TMP\_30) = 0 TMP\_31 = 1 not(TMP\_31) = 0 TMP\_32 = 1 not(TMP\_32) = 0 TMP\_33 = 2 TMP\_34 = 1 not(TMP\_34) = 0 TMP\_35 = 1 not(TMP\_35) = 0 TMP\_36 = 0 not(TMP\_36) = 1 TMP\_37 = 1 not(TMP\_37) = 0 TMP\_38 = 3 TMP\_39 = 0 not(TMP\_39) = 1 TMP\_40 = 0 not(TMP\_40) = 1 TMP\_41 = 0 TMP\_42 = 1 not(TMP\_42) = 0 TMP\_43 = 1 not(TMP\_43) = 0 TMP\_44 = 2 TMP\_45 = 0 not(TMP\_45) = 1 TMP\_46 = 0 not(TMP\_46) = 1 TMP\_47 = 1 not(TMP\_47) = 0 TMP\_48 = 1 not(TMP\_48) = 0 TMP\_49 = 1 not(TMP\_49) = 0 TMP\_50 = 2 TMP\_51 = 0 not(TMP\_51) = 1 TMP\_52 = 1 not(TMP\_52) = 0 TMP\_53 = 1 not(TMP\_53) = 0 TMP\_54 = 0 not(TMP\_54) = 1 TMP\_55 = 2 TMP\_56 = 0 not(TMP\_56) = 1 TMP\_57 = 0 not(TMP\_57) = 1 TMP\_58 = 0 TMP\_59 = 1 not(TMP\_59) = 0 TMP\_60 = 1 not(TMP\_60) = 0 TMP\_61 = 2 TMP\_62 = 0 not(TMP\_62) = 1 TMP\_63 = 0 not(TMP\_63) = 1 TMP\_64 = 1 not(TMP\_64) = 0 TMP\_65 = 1 not(TMP\_65) = 0 TMP\_66 = 1 not(TMP\_66) = 0 TMP\_67 = 2 TMP\_68 = 1 not(TMP\_68) = 0 TMP\_69 = 1 not(TMP\_69) = 0 TMP\_70 = 0 not(TMP\_70) = 1 TMP\_71 = 1 not(TMP\_71) = 0 TMP\_72 = 3 TMP\_73 = 0 not(TMP\_73) = 1 TMP\_74 = 0 not(TMP\_74) = 1 TMP\_75 = 0 TMP\_76 = 1 not(TMP\_76) = 0 TMP\_77 = 1 not(TMP\_77) = 0 TMP\_78 = 2 TMP\_79 = 0 not(TMP\_79) = 1 TMP\_80 = 0 not(TMP\_80) = 1 TMP\_81 = 1 not(TMP\_81) = 0 TMP\_82 = 1 not(TMP\_82) = 0 TMP\_83 = 1 not(TMP\_83) = 0 TMP\_84 = 2 TMP\_85 = 1 not(TMP\_85) = 0 TMP\_86 = 1 not(TMP\_86) = 0 TMP\_87 = 1 not(TMP\_87) = 0 TMP\_88 = 0 not(TMP\_88) = 1 TMP\_89 = 3 TMP\_90 = 0 not(TMP\_90) = 1 TMP\_91 = 0 not(TMP\_91) = 1 TMP\_92 = 0 TMP\_93 = 1 not(TMP\_93) = 0 TMP\_94 = 1 not(TMP\_94) = 0 TMP\_95 = 2 TMP\_96 = 0 not(TMP\_96) = 1 TMP\_97 = 0 not(TMP\_97) = 1 TMP\_98 = 1 not(TMP\_98) = 0 TMP\_99 = 1 not(TMP\_99) = 0 TMP\_100 = 1 not(TMP\_100) = 0 TMP\_101 = 2 TMP\_102 = 0 not(TMP\_102) = 1 TMP\_103 = 1 not(TMP\_103) = 0 TMP\_104 = 1 not(TMP\_104) = 0 TMP\_105 = 1 not(TMP\_105) = 0 TMP\_106 = 3 TMP\_107 = 0 not(TMP\_107) = 1 TMP\_108 = 0 not(TMP\_108) = 1 TMP\_109 = 0 TMP\_110 = 1 not(TMP\_110) = 0 TMP\_111 = 1 not(TMP\_111) = 0 TMP\_112 = 2 TMP\_113 = 0 not(TMP\_113) = 1 TMP\_114 = 0 not(TMP\_114) = 1 TMP\_115 = 1 not(TMP\_115) = 0 TMP\_116 = 1 not(TMP\_116) = 0 TMP\_117 = 1 not(TMP\_117) = 0 TMP\_118 = 2 TMP\_119 = 1 not(TMP\_119) = 0 TMP\_120 = 1 not(TMP\_120) = 0 TMP\_121 = 0 not(TMP\_121) = 1 TMP\_122 = 1 not(TMP\_122) = 0 TMP\_123 = 3 TMP\_124 = 0 not(TMP\_124) = 1 TMP\_125 = 0 not(TMP\_125) = 1 TMP\_126 = 0 TMP\_127 = 1 not(TMP\_127) = 0 TMP\_128 = 1 not(TMP\_128) = 0 TMP\_129 = 2 TMP\_130 = 0 not(TMP\_130) = 1 TMP\_131 = 0 not(TMP\_131) = 1 TMP\_132 = 1 not(TMP\_132) = 0 TMP\_133 = 1 not(TMP\_133) = 0 TMP\_134 = 1 not(TMP\_134) = 0 TMP\_135 = 2 TMP\_136 = 1 not(TMP\_136) = 0 TMP\_137 = 0 not(TMP\_137) = 1 TMP\_138 = 1 not(TMP\_138) = 0 TMP\_139 = 1 not(TMP\_139) = 0 TMP\_140 = 3 TMP\_141 = 0 not(TMP\_141) = 1 TMP\_142 = 0 not(TMP\_142) = 1 TMP\_143 = 0 TMP\_144 = 1 not(TMP\_144) = 0 TMP\_145 = 1 not(TMP\_145) = 0 TMP\_146 = 2 TMP\_147 = 0 not(TMP\_147) = 1 TMP\_148 = 0 not(TMP\_148) = 1 TMP\_149 = 1 not(TMP\_149) = 0 TMP\_150 = 1 not(TMP\_150) = 0 TMP\_151 = 1 not(TMP\_151) = 0 TMP\_152 = 2 TMP\_153 = 1 not(TMP\_153) = 0 TMP\_154 = 0 not(TMP\_154) = 1 TMP\_155 = 0 not(TMP\_155) = 1 TMP\_156 = 1 not(TMP\_156) = 0 TMP\_157 = 2 TMP\_158 = 0 not(TMP\_158) = 1 TMP\_159 = 0 not(TMP\_159) = 1 TMP\_160 = 0 TMP\_161 = 1 not(TMP\_161) = 0 TMP\_162 = 1 not(TMP\_162) = 0 TMP\_163 = 2 TMP\_164 = 0 not(TMP\_164) = 1 TMP\_165 = 0 not(TMP\_165) = 1 TMP\_166 = 1 not(TMP\_166) = 0 TMP\_167 = 1 not(TMP\_167) = 0 TMP\_168 = 1 not(TMP\_168) = 0 TMP\_169 = 2 TMP\_170 = 1 not(TMP\_170) = 0 TMP\_171 = 0 not(TMP\_171) = 1 TMP\_172 = 0 not(TMP\_172) = 1 TMP\_173 = 1 not(TMP\_173) = 0 TMP\_174 = 2 TMP\_175 = 0 not(TMP\_175) = 1 TMP\_176 = 0 not(TMP\_176) = 1 TMP\_177 = 0 TMP\_178 = 1 not(TMP\_178) = 0 TMP\_179 = 1 not(TMP\_179) = 0 TMP\_180 = 2 TMP\_181 = 0 not(TMP\_181) = 1 TMP\_182 = 0 not(TMP\_182) = 1 TMP\_183 = 1 not(TMP\_183) = 0 TMP\_184 = 1 not(TMP\_184) = 0 TMP\_185 = 1 not(TMP\_185) = 0 TMP\_186 = 2 TMP\_187 = 1 not(TMP\_187) = 0 TMP\_188 = 0 not(TMP\_188) = 1 TMP\_189 = 0 not(TMP\_189) = 1 TMP\_190 = 1 not(TMP\_190) = 0 TMP\_191 = 2 TMP\_192 = 0 not(TMP\_192) = 1 TMP\_193 = 0 not(TMP\_193) = 1 TMP\_194 = 0 TMP\_195 = 1 not(TMP\_195) = 0 TMP\_196 = 1 not(TMP\_196) = 0 TMP\_197 = 2 TMP\_198 = 0 not(TMP\_198) = 1 TMP\_199 = 0 not(TMP\_199) = 1 TMP\_200 = 1 not(TMP\_200) = 0 TMP\_201 = 1 not(TMP\_201) = 0 TMP\_202 = 1 not(TMP\_202) = 0 TMP\_203 = 2 TMP\_204 = 1 not(TMP\_204) = 0 TMP\_205 = 0 not(TMP\_205) = 1 TMP\_206 = 1 not(TMP\_206) = 0 TMP\_207 = 1 not(TMP\_207) = 0 TMP\_208 = 3 TMP\_209 = 0 not(TMP\_209) = 1 TMP\_210 = 0 not(TMP\_210) = 1 TMP\_211 = 0 TMP\_212 = 1 not(TMP\_212) = 0 TMP\_213 = 1 not(TMP\_213) = 0 TMP\_214 = 2 TMP\_215 = 0 not(TMP\_215) = 1 TMP\_216 = 0 not(TMP\_216) = 1 TMP\_217 = 1 not(TMP\_217) = 0 TMP\_218 = 1 not(TMP\_218) = 0 TMP\_219 = 1 not(TMP\_219) = 0 TMP\_220 = 2 TMP\_221 = 1 not(TMP\_221) = 0 TMP\_222 = 1 not(TMP\_222) = 0 TMP\_223 = 0 not(TMP\_223) = 1 TMP\_224 = 1 not(TMP\_224) = 0 TMP\_225 = 3 TMP\_226 = 0 not(TMP\_226) = 1 TMP\_227 = 0 not(TMP\_227) = 1 TMP\_228 = 0 TMP\_229 = 1 not(TMP\_229) = 0 TMP\_230 = 1 not(TMP\_230) = 0 TMP\_231 = 2 TMP\_232 = 0 not(TMP\_232) = 1 TMP\_233 = 0 not(TMP\_233) = 1 TMP\_234 = 1 not(TMP\_234) = 0 TMP\_235 = 1 not(TMP\_235) = 0 TMP\_236 = 1 not(TMP\_236) = 0 TMP\_237 = 2 TMP\_238 = 0 not(TMP\_238) = 1 TMP\_239 = 1 not(TMP\_239) = 0 TMP\_240 = 1 not(TMP\_240) = 0 TMP\_241 = 1 not(TMP\_241) = 0 TMP\_242 = 3 TMP\_243 = 0 not(TMP\_243) = 1 TMP\_244 = 0 not(TMP\_244) = 1 TMP\_245 = 0 TMP\_246 = 1 not(TMP\_246) = 0 TMP\_247 = 1 not(TMP\_247) = 0 TMP\_248 = 2 TMP\_249 = 0 not(TMP\_249) = 1 TMP\_250 = 0 not(TMP\_250) = 1 TMP\_251 = 1 not(TMP\_251) = 0 TMP\_252 = 1 not(TMP\_252) = 0 TMP\_253 = 1 not(TMP\_253) = 0 TMP\_254 = 2 TMP\_255 = 0 not(TMP\_255) = 1 TMP\_256 = 1 not(TMP\_256) = 0 TMP\_257 = 1 not(TMP\_257) = 0 TMP\_258 = 0 not(TMP\_258) = 1 TMP\_259 = 2 TMP\_260 = 0 not(TMP\_260) = 1 TMP\_261 = 0 not(TMP\_261) = 1 TMP\_262 = 0 TMP\_263 = 1 not(TMP\_263) = 0 TMP\_264 = 1 not(TMP\_264) = 0 TMP\_265 = 2 TMP\_266 = 0 not(TMP\_266) = 1 TMP\_267 = 0 not(TMP\_267) = 1 TMP\_268 = 1 not(TMP\_268) = 0 TMP\_269 = 1 not(TMP\_269) = 0 TMP\_270 = 1 not(TMP\_270) = 0 TMP\_271 = 2 TMP\_272 = 0 not(TMP\_272) = 1 TMP\_273 = 1 not(TMP\_273) = 0 TMP\_274 = 1 not(TMP\_274) = 0 TMP\_275 = 1 not(TMP\_275) = 0 TMP\_276 = 3 TMP\_277 = 0 not(TMP\_277) = 1 TMP\_278 = 0 not(TMP\_278) = 1 TMP\_279 = 0 TMP\_280 = 1 not(TMP\_280) = 0 TMP\_281 = 1 not(TMP\_281) = 0 TMP\_282 = 2 TMP\_283 = 0 not(TMP\_283) = 1 TMP\_284 = 0 not(TMP\_284) = 1 TMP\_285 = 1 not(TMP\_285) = 0 TMP\_286 = 1 not(TMP\_286) = 0 TMP\_287 = 1 not(TMP\_287) = 0 TMP\_288 = 2 TMP\_289 = 1 not(TMP\_289) = 0 TMP\_290 = 1 not(TMP\_290) = 0 TMP\_291 = 1 not(TMP\_291) = 0 TMP\_292 = 0 not(TMP\_292) = 1 TMP\_293 = 3 TMP\_294 = 0 not(TMP\_294) = 1 TMP\_295 = 0 not(TMP\_295) = 1 TMP\_296 = 0 TMP\_297 = 1 not(TMP\_297) = 0 TMP\_298 = 1 not(TMP\_298) = 0 TMP\_299 = 2 TMP\_300 = 0 not(TMP\_300) = 1 TMP\_301 = 0 not(TMP\_301) = 1 TMP\_302 = 1 not(TMP\_302) = 0 TMP\_303 = 1 not(TMP\_303) = 0 TMP\_304 = 1 not(TMP\_304) = 0 TMP\_305 = 2 TMP\_306 = 0 not(TMP\_306) = 1 TMP\_307 = 1 not(TMP\_307) = 0 TMP\_308 = 1 not(TMP\_308) = 0 TMP\_309 = 0 not(TMP\_309) = 1 TMP\_310 = 2 TMP\_311 = 0 not(TMP\_311) = 1 TMP\_312 = 0 not(TMP\_312) = 1 TMP\_313 = 0 TMP\_314 = 1 not(TMP\_314) = 0 TMP\_315 = 1 not(TMP\_315) = 0 TMP\_316 = 2 TMP\_317 = 0 not(TMP\_317) = 1 TMP\_318 = 0 not(TMP\_318) = 1 TMP\_319 = 1 not(TMP\_319) = 0 TMP\_320 = 1 not(TMP\_320) = 0 TMP\_321 = 1 not(TMP\_321) = 0 TMP\_322 = 2 TMP\_323 = 1 not(TMP\_323) = 0 TMP\_324 = 1 not(TMP\_324) = 0 TMP\_325 = 1 not(TMP\_325) = 0 TMP\_326 = 0 not(TMP\_326) = 1 TMP\_327 = 3 TMP\_328 = 0 not(TMP\_328) = 1 TMP\_329 = 0 not(TMP\_329) = 1 TMP\_330 = 0 TMP\_331 = 1 not(TMP\_331) = 0 TMP\_332 = 1 not(TMP\_332) = 0 TMP\_333 = 2 TMP\_334 = 0 not(TMP\_334) = 1 TMP\_335 = 0 not(TMP\_335) = 1 TMP\_336 = 1 not(TMP\_336) = 0 TMP\_337 = 1 not(TMP\_337) = 0 TMP\_338 = 1 not(TMP\_338) = 0 TMP\_339 = 2 TMP\_340 = 0 not(TMP\_340) = 1 TMP\_341 = 1 not(TMP\_341) = 0 TMP\_342 = 1 not(TMP\_342) = 0 TMP\_343 = 1 not(TMP\_343) = 0 TMP\_344 = 3 TMP\_345 = 0 not(TMP\_345) = 1 TMP\_346 = 0 not(TMP\_346) = 1 TMP\_347 = 0 TMP\_348 = 1 not(TMP\_348) = 0 TMP\_349 = 1 not(TMP\_349) = 0 TMP\_350 = 2 TMP\_351 = 0 not(TMP\_351) = 1 TMP\_352 = 0 not(TMP\_352) = 1 TMP\_353 = 1 not(TMP\_353) = 0 TMP\_354 = 1 not(TMP\_354) = 0 TMP\_355 = 1 not(TMP\_355) = 0 TMP\_356 = 2 TMP\_357 = 1 not(TMP\_357) = 0 TMP\_358 = 1 not(TMP\_358) = 0 TMP\_359 = 0 not(TMP\_359) = 1 TMP\_360 = 1 not(TMP\_360) = 0 TMP\_361 = 3 TMP\_362 = 0 not(TMP\_362) = 1 TMP\_363 = 0 not(TMP\_363) = 1 TMP\_364 = 0 TMP\_365 = 1 not(TMP\_365) = 0 TMP\_366 = 1 not(TMP\_366) = 0 TMP\_367 = 2 TMP\_368 = 0 not(TMP\_368) = 1 TMP\_369 = 0 not(TMP\_369) = 1 TMP\_370 = 1 not(TMP\_370) = 0 TMP\_371 = 1 not(TMP\_371) = 0 TMP\_372 = 1 not(TMP\_372) = 0 TMP\_373 = 2 TMP\_374 = 0 not(TMP\_374) = 1 TMP\_375 = 1 not(TMP\_375) = 0 TMP\_376 = 1 not(TMP\_376) = 0 TMP\_377 = 1 not(TMP\_377) = 0 TMP\_378 = 3 TMP\_379 = 0 not(TMP\_379) = 1 TMP\_380 = 0 not(TMP\_380) = 1 TMP\_381 = 0 TMP\_382 = 1 not(TMP\_382) = 0 TMP\_383 = 1 not(TMP\_383) = 0 TMP\_384 = 2 TMP\_385 = 0 not(TMP\_385) = 1 TMP\_386 = 0 not(TMP\_386) = 1 TMP\_387 = 1 not(TMP\_387) = 0 TMP\_388 = 1 not(TMP\_388) = 0 TMP\_389 = 1 not(TMP\_389) = 0 TMP\_390 = 2 TMP\_391 = 1 not(TMP\_391) = 0 TMP\_392 = 1 not(TMP\_392) = 0 TMP\_393 = 0 not(TMP\_393) = 1 TMP\_394 = 1 not(TMP\_394) = 0 TMP\_395 = 3 TMP\_396 = 0 not(TMP\_396) = 1 TMP\_397 = 0 not(TMP\_397) = 1 TMP\_398 = 0 TMP\_399 = 1 not(TMP\_399) = 0 TMP\_400 = 1 not(TMP\_400) = 0 TMP\_401 = 2 TMP\_402 = 0 not(TMP\_402) = 1 TMP\_403 = 0 not(TMP\_403) = 1 TMP\_404 = 1 not(TMP\_404) = 0 TMP\_405 = 1 not(TMP\_405) = 0 TMP\_406 = 1 not(TMP\_406) = 0 TMP\_407 = 2 TMP\_408 = 1 not(TMP\_408) = 0 TMP\_409 = 1 not(TMP\_409) = 0 TMP\_410 = 0 not(TMP\_410) = 1 TMP\_411 = 1 not(TMP\_411) = 0 TMP\_412 = 3 TMP\_413 = 0 not(TMP\_413) = 1 TMP\_414 = 0 not(TMP\_414) = 1 TMP\_415 = 0 TMP\_416 = 1 not(TMP\_416) = 0 TMP\_417 = 1 not(TMP\_417) = 0 TMP\_418 = 2 TMP\_419 = 0 not(TMP\_419) = 1 TMP\_420 = 0 not(TMP\_420) = 1 TMP\_421 = 1 not(TMP\_421) = 0 TMP\_422 = 1 not(TMP\_422) = 0 TMP\_423 = 1 not(TMP\_423) = 0 TMP\_424 = 2 TMP\_425 = 0 not(TMP\_425) = 1 TMP\_426 = 1 not(TMP\_426) = 0 TMP\_427 = 1 not(TMP\_427) = 0 TMP\_428 = 1 not(TMP\_428) = 0 TMP\_429 = 3 TMP\_430 = 0 not(TMP\_430) = 1 TMP\_431 = 0 not(TMP\_431) = 1 TMP\_432 = 0 TMP\_433 = 1 not(TMP\_433) = 0 TMP\_434 = 1 not(TMP\_434) = 0 TMP\_435 = 2 TMP\_436 = 0 not(TMP\_436) = 1 TMP\_437 = 0 not(TMP\_437) = 1 TMP\_438 = 1 not(TMP\_438) = 0 TMP\_439 = 1 not(TMP\_439) = 0 TMP\_440 = 1 not(TMP\_440) = 0 TMP\_441 = 2 TMP\_442 = 1 not(TMP\_442) = 0 TMP\_443 = 1 not(TMP\_443) = 0 TMP\_444 = 0 not(TMP\_444) = 1 TMP\_445 = 1 not(TMP\_445) = 0 TMP\_446 = 3 TMP\_447 = 0 not(TMP\_447) = 1 TMP\_448 = 0 not(TMP\_448) = 1 TMP\_449 = 0 TMP\_450 = 1 not(TMP\_450) = 0 TMP\_451 = 1 not(TMP\_451) = 0 TMP\_452 = 2 TMP\_453 = 0 not(TMP\_453) = 1 TMP\_454 = 0 not(TMP\_454) = 1 TMP\_455 = 1 not(TMP\_455) = 0 TMP\_456 = 1 not(TMP\_456) = 0 TMP\_457 = 1 not(TMP\_457) = 0 TMP\_458 = 2 TMP\_459 = 0 not(TMP\_459) = 1 TMP\_460 = 1 not(TMP\_460) = 0 TMP\_461 = 0 not(TMP\_461) = 1 TMP\_462 = 1 not(TMP\_462) = 0 TMP\_463 = 2 TMP\_464 = 0 not(TMP\_464) = 1 TMP\_465 = 0 not(TMP\_465) = 1 TMP\_466 = 0 TMP\_467 = 1 not(TMP\_467) = 0 TMP\_468 = 1 not(TMP\_468) = 0 TMP\_469 = 2 TMP\_470 = 0 not(TMP\_470) = 1 TMP\_471 = 0 not(TMP\_471) = 1 TMP\_472 = 1 not(TMP\_472) = 0 TMP\_473 = 1 not(TMP\_473) = 0 TMP\_474 = 1 not(TMP\_474) = 0 TMP\_475 = 2 TMP\_476 = 1 not(TMP\_476) = 0 TMP\_477 = 1 not(TMP\_477) = 0 TMP\_478 = 0 not(TMP\_478) = 1 TMP\_479 = 1 not(TMP\_479) = 0 TMP\_480 = 3 TMP\_481 = 0 not(TMP\_481) = 1 TMP\_482 = 0 not(TMP\_482) = 1 TMP\_483 = 0 TMP\_484 = 1 not(TMP\_484) = 0 TMP\_485 = 1 not(TMP\_485) = 0 TMP\_486 = 2 TMP\_487 = 0 not(TMP\_487) = 1 TMP\_488 = 0 not(TMP\_488) = 1 TMP\_489 = 1 not(TMP\_489) = 0 TMP\_490 = 1 not(TMP\_490) = 0 TMP\_491 = 1 not(TMP\_491) = 0 TMP\_492 = 2 TMP\_493 = 1 not(TMP\_493) = 0 TMP\_494 = 1 not(TMP\_494) = 0 TMP\_495 = 1 not(TMP\_495) = 0 TMP\_496 = 0 not(TMP\_496) = 1 TMP\_497 = 3 TMP\_498 = 0 not(TMP\_498) = 1 TMP\_499 = 0 not(TMP\_499) = 1 TMP\_500 = 0 TMP\_501 = 1 not(TMP\_501) = 0 TMP\_502 = 1 not(TMP\_502) = 0 TMP\_503 = 2 TMP\_504 = 0 not(TMP\_504) = 1 TMP\_505 = 0 not(TMP\_505) = 1 TMP\_506 = 1 not(TMP\_506) = 0 TMP\_507 = 1 not(TMP\_507) = 0 TMP\_508 = 1 not(TMP\_508) = 0 TMP\_509 = 2 TMP\_510 = 1 not(TMP\_510) = 0 TMP\_511 = 0 not(TMP\_511) = 1 TMP\_512 = 1 not(TMP\_512) = 0 TMP\_513 = 1 not(TMP\_513) = 0 TMP\_514 = 3 TMP\_515 = 0 not(TMP\_515) = 1 TMP\_516 = 0 not(TMP\_516) = 1 TMP\_517 = 0 TMP\_518 = 1 not(TMP\_518) = 0 TMP\_519 = 1 not(TMP\_519) = 0 TMP\_520 = 2 TMP\_521 = 0 not(TMP\_521) = 1 TMP\_522 = 0 not(TMP\_522) = 1 TMP\_523 = 1 not(TMP\_523) = 0 TMP\_524 = 1 not(TMP\_524) = 0 TMP\_525 = 1 not(TMP\_525) = 0 TMP\_526 = 2 TMP\_527 = 1 not(TMP\_527) = 0 TMP\_528 = 0 not(TMP\_528) = 1 TMP\_529 = 1 not(TMP\_529) = 0 TMP\_530 = 1 not(TMP\_530) = 0 TMP\_531 = 3 TMP\_532 = 0 not(TMP\_532) = 1 TMP\_533 = 0 not(TMP\_533) = 1 TMP\_534 = 0 TMP\_535 = 1 not(TMP\_535) = 0 TMP\_536 = 1 not(TMP\_536) = 0 TMP\_537 = 2 TMP\_538 = 0 not(TMP\_538) = 1 TMP\_539 = 0 not(TMP\_539) = 1 TMP\_540 = 1 not(TMP\_540) = 0 TMP\_541 = 1 not(TMP\_541) = 0 TMP\_542 = 1 not(TMP\_542) = 0 TMP\_543 = 2 TMP\_544 = 1 not(TMP\_544) = 0 TMP\_545 = 1 not(TMP\_545) = 0 TMP\_546 = 1 not(TMP\_546) = 0 TMP\_547 = 0 not(TMP\_547) = 1 TMP\_548 = 3 TMP\_549 = 0 not(TMP\_549) = 1 TMP\_550 = 0 not(TMP\_550) = 1 TMP\_551 = 0 TMP\_552 = 1 not(TMP\_552) = 0 TMP\_553 = 1 not(TMP\_553) = 0 TMP\_554 = 2 TMP\_555 = 0 not(TMP\_555) = 1 TMP\_556 = 0 not(TMP\_556) = 1 TMP\_557 = 1 not(TMP\_557) = 0 TMP\_558 = 1 not(TMP\_558) = 0 TMP\_559 = 1 not(TMP\_559) = 0 TMP\_560 = 2 TMP\_561 = 1 not(TMP\_561) = 0 TMP\_562 = 0 not(TMP\_562) = 1 TMP\_563 = 1 not(TMP\_563) = 0 TMP\_564 = 1 not(TMP\_564) = 0 TMP\_565 = 3 TMP\_566 = 0 not(TMP\_566) = 1 TMP\_567 = 0 not(TMP\_567) = 1 TMP\_568 = 0 TMP\_569 = 1 not(TMP\_569) = 0 TMP\_570 = 1 not(TMP\_570) = 0 TMP\_571 = 2 TMP\_572 = 0 not(TMP\_572) = 1 TMP\_573 = 0 not(TMP\_573) = 1 TMP\_574 = 1 not(TMP\_574) = 0 TMP\_575 = 1 not(TMP\_575) = 0 TMP\_576 = 1 not(TMP\_576) = 0 TMP\_577 = 2 TMP\_578 = 1 not(TMP\_578) = 0 TMP\_579 = 0 not(TMP\_579) = 1 TMP\_580 = 1 not(TMP\_580) = 0 TMP\_581 = 0 not(TMP\_581) = 1 TMP\_582 = 2 TMP\_583 = 0 not(TMP\_583) = 1 TMP\_584 = 0 not(TMP\_584) = 1 TMP\_585 = 0 TMP\_586 = 1 not(TMP\_586) = 0 TMP\_587 = 1 not(TMP\_587) = 0 TMP\_588 = 2 TMP\_589 = 0 not(TMP\_589) = 1 TMP\_590 = 0 not(TMP\_590) = 1 TMP\_591 = 1 not(TMP\_591) = 0 TMP\_592 = 1 not(TMP\_592) = 0 TMP\_593 = 1 not(TMP\_593) = 0 TMP\_594 = 2 Area\_0 = 10000 Distance\_0\_Rule\_0 = 100 Distance\_1\_Rule\_0 = 100 Area\_1 = 5000 Distance\_0\_Rule\_1 = 50 Distance\_1\_Rule\_1 = 100 Area\_2 = 25000 Distance\_0\_Rule\_2 = 100 Distance\_1\_Rule\_2 = 250 Area\_3 = 20000 -(Rule\_3\_LB) = -50 Distance\_0\_Rule\_3 = 200 -(Rule\_3\_LB) = -300 Distance\_1\_Rule\_3 = 100 Area\_4 = 2500 -(Rule\_4\_LB) = 0 Distance\_0\_Rule\_4 = 25 -(Rule\_4\_LB) = -400 Distance\_1\_Rule\_4 = 100 Area\_5 = 30000 -(Rule\_5\_LB) = -150 Distance\_0\_Rule\_5 = 100 -(Rule\_5\_LB) = 0 Distance\_1\_Rule\_5 = 300 Area\_6 = 17500 -(Rule\_6\_LB) = -75 Distance\_0\_Rule\_6 = 175 -(Rule\_6\_LB) = -400 Distance\_1\_Rule\_6 = 100 Area\_7 = 15000 -(Rule\_7\_LB) = 0 Distance\_0\_Rule\_7 = 50 -(Rule\_7\_LB) = -100 Distance\_1\_Rule\_7 = 300 TMP\_595 = 125000 .

- Solution #2 found. 2 Solutions, Resolution 0.896s, 4677 Nodes (5,218.3 n/s), 9181 Backtracks, 4647 Fails, 0 Restarts

Rule\_3\_LB = 50 Rule\_3\_UB = 250 Rule\_3\_LB = 300 Rule\_3\_UB = 400 Rule\_4\_LB = 0 Rule\_4\_UB = 25 Rule\_4\_LB = 400 Rule\_4\_UB = 500 Rule\_5\_LB = 150 Rule\_5\_UB = 250 Rule\_5\_LB = 0 Rule\_5\_UB = 300 Rule\_6\_LB = 75 Rule\_6\_UB = 250 Rule\_6\_LB = 400 Rule\_6\_UB = 500 Rule\_7\_LB = 0 Rule\_7\_UB = 50 Rule\_7\_LB = 100 Rule\_7\_UB = 400 Overlaps\_0\_0 = 0 Overlaps\_0\_1 = 0 Overlaps\_0\_2 = 0 Overlaps\_0\_3 = 0 Overlaps\_0\_4 = 0 Overlaps\_0\_5 = 0 Overlaps\_0\_6 = 0 Overlaps\_0\_7 = 0 Overlaps\_1\_0 = 0 Overlaps\_1\_1 = 0 Overlaps\_1\_2 = 0 Overlaps\_1\_3 = 0 Overlaps\_1\_4 = 0 Overlaps\_1\_5 = 0 Overlaps\_1\_6 = 0 Overlaps\_1\_7 = 0 Overlaps\_2\_0 = 1 Overlaps\_2\_1 = 0 Overlaps\_2\_2 = 0 Overlaps\_2\_3 = 0 Overlaps\_2\_4 = 0 Overlaps\_2\_5 = 0 Overlaps\_2\_6 = 0 Overlaps\_2\_7 = 0 Overlaps\_3\_0 = 0 Overlaps\_3\_1 = 0 Overlaps\_3\_2 = 0 Overlaps\_3\_3 = 0 Overlaps\_3\_4 = 0 Overlaps\_3\_5 = 0 Overlaps\_3\_6 = 0 Overlaps\_3\_7 = 0 Overlaps\_4\_0 = 0 Overlaps\_4\_1 = 0 Overlaps\_4\_2 = 0 Overlaps\_4\_3 = 0 Overlaps\_4\_4 = 0 Overlaps\_4\_5 = 0 Overlaps\_4\_6 = 0 Overlaps\_4\_7 = 0 Overlaps\_5\_0 = 0 Overlaps\_5\_1 = 0 Overlaps\_5\_2 = 0 Overlaps\_5\_3 = 0 Overlaps\_5\_4 = 0 Overlaps\_5\_5 = 0 Overlaps\_5\_6 = 0 Overlaps\_5\_7 = 0 Overlaps\_6\_0 = 0 Overlaps\_6\_1 = 0 Overlaps\_6\_2 = 0 Overlaps\_6\_3 = 0 Overlaps\_6\_4 = 0 Overlaps\_6\_5 = 0 Overlaps\_6\_6 = 0 Overlaps\_6\_7 = 0 Overlaps\_7\_0 = 0 Overlaps\_7\_1 = 0 Overlaps\_7\_2 = 0 Overlaps\_7\_3 = 0 Overlaps\_7\_4 = 0 Overlaps\_7\_5 = 0 Overlaps\_7\_6 = 0 Overlaps\_7\_7 = 0 TMP\_0 = 1 not(TMP\_0) = 0 TMP\_1 = 1 not(TMP\_1) = 0 TMP\_2 = 0 not(TMP\_2) = 1 TMP\_3 = 1 not(TMP\_3) = 0 TMP\_4 = 3 TMP\_5 = 0 not(TMP\_5) = 1 TMP\_6 = 0 not(TMP\_6) = 1 TMP\_7 = 0 TMP\_8 = 1 not(TMP\_8) = 0 TMP\_9 = 1 not(TMP\_9) = 0 TMP\_10 = 2 TMP\_11 = 0 not(TMP\_11) = 1 TMP\_12 = 0 not(TMP\_12) = 1 TMP\_13 = 1 not(TMP\_13) = 0 TMP\_14 = 1 not(TMP\_14) = 0 TMP\_15 = 1 not(TMP\_15) = 0 TMP\_16 = 2 TMP\_17 = 1 not(TMP\_17) = 0 TMP\_18 = 1 not(TMP\_18) = 0 TMP\_19 = 1 not(TMP\_19) = 0 TMP\_20 = 0 not(TMP\_20) = 1 TMP\_21 = 3 TMP\_22 = 0 not(TMP\_22) = 1 TMP\_23 = 0 not(TMP\_23) = 1 TMP\_24 = 0 TMP\_25 = 1 not(TMP\_25) = 0 TMP\_26 = 1 not(TMP\_26) = 0 TMP\_27 = 2 TMP\_28 = 0 not(TMP\_28) = 1 TMP\_29 = 0 not(TMP\_29) = 1 TMP\_30 = 1 not(TMP\_30) = 0 TMP\_31 = 1 not(TMP\_31) = 0 TMP\_32 = 1 not(TMP\_32) = 0 TMP\_33 = 2 TMP\_34 = 1 not(TMP\_34) = 0 TMP\_35 = 1 not(TMP\_35) = 0 TMP\_36 = 0 not(TMP\_36) = 1 TMP\_37 = 1 not(TMP\_37) = 0 TMP\_38 = 3 TMP\_39 = 0 not(TMP\_39) = 1 TMP\_40 = 0 not(TMP\_40) = 1 TMP\_41 = 0 TMP\_42 = 1 not(TMP\_42) = 0 TMP\_43 = 1 not(TMP\_43) = 0 TMP\_44 = 2 TMP\_45 = 0 not(TMP\_45) = 1 TMP\_46 = 0 not(TMP\_46) = 1 TMP\_47 = 1 not(TMP\_47) = 0 TMP\_48 = 1 not(TMP\_48) = 0 TMP\_49 = 1 not(TMP\_49) = 0 TMP\_50 = 2 TMP\_51 = 0 not(TMP\_51) = 1 TMP\_52 = 1 not(TMP\_52) = 0 TMP\_53 = 1 not(TMP\_53) = 0 TMP\_54 = 0 not(TMP\_54) = 1 TMP\_55 = 2 TMP\_56 = 0 not(TMP\_56) = 1 TMP\_57 = 0 not(TMP\_57) = 1 TMP\_58 = 0 TMP\_59 = 1 not(TMP\_59) = 0 TMP\_60 = 1 not(TMP\_60) = 0 TMP\_61 = 2 TMP\_62 = 0 not(TMP\_62) = 1 TMP\_63 = 0 not(TMP\_63) = 1 TMP\_64 = 1 not(TMP\_64) = 0 TMP\_65 = 1 not(TMP\_65) = 0 TMP\_66 = 1 not(TMP\_66) = 0 TMP\_67 = 2 TMP\_68 = 1 not(TMP\_68) = 0 TMP\_69 = 1 not(TMP\_69) = 0 TMP\_70 = 0 not(TMP\_70) = 1 TMP\_71 = 1 not(TMP\_71) = 0 TMP\_72 = 3 TMP\_73 = 0 not(TMP\_73) = 1 TMP\_74 = 0 not(TMP\_74) = 1 TMP\_75 = 0 TMP\_76 = 1 not(TMP\_76) = 0 TMP\_77 = 1 not(TMP\_77) = 0 TMP\_78 = 2 TMP\_79 = 0 not(TMP\_79) = 1 TMP\_80 = 0 not(TMP\_80) = 1 TMP\_81 = 1 not(TMP\_81) = 0 TMP\_82 = 1 not(TMP\_82) = 0 TMP\_83 = 1 not(TMP\_83) = 0 TMP\_84 = 2 TMP\_85 = 1 not(TMP\_85) = 0 TMP\_86 = 1 not(TMP\_86) = 0 TMP\_87 = 1 not(TMP\_87) = 0 TMP\_88 = 0 not(TMP\_88) = 1 TMP\_89 = 3 TMP\_90 = 0 not(TMP\_90) = 1 TMP\_91 = 0 not(TMP\_91) = 1 TMP\_92 = 0 TMP\_93 = 1 not(TMP\_93) = 0 TMP\_94 = 1 not(TMP\_94) = 0 TMP\_95 = 2 TMP\_96 = 0 not(TMP\_96) = 1 TMP\_97 = 0 not(TMP\_97) = 1 TMP\_98 = 1 not(TMP\_98) = 0 TMP\_99 = 1 not(TMP\_99) = 0 TMP\_100 = 1 not(TMP\_100) = 0 TMP\_101 = 2 TMP\_102 = 0 not(TMP\_102) = 1 TMP\_103 = 1 not(TMP\_103) = 0 TMP\_104 = 1 not(TMP\_104) = 0 TMP\_105 = 1 not(TMP\_105) = 0 TMP\_106 = 3 TMP\_107 = 0 not(TMP\_107) = 1 TMP\_108 = 0 not(TMP\_108) = 1 TMP\_109 = 0 TMP\_110 = 1 not(TMP\_110) = 0 TMP\_111 = 1 not(TMP\_111) = 0 TMP\_112 = 2 TMP\_113 = 0 not(TMP\_113) = 1 TMP\_114 = 0 not(TMP\_114) = 1 TMP\_115 = 1 not(TMP\_115) = 0 TMP\_116 = 1 not(TMP\_116) = 0 TMP\_117 = 1 not(TMP\_117) = 0 TMP\_118 = 2 TMP\_119 = 1 not(TMP\_119) = 0 TMP\_120 = 1 not(TMP\_120) = 0 TMP\_121 = 0 not(TMP\_121) = 1 TMP\_122 = 1 not(TMP\_122) = 0 TMP\_123 = 3 TMP\_124 = 0 not(TMP\_124) = 1 TMP\_125 = 0 not(TMP\_125) = 1 TMP\_126 = 0 TMP\_127 = 1 not(TMP\_127) = 0 TMP\_128 = 1 not(TMP\_128) = 0 TMP\_129 = 2 TMP\_130 = 0 not(TMP\_130) = 1 TMP\_131 = 0 not(TMP\_131) = 1 TMP\_132 = 1 not(TMP\_132) = 0 TMP\_133 = 1 not(TMP\_133) = 0 TMP\_134 = 1 not(TMP\_134) = 0 TMP\_135 = 2 TMP\_136 = 1 not(TMP\_136) = 0 TMP\_137 = 0 not(TMP\_137) = 1 TMP\_138 = 1 not(TMP\_138) = 0 TMP\_139 = 1 not(TMP\_139) = 0 TMP\_140 = 3 TMP\_141 = 0 not(TMP\_141) = 1 TMP\_142 = 0 not(TMP\_142) = 1 TMP\_143 = 0 TMP\_144 = 1 not(TMP\_144) = 0 TMP\_145 = 1 not(TMP\_145) = 0 TMP\_146 = 2 TMP\_147 = 0 not(TMP\_147) = 1 TMP\_148 = 0 not(TMP\_148) = 1 TMP\_149 = 1 not(TMP\_149) = 0 TMP\_150 = 1 not(TMP\_150) = 0 TMP\_151 = 1 not(TMP\_151) = 0 TMP\_152 = 2 TMP\_153 = 1 not(TMP\_153) = 0 TMP\_154 = 0 not(TMP\_154) = 1 TMP\_155 = 0 not(TMP\_155) = 1 TMP\_156 = 1 not(TMP\_156) = 0 TMP\_157 = 2 TMP\_158 = 0 not(TMP\_158) = 1 TMP\_159 = 0 not(TMP\_159) = 1 TMP\_160 = 0 TMP\_161 = 1 not(TMP\_161) = 0 TMP\_162 = 1 not(TMP\_162) = 0 TMP\_163 = 2 TMP\_164 = 0 not(TMP\_164) = 1 TMP\_165 = 0 not(TMP\_165) = 1 TMP\_166 = 1 not(TMP\_166) = 0 TMP\_167 = 1 not(TMP\_167) = 0 TMP\_168 = 1 not(TMP\_168) = 0 TMP\_169 = 2 TMP\_170 = 1 not(TMP\_170) = 0 TMP\_171 = 0 not(TMP\_171) = 1 TMP\_172 = 0 not(TMP\_172) = 1 TMP\_173 = 1 not(TMP\_173) = 0 TMP\_174 = 2 TMP\_175 = 0 not(TMP\_175) = 1 TMP\_176 = 0 not(TMP\_176) = 1 TMP\_177 = 0 TMP\_178 = 1 not(TMP\_178) = 0 TMP\_179 = 1 not(TMP\_179) = 0 TMP\_180 = 2 TMP\_181 = 0 not(TMP\_181) = 1 TMP\_182 = 0 not(TMP\_182) = 1 TMP\_183 = 1 not(TMP\_183) = 0 TMP\_184 = 1 not(TMP\_184) = 0 TMP\_185 = 1 not(TMP\_185) = 0 TMP\_186 = 2 TMP\_187 = 1 not(TMP\_187) = 0 TMP\_188 = 0 not(TMP\_188) = 1 TMP\_189 = 0 not(TMP\_189) = 1 TMP\_190 = 1 not(TMP\_190) = 0 TMP\_191 = 2 TMP\_192 = 0 not(TMP\_192) = 1 TMP\_193 = 0 not(TMP\_193) = 1 TMP\_194 = 0 TMP\_195 = 1 not(TMP\_195) = 0 TMP\_196 = 1 not(TMP\_196) = 0 TMP\_197 = 2 TMP\_198 = 0 not(TMP\_198) = 1 TMP\_199 = 0 not(TMP\_199) = 1 TMP\_200 = 1 not(TMP\_200) = 0 TMP\_201 = 1 not(TMP\_201) = 0 TMP\_202 = 1 not(TMP\_202) = 0 TMP\_203 = 2 TMP\_204 = 1 not(TMP\_204) = 0 TMP\_205 = 0 not(TMP\_205) = 1 TMP\_206 = 1 not(TMP\_206) = 0 TMP\_207 = 1 not(TMP\_207) = 0 TMP\_208 = 3 TMP\_209 = 0 not(TMP\_209) = 1 TMP\_210 = 0 not(TMP\_210) = 1 TMP\_211 = 0 TMP\_212 = 1 not(TMP\_212) = 0 TMP\_213 = 1 not(TMP\_213) = 0 TMP\_214 = 2 TMP\_215 = 0 not(TMP\_215) = 1 TMP\_216 = 0 not(TMP\_216) = 1 TMP\_217 = 1 not(TMP\_217) = 0 TMP\_218 = 1 not(TMP\_218) = 0 TMP\_219 = 1 not(TMP\_219) = 0 TMP\_220 = 2 TMP\_221 = 1 not(TMP\_221) = 0 TMP\_222 = 1 not(TMP\_222) = 0 TMP\_223 = 0 not(TMP\_223) = 1 TMP\_224 = 1 not(TMP\_224) = 0 TMP\_225 = 3 TMP\_226 = 0 not(TMP\_226) = 1 TMP\_227 = 0 not(TMP\_227) = 1 TMP\_228 = 0 TMP\_229 = 1 not(TMP\_229) = 0 TMP\_230 = 1 not(TMP\_230) = 0 TMP\_231 = 2 TMP\_232 = 0 not(TMP\_232) = 1 TMP\_233 = 0 not(TMP\_233) = 1 TMP\_234 = 1 not(TMP\_234) = 0 TMP\_235 = 1 not(TMP\_235) = 0 TMP\_236 = 1 not(TMP\_236) = 0 TMP\_237 = 2 TMP\_238 = 0 not(TMP\_238) = 1 TMP\_239 = 1 not(TMP\_239) = 0 TMP\_240 = 1 not(TMP\_240) = 0 TMP\_241 = 1 not(TMP\_241) = 0 TMP\_242 = 3 TMP\_243 = 0 not(TMP\_243) = 1 TMP\_244 = 0 not(TMP\_244) = 1 TMP\_245 = 0 TMP\_246 = 1 not(TMP\_246) = 0 TMP\_247 = 1 not(TMP\_247) = 0 TMP\_248 = 2 TMP\_249 = 0 not(TMP\_249) = 1 TMP\_250 = 0 not(TMP\_250) = 1 TMP\_251 = 1 not(TMP\_251) = 0 TMP\_252 = 1 not(TMP\_252) = 0 TMP\_253 = 1 not(TMP\_253) = 0 TMP\_254 = 2 TMP\_255 = 0 not(TMP\_255) = 1 TMP\_256 = 1 not(TMP\_256) = 0 TMP\_257 = 1 not(TMP\_257) = 0 TMP\_258 = 0 not(TMP\_258) = 1 TMP\_259 = 2 TMP\_260 = 0 not(TMP\_260) = 1 TMP\_261 = 0 not(TMP\_261) = 1 TMP\_262 = 0 TMP\_263 = 1 not(TMP\_263) = 0 TMP\_264 = 1 not(TMP\_264) = 0 TMP\_265 = 2 TMP\_266 = 0 not(TMP\_266) = 1 TMP\_267 = 0 not(TMP\_267) = 1 TMP\_268 = 1 not(TMP\_268) = 0 TMP\_269 = 1 not(TMP\_269) = 0 TMP\_270 = 1 not(TMP\_270) = 0 TMP\_271 = 2 TMP\_272 = 0 not(TMP\_272) = 1 TMP\_273 = 1 not(TMP\_273) = 0 TMP\_274 = 1 not(TMP\_274) = 0 TMP\_275 = 1 not(TMP\_275) = 0 TMP\_276 = 3 TMP\_277 = 0 not(TMP\_277) = 1 TMP\_278 = 0 not(TMP\_278) = 1 TMP\_279 = 0 TMP\_280 = 1 not(TMP\_280) = 0 TMP\_281 = 1 not(TMP\_281) = 0 TMP\_282 = 2 TMP\_283 = 0 not(TMP\_283) = 1 TMP\_284 = 0 not(TMP\_284) = 1 TMP\_285 = 1 not(TMP\_285) = 0 TMP\_286 = 1 not(TMP\_286) = 0 TMP\_287 = 1 not(TMP\_287) = 0 TMP\_288 = 2 TMP\_289 = 1 not(TMP\_289) = 0 TMP\_290 = 1 not(TMP\_290) = 0 TMP\_291 = 1 not(TMP\_291) = 0 TMP\_292 = 0 not(TMP\_292) = 1 TMP\_293 = 3 TMP\_294 = 0 not(TMP\_294) = 1 TMP\_295 = 0 not(TMP\_295) = 1 TMP\_296 = 0 TMP\_297 = 1 not(TMP\_297) = 0 TMP\_298 = 1 not(TMP\_298) = 0 TMP\_299 = 2 TMP\_300 = 0 not(TMP\_300) = 1 TMP\_301 = 0 not(TMP\_301) = 1 TMP\_302 = 1 not(TMP\_302) = 0 TMP\_303 = 1 not(TMP\_303) = 0 TMP\_304 = 1 not(TMP\_304) = 0 TMP\_305 = 2 TMP\_306 = 0 not(TMP\_306) = 1 TMP\_307 = 1 not(TMP\_307) = 0 TMP\_308 = 1 not(TMP\_308) = 0 TMP\_309 = 0 not(TMP\_309) = 1 TMP\_310 = 2 TMP\_311 = 0 not(TMP\_311) = 1 TMP\_312 = 0 not(TMP\_312) = 1 TMP\_313 = 0 TMP\_314 = 1 not(TMP\_314) = 0 TMP\_315 = 1 not(TMP\_315) = 0 TMP\_316 = 2 TMP\_317 = 0 not(TMP\_317) = 1 TMP\_318 = 0 not(TMP\_318) = 1 TMP\_319 = 1 not(TMP\_319) = 0 TMP\_320 = 1 not(TMP\_320) = 0 TMP\_321 = 1 not(TMP\_321) = 0 TMP\_322 = 2 TMP\_323 = 1 not(TMP\_323) = 0 TMP\_324 = 1 not(TMP\_324) = 0 TMP\_325 = 1 not(TMP\_325) = 0 TMP\_326 = 0 not(TMP\_326) = 1 TMP\_327 = 3 TMP\_328 = 0 not(TMP\_328) = 1 TMP\_329 = 0 not(TMP\_329) = 1 TMP\_330 = 0 TMP\_331 = 1 not(TMP\_331) = 0 TMP\_332 = 1 not(TMP\_332) = 0 TMP\_333 = 2 TMP\_334 = 0 not(TMP\_334) = 1 TMP\_335 = 0 not(TMP\_335) = 1 TMP\_336 = 1 not(TMP\_336) = 0 TMP\_337 = 1 not(TMP\_337) = 0 TMP\_338 = 1 not(TMP\_338) = 0 TMP\_339 = 2 TMP\_340 = 0 not(TMP\_340) = 1 TMP\_341 = 1 not(TMP\_341) = 0 TMP\_342 = 1 not(TMP\_342) = 0 TMP\_343 = 1 not(TMP\_343) = 0 TMP\_344 = 3 TMP\_345 = 0 not(TMP\_345) = 1 TMP\_346 = 0 not(TMP\_346) = 1 TMP\_347 = 0 TMP\_348 = 1 not(TMP\_348) = 0 TMP\_349 = 1 not(TMP\_349) = 0 TMP\_350 = 2 TMP\_351 = 0 not(TMP\_351) = 1 TMP\_352 = 0 not(TMP\_352) = 1 TMP\_353 = 1 not(TMP\_353) = 0 TMP\_354 = 1 not(TMP\_354) = 0 TMP\_355 = 1 not(TMP\_355) = 0 TMP\_356 = 2 TMP\_357 = 1 not(TMP\_357) = 0 TMP\_358 = 1 not(TMP\_358) = 0 TMP\_359 = 0 not(TMP\_359) = 1 TMP\_360 = 1 not(TMP\_360) = 0 TMP\_361 = 3 TMP\_362 = 0 not(TMP\_362) = 1 TMP\_363 = 0 not(TMP\_363) = 1 TMP\_364 = 0 TMP\_365 = 1 not(TMP\_365) = 0 TMP\_366 = 1 not(TMP\_366) = 0 TMP\_367 = 2 TMP\_368 = 0 not(TMP\_368) = 1 TMP\_369 = 0 not(TMP\_369) = 1 TMP\_370 = 1 not(TMP\_370) = 0 TMP\_371 = 1 not(TMP\_371) = 0 TMP\_372 = 1 not(TMP\_372) = 0 TMP\_373 = 2 TMP\_374 = 0 not(TMP\_374) = 1 TMP\_375 = 1 not(TMP\_375) = 0 TMP\_376 = 1 not(TMP\_376) = 0 TMP\_377 = 1 not(TMP\_377) = 0 TMP\_378 = 3 TMP\_379 = 0 not(TMP\_379) = 1 TMP\_380 = 0 not(TMP\_380) = 1 TMP\_381 = 0 TMP\_382 = 1 not(TMP\_382) = 0 TMP\_383 = 1 not(TMP\_383) = 0 TMP\_384 = 2 TMP\_385 = 0 not(TMP\_385) = 1 TMP\_386 = 0 not(TMP\_386) = 1 TMP\_387 = 1 not(TMP\_387) = 0 TMP\_388 = 1 not(TMP\_388) = 0 TMP\_389 = 1 not(TMP\_389) = 0 TMP\_390 = 2 TMP\_391 = 1 not(TMP\_391) = 0 TMP\_392 = 1 not(TMP\_392) = 0 TMP\_393 = 0 not(TMP\_393) = 1 TMP\_394 = 1 not(TMP\_394) = 0 TMP\_395 = 3 TMP\_396 = 0 not(TMP\_396) = 1 TMP\_397 = 0 not(TMP\_397) = 1 TMP\_398 = 0 TMP\_399 = 1 not(TMP\_399) = 0 TMP\_400 = 1 not(TMP\_400) = 0 TMP\_401 = 2 TMP\_402 = 0 not(TMP\_402) = 1 TMP\_403 = 0 not(TMP\_403) = 1 TMP\_404 = 1 not(TMP\_404) = 0 TMP\_405 = 1 not(TMP\_405) = 0 TMP\_406 = 1 not(TMP\_406) = 0 TMP\_407 = 2 TMP\_408 = 1 not(TMP\_408) = 0 TMP\_409 = 1 not(TMP\_409) = 0 TMP\_410 = 0 not(TMP\_410) = 1 TMP\_411 = 1 not(TMP\_411) = 0 TMP\_412 = 3 TMP\_413 = 0 not(TMP\_413) = 1 TMP\_414 = 0 not(TMP\_414) = 1 TMP\_415 = 0 TMP\_416 = 1 not(TMP\_416) = 0 TMP\_417 = 1 not(TMP\_417) = 0 TMP\_418 = 2 TMP\_419 = 0 not(TMP\_419) = 1 TMP\_420 = 0 not(TMP\_420) = 1 TMP\_421 = 1 not(TMP\_421) = 0 TMP\_422 = 1 not(TMP\_422) = 0 TMP\_423 = 1 not(TMP\_423) = 0 TMP\_424 = 2 TMP\_425 = 0 not(TMP\_425) = 1 TMP\_426 = 1 not(TMP\_426) = 0 TMP\_427 = 1 not(TMP\_427) = 0 TMP\_428 = 1 not(TMP\_428) = 0 TMP\_429 = 3 TMP\_430 = 0 not(TMP\_430) = 1 TMP\_431 = 0 not(TMP\_431) = 1 TMP\_432 = 0 TMP\_433 = 1 not(TMP\_433) = 0 TMP\_434 = 1 not(TMP\_434) = 0 TMP\_435 = 2 TMP\_436 = 0 not(TMP\_436) = 1 TMP\_437 = 0 not(TMP\_437) = 1 TMP\_438 = 1 not(TMP\_438) = 0 TMP\_439 = 1 not(TMP\_439) = 0 TMP\_440 = 1 not(TMP\_440) = 0 TMP\_441 = 2 TMP\_442 = 1 not(TMP\_442) = 0 TMP\_443 = 1 not(TMP\_443) = 0 TMP\_444 = 0 not(TMP\_444) = 1 TMP\_445 = 1 not(TMP\_445) = 0 TMP\_446 = 3 TMP\_447 = 0 not(TMP\_447) = 1 TMP\_448 = 0 not(TMP\_448) = 1 TMP\_449 = 0 TMP\_450 = 1 not(TMP\_450) = 0 TMP\_451 = 1 not(TMP\_451) = 0 TMP\_452 = 2 TMP\_453 = 0 not(TMP\_453) = 1 TMP\_454 = 0 not(TMP\_454) = 1 TMP\_455 = 1 not(TMP\_455) = 0 TMP\_456 = 1 not(TMP\_456) = 0 TMP\_457 = 1 not(TMP\_457) = 0 TMP\_458 = 2 TMP\_459 = 0 not(TMP\_459) = 1 TMP\_460 = 1 not(TMP\_460) = 0 TMP\_461 = 0 not(TMP\_461) = 1 TMP\_462 = 1 not(TMP\_462) = 0 TMP\_463 = 2 TMP\_464 = 0 not(TMP\_464) = 1 TMP\_465 = 0 not(TMP\_465) = 1 TMP\_466 = 0 TMP\_467 = 1 not(TMP\_467) = 0 TMP\_468 = 1 not(TMP\_468) = 0 TMP\_469 = 2 TMP\_470 = 0 not(TMP\_470) = 1 TMP\_471 = 0 not(TMP\_471) = 1 TMP\_472 = 1 not(TMP\_472) = 0 TMP\_473 = 1 not(TMP\_473) = 0 TMP\_474 = 1 not(TMP\_474) = 0 TMP\_475 = 2 TMP\_476 = 1 not(TMP\_476) = 0 TMP\_477 = 1 not(TMP\_477) = 0 TMP\_478 = 0 not(TMP\_478) = 1 TMP\_479 = 1 not(TMP\_479) = 0 TMP\_480 = 3 TMP\_481 = 0 not(TMP\_481) = 1 TMP\_482 = 0 not(TMP\_482) = 1 TMP\_483 = 0 TMP\_484 = 1 not(TMP\_484) = 0 TMP\_485 = 1 not(TMP\_485) = 0 TMP\_486 = 2 TMP\_487 = 0 not(TMP\_487) = 1 TMP\_488 = 0 not(TMP\_488) = 1 TMP\_489 = 1 not(TMP\_489) = 0 TMP\_490 = 1 not(TMP\_490) = 0 TMP\_491 = 1 not(TMP\_491) = 0 TMP\_492 = 2 TMP\_493 = 1 not(TMP\_493) = 0 TMP\_494 = 1 not(TMP\_494) = 0 TMP\_495 = 1 not(TMP\_495) = 0 TMP\_496 = 0 not(TMP\_496) = 1 TMP\_497 = 3 TMP\_498 = 0 not(TMP\_498) = 1 TMP\_499 = 0 not(TMP\_499) = 1 TMP\_500 = 0 TMP\_501 = 1 not(TMP\_501) = 0 TMP\_502 = 1 not(TMP\_502) = 0 TMP\_503 = 2 TMP\_504 = 0 not(TMP\_504) = 1 TMP\_505 = 0 not(TMP\_505) = 1 TMP\_506 = 1 not(TMP\_506) = 0 TMP\_507 = 1 not(TMP\_507) = 0 TMP\_508 = 1 not(TMP\_508) = 0 TMP\_509 = 2 TMP\_510 = 1 not(TMP\_510) = 0 TMP\_511 = 0 not(TMP\_511) = 1 TMP\_512 = 1 not(TMP\_512) = 0 TMP\_513 = 1 not(TMP\_513) = 0 TMP\_514 = 3 TMP\_515 = 0 not(TMP\_515) = 1 TMP\_516 = 0 not(TMP\_516) = 1 TMP\_517 = 0 TMP\_518 = 1 not(TMP\_518) = 0 TMP\_519 = 1 not(TMP\_519) = 0 TMP\_520 = 2 TMP\_521 = 0 not(TMP\_521) = 1 TMP\_522 = 0 not(TMP\_522) = 1 TMP\_523 = 1 not(TMP\_523) = 0 TMP\_524 = 1 not(TMP\_524) = 0 TMP\_525 = 1 not(TMP\_525) = 0 TMP\_526 = 2 TMP\_527 = 1 not(TMP\_527) = 0 TMP\_528 = 0 not(TMP\_528) = 1 TMP\_529 = 1 not(TMP\_529) = 0 TMP\_530 = 1 not(TMP\_530) = 0 TMP\_531 = 3 TMP\_532 = 0 not(TMP\_532) = 1 TMP\_533 = 0 not(TMP\_533) = 1 TMP\_534 = 0 TMP\_535 = 1 not(TMP\_535) = 0 TMP\_536 = 1 not(TMP\_536) = 0 TMP\_537 = 2 TMP\_538 = 0 not(TMP\_538) = 1 TMP\_539 = 0 not(TMP\_539) = 1 TMP\_540 = 1 not(TMP\_540) = 0 TMP\_541 = 1 not(TMP\_541) = 0 TMP\_542 = 1 not(TMP\_542) = 0 TMP\_543 = 2 TMP\_544 = 1 not(TMP\_544) = 0 TMP\_545 = 1 not(TMP\_545) = 0 TMP\_546 = 1 not(TMP\_546) = 0 TMP\_547 = 0 not(TMP\_547) = 1 TMP\_548 = 3 TMP\_549 = 0 not(TMP\_549) = 1 TMP\_550 = 0 not(TMP\_550) = 1 TMP\_551 = 0 TMP\_552 = 1 not(TMP\_552) = 0 TMP\_553 = 1 not(TMP\_553) = 0 TMP\_554 = 2 TMP\_555 = 0 not(TMP\_555) = 1 TMP\_556 = 0 not(TMP\_556) = 1 TMP\_557 = 1 not(TMP\_557) = 0 TMP\_558 = 1 not(TMP\_558) = 0 TMP\_559 = 1 not(TMP\_559) = 0 TMP\_560 = 2 TMP\_561 = 1 not(TMP\_561) = 0 TMP\_562 = 0 not(TMP\_562) = 1 TMP\_563 = 1 not(TMP\_563) = 0 TMP\_564 = 1 not(TMP\_564) = 0 TMP\_565 = 3 TMP\_566 = 0 not(TMP\_566) = 1 TMP\_567 = 0 not(TMP\_567) = 1 TMP\_568 = 0 TMP\_569 = 1 not(TMP\_569) = 0 TMP\_570 = 1 not(TMP\_570) = 0 TMP\_571 = 2 TMP\_572 = 0 not(TMP\_572) = 1 TMP\_573 = 0 not(TMP\_573) = 1 TMP\_574 = 1 not(TMP\_574) = 0 TMP\_575 = 1 not(TMP\_575) = 0 TMP\_576 = 1 not(TMP\_576) = 0 TMP\_577 = 2 TMP\_578 = 1 not(TMP\_578) = 0 TMP\_579 = 0 not(TMP\_579) = 1 TMP\_580 = 1 not(TMP\_580) = 0 TMP\_581 = 0 not(TMP\_581) = 1 TMP\_582 = 2 TMP\_583 = 0 not(TMP\_583) = 1 TMP\_584 = 0 not(TMP\_584) = 1 TMP\_585 = 0 TMP\_586 = 1 not(TMP\_586) = 0 TMP\_587 = 1 not(TMP\_587) = 0 TMP\_588 = 2 TMP\_589 = 0 not(TMP\_589) = 1 TMP\_590 = 0 not(TMP\_590) = 1 TMP\_591 = 1 not(TMP\_591) = 0 TMP\_592 = 1 not(TMP\_592) = 0 TMP\_593 = 1 not(TMP\_593) = 0 TMP\_594 = 2 Area\_0 = 10000 Distance\_0\_Rule\_0 = 100 Distance\_1\_Rule\_0 = 100 Area\_1 = 5000 Distance\_0\_Rule\_1 = 50 Distance\_1\_Rule\_1 = 100 Area\_2 = 25000 Distance\_0\_Rule\_2 = 100 Distance\_1\_Rule\_2 = 250 Area\_3 = 20000 -(Rule\_3\_LB) = -50 Distance\_0\_Rule\_3 = 200 -(Rule\_3\_LB) = -300 Distance\_1\_Rule\_3 = 100 Area\_4 = 2500 -(Rule\_4\_LB) = 0 Distance\_0\_Rule\_4 = 25 -(Rule\_4\_LB) = -400 Distance\_1\_Rule\_4 = 100 Area\_5 = 30000 -(Rule\_5\_LB) = -150 Distance\_0\_Rule\_5 = 100 -(Rule\_5\_LB) = 0 Distance\_1\_Rule\_5 = 300 Area\_6 = 17500 -(Rule\_6\_LB) = -75 Distance\_0\_Rule\_6 = 175 -(Rule\_6\_LB) = -400 Distance\_1\_Rule\_6 = 100 Area\_7 = 15000 -(Rule\_7\_LB) = 0 Distance\_0\_Rule\_7 = 50 -(Rule\_7\_LB) = -100 Distance\_1\_Rule\_7 = 300 TMP\_595 = 125000 .

- Solution #3 found. 3 Solutions, Resolution 0.902s, 4679 Nodes (5,187.0 n/s), 9183 Backtracks, 4647 Fails, 0 Restarts

Rule\_3\_LB = 50 Rule\_3\_UB = 250 Rule\_3\_LB = 300 Rule\_3\_UB = 400 Rule\_4\_LB = 0 Rule\_4\_UB = 25 Rule\_4\_LB = 400 Rule\_4\_UB = 500 Rule\_5\_LB = 150 Rule\_5\_UB = 250 Rule\_5\_LB = 0 Rule\_5\_UB = 300 Rule\_6\_LB = 75 Rule\_6\_UB = 250 Rule\_6\_LB = 400 Rule\_6\_UB = 500 Rule\_7\_LB = 0 Rule\_7\_UB = 50 Rule\_7\_LB = 100 Rule\_7\_UB = 400 Overlaps\_0\_0 = 0 Overlaps\_0\_1 = 0 Overlaps\_0\_2 = 0 Overlaps\_0\_3 = 0 Overlaps\_0\_4 = 0 Overlaps\_0\_5 = 0 Overlaps\_0\_6 = 0 Overlaps\_0\_7 = 0 Overlaps\_1\_0 = 0 Overlaps\_1\_1 = 0 Overlaps\_1\_2 = 1 Overlaps\_1\_3 = 0 Overlaps\_1\_4 = 0 Overlaps\_1\_5 = 0 Overlaps\_1\_6 = 0 Overlaps\_1\_7 = 0 Overlaps\_2\_0 = 0 Overlaps\_2\_1 = 0 Overlaps\_2\_2 = 0 Overlaps\_2\_3 = 0 Overlaps\_2\_4 = 0 Overlaps\_2\_5 = 0 Overlaps\_2\_6 = 0 Overlaps\_2\_7 = 0 Overlaps\_3\_0 = 0 Overlaps\_3\_1 = 0 Overlaps\_3\_2 = 0 Overlaps\_3\_3 = 0 Overlaps\_3\_4 = 0 Overlaps\_3\_5 = 0 Overlaps\_3\_6 = 0 Overlaps\_3\_7 = 0 Overlaps\_4\_0 = 0 Overlaps\_4\_1 = 0 Overlaps\_4\_2 = 0 Overlaps\_4\_3 = 0 Overlaps\_4\_4 = 0 Overlaps\_4\_5 = 0 Overlaps\_4\_6 = 0 Overlaps\_4\_7 = 0 Overlaps\_5\_0 = 0 Overlaps\_5\_1 = 0 Overlaps\_5\_2 = 0 Overlaps\_5\_3 = 0 Overlaps\_5\_4 = 0 Overlaps\_5\_5 = 0 Overlaps\_5\_6 = 0 Overlaps\_5\_7 = 0 Overlaps\_6\_0 = 0 Overlaps\_6\_1 = 0 Overlaps\_6\_2 = 0 Overlaps\_6\_3 = 0 Overlaps\_6\_4 = 0 Overlaps\_6\_5 = 0 Overlaps\_6\_6 = 0 Overlaps\_6\_7 = 0 Overlaps\_7\_0 = 0 Overlaps\_7\_1 = 0 Overlaps\_7\_2 = 0 Overlaps\_7\_3 = 0 Overlaps\_7\_4 = 0 Overlaps\_7\_5 = 0 Overlaps\_7\_6 = 0 Overlaps\_7\_7 = 0 TMP\_0 = 1 not(TMP\_0) = 0 TMP\_1 = 1 not(TMP\_1) = 0 TMP\_2 = 0 not(TMP\_2) = 1 TMP\_3 = 1 not(TMP\_3) = 0 TMP\_4 = 3 TMP\_5 = 0 not(TMP\_5) = 1 TMP\_6 = 0 not(TMP\_6) = 1 TMP\_7 = 0 TMP\_8 = 1 not(TMP\_8) = 0 TMP\_9 = 1 not(TMP\_9) = 0 TMP\_10 = 2 TMP\_11 = 0 not(TMP\_11) = 1 TMP\_12 = 0 not(TMP\_12) = 1 TMP\_13 = 1 not(TMP\_13) = 0 TMP\_14 = 1 not(TMP\_14) = 0 TMP\_15 = 1 not(TMP\_15) = 0 TMP\_16 = 2 TMP\_17 = 1 not(TMP\_17) = 0 TMP\_18 = 1 not(TMP\_18) = 0 TMP\_19 = 1 not(TMP\_19) = 0 TMP\_20 = 0 not(TMP\_20) = 1 TMP\_21 = 3 TMP\_22 = 0 not(TMP\_22) = 1 TMP\_23 = 0 not(TMP\_23) = 1 TMP\_24 = 0 TMP\_25 = 1 not(TMP\_25) = 0 TMP\_26 = 1 not(TMP\_26) = 0 TMP\_27 = 2 TMP\_28 = 0 not(TMP\_28) = 1 TMP\_29 = 0 not(TMP\_29) = 1 TMP\_30 = 1 not(TMP\_30) = 0 TMP\_31 = 1 not(TMP\_31) = 0 TMP\_32 = 1 not(TMP\_32) = 0 TMP\_33 = 2 TMP\_34 = 1 not(TMP\_34) = 0 TMP\_35 = 1 not(TMP\_35) = 0 TMP\_36 = 0 not(TMP\_36) = 1 TMP\_37 = 1 not(TMP\_37) = 0 TMP\_38 = 3 TMP\_39 = 0 not(TMP\_39) = 1 TMP\_40 = 0 not(TMP\_40) = 1 TMP\_41 = 0 TMP\_42 = 1 not(TMP\_42) = 0 TMP\_43 = 1 not(TMP\_43) = 0 TMP\_44 = 2 TMP\_45 = 0 not(TMP\_45) = 1 TMP\_46 = 0 not(TMP\_46) = 1 TMP\_47 = 1 not(TMP\_47) = 0 TMP\_48 = 1 not(TMP\_48) = 0 TMP\_49 = 1 not(TMP\_49) = 0 TMP\_50 = 2 TMP\_51 = 0 not(TMP\_51) = 1 TMP\_52 = 1 not(TMP\_52) = 0 TMP\_53 = 1 not(TMP\_53) = 0 TMP\_54 = 0 not(TMP\_54) = 1 TMP\_55 = 2 TMP\_56 = 0 not(TMP\_56) = 1 TMP\_57 = 0 not(TMP\_57) = 1 TMP\_58 = 0 TMP\_59 = 1 not(TMP\_59) = 0 TMP\_60 = 1 not(TMP\_60) = 0 TMP\_61 = 2 TMP\_62 = 0 not(TMP\_62) = 1 TMP\_63 = 0 not(TMP\_63) = 1 TMP\_64 = 1 not(TMP\_64) = 0 TMP\_65 = 1 not(TMP\_65) = 0 TMP\_66 = 1 not(TMP\_66) = 0 TMP\_67 = 2 TMP\_68 = 1 not(TMP\_68) = 0 TMP\_69 = 1 not(TMP\_69) = 0 TMP\_70 = 0 not(TMP\_70) = 1 TMP\_71 = 1 not(TMP\_71) = 0 TMP\_72 = 3 TMP\_73 = 0 not(TMP\_73) = 1 TMP\_74 = 0 not(TMP\_74) = 1 TMP\_75 = 0 TMP\_76 = 1 not(TMP\_76) = 0 TMP\_77 = 1 not(TMP\_77) = 0 TMP\_78 = 2 TMP\_79 = 0 not(TMP\_79) = 1 TMP\_80 = 0 not(TMP\_80) = 1 TMP\_81 = 1 not(TMP\_81) = 0 TMP\_82 = 1 not(TMP\_82) = 0 TMP\_83 = 1 not(TMP\_83) = 0 TMP\_84 = 2 TMP\_85 = 1 not(TMP\_85) = 0 TMP\_86 = 1 not(TMP\_86) = 0 TMP\_87 = 1 not(TMP\_87) = 0 TMP\_88 = 0 not(TMP\_88) = 1 TMP\_89 = 3 TMP\_90 = 0 not(TMP\_90) = 1 TMP\_91 = 0 not(TMP\_91) = 1 TMP\_92 = 0 TMP\_93 = 1 not(TMP\_93) = 0 TMP\_94 = 1 not(TMP\_94) = 0 TMP\_95 = 2 TMP\_96 = 0 not(TMP\_96) = 1 TMP\_97 = 0 not(TMP\_97) = 1 TMP\_98 = 1 not(TMP\_98) = 0 TMP\_99 = 1 not(TMP\_99) = 0 TMP\_100 = 1 not(TMP\_100) = 0 TMP\_101 = 2 TMP\_102 = 0 not(TMP\_102) = 1 TMP\_103 = 1 not(TMP\_103) = 0 TMP\_104 = 1 not(TMP\_104) = 0 TMP\_105 = 1 not(TMP\_105) = 0 TMP\_106 = 3 TMP\_107 = 0 not(TMP\_107) = 1 TMP\_108 = 0 not(TMP\_108) = 1 TMP\_109 = 0 TMP\_110 = 1 not(TMP\_110) = 0 TMP\_111 = 1 not(TMP\_111) = 0 TMP\_112 = 2 TMP\_113 = 0 not(TMP\_113) = 1 TMP\_114 = 0 not(TMP\_114) = 1 TMP\_115 = 1 not(TMP\_115) = 0 TMP\_116 = 1 not(TMP\_116) = 0 TMP\_117 = 1 not(TMP\_117) = 0 TMP\_118 = 2 TMP\_119 = 1 not(TMP\_119) = 0 TMP\_120 = 1 not(TMP\_120) = 0 TMP\_121 = 0 not(TMP\_121) = 1 TMP\_122 = 1 not(TMP\_122) = 0 TMP\_123 = 3 TMP\_124 = 0 not(TMP\_124) = 1 TMP\_125 = 0 not(TMP\_125) = 1 TMP\_126 = 0 TMP\_127 = 1 not(TMP\_127) = 0 TMP\_128 = 1 not(TMP\_128) = 0 TMP\_129 = 2 TMP\_130 = 0 not(TMP\_130) = 1 TMP\_131 = 0 not(TMP\_131) = 1 TMP\_132 = 1 not(TMP\_132) = 0 TMP\_133 = 1 not(TMP\_133) = 0 TMP\_134 = 1 not(TMP\_134) = 0 TMP\_135 = 2 TMP\_136 = 1 not(TMP\_136) = 0 TMP\_137 = 0 not(TMP\_137) = 1 TMP\_138 = 1 not(TMP\_138) = 0 TMP\_139 = 1 not(TMP\_139) = 0 TMP\_140 = 3 TMP\_141 = 0 not(TMP\_141) = 1 TMP\_142 = 0 not(TMP\_142) = 1 TMP\_143 = 0 TMP\_144 = 1 not(TMP\_144) = 0 TMP\_145 = 1 not(TMP\_145) = 0 TMP\_146 = 2 TMP\_147 = 0 not(TMP\_147) = 1 TMP\_148 = 0 not(TMP\_148) = 1 TMP\_149 = 1 not(TMP\_149) = 0 TMP\_150 = 1 not(TMP\_150) = 0 TMP\_151 = 1 not(TMP\_151) = 0 TMP\_152 = 2 TMP\_153 = 1 not(TMP\_153) = 0 TMP\_154 = 0 not(TMP\_154) = 1 TMP\_155 = 0 not(TMP\_155) = 1 TMP\_156 = 1 not(TMP\_156) = 0 TMP\_157 = 2 TMP\_158 = 0 not(TMP\_158) = 1 TMP\_159 = 0 not(TMP\_159) = 1 TMP\_160 = 0 TMP\_161 = 1 not(TMP\_161) = 0 TMP\_162 = 1 not(TMP\_162) = 0 TMP\_163 = 2 TMP\_164 = 0 not(TMP\_164) = 1 TMP\_165 = 0 not(TMP\_165) = 1 TMP\_166 = 1 not(TMP\_166) = 0 TMP\_167 = 1 not(TMP\_167) = 0 TMP\_168 = 1 not(TMP\_168) = 0 TMP\_169 = 2 TMP\_170 = 1 not(TMP\_170) = 0 TMP\_171 = 0 not(TMP\_171) = 1 TMP\_172 = 0 not(TMP\_172) = 1 TMP\_173 = 1 not(TMP\_173) = 0 TMP\_174 = 2 TMP\_175 = 0 not(TMP\_175) = 1 TMP\_176 = 0 not(TMP\_176) = 1 TMP\_177 = 0 TMP\_178 = 1 not(TMP\_178) = 0 TMP\_179 = 1 not(TMP\_179) = 0 TMP\_180 = 2 TMP\_181 = 0 not(TMP\_181) = 1 TMP\_182 = 0 not(TMP\_182) = 1 TMP\_183 = 1 not(TMP\_183) = 0 TMP\_184 = 1 not(TMP\_184) = 0 TMP\_185 = 1 not(TMP\_185) = 0 TMP\_186 = 2 TMP\_187 = 1 not(TMP\_187) = 0 TMP\_188 = 0 not(TMP\_188) = 1 TMP\_189 = 0 not(TMP\_189) = 1 TMP\_190 = 1 not(TMP\_190) = 0 TMP\_191 = 2 TMP\_192 = 0 not(TMP\_192) = 1 TMP\_193 = 0 not(TMP\_193) = 1 TMP\_194 = 0 TMP\_195 = 1 not(TMP\_195) = 0 TMP\_196 = 1 not(TMP\_196) = 0 TMP\_197 = 2 TMP\_198 = 0 not(TMP\_198) = 1 TMP\_199 = 0 not(TMP\_199) = 1 TMP\_200 = 1 not(TMP\_200) = 0 TMP\_201 = 1 not(TMP\_201) = 0 TMP\_202 = 1 not(TMP\_202) = 0 TMP\_203 = 2 TMP\_204 = 1 not(TMP\_204) = 0 TMP\_205 = 0 not(TMP\_205) = 1 TMP\_206 = 1 not(TMP\_206) = 0 TMP\_207 = 1 not(TMP\_207) = 0 TMP\_208 = 3 TMP\_209 = 0 not(TMP\_209) = 1 TMP\_210 = 0 not(TMP\_210) = 1 TMP\_211 = 0 TMP\_212 = 1 not(TMP\_212) = 0 TMP\_213 = 1 not(TMP\_213) = 0 TMP\_214 = 2 TMP\_215 = 0 not(TMP\_215) = 1 TMP\_216 = 0 not(TMP\_216) = 1 TMP\_217 = 1 not(TMP\_217) = 0 TMP\_218 = 1 not(TMP\_218) = 0 TMP\_219 = 1 not(TMP\_219) = 0 TMP\_220 = 2 TMP\_221 = 1 not(TMP\_221) = 0 TMP\_222 = 1 not(TMP\_222) = 0 TMP\_223 = 0 not(TMP\_223) = 1 TMP\_224 = 1 not(TMP\_224) = 0 TMP\_225 = 3 TMP\_226 = 0 not(TMP\_226) = 1 TMP\_227 = 0 not(TMP\_227) = 1 TMP\_228 = 0 TMP\_229 = 1 not(TMP\_229) = 0 TMP\_230 = 1 not(TMP\_230) = 0 TMP\_231 = 2 TMP\_232 = 0 not(TMP\_232) = 1 TMP\_233 = 0 not(TMP\_233) = 1 TMP\_234 = 1 not(TMP\_234) = 0 TMP\_235 = 1 not(TMP\_235) = 0 TMP\_236 = 1 not(TMP\_236) = 0 TMP\_237 = 2 TMP\_238 = 0 not(TMP\_238) = 1 TMP\_239 = 1 not(TMP\_239) = 0 TMP\_240 = 1 not(TMP\_240) = 0 TMP\_241 = 1 not(TMP\_241) = 0 TMP\_242 = 3 TMP\_243 = 0 not(TMP\_243) = 1 TMP\_244 = 0 not(TMP\_244) = 1 TMP\_245 = 0 TMP\_246 = 1 not(TMP\_246) = 0 TMP\_247 = 1 not(TMP\_247) = 0 TMP\_248 = 2 TMP\_249 = 0 not(TMP\_249) = 1 TMP\_250 = 0 not(TMP\_250) = 1 TMP\_251 = 1 not(TMP\_251) = 0 TMP\_252 = 1 not(TMP\_252) = 0 TMP\_253 = 1 not(TMP\_253) = 0 TMP\_254 = 2 TMP\_255 = 0 not(TMP\_255) = 1 TMP\_256 = 1 not(TMP\_256) = 0 TMP\_257 = 1 not(TMP\_257) = 0 TMP\_258 = 0 not(TMP\_258) = 1 TMP\_259 = 2 TMP\_260 = 0 not(TMP\_260) = 1 TMP\_261 = 0 not(TMP\_261) = 1 TMP\_262 = 0 TMP\_263 = 1 not(TMP\_263) = 0 TMP\_264 = 1 not(TMP\_264) = 0 TMP\_265 = 2 TMP\_266 = 0 not(TMP\_266) = 1 TMP\_267 = 0 not(TMP\_267) = 1 TMP\_268 = 1 not(TMP\_268) = 0 TMP\_269 = 1 not(TMP\_269) = 0 TMP\_270 = 1 not(TMP\_270) = 0 TMP\_271 = 2 TMP\_272 = 0 not(TMP\_272) = 1 TMP\_273 = 1 not(TMP\_273) = 0 TMP\_274 = 1 not(TMP\_274) = 0 TMP\_275 = 1 not(TMP\_275) = 0 TMP\_276 = 3 TMP\_277 = 0 not(TMP\_277) = 1 TMP\_278 = 0 not(TMP\_278) = 1 TMP\_279 = 0 TMP\_280 = 1 not(TMP\_280) = 0 TMP\_281 = 1 not(TMP\_281) = 0 TMP\_282 = 2 TMP\_283 = 0 not(TMP\_283) = 1 TMP\_284 = 0 not(TMP\_284) = 1 TMP\_285 = 1 not(TMP\_285) = 0 TMP\_286 = 1 not(TMP\_286) = 0 TMP\_287 = 1 not(TMP\_287) = 0 TMP\_288 = 2 TMP\_289 = 1 not(TMP\_289) = 0 TMP\_290 = 1 not(TMP\_290) = 0 TMP\_291 = 1 not(TMP\_291) = 0 TMP\_292 = 0 not(TMP\_292) = 1 TMP\_293 = 3 TMP\_294 = 0 not(TMP\_294) = 1 TMP\_295 = 0 not(TMP\_295) = 1 TMP\_296 = 0 TMP\_297 = 1 not(TMP\_297) = 0 TMP\_298 = 1 not(TMP\_298) = 0 TMP\_299 = 2 TMP\_300 = 0 not(TMP\_300) = 1 TMP\_301 = 0 not(TMP\_301) = 1 TMP\_302 = 1 not(TMP\_302) = 0 TMP\_303 = 1 not(TMP\_303) = 0 TMP\_304 = 1 not(TMP\_304) = 0 TMP\_305 = 2 TMP\_306 = 0 not(TMP\_306) = 1 TMP\_307 = 1 not(TMP\_307) = 0 TMP\_308 = 1 not(TMP\_308) = 0 TMP\_309 = 0 not(TMP\_309) = 1 TMP\_310 = 2 TMP\_311 = 0 not(TMP\_311) = 1 TMP\_312 = 0 not(TMP\_312) = 1 TMP\_313 = 0 TMP\_314 = 1 not(TMP\_314) = 0 TMP\_315 = 1 not(TMP\_315) = 0 TMP\_316 = 2 TMP\_317 = 0 not(TMP\_317) = 1 TMP\_318 = 0 not(TMP\_318) = 1 TMP\_319 = 1 not(TMP\_319) = 0 TMP\_320 = 1 not(TMP\_320) = 0 TMP\_321 = 1 not(TMP\_321) = 0 TMP\_322 = 2 TMP\_323 = 1 not(TMP\_323) = 0 TMP\_324 = 1 not(TMP\_324) = 0 TMP\_325 = 1 not(TMP\_325) = 0 TMP\_326 = 0 not(TMP\_326) = 1 TMP\_327 = 3 TMP\_328 = 0 not(TMP\_328) = 1 TMP\_329 = 0 not(TMP\_329) = 1 TMP\_330 = 0 TMP\_331 = 1 not(TMP\_331) = 0 TMP\_332 = 1 not(TMP\_332) = 0 TMP\_333 = 2 TMP\_334 = 0 not(TMP\_334) = 1 TMP\_335 = 0 not(TMP\_335) = 1 TMP\_336 = 1 not(TMP\_336) = 0 TMP\_337 = 1 not(TMP\_337) = 0 TMP\_338 = 1 not(TMP\_338) = 0 TMP\_339 = 2 TMP\_340 = 0 not(TMP\_340) = 1 TMP\_341 = 1 not(TMP\_341) = 0 TMP\_342 = 1 not(TMP\_342) = 0 TMP\_343 = 1 not(TMP\_343) = 0 TMP\_344 = 3 TMP\_345 = 0 not(TMP\_345) = 1 TMP\_346 = 0 not(TMP\_346) = 1 TMP\_347 = 0 TMP\_348 = 1 not(TMP\_348) = 0 TMP\_349 = 1 not(TMP\_349) = 0 TMP\_350 = 2 TMP\_351 = 0 not(TMP\_351) = 1 TMP\_352 = 0 not(TMP\_352) = 1 TMP\_353 = 1 not(TMP\_353) = 0 TMP\_354 = 1 not(TMP\_354) = 0 TMP\_355 = 1 not(TMP\_355) = 0 TMP\_356 = 2 TMP\_357 = 1 not(TMP\_357) = 0 TMP\_358 = 1 not(TMP\_358) = 0 TMP\_359 = 0 not(TMP\_359) = 1 TMP\_360 = 1 not(TMP\_360) = 0 TMP\_361 = 3 TMP\_362 = 0 not(TMP\_362) = 1 TMP\_363 = 0 not(TMP\_363) = 1 TMP\_364 = 0 TMP\_365 = 1 not(TMP\_365) = 0 TMP\_366 = 1 not(TMP\_366) = 0 TMP\_367 = 2 TMP\_368 = 0 not(TMP\_368) = 1 TMP\_369 = 0 not(TMP\_369) = 1 TMP\_370 = 1 not(TMP\_370) = 0 TMP\_371 = 1 not(TMP\_371) = 0 TMP\_372 = 1 not(TMP\_372) = 0 TMP\_373 = 2 TMP\_374 = 0 not(TMP\_374) = 1 TMP\_375 = 1 not(TMP\_375) = 0 TMP\_376 = 1 not(TMP\_376) = 0 TMP\_377 = 1 not(TMP\_377) = 0 TMP\_378 = 3 TMP\_379 = 0 not(TMP\_379) = 1 TMP\_380 = 0 not(TMP\_380) = 1 TMP\_381 = 0 TMP\_382 = 1 not(TMP\_382) = 0 TMP\_383 = 1 not(TMP\_383) = 0 TMP\_384 = 2 TMP\_385 = 0 not(TMP\_385) = 1 TMP\_386 = 0 not(TMP\_386) = 1 TMP\_387 = 1 not(TMP\_387) = 0 TMP\_388 = 1 not(TMP\_388) = 0 TMP\_389 = 1 not(TMP\_389) = 0 TMP\_390 = 2 TMP\_391 = 1 not(TMP\_391) = 0 TMP\_392 = 1 not(TMP\_392) = 0 TMP\_393 = 0 not(TMP\_393) = 1 TMP\_394 = 1 not(TMP\_394) = 0 TMP\_395 = 3 TMP\_396 = 0 not(TMP\_396) = 1 TMP\_397 = 0 not(TMP\_397) = 1 TMP\_398 = 0 TMP\_399 = 1 not(TMP\_399) = 0 TMP\_400 = 1 not(TMP\_400) = 0 TMP\_401 = 2 TMP\_402 = 0 not(TMP\_402) = 1 TMP\_403 = 0 not(TMP\_403) = 1 TMP\_404 = 1 not(TMP\_404) = 0 TMP\_405 = 1 not(TMP\_405) = 0 TMP\_406 = 1 not(TMP\_406) = 0 TMP\_407 = 2 TMP\_408 = 1 not(TMP\_408) = 0 TMP\_409 = 1 not(TMP\_409) = 0 TMP\_410 = 0 not(TMP\_410) = 1 TMP\_411 = 1 not(TMP\_411) = 0 TMP\_412 = 3 TMP\_413 = 0 not(TMP\_413) = 1 TMP\_414 = 0 not(TMP\_414) = 1 TMP\_415 = 0 TMP\_416 = 1 not(TMP\_416) = 0 TMP\_417 = 1 not(TMP\_417) = 0 TMP\_418 = 2 TMP\_419 = 0 not(TMP\_419) = 1 TMP\_420 = 0 not(TMP\_420) = 1 TMP\_421 = 1 not(TMP\_421) = 0 TMP\_422 = 1 not(TMP\_422) = 0 TMP\_423 = 1 not(TMP\_423) = 0 TMP\_424 = 2 TMP\_425 = 0 not(TMP\_425) = 1 TMP\_426 = 1 not(TMP\_426) = 0 TMP\_427 = 1 not(TMP\_427) = 0 TMP\_428 = 1 not(TMP\_428) = 0 TMP\_429 = 3 TMP\_430 = 0 not(TMP\_430) = 1 TMP\_431 = 0 not(TMP\_431) = 1 TMP\_432 = 0 TMP\_433 = 1 not(TMP\_433) = 0 TMP\_434 = 1 not(TMP\_434) = 0 TMP\_435 = 2 TMP\_436 = 0 not(TMP\_436) = 1 TMP\_437 = 0 not(TMP\_437) = 1 TMP\_438 = 1 not(TMP\_438) = 0 TMP\_439 = 1 not(TMP\_439) = 0 TMP\_440 = 1 not(TMP\_440) = 0 TMP\_441 = 2 TMP\_442 = 1 not(TMP\_442) = 0 TMP\_443 = 1 not(TMP\_443) = 0 TMP\_444 = 0 not(TMP\_444) = 1 TMP\_445 = 1 not(TMP\_445) = 0 TMP\_446 = 3 TMP\_447 = 0 not(TMP\_447) = 1 TMP\_448 = 0 not(TMP\_448) = 1 TMP\_449 = 0 TMP\_450 = 1 not(TMP\_450) = 0 TMP\_451 = 1 not(TMP\_451) = 0 TMP\_452 = 2 TMP\_453 = 0 not(TMP\_453) = 1 TMP\_454 = 0 not(TMP\_454) = 1 TMP\_455 = 1 not(TMP\_455) = 0 TMP\_456 = 1 not(TMP\_456) = 0 TMP\_457 = 1 not(TMP\_457) = 0 TMP\_458 = 2 TMP\_459 = 0 not(TMP\_459) = 1 TMP\_460 = 1 not(TMP\_460) = 0 TMP\_461 = 0 not(TMP\_461) = 1 TMP\_462 = 1 not(TMP\_462) = 0 TMP\_463 = 2 TMP\_464 = 0 not(TMP\_464) = 1 TMP\_465 = 0 not(TMP\_465) = 1 TMP\_466 = 0 TMP\_467 = 1 not(TMP\_467) = 0 TMP\_468 = 1 not(TMP\_468) = 0 TMP\_469 = 2 TMP\_470 = 0 not(TMP\_470) = 1 TMP\_471 = 0 not(TMP\_471) = 1 TMP\_472 = 1 not(TMP\_472) = 0 TMP\_473 = 1 not(TMP\_473) = 0 TMP\_474 = 1 not(TMP\_474) = 0 TMP\_475 = 2 TMP\_476 = 1 not(TMP\_476) = 0 TMP\_477 = 1 not(TMP\_477) = 0 TMP\_478 = 0 not(TMP\_478) = 1 TMP\_479 = 1 not(TMP\_479) = 0 TMP\_480 = 3 TMP\_481 = 0 not(TMP\_481) = 1 TMP\_482 = 0 not(TMP\_482) = 1 TMP\_483 = 0 TMP\_484 = 1 not(TMP\_484) = 0 TMP\_485 = 1 not(TMP\_485) = 0 TMP\_486 = 2 TMP\_487 = 0 not(TMP\_487) = 1 TMP\_488 = 0 not(TMP\_488) = 1 TMP\_489 = 1 not(TMP\_489) = 0 TMP\_490 = 1 not(TMP\_490) = 0 TMP\_491 = 1 not(TMP\_491) = 0 TMP\_492 = 2 TMP\_493 = 1 not(TMP\_493) = 0 TMP\_494 = 1 not(TMP\_494) = 0 TMP\_495 = 1 not(TMP\_495) = 0 TMP\_496 = 0 not(TMP\_496) = 1 TMP\_497 = 3 TMP\_498 = 0 not(TMP\_498) = 1 TMP\_499 = 0 not(TMP\_499) = 1 TMP\_500 = 0 TMP\_501 = 1 not(TMP\_501) = 0 TMP\_502 = 1 not(TMP\_502) = 0 TMP\_503 = 2 TMP\_504 = 0 not(TMP\_504) = 1 TMP\_505 = 0 not(TMP\_505) = 1 TMP\_506 = 1 not(TMP\_506) = 0 TMP\_507 = 1 not(TMP\_507) = 0 TMP\_508 = 1 not(TMP\_508) = 0 TMP\_509 = 2 TMP\_510 = 1 not(TMP\_510) = 0 TMP\_511 = 0 not(TMP\_511) = 1 TMP\_512 = 1 not(TMP\_512) = 0 TMP\_513 = 1 not(TMP\_513) = 0 TMP\_514 = 3 TMP\_515 = 0 not(TMP\_515) = 1 TMP\_516 = 0 not(TMP\_516) = 1 TMP\_517 = 0 TMP\_518 = 1 not(TMP\_518) = 0 TMP\_519 = 1 not(TMP\_519) = 0 TMP\_520 = 2 TMP\_521 = 0 not(TMP\_521) = 1 TMP\_522 = 0 not(TMP\_522) = 1 TMP\_523 = 1 not(TMP\_523) = 0 TMP\_524 = 1 not(TMP\_524) = 0 TMP\_525 = 1 not(TMP\_525) = 0 TMP\_526 = 2 TMP\_527 = 1 not(TMP\_527) = 0 TMP\_528 = 0 not(TMP\_528) = 1 TMP\_529 = 1 not(TMP\_529) = 0 TMP\_530 = 1 not(TMP\_530) = 0 TMP\_531 = 3 TMP\_532 = 0 not(TMP\_532) = 1 TMP\_533 = 0 not(TMP\_533) = 1 TMP\_534 = 0 TMP\_535 = 1 not(TMP\_535) = 0 TMP\_536 = 1 not(TMP\_536) = 0 TMP\_537 = 2 TMP\_538 = 0 not(TMP\_538) = 1 TMP\_539 = 0 not(TMP\_539) = 1 TMP\_540 = 1 not(TMP\_540) = 0 TMP\_541 = 1 not(TMP\_541) = 0 TMP\_542 = 1 not(TMP\_542) = 0 TMP\_543 = 2 TMP\_544 = 1 not(TMP\_544) = 0 TMP\_545 = 1 not(TMP\_545) = 0 TMP\_546 = 1 not(TMP\_546) = 0 TMP\_547 = 0 not(TMP\_547) = 1 TMP\_548 = 3 TMP\_549 = 0 not(TMP\_549) = 1 TMP\_550 = 0 not(TMP\_550) = 1 TMP\_551 = 0 TMP\_552 = 1 not(TMP\_552) = 0 TMP\_553 = 1 not(TMP\_553) = 0 TMP\_554 = 2 TMP\_555 = 0 not(TMP\_555) = 1 TMP\_556 = 0 not(TMP\_556) = 1 TMP\_557 = 1 not(TMP\_557) = 0 TMP\_558 = 1 not(TMP\_558) = 0 TMP\_559 = 1 not(TMP\_559) = 0 TMP\_560 = 2 TMP\_561 = 1 not(TMP\_561) = 0 TMP\_562 = 0 not(TMP\_562) = 1 TMP\_563 = 1 not(TMP\_563) = 0 TMP\_564 = 1 not(TMP\_564) = 0 TMP\_565 = 3 TMP\_566 = 0 not(TMP\_566) = 1 TMP\_567 = 0 not(TMP\_567) = 1 TMP\_568 = 0 TMP\_569 = 1 not(TMP\_569) = 0 TMP\_570 = 1 not(TMP\_570) = 0 TMP\_571 = 2 TMP\_572 = 0 not(TMP\_572) = 1 TMP\_573 = 0 not(TMP\_573) = 1 TMP\_574 = 1 not(TMP\_574) = 0 TMP\_575 = 1 not(TMP\_575) = 0 TMP\_576 = 1 not(TMP\_576) = 0 TMP\_577 = 2 TMP\_578 = 1 not(TMP\_578) = 0 TMP\_579 = 0 not(TMP\_579) = 1 TMP\_580 = 1 not(TMP\_580) = 0 TMP\_581 = 0 not(TMP\_581) = 1 TMP\_582 = 2 TMP\_583 = 0 not(TMP\_583) = 1 TMP\_584 = 0 not(TMP\_584) = 1 TMP\_585 = 0 TMP\_586 = 1 not(TMP\_586) = 0 TMP\_587 = 1 not(TMP\_587) = 0 TMP\_588 = 2 TMP\_589 = 0 not(TMP\_589) = 1 TMP\_590 = 0 not(TMP\_590) = 1 TMP\_591 = 1 not(TMP\_591) = 0 TMP\_592 = 1 not(TMP\_592) = 0 TMP\_593 = 1 not(TMP\_593) = 0 TMP\_594 = 2 Area\_0 = 10000 Distance\_0\_Rule\_0 = 100 Distance\_1\_Rule\_0 = 100 Area\_1 = 5000 Distance\_0\_Rule\_1 = 50 Distance\_1\_Rule\_1 = 100 Area\_2 = 25000 Distance\_0\_Rule\_2 = 100 Distance\_1\_Rule\_2 = 250 Area\_3 = 20000 -(Rule\_3\_LB) = -50 Distance\_0\_Rule\_3 = 200 -(Rule\_3\_LB) = -300 Distance\_1\_Rule\_3 = 100 Area\_4 = 2500 -(Rule\_4\_LB) = 0 Distance\_0\_Rule\_4 = 25 -(Rule\_4\_LB) = -400 Distance\_1\_Rule\_4 = 100 Area\_5 = 30000 -(Rule\_5\_LB) = -150 Distance\_0\_Rule\_5 = 100 -(Rule\_5\_LB) = 0 Distance\_1\_Rule\_5 = 300 Area\_6 = 17500 -(Rule\_6\_LB) = -75 Distance\_0\_Rule\_6 = 175 -(Rule\_6\_LB) = -400 Distance\_1\_Rule\_6 = 100 Area\_7 = 15000 -(Rule\_7\_LB) = 0 Distance\_0\_Rule\_7 = 50 -(Rule\_7\_LB) = -100 Distance\_1\_Rule\_7 = 300 TMP\_595 = 125000 .

- Solution #4 found. 4 Solutions, Resolution 0.907s, 4680 Nodes (5,157.5 n/s), 9184 Backtracks, 4647 Fails, 0 Restarts

Rule\_3\_LB = 50 Rule\_3\_UB = 250 Rule\_3\_LB = 300 Rule\_3\_UB = 400 Rule\_4\_LB = 0 Rule\_4\_UB = 25 Rule\_4\_LB = 400 Rule\_4\_UB = 500 Rule\_5\_LB = 150 Rule\_5\_UB = 250 Rule\_5\_LB = 0 Rule\_5\_UB = 300 Rule\_6\_LB = 75 Rule\_6\_UB = 250 Rule\_6\_LB = 400 Rule\_6\_UB = 500 Rule\_7\_LB = 0 Rule\_7\_UB = 50 Rule\_7\_LB = 100 Rule\_7\_UB = 400 Overlaps\_0\_0 = 0 Overlaps\_0\_1 = 0 Overlaps\_0\_2 = 0 Overlaps\_0\_3 = 0 Overlaps\_0\_4 = 0 Overlaps\_0\_5 = 0 Overlaps\_0\_6 = 0 Overlaps\_0\_7 = 0 Overlaps\_1\_0 = 0 Overlaps\_1\_1 = 0 Overlaps\_1\_2 = 1 Overlaps\_1\_3 = 0 Overlaps\_1\_4 = 0 Overlaps\_1\_5 = 0 Overlaps\_1\_6 = 0 Overlaps\_1\_7 = 0 Overlaps\_2\_0 = 1 Overlaps\_2\_1 = 0 Overlaps\_2\_2 = 0 Overlaps\_2\_3 = 0 Overlaps\_2\_4 = 0 Overlaps\_2\_5 = 0 Overlaps\_2\_6 = 0 Overlaps\_2\_7 = 0 Overlaps\_3\_0 = 0 Overlaps\_3\_1 = 0 Overlaps\_3\_2 = 0 Overlaps\_3\_3 = 0 Overlaps\_3\_4 = 0 Overlaps\_3\_5 = 0 Overlaps\_3\_6 = 0 Overlaps\_3\_7 = 0 Overlaps\_4\_0 = 0 Overlaps\_4\_1 = 0 Overlaps\_4\_2 = 0 Overlaps\_4\_3 = 0 Overlaps\_4\_4 = 0 Overlaps\_4\_5 = 0 Overlaps\_4\_6 = 0 Overlaps\_4\_7 = 0 Overlaps\_5\_0 = 0 Overlaps\_5\_1 = 0 Overlaps\_5\_2 = 0 Overlaps\_5\_3 = 0 Overlaps\_5\_4 = 0 Overlaps\_5\_5 = 0 Overlaps\_5\_6 = 0 Overlaps\_5\_7 = 0 Overlaps\_6\_0 = 0 Overlaps\_6\_1 = 0 Overlaps\_6\_2 = 0 Overlaps\_6\_3 = 0 Overlaps\_6\_4 = 0 Overlaps\_6\_5 = 0 Overlaps\_6\_6 = 0 Overlaps\_6\_7 = 0 Overlaps\_7\_0 = 0 Overlaps\_7\_1 = 0 Overlaps\_7\_2 = 0 Overlaps\_7\_3 = 0 Overlaps\_7\_4 = 0 Overlaps\_7\_5 = 0 Overlaps\_7\_6 = 0 Overlaps\_7\_7 = 0 TMP\_0 = 1 not(TMP\_0) = 0 TMP\_1 = 1 not(TMP\_1) = 0 TMP\_2 = 0 not(TMP\_2) = 1 TMP\_3 = 1 not(TMP\_3) = 0 TMP\_4 = 3 TMP\_5 = 0 not(TMP\_5) = 1 TMP\_6 = 0 not(TMP\_6) = 1 TMP\_7 = 0 TMP\_8 = 1 not(TMP\_8) = 0 TMP\_9 = 1 not(TMP\_9) = 0 TMP\_10 = 2 TMP\_11 = 0 not(TMP\_11) = 1 TMP\_12 = 0 not(TMP\_12) = 1 TMP\_13 = 1 not(TMP\_13) = 0 TMP\_14 = 1 not(TMP\_14) = 0 TMP\_15 = 1 not(TMP\_15) = 0 TMP\_16 = 2 TMP\_17 = 1 not(TMP\_17) = 0 TMP\_18 = 1 not(TMP\_18) = 0 TMP\_19 = 1 not(TMP\_19) = 0 TMP\_20 = 0 not(TMP\_20) = 1 TMP\_21 = 3 TMP\_22 = 0 not(TMP\_22) = 1 TMP\_23 = 0 not(TMP\_23) = 1 TMP\_24 = 0 TMP\_25 = 1 not(TMP\_25) = 0 TMP\_26 = 1 not(TMP\_26) = 0 TMP\_27 = 2 TMP\_28 = 0 not(TMP\_28) = 1 TMP\_29 = 0 not(TMP\_29) = 1 TMP\_30 = 1 not(TMP\_30) = 0 TMP\_31 = 1 not(TMP\_31) = 0 TMP\_32 = 1 not(TMP\_32) = 0 TMP\_33 = 2 TMP\_34 = 1 not(TMP\_34) = 0 TMP\_35 = 1 not(TMP\_35) = 0 TMP\_36 = 0 not(TMP\_36) = 1 TMP\_37 = 1 not(TMP\_37) = 0 TMP\_38 = 3 TMP\_39 = 0 not(TMP\_39) = 1 TMP\_40 = 0 not(TMP\_40) = 1 TMP\_41 = 0 TMP\_42 = 1 not(TMP\_42) = 0 TMP\_43 = 1 not(TMP\_43) = 0 TMP\_44 = 2 TMP\_45 = 0 not(TMP\_45) = 1 TMP\_46 = 0 not(TMP\_46) = 1 TMP\_47 = 1 not(TMP\_47) = 0 TMP\_48 = 1 not(TMP\_48) = 0 TMP\_49 = 1 not(TMP\_49) = 0 TMP\_50 = 2 TMP\_51 = 0 not(TMP\_51) = 1 TMP\_52 = 1 not(TMP\_52) = 0 TMP\_53 = 1 not(TMP\_53) = 0 TMP\_54 = 0 not(TMP\_54) = 1 TMP\_55 = 2 TMP\_56 = 0 not(TMP\_56) = 1 TMP\_57 = 0 not(TMP\_57) = 1 TMP\_58 = 0 TMP\_59 = 1 not(TMP\_59) = 0 TMP\_60 = 1 not(TMP\_60) = 0 TMP\_61 = 2 TMP\_62 = 0 not(TMP\_62) = 1 TMP\_63 = 0 not(TMP\_63) = 1 TMP\_64 = 1 not(TMP\_64) = 0 TMP\_65 = 1 not(TMP\_65) = 0 TMP\_66 = 1 not(TMP\_66) = 0 TMP\_67 = 2 TMP\_68 = 1 not(TMP\_68) = 0 TMP\_69 = 1 not(TMP\_69) = 0 TMP\_70 = 0 not(TMP\_70) = 1 TMP\_71 = 1 not(TMP\_71) = 0 TMP\_72 = 3 TMP\_73 = 0 not(TMP\_73) = 1 TMP\_74 = 0 not(TMP\_74) = 1 TMP\_75 = 0 TMP\_76 = 1 not(TMP\_76) = 0 TMP\_77 = 1 not(TMP\_77) = 0 TMP\_78 = 2 TMP\_79 = 0 not(TMP\_79) = 1 TMP\_80 = 0 not(TMP\_80) = 1 TMP\_81 = 1 not(TMP\_81) = 0 TMP\_82 = 1 not(TMP\_82) = 0 TMP\_83 = 1 not(TMP\_83) = 0 TMP\_84 = 2 TMP\_85 = 1 not(TMP\_85) = 0 TMP\_86 = 1 not(TMP\_86) = 0 TMP\_87 = 1 not(TMP\_87) = 0 TMP\_88 = 0 not(TMP\_88) = 1 TMP\_89 = 3 TMP\_90 = 0 not(TMP\_90) = 1 TMP\_91 = 0 not(TMP\_91) = 1 TMP\_92 = 0 TMP\_93 = 1 not(TMP\_93) = 0 TMP\_94 = 1 not(TMP\_94) = 0 TMP\_95 = 2 TMP\_96 = 0 not(TMP\_96) = 1 TMP\_97 = 0 not(TMP\_97) = 1 TMP\_98 = 1 not(TMP\_98) = 0 TMP\_99 = 1 not(TMP\_99) = 0 TMP\_100 = 1 not(TMP\_100) = 0 TMP\_101 = 2 TMP\_102 = 0 not(TMP\_102) = 1 TMP\_103 = 1 not(TMP\_103) = 0 TMP\_104 = 1 not(TMP\_104) = 0 TMP\_105 = 1 not(TMP\_105) = 0 TMP\_106 = 3 TMP\_107 = 0 not(TMP\_107) = 1 TMP\_108 = 0 not(TMP\_108) = 1 TMP\_109 = 0 TMP\_110 = 1 not(TMP\_110) = 0 TMP\_111 = 1 not(TMP\_111) = 0 TMP\_112 = 2 TMP\_113 = 0 not(TMP\_113) = 1 TMP\_114 = 0 not(TMP\_114) = 1 TMP\_115 = 1 not(TMP\_115) = 0 TMP\_116 = 1 not(TMP\_116) = 0 TMP\_117 = 1 not(TMP\_117) = 0 TMP\_118 = 2 TMP\_119 = 1 not(TMP\_119) = 0 TMP\_120 = 1 not(TMP\_120) = 0 TMP\_121 = 0 not(TMP\_121) = 1 TMP\_122 = 1 not(TMP\_122) = 0 TMP\_123 = 3 TMP\_124 = 0 not(TMP\_124) = 1 TMP\_125 = 0 not(TMP\_125) = 1 TMP\_126 = 0 TMP\_127 = 1 not(TMP\_127) = 0 TMP\_128 = 1 not(TMP\_128) = 0 TMP\_129 = 2 TMP\_130 = 0 not(TMP\_130) = 1 TMP\_131 = 0 not(TMP\_131) = 1 TMP\_132 = 1 not(TMP\_132) = 0 TMP\_133 = 1 not(TMP\_133) = 0 TMP\_134 = 1 not(TMP\_134) = 0 TMP\_135 = 2 TMP\_136 = 1 not(TMP\_136) = 0 TMP\_137 = 0 not(TMP\_137) = 1 TMP\_138 = 1 not(TMP\_138) = 0 TMP\_139 = 1 not(TMP\_139) = 0 TMP\_140 = 3 TMP\_141 = 0 not(TMP\_141) = 1 TMP\_142 = 0 not(TMP\_142) = 1 TMP\_143 = 0 TMP\_144 = 1 not(TMP\_144) = 0 TMP\_145 = 1 not(TMP\_145) = 0 TMP\_146 = 2 TMP\_147 = 0 not(TMP\_147) = 1 TMP\_148 = 0 not(TMP\_148) = 1 TMP\_149 = 1 not(TMP\_149) = 0 TMP\_150 = 1 not(TMP\_150) = 0 TMP\_151 = 1 not(TMP\_151) = 0 TMP\_152 = 2 TMP\_153 = 1 not(TMP\_153) = 0 TMP\_154 = 0 not(TMP\_154) = 1 TMP\_155 = 0 not(TMP\_155) = 1 TMP\_156 = 1 not(TMP\_156) = 0 TMP\_157 = 2 TMP\_158 = 0 not(TMP\_158) = 1 TMP\_159 = 0 not(TMP\_159) = 1 TMP\_160 = 0 TMP\_161 = 1 not(TMP\_161) = 0 TMP\_162 = 1 not(TMP\_162) = 0 TMP\_163 = 2 TMP\_164 = 0 not(TMP\_164) = 1 TMP\_165 = 0 not(TMP\_165) = 1 TMP\_166 = 1 not(TMP\_166) = 0 TMP\_167 = 1 not(TMP\_167) = 0 TMP\_168 = 1 not(TMP\_168) = 0 TMP\_169 = 2 TMP\_170 = 1 not(TMP\_170) = 0 TMP\_171 = 0 not(TMP\_171) = 1 TMP\_172 = 0 not(TMP\_172) = 1 TMP\_173 = 1 not(TMP\_173) = 0 TMP\_174 = 2 TMP\_175 = 0 not(TMP\_175) = 1 TMP\_176 = 0 not(TMP\_176) = 1 TMP\_177 = 0 TMP\_178 = 1 not(TMP\_178) = 0 TMP\_179 = 1 not(TMP\_179) = 0 TMP\_180 = 2 TMP\_181 = 0 not(TMP\_181) = 1 TMP\_182 = 0 not(TMP\_182) = 1 TMP\_183 = 1 not(TMP\_183) = 0 TMP\_184 = 1 not(TMP\_184) = 0 TMP\_185 = 1 not(TMP\_185) = 0 TMP\_186 = 2 TMP\_187 = 1 not(TMP\_187) = 0 TMP\_188 = 0 not(TMP\_188) = 1 TMP\_189 = 0 not(TMP\_189) = 1 TMP\_190 = 1 not(TMP\_190) = 0 TMP\_191 = 2 TMP\_192 = 0 not(TMP\_192) = 1 TMP\_193 = 0 not(TMP\_193) = 1 TMP\_194 = 0 TMP\_195 = 1 not(TMP\_195) = 0 TMP\_196 = 1 not(TMP\_196) = 0 TMP\_197 = 2 TMP\_198 = 0 not(TMP\_198) = 1 TMP\_199 = 0 not(TMP\_199) = 1 TMP\_200 = 1 not(TMP\_200) = 0 TMP\_201 = 1 not(TMP\_201) = 0 TMP\_202 = 1 not(TMP\_202) = 0 TMP\_203 = 2 TMP\_204 = 1 not(TMP\_204) = 0 TMP\_205 = 0 not(TMP\_205) = 1 TMP\_206 = 1 not(TMP\_206) = 0 TMP\_207 = 1 not(TMP\_207) = 0 TMP\_208 = 3 TMP\_209 = 0 not(TMP\_209) = 1 TMP\_210 = 0 not(TMP\_210) = 1 TMP\_211 = 0 TMP\_212 = 1 not(TMP\_212) = 0 TMP\_213 = 1 not(TMP\_213) = 0 TMP\_214 = 2 TMP\_215 = 0 not(TMP\_215) = 1 TMP\_216 = 0 not(TMP\_216) = 1 TMP\_217 = 1 not(TMP\_217) = 0 TMP\_218 = 1 not(TMP\_218) = 0 TMP\_219 = 1 not(TMP\_219) = 0 TMP\_220 = 2 TMP\_221 = 1 not(TMP\_221) = 0 TMP\_222 = 1 not(TMP\_222) = 0 TMP\_223 = 0 not(TMP\_223) = 1 TMP\_224 = 1 not(TMP\_224) = 0 TMP\_225 = 3 TMP\_226 = 0 not(TMP\_226) = 1 TMP\_227 = 0 not(TMP\_227) = 1 TMP\_228 = 0 TMP\_229 = 1 not(TMP\_229) = 0 TMP\_230 = 1 not(TMP\_230) = 0 TMP\_231 = 2 TMP\_232 = 0 not(TMP\_232) = 1 TMP\_233 = 0 not(TMP\_233) = 1 TMP\_234 = 1 not(TMP\_234) = 0 TMP\_235 = 1 not(TMP\_235) = 0 TMP\_236 = 1 not(TMP\_236) = 0 TMP\_237 = 2 TMP\_238 = 0 not(TMP\_238) = 1 TMP\_239 = 1 not(TMP\_239) = 0 TMP\_240 = 1 not(TMP\_240) = 0 TMP\_241 = 1 not(TMP\_241) = 0 TMP\_242 = 3 TMP\_243 = 0 not(TMP\_243) = 1 TMP\_244 = 0 not(TMP\_244) = 1 TMP\_245 = 0 TMP\_246 = 1 not(TMP\_246) = 0 TMP\_247 = 1 not(TMP\_247) = 0 TMP\_248 = 2 TMP\_249 = 0 not(TMP\_249) = 1 TMP\_250 = 0 not(TMP\_250) = 1 TMP\_251 = 1 not(TMP\_251) = 0 TMP\_252 = 1 not(TMP\_252) = 0 TMP\_253 = 1 not(TMP\_253) = 0 TMP\_254 = 2 TMP\_255 = 0 not(TMP\_255) = 1 TMP\_256 = 1 not(TMP\_256) = 0 TMP\_257 = 1 not(TMP\_257) = 0 TMP\_258 = 0 not(TMP\_258) = 1 TMP\_259 = 2 TMP\_260 = 0 not(TMP\_260) = 1 TMP\_261 = 0 not(TMP\_261) = 1 TMP\_262 = 0 TMP\_263 = 1 not(TMP\_263) = 0 TMP\_264 = 1 not(TMP\_264) = 0 TMP\_265 = 2 TMP\_266 = 0 not(TMP\_266) = 1 TMP\_267 = 0 not(TMP\_267) = 1 TMP\_268 = 1 not(TMP\_268) = 0 TMP\_269 = 1 not(TMP\_269) = 0 TMP\_270 = 1 not(TMP\_270) = 0 TMP\_271 = 2 TMP\_272 = 0 not(TMP\_272) = 1 TMP\_273 = 1 not(TMP\_273) = 0 TMP\_274 = 1 not(TMP\_274) = 0 TMP\_275 = 1 not(TMP\_275) = 0 TMP\_276 = 3 TMP\_277 = 0 not(TMP\_277) = 1 TMP\_278 = 0 not(TMP\_278) = 1 TMP\_279 = 0 TMP\_280 = 1 not(TMP\_280) = 0 TMP\_281 = 1 not(TMP\_281) = 0 TMP\_282 = 2 TMP\_283 = 0 not(TMP\_283) = 1 TMP\_284 = 0 not(TMP\_284) = 1 TMP\_285 = 1 not(TMP\_285) = 0 TMP\_286 = 1 not(TMP\_286) = 0 TMP\_287 = 1 not(TMP\_287) = 0 TMP\_288 = 2 TMP\_289 = 1 not(TMP\_289) = 0 TMP\_290 = 1 not(TMP\_290) = 0 TMP\_291 = 1 not(TMP\_291) = 0 TMP\_292 = 0 not(TMP\_292) = 1 TMP\_293 = 3 TMP\_294 = 0 not(TMP\_294) = 1 TMP\_295 = 0 not(TMP\_295) = 1 TMP\_296 = 0 TMP\_297 = 1 not(TMP\_297) = 0 TMP\_298 = 1 not(TMP\_298) = 0 TMP\_299 = 2 TMP\_300 = 0 not(TMP\_300) = 1 TMP\_301 = 0 not(TMP\_301) = 1 TMP\_302 = 1 not(TMP\_302) = 0 TMP\_303 = 1 not(TMP\_303) = 0 TMP\_304 = 1 not(TMP\_304) = 0 TMP\_305 = 2 TMP\_306 = 0 not(TMP\_306) = 1 TMP\_307 = 1 not(TMP\_307) = 0 TMP\_308 = 1 not(TMP\_308) = 0 TMP\_309 = 0 not(TMP\_309) = 1 TMP\_310 = 2 TMP\_311 = 0 not(TMP\_311) = 1 TMP\_312 = 0 not(TMP\_312) = 1 TMP\_313 = 0 TMP\_314 = 1 not(TMP\_314) = 0 TMP\_315 = 1 not(TMP\_315) = 0 TMP\_316 = 2 TMP\_317 = 0 not(TMP\_317) = 1 TMP\_318 = 0 not(TMP\_318) = 1 TMP\_319 = 1 not(TMP\_319) = 0 TMP\_320 = 1 not(TMP\_320) = 0 TMP\_321 = 1 not(TMP\_321) = 0 TMP\_322 = 2 TMP\_323 = 1 not(TMP\_323) = 0 TMP\_324 = 1 not(TMP\_324) = 0 TMP\_325 = 1 not(TMP\_325) = 0 TMP\_326 = 0 not(TMP\_326) = 1 TMP\_327 = 3 TMP\_328 = 0 not(TMP\_328) = 1 TMP\_329 = 0 not(TMP\_329) = 1 TMP\_330 = 0 TMP\_331 = 1 not(TMP\_331) = 0 TMP\_332 = 1 not(TMP\_332) = 0 TMP\_333 = 2 TMP\_334 = 0 not(TMP\_334) = 1 TMP\_335 = 0 not(TMP\_335) = 1 TMP\_336 = 1 not(TMP\_336) = 0 TMP\_337 = 1 not(TMP\_337) = 0 TMP\_338 = 1 not(TMP\_338) = 0 TMP\_339 = 2 TMP\_340 = 0 not(TMP\_340) = 1 TMP\_341 = 1 not(TMP\_341) = 0 TMP\_342 = 1 not(TMP\_342) = 0 TMP\_343 = 1 not(TMP\_343) = 0 TMP\_344 = 3 TMP\_345 = 0 not(TMP\_345) = 1 TMP\_346 = 0 not(TMP\_346) = 1 TMP\_347 = 0 TMP\_348 = 1 not(TMP\_348) = 0 TMP\_349 = 1 not(TMP\_349) = 0 TMP\_350 = 2 TMP\_351 = 0 not(TMP\_351) = 1 TMP\_352 = 0 not(TMP\_352) = 1 TMP\_353 = 1 not(TMP\_353) = 0 TMP\_354 = 1 not(TMP\_354) = 0 TMP\_355 = 1 not(TMP\_355) = 0 TMP\_356 = 2 TMP\_357 = 1 not(TMP\_357) = 0 TMP\_358 = 1 not(TMP\_358) = 0 TMP\_359 = 0 not(TMP\_359) = 1 TMP\_360 = 1 not(TMP\_360) = 0 TMP\_361 = 3 TMP\_362 = 0 not(TMP\_362) = 1 TMP\_363 = 0 not(TMP\_363) = 1 TMP\_364 = 0 TMP\_365 = 1 not(TMP\_365) = 0 TMP\_366 = 1 not(TMP\_366) = 0 TMP\_367 = 2 TMP\_368 = 0 not(TMP\_368) = 1 TMP\_369 = 0 not(TMP\_369) = 1 TMP\_370 = 1 not(TMP\_370) = 0 TMP\_371 = 1 not(TMP\_371) = 0 TMP\_372 = 1 not(TMP\_372) = 0 TMP\_373 = 2 TMP\_374 = 0 not(TMP\_374) = 1 TMP\_375 = 1 not(TMP\_375) = 0 TMP\_376 = 1 not(TMP\_376) = 0 TMP\_377 = 1 not(TMP\_377) = 0 TMP\_378 = 3 TMP\_379 = 0 not(TMP\_379) = 1 TMP\_380 = 0 not(TMP\_380) = 1 TMP\_381 = 0 TMP\_382 = 1 not(TMP\_382) = 0 TMP\_383 = 1 not(TMP\_383) = 0 TMP\_384 = 2 TMP\_385 = 0 not(TMP\_385) = 1 TMP\_386 = 0 not(TMP\_386) = 1 TMP\_387 = 1 not(TMP\_387) = 0 TMP\_388 = 1 not(TMP\_388) = 0 TMP\_389 = 1 not(TMP\_389) = 0 TMP\_390 = 2 TMP\_391 = 1 not(TMP\_391) = 0 TMP\_392 = 1 not(TMP\_392) = 0 TMP\_393 = 0 not(TMP\_393) = 1 TMP\_394 = 1 not(TMP\_394) = 0 TMP\_395 = 3 TMP\_396 = 0 not(TMP\_396) = 1 TMP\_397 = 0 not(TMP\_397) = 1 TMP\_398 = 0 TMP\_399 = 1 not(TMP\_399) = 0 TMP\_400 = 1 not(TMP\_400) = 0 TMP\_401 = 2 TMP\_402 = 0 not(TMP\_402) = 1 TMP\_403 = 0 not(TMP\_403) = 1 TMP\_404 = 1 not(TMP\_404) = 0 TMP\_405 = 1 not(TMP\_405) = 0 TMP\_406 = 1 not(TMP\_406) = 0 TMP\_407 = 2 TMP\_408 = 1 not(TMP\_408) = 0 TMP\_409 = 1 not(TMP\_409) = 0 TMP\_410 = 0 not(TMP\_410) = 1 TMP\_411 = 1 not(TMP\_411) = 0 TMP\_412 = 3 TMP\_413 = 0 not(TMP\_413) = 1 TMP\_414 = 0 not(TMP\_414) = 1 TMP\_415 = 0 TMP\_416 = 1 not(TMP\_416) = 0 TMP\_417 = 1 not(TMP\_417) = 0 TMP\_418 = 2 TMP\_419 = 0 not(TMP\_419) = 1 TMP\_420 = 0 not(TMP\_420) = 1 TMP\_421 = 1 not(TMP\_421) = 0 TMP\_422 = 1 not(TMP\_422) = 0 TMP\_423 = 1 not(TMP\_423) = 0 TMP\_424 = 2 TMP\_425 = 0 not(TMP\_425) = 1 TMP\_426 = 1 not(TMP\_426) = 0 TMP\_427 = 1 not(TMP\_427) = 0 TMP\_428 = 1 not(TMP\_428) = 0 TMP\_429 = 3 TMP\_430 = 0 not(TMP\_430) = 1 TMP\_431 = 0 not(TMP\_431) = 1 TMP\_432 = 0 TMP\_433 = 1 not(TMP\_433) = 0 TMP\_434 = 1 not(TMP\_434) = 0 TMP\_435 = 2 TMP\_436 = 0 not(TMP\_436) = 1 TMP\_437 = 0 not(TMP\_437) = 1 TMP\_438 = 1 not(TMP\_438) = 0 TMP\_439 = 1 not(TMP\_439) = 0 TMP\_440 = 1 not(TMP\_440) = 0 TMP\_441 = 2 TMP\_442 = 1 not(TMP\_442) = 0 TMP\_443 = 1 not(TMP\_443) = 0 TMP\_444 = 0 not(TMP\_444) = 1 TMP\_445 = 1 not(TMP\_445) = 0 TMP\_446 = 3 TMP\_447 = 0 not(TMP\_447) = 1 TMP\_448 = 0 not(TMP\_448) = 1 TMP\_449 = 0 TMP\_450 = 1 not(TMP\_450) = 0 TMP\_451 = 1 not(TMP\_451) = 0 TMP\_452 = 2 TMP\_453 = 0 not(TMP\_453) = 1 TMP\_454 = 0 not(TMP\_454) = 1 TMP\_455 = 1 not(TMP\_455) = 0 TMP\_456 = 1 not(TMP\_456) = 0 TMP\_457 = 1 not(TMP\_457) = 0 TMP\_458 = 2 TMP\_459 = 0 not(TMP\_459) = 1 TMP\_460 = 1 not(TMP\_460) = 0 TMP\_461 = 0 not(TMP\_461) = 1 TMP\_462 = 1 not(TMP\_462) = 0 TMP\_463 = 2 TMP\_464 = 0 not(TMP\_464) = 1 TMP\_465 = 0 not(TMP\_465) = 1 TMP\_466 = 0 TMP\_467 = 1 not(TMP\_467) = 0 TMP\_468 = 1 not(TMP\_468) = 0 TMP\_469 = 2 TMP\_470 = 0 not(TMP\_470) = 1 TMP\_471 = 0 not(TMP\_471) = 1 TMP\_472 = 1 not(TMP\_472) = 0 TMP\_473 = 1 not(TMP\_473) = 0 TMP\_474 = 1 not(TMP\_474) = 0 TMP\_475 = 2 TMP\_476 = 1 not(TMP\_476) = 0 TMP\_477 = 1 not(TMP\_477) = 0 TMP\_478 = 0 not(TMP\_478) = 1 TMP\_479 = 1 not(TMP\_479) = 0 TMP\_480 = 3 TMP\_481 = 0 not(TMP\_481) = 1 TMP\_482 = 0 not(TMP\_482) = 1 TMP\_483 = 0 TMP\_484 = 1 not(TMP\_484) = 0 TMP\_485 = 1 not(TMP\_485) = 0 TMP\_486 = 2 TMP\_487 = 0 not(TMP\_487) = 1 TMP\_488 = 0 not(TMP\_488) = 1 TMP\_489 = 1 not(TMP\_489) = 0 TMP\_490 = 1 not(TMP\_490) = 0 TMP\_491 = 1 not(TMP\_491) = 0 TMP\_492 = 2 TMP\_493 = 1 not(TMP\_493) = 0 TMP\_494 = 1 not(TMP\_494) = 0 TMP\_495 = 1 not(TMP\_495) = 0 TMP\_496 = 0 not(TMP\_496) = 1 TMP\_497 = 3 TMP\_498 = 0 not(TMP\_498) = 1 TMP\_499 = 0 not(TMP\_499) = 1 TMP\_500 = 0 TMP\_501 = 1 not(TMP\_501) = 0 TMP\_502 = 1 not(TMP\_502) = 0 TMP\_503 = 2 TMP\_504 = 0 not(TMP\_504) = 1 TMP\_505 = 0 not(TMP\_505) = 1 TMP\_506 = 1 not(TMP\_506) = 0 TMP\_507 = 1 not(TMP\_507) = 0 TMP\_508 = 1 not(TMP\_508) = 0 TMP\_509 = 2 TMP\_510 = 1 not(TMP\_510) = 0 TMP\_511 = 0 not(TMP\_511) = 1 TMP\_512 = 1 not(TMP\_512) = 0 TMP\_513 = 1 not(TMP\_513) = 0 TMP\_514 = 3 TMP\_515 = 0 not(TMP\_515) = 1 TMP\_516 = 0 not(TMP\_516) = 1 TMP\_517 = 0 TMP\_518 = 1 not(TMP\_518) = 0 TMP\_519 = 1 not(TMP\_519) = 0 TMP\_520 = 2 TMP\_521 = 0 not(TMP\_521) = 1 TMP\_522 = 0 not(TMP\_522) = 1 TMP\_523 = 1 not(TMP\_523) = 0 TMP\_524 = 1 not(TMP\_524) = 0 TMP\_525 = 1 not(TMP\_525) = 0 TMP\_526 = 2 TMP\_527 = 1 not(TMP\_527) = 0 TMP\_528 = 0 not(TMP\_528) = 1 TMP\_529 = 1 not(TMP\_529) = 0 TMP\_530 = 1 not(TMP\_530) = 0 TMP\_531 = 3 TMP\_532 = 0 not(TMP\_532) = 1 TMP\_533 = 0 not(TMP\_533) = 1 TMP\_534 = 0 TMP\_535 = 1 not(TMP\_535) = 0 TMP\_536 = 1 not(TMP\_536) = 0 TMP\_537 = 2 TMP\_538 = 0 not(TMP\_538) = 1 TMP\_539 = 0 not(TMP\_539) = 1 TMP\_540 = 1 not(TMP\_540) = 0 TMP\_541 = 1 not(TMP\_541) = 0 TMP\_542 = 1 not(TMP\_542) = 0 TMP\_543 = 2 TMP\_544 = 1 not(TMP\_544) = 0 TMP\_545 = 1 not(TMP\_545) = 0 TMP\_546 = 1 not(TMP\_546) = 0 TMP\_547 = 0 not(TMP\_547) = 1 TMP\_548 = 3 TMP\_549 = 0 not(TMP\_549) = 1 TMP\_550 = 0 not(TMP\_550) = 1 TMP\_551 = 0 TMP\_552 = 1 not(TMP\_552) = 0 TMP\_553 = 1 not(TMP\_553) = 0 TMP\_554 = 2 TMP\_555 = 0 not(TMP\_555) = 1 TMP\_556 = 0 not(TMP\_556) = 1 TMP\_557 = 1 not(TMP\_557) = 0 TMP\_558 = 1 not(TMP\_558) = 0 TMP\_559 = 1 not(TMP\_559) = 0 TMP\_560 = 2 TMP\_561 = 1 not(TMP\_561) = 0 TMP\_562 = 0 not(TMP\_562) = 1 TMP\_563 = 1 not(TMP\_563) = 0 TMP\_564 = 1 not(TMP\_564) = 0 TMP\_565 = 3 TMP\_566 = 0 not(TMP\_566) = 1 TMP\_567 = 0 not(TMP\_567) = 1 TMP\_568 = 0 TMP\_569 = 1 not(TMP\_569) = 0 TMP\_570 = 1 not(TMP\_570) = 0 TMP\_571 = 2 TMP\_572 = 0 not(TMP\_572) = 1 TMP\_573 = 0 not(TMP\_573) = 1 TMP\_574 = 1 not(TMP\_574) = 0 TMP\_575 = 1 not(TMP\_575) = 0 TMP\_576 = 1 not(TMP\_576) = 0 TMP\_577 = 2 TMP\_578 = 1 not(TMP\_578) = 0 TMP\_579 = 0 not(TMP\_579) = 1 TMP\_580 = 1 not(TMP\_580) = 0 TMP\_581 = 0 not(TMP\_581) = 1 TMP\_582 = 2 TMP\_583 = 0 not(TMP\_583) = 1 TMP\_584 = 0 not(TMP\_584) = 1 TMP\_585 = 0 TMP\_586 = 1 not(TMP\_586) = 0 TMP\_587 = 1 not(TMP\_587) = 0 TMP\_588 = 2 TMP\_589 = 0 not(TMP\_589) = 1 TMP\_590 = 0 not(TMP\_590) = 1 TMP\_591 = 1 not(TMP\_591) = 0 TMP\_592 = 1 not(TMP\_592) = 0 TMP\_593 = 1 not(TMP\_593) = 0 TMP\_594 = 2 Area\_0 = 10000 Distance\_0\_Rule\_0 = 100 Distance\_1\_Rule\_0 = 100 Area\_1 = 5000 Distance\_0\_Rule\_1 = 50 Distance\_1\_Rule\_1 = 100 Area\_2 = 25000 Distance\_0\_Rule\_2 = 100 Distance\_1\_Rule\_2 = 250 Area\_3 = 20000 -(Rule\_3\_LB) = -50 Distance\_0\_Rule\_3 = 200 -(Rule\_3\_LB) = -300 Distance\_1\_Rule\_3 = 100 Area\_4 = 2500 -(Rule\_4\_LB) = 0 Distance\_0\_Rule\_4 = 25 -(Rule\_4\_LB) = -400 Distance\_1\_Rule\_4 = 100 Area\_5 = 30000 -(Rule\_5\_LB) = -150 Distance\_0\_Rule\_5 = 100 -(Rule\_5\_LB) = 0 Distance\_1\_Rule\_5 = 300 Area\_6 = 17500 -(Rule\_6\_LB) = -75 Distance\_0\_Rule\_6 = 175 -(Rule\_6\_LB) = -400 Distance\_1\_Rule\_6 = 100 Area\_7 = 15000 -(Rule\_7\_LB) = 0 Distance\_0\_Rule\_7 = 50 -(Rule\_7\_LB) = -100 Distance\_1\_Rule\_7 = 300 TMP\_595 = 125000 .

- Solution #5 found. 5 Solutions, Resolution 0.912s, 4683 Nodes (5,133.7 n/s), 9187 Backtracks, 4647 Fails, 0 Restarts

Rule\_3\_LB = 50 Rule\_3\_UB = 250 Rule\_3\_LB = 300 Rule\_3\_UB = 400 Rule\_4\_LB = 0 Rule\_4\_UB = 25 Rule\_4\_LB = 400 Rule\_4\_UB = 500 Rule\_5\_LB = 150 Rule\_5\_UB = 250 Rule\_5\_LB = 0 Rule\_5\_UB = 300 Rule\_6\_LB = 75 Rule\_6\_UB = 250 Rule\_6\_LB = 400 Rule\_6\_UB = 500 Rule\_7\_LB = 0 Rule\_7\_UB = 50 Rule\_7\_LB = 100 Rule\_7\_UB = 400 Overlaps\_0\_0 = 0 Overlaps\_0\_1 = 0 Overlaps\_0\_2 = 1 Overlaps\_0\_3 = 0 Overlaps\_0\_4 = 0 Overlaps\_0\_5 = 0 Overlaps\_0\_6 = 0 Overlaps\_0\_7 = 0 Overlaps\_1\_0 = 0 Overlaps\_1\_1 = 0 Overlaps\_1\_2 = 0 Overlaps\_1\_3 = 0 Overlaps\_1\_4 = 0 Overlaps\_1\_5 = 0 Overlaps\_1\_6 = 0 Overlaps\_1\_7 = 0 Overlaps\_2\_0 = 0 Overlaps\_2\_1 = 0 Overlaps\_2\_2 = 0 Overlaps\_2\_3 = 0 Overlaps\_2\_4 = 0 Overlaps\_2\_5 = 0 Overlaps\_2\_6 = 0 Overlaps\_2\_7 = 0 Overlaps\_3\_0 = 0 Overlaps\_3\_1 = 0 Overlaps\_3\_2 = 0 Overlaps\_3\_3 = 0 Overlaps\_3\_4 = 0 Overlaps\_3\_5 = 0 Overlaps\_3\_6 = 0 Overlaps\_3\_7 = 0 Overlaps\_4\_0 = 0 Overlaps\_4\_1 = 0 Overlaps\_4\_2 = 0 Overlaps\_4\_3 = 0 Overlaps\_4\_4 = 0 Overlaps\_4\_5 = 0 Overlaps\_4\_6 = 0 Overlaps\_4\_7 = 0 Overlaps\_5\_0 = 0 Overlaps\_5\_1 = 0 Overlaps\_5\_2 = 0 Overlaps\_5\_3 = 0 Overlaps\_5\_4 = 0 Overlaps\_5\_5 = 0 Overlaps\_5\_6 = 0 Overlaps\_5\_7 = 0 Overlaps\_6\_0 = 0 Overlaps\_6\_1 = 0 Overlaps\_6\_2 = 0 Overlaps\_6\_3 = 0 Overlaps\_6\_4 = 0 Overlaps\_6\_5 = 0 Overlaps\_6\_6 = 0 Overlaps\_6\_7 = 0 Overlaps\_7\_0 = 0 Overlaps\_7\_1 = 0 Overlaps\_7\_2 = 0 Overlaps\_7\_3 = 0 Overlaps\_7\_4 = 0 Overlaps\_7\_5 = 0 Overlaps\_7\_6 = 0 Overlaps\_7\_7 = 0 TMP\_0 = 1 not(TMP\_0) = 0 TMP\_1 = 1 not(TMP\_1) = 0 TMP\_2 = 0 not(TMP\_2) = 1 TMP\_3 = 1 not(TMP\_3) = 0 TMP\_4 = 3 TMP\_5 = 0 not(TMP\_5) = 1 TMP\_6 = 0 not(TMP\_6) = 1 TMP\_7 = 0 TMP\_8 = 1 not(TMP\_8) = 0 TMP\_9 = 1 not(TMP\_9) = 0 TMP\_10 = 2 TMP\_11 = 0 not(TMP\_11) = 1 TMP\_12 = 0 not(TMP\_12) = 1 TMP\_13 = 1 not(TMP\_13) = 0 TMP\_14 = 1 not(TMP\_14) = 0 TMP\_15 = 1 not(TMP\_15) = 0 TMP\_16 = 2 TMP\_17 = 1 not(TMP\_17) = 0 TMP\_18 = 1 not(TMP\_18) = 0 TMP\_19 = 1 not(TMP\_19) = 0 TMP\_20 = 0 not(TMP\_20) = 1 TMP\_21 = 3 TMP\_22 = 0 not(TMP\_22) = 1 TMP\_23 = 0 not(TMP\_23) = 1 TMP\_24 = 0 TMP\_25 = 1 not(TMP\_25) = 0 TMP\_26 = 1 not(TMP\_26) = 0 TMP\_27 = 2 TMP\_28 = 0 not(TMP\_28) = 1 TMP\_29 = 0 not(TMP\_29) = 1 TMP\_30 = 1 not(TMP\_30) = 0 TMP\_31 = 1 not(TMP\_31) = 0 TMP\_32 = 1 not(TMP\_32) = 0 TMP\_33 = 2 TMP\_34 = 1 not(TMP\_34) = 0 TMP\_35 = 1 not(TMP\_35) = 0 TMP\_36 = 0 not(TMP\_36) = 1 TMP\_37 = 1 not(TMP\_37) = 0 TMP\_38 = 3 TMP\_39 = 0 not(TMP\_39) = 1 TMP\_40 = 0 not(TMP\_40) = 1 TMP\_41 = 0 TMP\_42 = 1 not(TMP\_42) = 0 TMP\_43 = 1 not(TMP\_43) = 0 TMP\_44 = 2 TMP\_45 = 0 not(TMP\_45) = 1 TMP\_46 = 0 not(TMP\_46) = 1 TMP\_47 = 1 not(TMP\_47) = 0 TMP\_48 = 1 not(TMP\_48) = 0 TMP\_49 = 1 not(TMP\_49) = 0 TMP\_50 = 2 TMP\_51 = 0 not(TMP\_51) = 1 TMP\_52 = 1 not(TMP\_52) = 0 TMP\_53 = 1 not(TMP\_53) = 0 TMP\_54 = 0 not(TMP\_54) = 1 TMP\_55 = 2 TMP\_56 = 0 not(TMP\_56) = 1 TMP\_57 = 0 not(TMP\_57) = 1 TMP\_58 = 0 TMP\_59 = 1 not(TMP\_59) = 0 TMP\_60 = 1 not(TMP\_60) = 0 TMP\_61 = 2 TMP\_62 = 0 not(TMP\_62) = 1 TMP\_63 = 0 not(TMP\_63) = 1 TMP\_64 = 1 not(TMP\_64) = 0 TMP\_65 = 1 not(TMP\_65) = 0 TMP\_66 = 1 not(TMP\_66) = 0 TMP\_67 = 2 TMP\_68 = 1 not(TMP\_68) = 0 TMP\_69 = 1 not(TMP\_69) = 0 TMP\_70 = 0 not(TMP\_70) = 1 TMP\_71 = 1 not(TMP\_71) = 0 TMP\_72 = 3 TMP\_73 = 0 not(TMP\_73) = 1 TMP\_74 = 0 not(TMP\_74) = 1 TMP\_75 = 0 TMP\_76 = 1 not(TMP\_76) = 0 TMP\_77 = 1 not(TMP\_77) = 0 TMP\_78 = 2 TMP\_79 = 0 not(TMP\_79) = 1 TMP\_80 = 0 not(TMP\_80) = 1 TMP\_81 = 1 not(TMP\_81) = 0 TMP\_82 = 1 not(TMP\_82) = 0 TMP\_83 = 1 not(TMP\_83) = 0 TMP\_84 = 2 TMP\_85 = 1 not(TMP\_85) = 0 TMP\_86 = 1 not(TMP\_86) = 0 TMP\_87 = 1 not(TMP\_87) = 0 TMP\_88 = 0 not(TMP\_88) = 1 TMP\_89 = 3 TMP\_90 = 0 not(TMP\_90) = 1 TMP\_91 = 0 not(TMP\_91) = 1 TMP\_92 = 0 TMP\_93 = 1 not(TMP\_93) = 0 TMP\_94 = 1 not(TMP\_94) = 0 TMP\_95 = 2 TMP\_96 = 0 not(TMP\_96) = 1 TMP\_97 = 0 not(TMP\_97) = 1 TMP\_98 = 1 not(TMP\_98) = 0 TMP\_99 = 1 not(TMP\_99) = 0 TMP\_100 = 1 not(TMP\_100) = 0 TMP\_101 = 2 TMP\_102 = 0 not(TMP\_102) = 1 TMP\_103 = 1 not(TMP\_103) = 0 TMP\_104 = 1 not(TMP\_104) = 0 TMP\_105 = 1 not(TMP\_105) = 0 TMP\_106 = 3 TMP\_107 = 0 not(TMP\_107) = 1 TMP\_108 = 0 not(TMP\_108) = 1 TMP\_109 = 0 TMP\_110 = 1 not(TMP\_110) = 0 TMP\_111 = 1 not(TMP\_111) = 0 TMP\_112 = 2 TMP\_113 = 0 not(TMP\_113) = 1 TMP\_114 = 0 not(TMP\_114) = 1 TMP\_115 = 1 not(TMP\_115) = 0 TMP\_116 = 1 not(TMP\_116) = 0 TMP\_117 = 1 not(TMP\_117) = 0 TMP\_118 = 2 TMP\_119 = 1 not(TMP\_119) = 0 TMP\_120 = 1 not(TMP\_120) = 0 TMP\_121 = 0 not(TMP\_121) = 1 TMP\_122 = 1 not(TMP\_122) = 0 TMP\_123 = 3 TMP\_124 = 0 not(TMP\_124) = 1 TMP\_125 = 0 not(TMP\_125) = 1 TMP\_126 = 0 TMP\_127 = 1 not(TMP\_127) = 0 TMP\_128 = 1 not(TMP\_128) = 0 TMP\_129 = 2 TMP\_130 = 0 not(TMP\_130) = 1 TMP\_131 = 0 not(TMP\_131) = 1 TMP\_132 = 1 not(TMP\_132) = 0 TMP\_133 = 1 not(TMP\_133) = 0 TMP\_134 = 1 not(TMP\_134) = 0 TMP\_135 = 2 TMP\_136 = 1 not(TMP\_136) = 0 TMP\_137 = 0 not(TMP\_137) = 1 TMP\_138 = 1 not(TMP\_138) = 0 TMP\_139 = 1 not(TMP\_139) = 0 TMP\_140 = 3 TMP\_141 = 0 not(TMP\_141) = 1 TMP\_142 = 0 not(TMP\_142) = 1 TMP\_143 = 0 TMP\_144 = 1 not(TMP\_144) = 0 TMP\_145 = 1 not(TMP\_145) = 0 TMP\_146 = 2 TMP\_147 = 0 not(TMP\_147) = 1 TMP\_148 = 0 not(TMP\_148) = 1 TMP\_149 = 1 not(TMP\_149) = 0 TMP\_150 = 1 not(TMP\_150) = 0 TMP\_151 = 1 not(TMP\_151) = 0 TMP\_152 = 2 TMP\_153 = 1 not(TMP\_153) = 0 TMP\_154 = 0 not(TMP\_154) = 1 TMP\_155 = 0 not(TMP\_155) = 1 TMP\_156 = 1 not(TMP\_156) = 0 TMP\_157 = 2 TMP\_158 = 0 not(TMP\_158) = 1 TMP\_159 = 0 not(TMP\_159) = 1 TMP\_160 = 0 TMP\_161 = 1 not(TMP\_161) = 0 TMP\_162 = 1 not(TMP\_162) = 0 TMP\_163 = 2 TMP\_164 = 0 not(TMP\_164) = 1 TMP\_165 = 0 not(TMP\_165) = 1 TMP\_166 = 1 not(TMP\_166) = 0 TMP\_167 = 1 not(TMP\_167) = 0 TMP\_168 = 1 not(TMP\_168) = 0 TMP\_169 = 2 TMP\_170 = 1 not(TMP\_170) = 0 TMP\_171 = 0 not(TMP\_171) = 1 TMP\_172 = 0 not(TMP\_172) = 1 TMP\_173 = 1 not(TMP\_173) = 0 TMP\_174 = 2 TMP\_175 = 0 not(TMP\_175) = 1 TMP\_176 = 0 not(TMP\_176) = 1 TMP\_177 = 0 TMP\_178 = 1 not(TMP\_178) = 0 TMP\_179 = 1 not(TMP\_179) = 0 TMP\_180 = 2 TMP\_181 = 0 not(TMP\_181) = 1 TMP\_182 = 0 not(TMP\_182) = 1 TMP\_183 = 1 not(TMP\_183) = 0 TMP\_184 = 1 not(TMP\_184) = 0 TMP\_185 = 1 not(TMP\_185) = 0 TMP\_186 = 2 TMP\_187 = 1 not(TMP\_187) = 0 TMP\_188 = 0 not(TMP\_188) = 1 TMP\_189 = 0 not(TMP\_189) = 1 TMP\_190 = 1 not(TMP\_190) = 0 TMP\_191 = 2 TMP\_192 = 0 not(TMP\_192) = 1 TMP\_193 = 0 not(TMP\_193) = 1 TMP\_194 = 0 TMP\_195 = 1 not(TMP\_195) = 0 TMP\_196 = 1 not(TMP\_196) = 0 TMP\_197 = 2 TMP\_198 = 0 not(TMP\_198) = 1 TMP\_199 = 0 not(TMP\_199) = 1 TMP\_200 = 1 not(TMP\_200) = 0 TMP\_201 = 1 not(TMP\_201) = 0 TMP\_202 = 1 not(TMP\_202) = 0 TMP\_203 = 2 TMP\_204 = 1 not(TMP\_204) = 0 TMP\_205 = 0 not(TMP\_205) = 1 TMP\_206 = 1 not(TMP\_206) = 0 TMP\_207 = 1 not(TMP\_207) = 0 TMP\_208 = 3 TMP\_209 = 0 not(TMP\_209) = 1 TMP\_210 = 0 not(TMP\_210) = 1 TMP\_211 = 0 TMP\_212 = 1 not(TMP\_212) = 0 TMP\_213 = 1 not(TMP\_213) = 0 TMP\_214 = 2 TMP\_215 = 0 not(TMP\_215) = 1 TMP\_216 = 0 not(TMP\_216) = 1 TMP\_217 = 1 not(TMP\_217) = 0 TMP\_218 = 1 not(TMP\_218) = 0 TMP\_219 = 1 not(TMP\_219) = 0 TMP\_220 = 2 TMP\_221 = 1 not(TMP\_221) = 0 TMP\_222 = 1 not(TMP\_222) = 0 TMP\_223 = 0 not(TMP\_223) = 1 TMP\_224 = 1 not(TMP\_224) = 0 TMP\_225 = 3 TMP\_226 = 0 not(TMP\_226) = 1 TMP\_227 = 0 not(TMP\_227) = 1 TMP\_228 = 0 TMP\_229 = 1 not(TMP\_229) = 0 TMP\_230 = 1 not(TMP\_230) = 0 TMP\_231 = 2 TMP\_232 = 0 not(TMP\_232) = 1 TMP\_233 = 0 not(TMP\_233) = 1 TMP\_234 = 1 not(TMP\_234) = 0 TMP\_235 = 1 not(TMP\_235) = 0 TMP\_236 = 1 not(TMP\_236) = 0 TMP\_237 = 2 TMP\_238 = 0 not(TMP\_238) = 1 TMP\_239 = 1 not(TMP\_239) = 0 TMP\_240 = 1 not(TMP\_240) = 0 TMP\_241 = 1 not(TMP\_241) = 0 TMP\_242 = 3 TMP\_243 = 0 not(TMP\_243) = 1 TMP\_244 = 0 not(TMP\_244) = 1 TMP\_245 = 0 TMP\_246 = 1 not(TMP\_246) = 0 TMP\_247 = 1 not(TMP\_247) = 0 TMP\_248 = 2 TMP\_249 = 0 not(TMP\_249) = 1 TMP\_250 = 0 not(TMP\_250) = 1 TMP\_251 = 1 not(TMP\_251) = 0 TMP\_252 = 1 not(TMP\_252) = 0 TMP\_253 = 1 not(TMP\_253) = 0 TMP\_254 = 2 TMP\_255 = 0 not(TMP\_255) = 1 TMP\_256 = 1 not(TMP\_256) = 0 TMP\_257 = 1 not(TMP\_257) = 0 TMP\_258 = 0 not(TMP\_258) = 1 TMP\_259 = 2 TMP\_260 = 0 not(TMP\_260) = 1 TMP\_261 = 0 not(TMP\_261) = 1 TMP\_262 = 0 TMP\_263 = 1 not(TMP\_263) = 0 TMP\_264 = 1 not(TMP\_264) = 0 TMP\_265 = 2 TMP\_266 = 0 not(TMP\_266) = 1 TMP\_267 = 0 not(TMP\_267) = 1 TMP\_268 = 1 not(TMP\_268) = 0 TMP\_269 = 1 not(TMP\_269) = 0 TMP\_270 = 1 not(TMP\_270) = 0 TMP\_271 = 2 TMP\_272 = 0 not(TMP\_272) = 1 TMP\_273 = 1 not(TMP\_273) = 0 TMP\_274 = 1 not(TMP\_274) = 0 TMP\_275 = 1 not(TMP\_275) = 0 TMP\_276 = 3 TMP\_277 = 0 not(TMP\_277) = 1 TMP\_278 = 0 not(TMP\_278) = 1 TMP\_279 = 0 TMP\_280 = 1 not(TMP\_280) = 0 TMP\_281 = 1 not(TMP\_281) = 0 TMP\_282 = 2 TMP\_283 = 0 not(TMP\_283) = 1 TMP\_284 = 0 not(TMP\_284) = 1 TMP\_285 = 1 not(TMP\_285) = 0 TMP\_286 = 1 not(TMP\_286) = 0 TMP\_287 = 1 not(TMP\_287) = 0 TMP\_288 = 2 TMP\_289 = 1 not(TMP\_289) = 0 TMP\_290 = 1 not(TMP\_290) = 0 TMP\_291 = 1 not(TMP\_291) = 0 TMP\_292 = 0 not(TMP\_292) = 1 TMP\_293 = 3 TMP\_294 = 0 not(TMP\_294) = 1 TMP\_295 = 0 not(TMP\_295) = 1 TMP\_296 = 0 TMP\_297 = 1 not(TMP\_297) = 0 TMP\_298 = 1 not(TMP\_298) = 0 TMP\_299 = 2 TMP\_300 = 0 not(TMP\_300) = 1 TMP\_301 = 0 not(TMP\_301) = 1 TMP\_302 = 1 not(TMP\_302) = 0 TMP\_303 = 1 not(TMP\_303) = 0 TMP\_304 = 1 not(TMP\_304) = 0 TMP\_305 = 2 TMP\_306 = 0 not(TMP\_306) = 1 TMP\_307 = 1 not(TMP\_307) = 0 TMP\_308 = 1 not(TMP\_308) = 0 TMP\_309 = 0 not(TMP\_309) = 1 TMP\_310 = 2 TMP\_311 = 0 not(TMP\_311) = 1 TMP\_312 = 0 not(TMP\_312) = 1 TMP\_313 = 0 TMP\_314 = 1 not(TMP\_314) = 0 TMP\_315 = 1 not(TMP\_315) = 0 TMP\_316 = 2 TMP\_317 = 0 not(TMP\_317) = 1 TMP\_318 = 0 not(TMP\_318) = 1 TMP\_319 = 1 not(TMP\_319) = 0 TMP\_320 = 1 not(TMP\_320) = 0 TMP\_321 = 1 not(TMP\_321) = 0 TMP\_322 = 2 TMP\_323 = 1 not(TMP\_323) = 0 TMP\_324 = 1 not(TMP\_324) = 0 TMP\_325 = 1 not(TMP\_325) = 0 TMP\_326 = 0 not(TMP\_326) = 1 TMP\_327 = 3 TMP\_328 = 0 not(TMP\_328) = 1 TMP\_329 = 0 not(TMP\_329) = 1 TMP\_330 = 0 TMP\_331 = 1 not(TMP\_331) = 0 TMP\_332 = 1 not(TMP\_332) = 0 TMP\_333 = 2 TMP\_334 = 0 not(TMP\_334) = 1 TMP\_335 = 0 not(TMP\_335) = 1 TMP\_336 = 1 not(TMP\_336) = 0 TMP\_337 = 1 not(TMP\_337) = 0 TMP\_338 = 1 not(TMP\_338) = 0 TMP\_339 = 2 TMP\_340 = 0 not(TMP\_340) = 1 TMP\_341 = 1 not(TMP\_341) = 0 TMP\_342 = 1 not(TMP\_342) = 0 TMP\_343 = 1 not(TMP\_343) = 0 TMP\_344 = 3 TMP\_345 = 0 not(TMP\_345) = 1 TMP\_346 = 0 not(TMP\_346) = 1 TMP\_347 = 0 TMP\_348 = 1 not(TMP\_348) = 0 TMP\_349 = 1 not(TMP\_349) = 0 TMP\_350 = 2 TMP\_351 = 0 not(TMP\_351) = 1 TMP\_352 = 0 not(TMP\_352) = 1 TMP\_353 = 1 not(TMP\_353) = 0 TMP\_354 = 1 not(TMP\_354) = 0 TMP\_355 = 1 not(TMP\_355) = 0 TMP\_356 = 2 TMP\_357 = 1 not(TMP\_357) = 0 TMP\_358 = 1 not(TMP\_358) = 0 TMP\_359 = 0 not(TMP\_359) = 1 TMP\_360 = 1 not(TMP\_360) = 0 TMP\_361 = 3 TMP\_362 = 0 not(TMP\_362) = 1 TMP\_363 = 0 not(TMP\_363) = 1 TMP\_364 = 0 TMP\_365 = 1 not(TMP\_365) = 0 TMP\_366 = 1 not(TMP\_366) = 0 TMP\_367 = 2 TMP\_368 = 0 not(TMP\_368) = 1 TMP\_369 = 0 not(TMP\_369) = 1 TMP\_370 = 1 not(TMP\_370) = 0 TMP\_371 = 1 not(TMP\_371) = 0 TMP\_372 = 1 not(TMP\_372) = 0 TMP\_373 = 2 TMP\_374 = 0 not(TMP\_374) = 1 TMP\_375 = 1 not(TMP\_375) = 0 TMP\_376 = 1 not(TMP\_376) = 0 TMP\_377 = 1 not(TMP\_377) = 0 TMP\_378 = 3 TMP\_379 = 0 not(TMP\_379) = 1 TMP\_380 = 0 not(TMP\_380) = 1 TMP\_381 = 0 TMP\_382 = 1 not(TMP\_382) = 0 TMP\_383 = 1 not(TMP\_383) = 0 TMP\_384 = 2 TMP\_385 = 0 not(TMP\_385) = 1 TMP\_386 = 0 not(TMP\_386) = 1 TMP\_387 = 1 not(TMP\_387) = 0 TMP\_388 = 1 not(TMP\_388) = 0 TMP\_389 = 1 not(TMP\_389) = 0 TMP\_390 = 2 TMP\_391 = 1 not(TMP\_391) = 0 TMP\_392 = 1 not(TMP\_392) = 0 TMP\_393 = 0 not(TMP\_393) = 1 TMP\_394 = 1 not(TMP\_394) = 0 TMP\_395 = 3 TMP\_396 = 0 not(TMP\_396) = 1 TMP\_397 = 0 not(TMP\_397) = 1 TMP\_398 = 0 TMP\_399 = 1 not(TMP\_399) = 0 TMP\_400 = 1 not(TMP\_400) = 0 TMP\_401 = 2 TMP\_402 = 0 not(TMP\_402) = 1 TMP\_403 = 0 not(TMP\_403) = 1 TMP\_404 = 1 not(TMP\_404) = 0 TMP\_405 = 1 not(TMP\_405) = 0 TMP\_406 = 1 not(TMP\_406) = 0 TMP\_407 = 2 TMP\_408 = 1 not(TMP\_408) = 0 TMP\_409 = 1 not(TMP\_409) = 0 TMP\_410 = 0 not(TMP\_410) = 1 TMP\_411 = 1 not(TMP\_411) = 0 TMP\_412 = 3 TMP\_413 = 0 not(TMP\_413) = 1 TMP\_414 = 0 not(TMP\_414) = 1 TMP\_415 = 0 TMP\_416 = 1 not(TMP\_416) = 0 TMP\_417 = 1 not(TMP\_417) = 0 TMP\_418 = 2 TMP\_419 = 0 not(TMP\_419) = 1 TMP\_420 = 0 not(TMP\_420) = 1 TMP\_421 = 1 not(TMP\_421) = 0 TMP\_422 = 1 not(TMP\_422) = 0 TMP\_423 = 1 not(TMP\_423) = 0 TMP\_424 = 2 TMP\_425 = 0 not(TMP\_425) = 1 TMP\_426 = 1 not(TMP\_426) = 0 TMP\_427 = 1 not(TMP\_427) = 0 TMP\_428 = 1 not(TMP\_428) = 0 TMP\_429 = 3 TMP\_430 = 0 not(TMP\_430) = 1 TMP\_431 = 0 not(TMP\_431) = 1 TMP\_432 = 0 TMP\_433 = 1 not(TMP\_433) = 0 TMP\_434 = 1 not(TMP\_434) = 0 TMP\_435 = 2 TMP\_436 = 0 not(TMP\_436) = 1 TMP\_437 = 0 not(TMP\_437) = 1 TMP\_438 = 1 not(TMP\_438) = 0 TMP\_439 = 1 not(TMP\_439) = 0 TMP\_440 = 1 not(TMP\_440) = 0 TMP\_441 = 2 TMP\_442 = 1 not(TMP\_442) = 0 TMP\_443 = 1 not(TMP\_443) = 0 TMP\_444 = 0 not(TMP\_444) = 1 TMP\_445 = 1 not(TMP\_445) = 0 TMP\_446 = 3 TMP\_447 = 0 not(TMP\_447) = 1 TMP\_448 = 0 not(TMP\_448) = 1 TMP\_449 = 0 TMP\_450 = 1 not(TMP\_450) = 0 TMP\_451 = 1 not(TMP\_451) = 0 TMP\_452 = 2 TMP\_453 = 0 not(TMP\_453) = 1 TMP\_454 = 0 not(TMP\_454) = 1 TMP\_455 = 1 not(TMP\_455) = 0 TMP\_456 = 1 not(TMP\_456) = 0 TMP\_457 = 1 not(TMP\_457) = 0 TMP\_458 = 2 TMP\_459 = 0 not(TMP\_459) = 1 TMP\_460 = 1 not(TMP\_460) = 0 TMP\_461 = 0 not(TMP\_461) = 1 TMP\_462 = 1 not(TMP\_462) = 0 TMP\_463 = 2 TMP\_464 = 0 not(TMP\_464) = 1 TMP\_465 = 0 not(TMP\_465) = 1 TMP\_466 = 0 TMP\_467 = 1 not(TMP\_467) = 0 TMP\_468 = 1 not(TMP\_468) = 0 TMP\_469 = 2 TMP\_470 = 0 not(TMP\_470) = 1 TMP\_471 = 0 not(TMP\_471) = 1 TMP\_472 = 1 not(TMP\_472) = 0 TMP\_473 = 1 not(TMP\_473) = 0 TMP\_474 = 1 not(TMP\_474) = 0 TMP\_475 = 2 TMP\_476 = 1 not(TMP\_476) = 0 TMP\_477 = 1 not(TMP\_477) = 0 TMP\_478 = 0 not(TMP\_478) = 1 TMP\_479 = 1 not(TMP\_479) = 0 TMP\_480 = 3 TMP\_481 = 0 not(TMP\_481) = 1 TMP\_482 = 0 not(TMP\_482) = 1 TMP\_483 = 0 TMP\_484 = 1 not(TMP\_484) = 0 TMP\_485 = 1 not(TMP\_485) = 0 TMP\_486 = 2 TMP\_487 = 0 not(TMP\_487) = 1 TMP\_488 = 0 not(TMP\_488) = 1 TMP\_489 = 1 not(TMP\_489) = 0 TMP\_490 = 1 not(TMP\_490) = 0 TMP\_491 = 1 not(TMP\_491) = 0 TMP\_492 = 2 TMP\_493 = 1 not(TMP\_493) = 0 TMP\_494 = 1 not(TMP\_494) = 0 TMP\_495 = 1 not(TMP\_495) = 0 TMP\_496 = 0 not(TMP\_496) = 1 TMP\_497 = 3 TMP\_498 = 0 not(TMP\_498) = 1 TMP\_499 = 0 not(TMP\_499) = 1 TMP\_500 = 0 TMP\_501 = 1 not(TMP\_501) = 0 TMP\_502 = 1 not(TMP\_502) = 0 TMP\_503 = 2 TMP\_504 = 0 not(TMP\_504) = 1 TMP\_505 = 0 not(TMP\_505) = 1 TMP\_506 = 1 not(TMP\_506) = 0 TMP\_507 = 1 not(TMP\_507) = 0 TMP\_508 = 1 not(TMP\_508) = 0 TMP\_509 = 2 TMP\_510 = 1 not(TMP\_510) = 0 TMP\_511 = 0 not(TMP\_511) = 1 TMP\_512 = 1 not(TMP\_512) = 0 TMP\_513 = 1 not(TMP\_513) = 0 TMP\_514 = 3 TMP\_515 = 0 not(TMP\_515) = 1 TMP\_516 = 0 not(TMP\_516) = 1 TMP\_517 = 0 TMP\_518 = 1 not(TMP\_518) = 0 TMP\_519 = 1 not(TMP\_519) = 0 TMP\_520 = 2 TMP\_521 = 0 not(TMP\_521) = 1 TMP\_522 = 0 not(TMP\_522) = 1 TMP\_523 = 1 not(TMP\_523) = 0 TMP\_524 = 1 not(TMP\_524) = 0 TMP\_525 = 1 not(TMP\_525) = 0 TMP\_526 = 2 TMP\_527 = 1 not(TMP\_527) = 0 TMP\_528 = 0 not(TMP\_528) = 1 TMP\_529 = 1 not(TMP\_529) = 0 TMP\_530 = 1 not(TMP\_530) = 0 TMP\_531 = 3 TMP\_532 = 0 not(TMP\_532) = 1 TMP\_533 = 0 not(TMP\_533) = 1 TMP\_534 = 0 TMP\_535 = 1 not(TMP\_535) = 0 TMP\_536 = 1 not(TMP\_536) = 0 TMP\_537 = 2 TMP\_538 = 0 not(TMP\_538) = 1 TMP\_539 = 0 not(TMP\_539) = 1 TMP\_540 = 1 not(TMP\_540) = 0 TMP\_541 = 1 not(TMP\_541) = 0 TMP\_542 = 1 not(TMP\_542) = 0 TMP\_543 = 2 TMP\_544 = 1 not(TMP\_544) = 0 TMP\_545 = 1 not(TMP\_545) = 0 TMP\_546 = 1 not(TMP\_546) = 0 TMP\_547 = 0 not(TMP\_547) = 1 TMP\_548 = 3 TMP\_549 = 0 not(TMP\_549) = 1 TMP\_550 = 0 not(TMP\_550) = 1 TMP\_551 = 0 TMP\_552 = 1 not(TMP\_552) = 0 TMP\_553 = 1 not(TMP\_553) = 0 TMP\_554 = 2 TMP\_555 = 0 not(TMP\_555) = 1 TMP\_556 = 0 not(TMP\_556) = 1 TMP\_557 = 1 not(TMP\_557) = 0 TMP\_558 = 1 not(TMP\_558) = 0 TMP\_559 = 1 not(TMP\_559) = 0 TMP\_560 = 2 TMP\_561 = 1 not(TMP\_561) = 0 TMP\_562 = 0 not(TMP\_562) = 1 TMP\_563 = 1 not(TMP\_563) = 0 TMP\_564 = 1 not(TMP\_564) = 0 TMP\_565 = 3 TMP\_566 = 0 not(TMP\_566) = 1 TMP\_567 = 0 not(TMP\_567) = 1 TMP\_568 = 0 TMP\_569 = 1 not(TMP\_569) = 0 TMP\_570 = 1 not(TMP\_570) = 0 TMP\_571 = 2 TMP\_572 = 0 not(TMP\_572) = 1 TMP\_573 = 0 not(TMP\_573) = 1 TMP\_574 = 1 not(TMP\_574) = 0 TMP\_575 = 1 not(TMP\_575) = 0 TMP\_576 = 1 not(TMP\_576) = 0 TMP\_577 = 2 TMP\_578 = 1 not(TMP\_578) = 0 TMP\_579 = 0 not(TMP\_579) = 1 TMP\_580 = 1 not(TMP\_580) = 0 TMP\_581 = 0 not(TMP\_581) = 1 TMP\_582 = 2 TMP\_583 = 0 not(TMP\_583) = 1 TMP\_584 = 0 not(TMP\_584) = 1 TMP\_585 = 0 TMP\_586 = 1 not(TMP\_586) = 0 TMP\_587 = 1 not(TMP\_587) = 0 TMP\_588 = 2 TMP\_589 = 0 not(TMP\_589) = 1 TMP\_590 = 0 not(TMP\_590) = 1 TMP\_591 = 1 not(TMP\_591) = 0 TMP\_592 = 1 not(TMP\_592) = 0 TMP\_593 = 1 not(TMP\_593) = 0 TMP\_594 = 2 Area\_0 = 10000 Distance\_0\_Rule\_0 = 100 Distance\_1\_Rule\_0 = 100 Area\_1 = 5000 Distance\_0\_Rule\_1 = 50 Distance\_1\_Rule\_1 = 100 Area\_2 = 25000 Distance\_0\_Rule\_2 = 100 Distance\_1\_Rule\_2 = 250 Area\_3 = 20000 -(Rule\_3\_LB) = -50 Distance\_0\_Rule\_3 = 200 -(Rule\_3\_LB) = -300 Distance\_1\_Rule\_3 = 100 Area\_4 = 2500 -(Rule\_4\_LB) = 0 Distance\_0\_Rule\_4 = 25 -(Rule\_4\_LB) = -400 Distance\_1\_Rule\_4 = 100 Area\_5 = 30000 -(Rule\_5\_LB) = -150 Distance\_0\_Rule\_5 = 100 -(Rule\_5\_LB) = 0 Distance\_1\_Rule\_5 = 300 Area\_6 = 17500 -(Rule\_6\_LB) = -75 Distance\_0\_Rule\_6 = 175 -(Rule\_6\_LB) = -400 Distance\_1\_Rule\_6 = 100 Area\_7 = 15000 -(Rule\_7\_LB) = 0 Distance\_0\_Rule\_7 = 50 -(Rule\_7\_LB) = -100 Distance\_1\_Rule\_7 = 300 TMP\_595 = 125000 .

- Solution #6 found. 6 Solutions, Resolution 0.916s, 4684 Nodes (5,114.2 n/s), 9188 Backtracks, 4647 Fails, 0 Restarts

Rule\_3\_LB = 50 Rule\_3\_UB = 250 Rule\_3\_LB = 300 Rule\_3\_UB = 400 Rule\_4\_LB = 0 Rule\_4\_UB = 25 Rule\_4\_LB = 400 Rule\_4\_UB = 500 Rule\_5\_LB = 150 Rule\_5\_UB = 250 Rule\_5\_LB = 0 Rule\_5\_UB = 300 Rule\_6\_LB = 75 Rule\_6\_UB = 250 Rule\_6\_LB = 400 Rule\_6\_UB = 500 Rule\_7\_LB = 0 Rule\_7\_UB = 50 Rule\_7\_LB = 100 Rule\_7\_UB = 400 Overlaps\_0\_0 = 0 Overlaps\_0\_1 = 0 Overlaps\_0\_2 = 1 Overlaps\_0\_3 = 0 Overlaps\_0\_4 = 0 Overlaps\_0\_5 = 0 Overlaps\_0\_6 = 0 Overlaps\_0\_7 = 0 Overlaps\_1\_0 = 0 Overlaps\_1\_1 = 0 Overlaps\_1\_2 = 1 Overlaps\_1\_3 = 0 Overlaps\_1\_4 = 0 Overlaps\_1\_5 = 0 Overlaps\_1\_6 = 0 Overlaps\_1\_7 = 0 Overlaps\_2\_0 = 0 Overlaps\_2\_1 = 0 Overlaps\_2\_2 = 0 Overlaps\_2\_3 = 0 Overlaps\_2\_4 = 0 Overlaps\_2\_5 = 0 Overlaps\_2\_6 = 0 Overlaps\_2\_7 = 0 Overlaps\_3\_0 = 0 Overlaps\_3\_1 = 0 Overlaps\_3\_2 = 0 Overlaps\_3\_3 = 0 Overlaps\_3\_4 = 0 Overlaps\_3\_5 = 0 Overlaps\_3\_6 = 0 Overlaps\_3\_7 = 0 Overlaps\_4\_0 = 0 Overlaps\_4\_1 = 0 Overlaps\_4\_2 = 0 Overlaps\_4\_3 = 0 Overlaps\_4\_4 = 0 Overlaps\_4\_5 = 0 Overlaps\_4\_6 = 0 Overlaps\_4\_7 = 0 Overlaps\_5\_0 = 0 Overlaps\_5\_1 = 0 Overlaps\_5\_2 = 0 Overlaps\_5\_3 = 0 Overlaps\_5\_4 = 0 Overlaps\_5\_5 = 0 Overlaps\_5\_6 = 0 Overlaps\_5\_7 = 0 Overlaps\_6\_0 = 0 Overlaps\_6\_1 = 0 Overlaps\_6\_2 = 0 Overlaps\_6\_3 = 0 Overlaps\_6\_4 = 0 Overlaps\_6\_5 = 0 Overlaps\_6\_6 = 0 Overlaps\_6\_7 = 0 Overlaps\_7\_0 = 0 Overlaps\_7\_1 = 0 Overlaps\_7\_2 = 0 Overlaps\_7\_3 = 0 Overlaps\_7\_4 = 0 Overlaps\_7\_5 = 0 Overlaps\_7\_6 = 0 Overlaps\_7\_7 = 0 TMP\_0 = 1 not(TMP\_0) = 0 TMP\_1 = 1 not(TMP\_1) = 0 TMP\_2 = 0 not(TMP\_2) = 1 TMP\_3 = 1 not(TMP\_3) = 0 TMP\_4 = 3 TMP\_5 = 0 not(TMP\_5) = 1 TMP\_6 = 0 not(TMP\_6) = 1 TMP\_7 = 0 TMP\_8 = 1 not(TMP\_8) = 0 TMP\_9 = 1 not(TMP\_9) = 0 TMP\_10 = 2 TMP\_11 = 0 not(TMP\_11) = 1 TMP\_12 = 0 not(TMP\_12) = 1 TMP\_13 = 1 not(TMP\_13) = 0 TMP\_14 = 1 not(TMP\_14) = 0 TMP\_15 = 1 not(TMP\_15) = 0 TMP\_16 = 2 TMP\_17 = 1 not(TMP\_17) = 0 TMP\_18 = 1 not(TMP\_18) = 0 TMP\_19 = 1 not(TMP\_19) = 0 TMP\_20 = 0 not(TMP\_20) = 1 TMP\_21 = 3 TMP\_22 = 0 not(TMP\_22) = 1 TMP\_23 = 0 not(TMP\_23) = 1 TMP\_24 = 0 TMP\_25 = 1 not(TMP\_25) = 0 TMP\_26 = 1 not(TMP\_26) = 0 TMP\_27 = 2 TMP\_28 = 0 not(TMP\_28) = 1 TMP\_29 = 0 not(TMP\_29) = 1 TMP\_30 = 1 not(TMP\_30) = 0 TMP\_31 = 1 not(TMP\_31) = 0 TMP\_32 = 1 not(TMP\_32) = 0 TMP\_33 = 2 TMP\_34 = 1 not(TMP\_34) = 0 TMP\_35 = 1 not(TMP\_35) = 0 TMP\_36 = 0 not(TMP\_36) = 1 TMP\_37 = 1 not(TMP\_37) = 0 TMP\_38 = 3 TMP\_39 = 0 not(TMP\_39) = 1 TMP\_40 = 0 not(TMP\_40) = 1 TMP\_41 = 0 TMP\_42 = 1 not(TMP\_42) = 0 TMP\_43 = 1 not(TMP\_43) = 0 TMP\_44 = 2 TMP\_45 = 0 not(TMP\_45) = 1 TMP\_46 = 0 not(TMP\_46) = 1 TMP\_47 = 1 not(TMP\_47) = 0 TMP\_48 = 1 not(TMP\_48) = 0 TMP\_49 = 1 not(TMP\_49) = 0 TMP\_50 = 2 TMP\_51 = 0 not(TMP\_51) = 1 TMP\_52 = 1 not(TMP\_52) = 0 TMP\_53 = 1 not(TMP\_53) = 0 TMP\_54 = 0 not(TMP\_54) = 1 TMP\_55 = 2 TMP\_56 = 0 not(TMP\_56) = 1 TMP\_57 = 0 not(TMP\_57) = 1 TMP\_58 = 0 TMP\_59 = 1 not(TMP\_59) = 0 TMP\_60 = 1 not(TMP\_60) = 0 TMP\_61 = 2 TMP\_62 = 0 not(TMP\_62) = 1 TMP\_63 = 0 not(TMP\_63) = 1 TMP\_64 = 1 not(TMP\_64) = 0 TMP\_65 = 1 not(TMP\_65) = 0 TMP\_66 = 1 not(TMP\_66) = 0 TMP\_67 = 2 TMP\_68 = 1 not(TMP\_68) = 0 TMP\_69 = 1 not(TMP\_69) = 0 TMP\_70 = 0 not(TMP\_70) = 1 TMP\_71 = 1 not(TMP\_71) = 0 TMP\_72 = 3 TMP\_73 = 0 not(TMP\_73) = 1 TMP\_74 = 0 not(TMP\_74) = 1 TMP\_75 = 0 TMP\_76 = 1 not(TMP\_76) = 0 TMP\_77 = 1 not(TMP\_77) = 0 TMP\_78 = 2 TMP\_79 = 0 not(TMP\_79) = 1 TMP\_80 = 0 not(TMP\_80) = 1 TMP\_81 = 1 not(TMP\_81) = 0 TMP\_82 = 1 not(TMP\_82) = 0 TMP\_83 = 1 not(TMP\_83) = 0 TMP\_84 = 2 TMP\_85 = 1 not(TMP\_85) = 0 TMP\_86 = 1 not(TMP\_86) = 0 TMP\_87 = 1 not(TMP\_87) = 0 TMP\_88 = 0 not(TMP\_88) = 1 TMP\_89 = 3 TMP\_90 = 0 not(TMP\_90) = 1 TMP\_91 = 0 not(TMP\_91) = 1 TMP\_92 = 0 TMP\_93 = 1 not(TMP\_93) = 0 TMP\_94 = 1 not(TMP\_94) = 0 TMP\_95 = 2 TMP\_96 = 0 not(TMP\_96) = 1 TMP\_97 = 0 not(TMP\_97) = 1 TMP\_98 = 1 not(TMP\_98) = 0 TMP\_99 = 1 not(TMP\_99) = 0 TMP\_100 = 1 not(TMP\_100) = 0 TMP\_101 = 2 TMP\_102 = 0 not(TMP\_102) = 1 TMP\_103 = 1 not(TMP\_103) = 0 TMP\_104 = 1 not(TMP\_104) = 0 TMP\_105 = 1 not(TMP\_105) = 0 TMP\_106 = 3 TMP\_107 = 0 not(TMP\_107) = 1 TMP\_108 = 0 not(TMP\_108) = 1 TMP\_109 = 0 TMP\_110 = 1 not(TMP\_110) = 0 TMP\_111 = 1 not(TMP\_111) = 0 TMP\_112 = 2 TMP\_113 = 0 not(TMP\_113) = 1 TMP\_114 = 0 not(TMP\_114) = 1 TMP\_115 = 1 not(TMP\_115) = 0 TMP\_116 = 1 not(TMP\_116) = 0 TMP\_117 = 1 not(TMP\_117) = 0 TMP\_118 = 2 TMP\_119 = 1 not(TMP\_119) = 0 TMP\_120 = 1 not(TMP\_120) = 0 TMP\_121 = 0 not(TMP\_121) = 1 TMP\_122 = 1 not(TMP\_122) = 0 TMP\_123 = 3 TMP\_124 = 0 not(TMP\_124) = 1 TMP\_125 = 0 not(TMP\_125) = 1 TMP\_126 = 0 TMP\_127 = 1 not(TMP\_127) = 0 TMP\_128 = 1 not(TMP\_128) = 0 TMP\_129 = 2 TMP\_130 = 0 not(TMP\_130) = 1 TMP\_131 = 0 not(TMP\_131) = 1 TMP\_132 = 1 not(TMP\_132) = 0 TMP\_133 = 1 not(TMP\_133) = 0 TMP\_134 = 1 not(TMP\_134) = 0 TMP\_135 = 2 TMP\_136 = 1 not(TMP\_136) = 0 TMP\_137 = 0 not(TMP\_137) = 1 TMP\_138 = 1 not(TMP\_138) = 0 TMP\_139 = 1 not(TMP\_139) = 0 TMP\_140 = 3 TMP\_141 = 0 not(TMP\_141) = 1 TMP\_142 = 0 not(TMP\_142) = 1 TMP\_143 = 0 TMP\_144 = 1 not(TMP\_144) = 0 TMP\_145 = 1 not(TMP\_145) = 0 TMP\_146 = 2 TMP\_147 = 0 not(TMP\_147) = 1 TMP\_148 = 0 not(TMP\_148) = 1 TMP\_149 = 1 not(TMP\_149) = 0 TMP\_150 = 1 not(TMP\_150) = 0 TMP\_151 = 1 not(TMP\_151) = 0 TMP\_152 = 2 TMP\_153 = 1 not(TMP\_153) = 0 TMP\_154 = 0 not(TMP\_154) = 1 TMP\_155 = 0 not(TMP\_155) = 1 TMP\_156 = 1 not(TMP\_156) = 0 TMP\_157 = 2 TMP\_158 = 0 not(TMP\_158) = 1 TMP\_159 = 0 not(TMP\_159) = 1 TMP\_160 = 0 TMP\_161 = 1 not(TMP\_161) = 0 TMP\_162 = 1 not(TMP\_162) = 0 TMP\_163 = 2 TMP\_164 = 0 not(TMP\_164) = 1 TMP\_165 = 0 not(TMP\_165) = 1 TMP\_166 = 1 not(TMP\_166) = 0 TMP\_167 = 1 not(TMP\_167) = 0 TMP\_168 = 1 not(TMP\_168) = 0 TMP\_169 = 2 TMP\_170 = 1 not(TMP\_170) = 0 TMP\_171 = 0 not(TMP\_171) = 1 TMP\_172 = 0 not(TMP\_172) = 1 TMP\_173 = 1 not(TMP\_173) = 0 TMP\_174 = 2 TMP\_175 = 0 not(TMP\_175) = 1 TMP\_176 = 0 not(TMP\_176) = 1 TMP\_177 = 0 TMP\_178 = 1 not(TMP\_178) = 0 TMP\_179 = 1 not(TMP\_179) = 0 TMP\_180 = 2 TMP\_181 = 0 not(TMP\_181) = 1 TMP\_182 = 0 not(TMP\_182) = 1 TMP\_183 = 1 not(TMP\_183) = 0 TMP\_184 = 1 not(TMP\_184) = 0 TMP\_185 = 1 not(TMP\_185) = 0 TMP\_186 = 2 TMP\_187 = 1 not(TMP\_187) = 0 TMP\_188 = 0 not(TMP\_188) = 1 TMP\_189 = 0 not(TMP\_189) = 1 TMP\_190 = 1 not(TMP\_190) = 0 TMP\_191 = 2 TMP\_192 = 0 not(TMP\_192) = 1 TMP\_193 = 0 not(TMP\_193) = 1 TMP\_194 = 0 TMP\_195 = 1 not(TMP\_195) = 0 TMP\_196 = 1 not(TMP\_196) = 0 TMP\_197 = 2 TMP\_198 = 0 not(TMP\_198) = 1 TMP\_199 = 0 not(TMP\_199) = 1 TMP\_200 = 1 not(TMP\_200) = 0 TMP\_201 = 1 not(TMP\_201) = 0 TMP\_202 = 1 not(TMP\_202) = 0 TMP\_203 = 2 TMP\_204 = 1 not(TMP\_204) = 0 TMP\_205 = 0 not(TMP\_205) = 1 TMP\_206 = 1 not(TMP\_206) = 0 TMP\_207 = 1 not(TMP\_207) = 0 TMP\_208 = 3 TMP\_209 = 0 not(TMP\_209) = 1 TMP\_210 = 0 not(TMP\_210) = 1 TMP\_211 = 0 TMP\_212 = 1 not(TMP\_212) = 0 TMP\_213 = 1 not(TMP\_213) = 0 TMP\_214 = 2 TMP\_215 = 0 not(TMP\_215) = 1 TMP\_216 = 0 not(TMP\_216) = 1 TMP\_217 = 1 not(TMP\_217) = 0 TMP\_218 = 1 not(TMP\_218) = 0 TMP\_219 = 1 not(TMP\_219) = 0 TMP\_220 = 2 TMP\_221 = 1 not(TMP\_221) = 0 TMP\_222 = 1 not(TMP\_222) = 0 TMP\_223 = 0 not(TMP\_223) = 1 TMP\_224 = 1 not(TMP\_224) = 0 TMP\_225 = 3 TMP\_226 = 0 not(TMP\_226) = 1 TMP\_227 = 0 not(TMP\_227) = 1 TMP\_228 = 0 TMP\_229 = 1 not(TMP\_229) = 0 TMP\_230 = 1 not(TMP\_230) = 0 TMP\_231 = 2 TMP\_232 = 0 not(TMP\_232) = 1 TMP\_233 = 0 not(TMP\_233) = 1 TMP\_234 = 1 not(TMP\_234) = 0 TMP\_235 = 1 not(TMP\_235) = 0 TMP\_236 = 1 not(TMP\_236) = 0 TMP\_237 = 2 TMP\_238 = 0 not(TMP\_238) = 1 TMP\_239 = 1 not(TMP\_239) = 0 TMP\_240 = 1 not(TMP\_240) = 0 TMP\_241 = 1 not(TMP\_241) = 0 TMP\_242 = 3 TMP\_243 = 0 not(TMP\_243) = 1 TMP\_244 = 0 not(TMP\_244) = 1 TMP\_245 = 0 TMP\_246 = 1 not(TMP\_246) = 0 TMP\_247 = 1 not(TMP\_247) = 0 TMP\_248 = 2 TMP\_249 = 0 not(TMP\_249) = 1 TMP\_250 = 0 not(TMP\_250) = 1 TMP\_251 = 1 not(TMP\_251) = 0 TMP\_252 = 1 not(TMP\_252) = 0 TMP\_253 = 1 not(TMP\_253) = 0 TMP\_254 = 2 TMP\_255 = 0 not(TMP\_255) = 1 TMP\_256 = 1 not(TMP\_256) = 0 TMP\_257 = 1 not(TMP\_257) = 0 TMP\_258 = 0 not(TMP\_258) = 1 TMP\_259 = 2 TMP\_260 = 0 not(TMP\_260) = 1 TMP\_261 = 0 not(TMP\_261) = 1 TMP\_262 = 0 TMP\_263 = 1 not(TMP\_263) = 0 TMP\_264 = 1 not(TMP\_264) = 0 TMP\_265 = 2 TMP\_266 = 0 not(TMP\_266) = 1 TMP\_267 = 0 not(TMP\_267) = 1 TMP\_268 = 1 not(TMP\_268) = 0 TMP\_269 = 1 not(TMP\_269) = 0 TMP\_270 = 1 not(TMP\_270) = 0 TMP\_271 = 2 TMP\_272 = 0 not(TMP\_272) = 1 TMP\_273 = 1 not(TMP\_273) = 0 TMP\_274 = 1 not(TMP\_274) = 0 TMP\_275 = 1 not(TMP\_275) = 0 TMP\_276 = 3 TMP\_277 = 0 not(TMP\_277) = 1 TMP\_278 = 0 not(TMP\_278) = 1 TMP\_279 = 0 TMP\_280 = 1 not(TMP\_280) = 0 TMP\_281 = 1 not(TMP\_281) = 0 TMP\_282 = 2 TMP\_283 = 0 not(TMP\_283) = 1 TMP\_284 = 0 not(TMP\_284) = 1 TMP\_285 = 1 not(TMP\_285) = 0 TMP\_286 = 1 not(TMP\_286) = 0 TMP\_287 = 1 not(TMP\_287) = 0 TMP\_288 = 2 TMP\_289 = 1 not(TMP\_289) = 0 TMP\_290 = 1 not(TMP\_290) = 0 TMP\_291 = 1 not(TMP\_291) = 0 TMP\_292 = 0 not(TMP\_292) = 1 TMP\_293 = 3 TMP\_294 = 0 not(TMP\_294) = 1 TMP\_295 = 0 not(TMP\_295) = 1 TMP\_296 = 0 TMP\_297 = 1 not(TMP\_297) = 0 TMP\_298 = 1 not(TMP\_298) = 0 TMP\_299 = 2 TMP\_300 = 0 not(TMP\_300) = 1 TMP\_301 = 0 not(TMP\_301) = 1 TMP\_302 = 1 not(TMP\_302) = 0 TMP\_303 = 1 not(TMP\_303) = 0 TMP\_304 = 1 not(TMP\_304) = 0 TMP\_305 = 2 TMP\_306 = 0 not(TMP\_306) = 1 TMP\_307 = 1 not(TMP\_307) = 0 TMP\_308 = 1 not(TMP\_308) = 0 TMP\_309 = 0 not(TMP\_309) = 1 TMP\_310 = 2 TMP\_311 = 0 not(TMP\_311) = 1 TMP\_312 = 0 not(TMP\_312) = 1 TMP\_313 = 0 TMP\_314 = 1 not(TMP\_314) = 0 TMP\_315 = 1 not(TMP\_315) = 0 TMP\_316 = 2 TMP\_317 = 0 not(TMP\_317) = 1 TMP\_318 = 0 not(TMP\_318) = 1 TMP\_319 = 1 not(TMP\_319) = 0 TMP\_320 = 1 not(TMP\_320) = 0 TMP\_321 = 1 not(TMP\_321) = 0 TMP\_322 = 2 TMP\_323 = 1 not(TMP\_323) = 0 TMP\_324 = 1 not(TMP\_324) = 0 TMP\_325 = 1 not(TMP\_325) = 0 TMP\_326 = 0 not(TMP\_326) = 1 TMP\_327 = 3 TMP\_328 = 0 not(TMP\_328) = 1 TMP\_329 = 0 not(TMP\_329) = 1 TMP\_330 = 0 TMP\_331 = 1 not(TMP\_331) = 0 TMP\_332 = 1 not(TMP\_332) = 0 TMP\_333 = 2 TMP\_334 = 0 not(TMP\_334) = 1 TMP\_335 = 0 not(TMP\_335) = 1 TMP\_336 = 1 not(TMP\_336) = 0 TMP\_337 = 1 not(TMP\_337) = 0 TMP\_338 = 1 not(TMP\_338) = 0 TMP\_339 = 2 TMP\_340 = 0 not(TMP\_340) = 1 TMP\_341 = 1 not(TMP\_341) = 0 TMP\_342 = 1 not(TMP\_342) = 0 TMP\_343 = 1 not(TMP\_343) = 0 TMP\_344 = 3 TMP\_345 = 0 not(TMP\_345) = 1 TMP\_346 = 0 not(TMP\_346) = 1 TMP\_347 = 0 TMP\_348 = 1 not(TMP\_348) = 0 TMP\_349 = 1 not(TMP\_349) = 0 TMP\_350 = 2 TMP\_351 = 0 not(TMP\_351) = 1 TMP\_352 = 0 not(TMP\_352) = 1 TMP\_353 = 1 not(TMP\_353) = 0 TMP\_354 = 1 not(TMP\_354) = 0 TMP\_355 = 1 not(TMP\_355) = 0 TMP\_356 = 2 TMP\_357 = 1 not(TMP\_357) = 0 TMP\_358 = 1 not(TMP\_358) = 0 TMP\_359 = 0 not(TMP\_359) = 1 TMP\_360 = 1 not(TMP\_360) = 0 TMP\_361 = 3 TMP\_362 = 0 not(TMP\_362) = 1 TMP\_363 = 0 not(TMP\_363) = 1 TMP\_364 = 0 TMP\_365 = 1 not(TMP\_365) = 0 TMP\_366 = 1 not(TMP\_366) = 0 TMP\_367 = 2 TMP\_368 = 0 not(TMP\_368) = 1 TMP\_369 = 0 not(TMP\_369) = 1 TMP\_370 = 1 not(TMP\_370) = 0 TMP\_371 = 1 not(TMP\_371) = 0 TMP\_372 = 1 not(TMP\_372) = 0 TMP\_373 = 2 TMP\_374 = 0 not(TMP\_374) = 1 TMP\_375 = 1 not(TMP\_375) = 0 TMP\_376 = 1 not(TMP\_376) = 0 TMP\_377 = 1 not(TMP\_377) = 0 TMP\_378 = 3 TMP\_379 = 0 not(TMP\_379) = 1 TMP\_380 = 0 not(TMP\_380) = 1 TMP\_381 = 0 TMP\_382 = 1 not(TMP\_382) = 0 TMP\_383 = 1 not(TMP\_383) = 0 TMP\_384 = 2 TMP\_385 = 0 not(TMP\_385) = 1 TMP\_386 = 0 not(TMP\_386) = 1 TMP\_387 = 1 not(TMP\_387) = 0 TMP\_388 = 1 not(TMP\_388) = 0 TMP\_389 = 1 not(TMP\_389) = 0 TMP\_390 = 2 TMP\_391 = 1 not(TMP\_391) = 0 TMP\_392 = 1 not(TMP\_392) = 0 TMP\_393 = 0 not(TMP\_393) = 1 TMP\_394 = 1 not(TMP\_394) = 0 TMP\_395 = 3 TMP\_396 = 0 not(TMP\_396) = 1 TMP\_397 = 0 not(TMP\_397) = 1 TMP\_398 = 0 TMP\_399 = 1 not(TMP\_399) = 0 TMP\_400 = 1 not(TMP\_400) = 0 TMP\_401 = 2 TMP\_402 = 0 not(TMP\_402) = 1 TMP\_403 = 0 not(TMP\_403) = 1 TMP\_404 = 1 not(TMP\_404) = 0 TMP\_405 = 1 not(TMP\_405) = 0 TMP\_406 = 1 not(TMP\_406) = 0 TMP\_407 = 2 TMP\_408 = 1 not(TMP\_408) = 0 TMP\_409 = 1 not(TMP\_409) = 0 TMP\_410 = 0 not(TMP\_410) = 1 TMP\_411 = 1 not(TMP\_411) = 0 TMP\_412 = 3 TMP\_413 = 0 not(TMP\_413) = 1 TMP\_414 = 0 not(TMP\_414) = 1 TMP\_415 = 0 TMP\_416 = 1 not(TMP\_416) = 0 TMP\_417 = 1 not(TMP\_417) = 0 TMP\_418 = 2 TMP\_419 = 0 not(TMP\_419) = 1 TMP\_420 = 0 not(TMP\_420) = 1 TMP\_421 = 1 not(TMP\_421) = 0 TMP\_422 = 1 not(TMP\_422) = 0 TMP\_423 = 1 not(TMP\_423) = 0 TMP\_424 = 2 TMP\_425 = 0 not(TMP\_425) = 1 TMP\_426 = 1 not(TMP\_426) = 0 TMP\_427 = 1 not(TMP\_427) = 0 TMP\_428 = 1 not(TMP\_428) = 0 TMP\_429 = 3 TMP\_430 = 0 not(TMP\_430) = 1 TMP\_431 = 0 not(TMP\_431) = 1 TMP\_432 = 0 TMP\_433 = 1 not(TMP\_433) = 0 TMP\_434 = 1 not(TMP\_434) = 0 TMP\_435 = 2 TMP\_436 = 0 not(TMP\_436) = 1 TMP\_437 = 0 not(TMP\_437) = 1 TMP\_438 = 1 not(TMP\_438) = 0 TMP\_439 = 1 not(TMP\_439) = 0 TMP\_440 = 1 not(TMP\_440) = 0 TMP\_441 = 2 TMP\_442 = 1 not(TMP\_442) = 0 TMP\_443 = 1 not(TMP\_443) = 0 TMP\_444 = 0 not(TMP\_444) = 1 TMP\_445 = 1 not(TMP\_445) = 0 TMP\_446 = 3 TMP\_447 = 0 not(TMP\_447) = 1 TMP\_448 = 0 not(TMP\_448) = 1 TMP\_449 = 0 TMP\_450 = 1 not(TMP\_450) = 0 TMP\_451 = 1 not(TMP\_451) = 0 TMP\_452 = 2 TMP\_453 = 0 not(TMP\_453) = 1 TMP\_454 = 0 not(TMP\_454) = 1 TMP\_455 = 1 not(TMP\_455) = 0 TMP\_456 = 1 not(TMP\_456) = 0 TMP\_457 = 1 not(TMP\_457) = 0 TMP\_458 = 2 TMP\_459 = 0 not(TMP\_459) = 1 TMP\_460 = 1 not(TMP\_460) = 0 TMP\_461 = 0 not(TMP\_461) = 1 TMP\_462 = 1 not(TMP\_462) = 0 TMP\_463 = 2 TMP\_464 = 0 not(TMP\_464) = 1 TMP\_465 = 0 not(TMP\_465) = 1 TMP\_466 = 0 TMP\_467 = 1 not(TMP\_467) = 0 TMP\_468 = 1 not(TMP\_468) = 0 TMP\_469 = 2 TMP\_470 = 0 not(TMP\_470) = 1 TMP\_471 = 0 not(TMP\_471) = 1 TMP\_472 = 1 not(TMP\_472) = 0 TMP\_473 = 1 not(TMP\_473) = 0 TMP\_474 = 1 not(TMP\_474) = 0 TMP\_475 = 2 TMP\_476 = 1 not(TMP\_476) = 0 TMP\_477 = 1 not(TMP\_477) = 0 TMP\_478 = 0 not(TMP\_478) = 1 TMP\_479 = 1 not(TMP\_479) = 0 TMP\_480 = 3 TMP\_481 = 0 not(TMP\_481) = 1 TMP\_482 = 0 not(TMP\_482) = 1 TMP\_483 = 0 TMP\_484 = 1 not(TMP\_484) = 0 TMP\_485 = 1 not(TMP\_485) = 0 TMP\_486 = 2 TMP\_487 = 0 not(TMP\_487) = 1 TMP\_488 = 0 not(TMP\_488) = 1 TMP\_489 = 1 not(TMP\_489) = 0 TMP\_490 = 1 not(TMP\_490) = 0 TMP\_491 = 1 not(TMP\_491) = 0 TMP\_492 = 2 TMP\_493 = 1 not(TMP\_493) = 0 TMP\_494 = 1 not(TMP\_494) = 0 TMP\_495 = 1 not(TMP\_495) = 0 TMP\_496 = 0 not(TMP\_496) = 1 TMP\_497 = 3 TMP\_498 = 0 not(TMP\_498) = 1 TMP\_499 = 0 not(TMP\_499) = 1 TMP\_500 = 0 TMP\_501 = 1 not(TMP\_501) = 0 TMP\_502 = 1 not(TMP\_502) = 0 TMP\_503 = 2 TMP\_504 = 0 not(TMP\_504) = 1 TMP\_505 = 0 not(TMP\_505) = 1 TMP\_506 = 1 not(TMP\_506) = 0 TMP\_507 = 1 not(TMP\_507) = 0 TMP\_508 = 1 not(TMP\_508) = 0 TMP\_509 = 2 TMP\_510 = 1 not(TMP\_510) = 0 TMP\_511 = 0 not(TMP\_511) = 1 TMP\_512 = 1 not(TMP\_512) = 0 TMP\_513 = 1 not(TMP\_513) = 0 TMP\_514 = 3 TMP\_515 = 0 not(TMP\_515) = 1 TMP\_516 = 0 not(TMP\_516) = 1 TMP\_517 = 0 TMP\_518 = 1 not(TMP\_518) = 0 TMP\_519 = 1 not(TMP\_519) = 0 TMP\_520 = 2 TMP\_521 = 0 not(TMP\_521) = 1 TMP\_522 = 0 not(TMP\_522) = 1 TMP\_523 = 1 not(TMP\_523) = 0 TMP\_524 = 1 not(TMP\_524) = 0 TMP\_525 = 1 not(TMP\_525) = 0 TMP\_526 = 2 TMP\_527 = 1 not(TMP\_527) = 0 TMP\_528 = 0 not(TMP\_528) = 1 TMP\_529 = 1 not(TMP\_529) = 0 TMP\_530 = 1 not(TMP\_530) = 0 TMP\_531 = 3 TMP\_532 = 0 not(TMP\_532) = 1 TMP\_533 = 0 not(TMP\_533) = 1 TMP\_534 = 0 TMP\_535 = 1 not(TMP\_535) = 0 TMP\_536 = 1 not(TMP\_536) = 0 TMP\_537 = 2 TMP\_538 = 0 not(TMP\_538) = 1 TMP\_539 = 0 not(TMP\_539) = 1 TMP\_540 = 1 not(TMP\_540) = 0 TMP\_541 = 1 not(TMP\_541) = 0 TMP\_542 = 1 not(TMP\_542) = 0 TMP\_543 = 2 TMP\_544 = 1 not(TMP\_544) = 0 TMP\_545 = 1 not(TMP\_545) = 0 TMP\_546 = 1 not(TMP\_546) = 0 TMP\_547 = 0 not(TMP\_547) = 1 TMP\_548 = 3 TMP\_549 = 0 not(TMP\_549) = 1 TMP\_550 = 0 not(TMP\_550) = 1 TMP\_551 = 0 TMP\_552 = 1 not(TMP\_552) = 0 TMP\_553 = 1 not(TMP\_553) = 0 TMP\_554 = 2 TMP\_555 = 0 not(TMP\_555) = 1 TMP\_556 = 0 not(TMP\_556) = 1 TMP\_557 = 1 not(TMP\_557) = 0 TMP\_558 = 1 not(TMP\_558) = 0 TMP\_559 = 1 not(TMP\_559) = 0 TMP\_560 = 2 TMP\_561 = 1 not(TMP\_561) = 0 TMP\_562 = 0 not(TMP\_562) = 1 TMP\_563 = 1 not(TMP\_563) = 0 TMP\_564 = 1 not(TMP\_564) = 0 TMP\_565 = 3 TMP\_566 = 0 not(TMP\_566) = 1 TMP\_567 = 0 not(TMP\_567) = 1 TMP\_568 = 0 TMP\_569 = 1 not(TMP\_569) = 0 TMP\_570 = 1 not(TMP\_570) = 0 TMP\_571 = 2 TMP\_572 = 0 not(TMP\_572) = 1 TMP\_573 = 0 not(TMP\_573) = 1 TMP\_574 = 1 not(TMP\_574) = 0 TMP\_575 = 1 not(TMP\_575) = 0 TMP\_576 = 1 not(TMP\_576) = 0 TMP\_577 = 2 TMP\_578 = 1 not(TMP\_578) = 0 TMP\_579 = 0 not(TMP\_579) = 1 TMP\_580 = 1 not(TMP\_580) = 0 TMP\_581 = 0 not(TMP\_581) = 1 TMP\_582 = 2 TMP\_583 = 0 not(TMP\_583) = 1 TMP\_584 = 0 not(TMP\_584) = 1 TMP\_585 = 0 TMP\_586 = 1 not(TMP\_586) = 0 TMP\_587 = 1 not(TMP\_587) = 0 TMP\_588 = 2 TMP\_589 = 0 not(TMP\_589) = 1 TMP\_590 = 0 not(TMP\_590) = 1 TMP\_591 = 1 not(TMP\_591) = 0 TMP\_592 = 1 not(TMP\_592) = 0 TMP\_593 = 1 not(TMP\_593) = 0 TMP\_594 = 2 Area\_0 = 10000 Distance\_0\_Rule\_0 = 100 Distance\_1\_Rule\_0 = 100 Area\_1 = 5000 Distance\_0\_Rule\_1 = 50 Distance\_1\_Rule\_1 = 100 Area\_2 = 25000 Distance\_0\_Rule\_2 = 100 Distance\_1\_Rule\_2 = 250 Area\_3 = 20000 -(Rule\_3\_LB) = -50 Distance\_0\_Rule\_3 = 200 -(Rule\_3\_LB) = -300 Distance\_1\_Rule\_3 = 100 Area\_4 = 2500 -(Rule\_4\_LB) = 0 Distance\_0\_Rule\_4 = 25 -(Rule\_4\_LB) = -400 Distance\_1\_Rule\_4 = 100 Area\_5 = 30000 -(Rule\_5\_LB) = -150 Distance\_0\_Rule\_5 = 100 -(Rule\_5\_LB) = 0 Distance\_1\_Rule\_5 = 300 Area\_6 = 17500 -(Rule\_6\_LB) = -75 Distance\_0\_Rule\_6 = 175 -(Rule\_6\_LB) = -400 Distance\_1\_Rule\_6 = 100 Area\_7 = 15000 -(Rule\_7\_LB) = 0 Distance\_0\_Rule\_7 = 50 -(Rule\_7\_LB) = -100 Distance\_1\_Rule\_7 = 300 TMP\_595 = 125000 .

- Solution #7 found. 7 Solutions, Resolution 0.919s, 4686 Nodes (5,099.1 n/s), 9190 Backtracks, 4647 Fails, 0 Restarts

Rule\_3\_LB = 50 Rule\_3\_UB = 250 Rule\_3\_LB = 300 Rule\_3\_UB = 400 Rule\_4\_LB = 0 Rule\_4\_UB = 25 Rule\_4\_LB = 400 Rule\_4\_UB = 500 Rule\_5\_LB = 150 Rule\_5\_UB = 250 Rule\_5\_LB = 0 Rule\_5\_UB = 300 Rule\_6\_LB = 75 Rule\_6\_UB = 250 Rule\_6\_LB = 400 Rule\_6\_UB = 500 Rule\_7\_LB = 0 Rule\_7\_UB = 50 Rule\_7\_LB = 100 Rule\_7\_UB = 400 Overlaps\_0\_0 = 0 Overlaps\_0\_1 = 0 Overlaps\_0\_2 = 1 Overlaps\_0\_3 = 0 Overlaps\_0\_4 = 0 Overlaps\_0\_5 = 0 Overlaps\_0\_6 = 0 Overlaps\_0\_7 = 0 Overlaps\_1\_0 = 0 Overlaps\_1\_1 = 0 Overlaps\_1\_2 = 0 Overlaps\_1\_3 = 0 Overlaps\_1\_4 = 0 Overlaps\_1\_5 = 0 Overlaps\_1\_6 = 0 Overlaps\_1\_7 = 0 Overlaps\_2\_0 = 1 Overlaps\_2\_1 = 0 Overlaps\_2\_2 = 0 Overlaps\_2\_3 = 0 Overlaps\_2\_4 = 0 Overlaps\_2\_5 = 0 Overlaps\_2\_6 = 0 Overlaps\_2\_7 = 0 Overlaps\_3\_0 = 0 Overlaps\_3\_1 = 0 Overlaps\_3\_2 = 0 Overlaps\_3\_3 = 0 Overlaps\_3\_4 = 0 Overlaps\_3\_5 = 0 Overlaps\_3\_6 = 0 Overlaps\_3\_7 = 0 Overlaps\_4\_0 = 0 Overlaps\_4\_1 = 0 Overlaps\_4\_2 = 0 Overlaps\_4\_3 = 0 Overlaps\_4\_4 = 0 Overlaps\_4\_5 = 0 Overlaps\_4\_6 = 0 Overlaps\_4\_7 = 0 Overlaps\_5\_0 = 0 Overlaps\_5\_1 = 0 Overlaps\_5\_2 = 0 Overlaps\_5\_3 = 0 Overlaps\_5\_4 = 0 Overlaps\_5\_5 = 0 Overlaps\_5\_6 = 0 Overlaps\_5\_7 = 0 Overlaps\_6\_0 = 0 Overlaps\_6\_1 = 0 Overlaps\_6\_2 = 0 Overlaps\_6\_3 = 0 Overlaps\_6\_4 = 0 Overlaps\_6\_5 = 0 Overlaps\_6\_6 = 0 Overlaps\_6\_7 = 0 Overlaps\_7\_0 = 0 Overlaps\_7\_1 = 0 Overlaps\_7\_2 = 0 Overlaps\_7\_3 = 0 Overlaps\_7\_4 = 0 Overlaps\_7\_5 = 0 Overlaps\_7\_6 = 0 Overlaps\_7\_7 = 0 TMP\_0 = 1 not(TMP\_0) = 0 TMP\_1 = 1 not(TMP\_1) = 0 TMP\_2 = 0 not(TMP\_2) = 1 TMP\_3 = 1 not(TMP\_3) = 0 TMP\_4 = 3 TMP\_5 = 0 not(TMP\_5) = 1 TMP\_6 = 0 not(TMP\_6) = 1 TMP\_7 = 0 TMP\_8 = 1 not(TMP\_8) = 0 TMP\_9 = 1 not(TMP\_9) = 0 TMP\_10 = 2 TMP\_11 = 0 not(TMP\_11) = 1 TMP\_12 = 0 not(TMP\_12) = 1 TMP\_13 = 1 not(TMP\_13) = 0 TMP\_14 = 1 not(TMP\_14) = 0 TMP\_15 = 1 not(TMP\_15) = 0 TMP\_16 = 2 TMP\_17 = 1 not(TMP\_17) = 0 TMP\_18 = 1 not(TMP\_18) = 0 TMP\_19 = 1 not(TMP\_19) = 0 TMP\_20 = 0 not(TMP\_20) = 1 TMP\_21 = 3 TMP\_22 = 0 not(TMP\_22) = 1 TMP\_23 = 0 not(TMP\_23) = 1 TMP\_24 = 0 TMP\_25 = 1 not(TMP\_25) = 0 TMP\_26 = 1 not(TMP\_26) = 0 TMP\_27 = 2 TMP\_28 = 0 not(TMP\_28) = 1 TMP\_29 = 0 not(TMP\_29) = 1 TMP\_30 = 1 not(TMP\_30) = 0 TMP\_31 = 1 not(TMP\_31) = 0 TMP\_32 = 1 not(TMP\_32) = 0 TMP\_33 = 2 TMP\_34 = 1 not(TMP\_34) = 0 TMP\_35 = 1 not(TMP\_35) = 0 TMP\_36 = 0 not(TMP\_36) = 1 TMP\_37 = 1 not(TMP\_37) = 0 TMP\_38 = 3 TMP\_39 = 0 not(TMP\_39) = 1 TMP\_40 = 0 not(TMP\_40) = 1 TMP\_41 = 0 TMP\_42 = 1 not(TMP\_42) = 0 TMP\_43 = 1 not(TMP\_43) = 0 TMP\_44 = 2 TMP\_45 = 0 not(TMP\_45) = 1 TMP\_46 = 0 not(TMP\_46) = 1 TMP\_47 = 1 not(TMP\_47) = 0 TMP\_48 = 1 not(TMP\_48) = 0 TMP\_49 = 1 not(TMP\_49) = 0 TMP\_50 = 2 TMP\_51 = 0 not(TMP\_51) = 1 TMP\_52 = 1 not(TMP\_52) = 0 TMP\_53 = 1 not(TMP\_53) = 0 TMP\_54 = 0 not(TMP\_54) = 1 TMP\_55 = 2 TMP\_56 = 0 not(TMP\_56) = 1 TMP\_57 = 0 not(TMP\_57) = 1 TMP\_58 = 0 TMP\_59 = 1 not(TMP\_59) = 0 TMP\_60 = 1 not(TMP\_60) = 0 TMP\_61 = 2 TMP\_62 = 0 not(TMP\_62) = 1 TMP\_63 = 0 not(TMP\_63) = 1 TMP\_64 = 1 not(TMP\_64) = 0 TMP\_65 = 1 not(TMP\_65) = 0 TMP\_66 = 1 not(TMP\_66) = 0 TMP\_67 = 2 TMP\_68 = 1 not(TMP\_68) = 0 TMP\_69 = 1 not(TMP\_69) = 0 TMP\_70 = 0 not(TMP\_70) = 1 TMP\_71 = 1 not(TMP\_71) = 0 TMP\_72 = 3 TMP\_73 = 0 not(TMP\_73) = 1 TMP\_74 = 0 not(TMP\_74) = 1 TMP\_75 = 0 TMP\_76 = 1 not(TMP\_76) = 0 TMP\_77 = 1 not(TMP\_77) = 0 TMP\_78 = 2 TMP\_79 = 0 not(TMP\_79) = 1 TMP\_80 = 0 not(TMP\_80) = 1 TMP\_81 = 1 not(TMP\_81) = 0 TMP\_82 = 1 not(TMP\_82) = 0 TMP\_83 = 1 not(TMP\_83) = 0 TMP\_84 = 2 TMP\_85 = 1 not(TMP\_85) = 0 TMP\_86 = 1 not(TMP\_86) = 0 TMP\_87 = 1 not(TMP\_87) = 0 TMP\_88 = 0 not(TMP\_88) = 1 TMP\_89 = 3 TMP\_90 = 0 not(TMP\_90) = 1 TMP\_91 = 0 not(TMP\_91) = 1 TMP\_92 = 0 TMP\_93 = 1 not(TMP\_93) = 0 TMP\_94 = 1 not(TMP\_94) = 0 TMP\_95 = 2 TMP\_96 = 0 not(TMP\_96) = 1 TMP\_97 = 0 not(TMP\_97) = 1 TMP\_98 = 1 not(TMP\_98) = 0 TMP\_99 = 1 not(TMP\_99) = 0 TMP\_100 = 1 not(TMP\_100) = 0 TMP\_101 = 2 TMP\_102 = 0 not(TMP\_102) = 1 TMP\_103 = 1 not(TMP\_103) = 0 TMP\_104 = 1 not(TMP\_104) = 0 TMP\_105 = 1 not(TMP\_105) = 0 TMP\_106 = 3 TMP\_107 = 0 not(TMP\_107) = 1 TMP\_108 = 0 not(TMP\_108) = 1 TMP\_109 = 0 TMP\_110 = 1 not(TMP\_110) = 0 TMP\_111 = 1 not(TMP\_111) = 0 TMP\_112 = 2 TMP\_113 = 0 not(TMP\_113) = 1 TMP\_114 = 0 not(TMP\_114) = 1 TMP\_115 = 1 not(TMP\_115) = 0 TMP\_116 = 1 not(TMP\_116) = 0 TMP\_117 = 1 not(TMP\_117) = 0 TMP\_118 = 2 TMP\_119 = 1 not(TMP\_119) = 0 TMP\_120 = 1 not(TMP\_120) = 0 TMP\_121 = 0 not(TMP\_121) = 1 TMP\_122 = 1 not(TMP\_122) = 0 TMP\_123 = 3 TMP\_124 = 0 not(TMP\_124) = 1 TMP\_125 = 0 not(TMP\_125) = 1 TMP\_126 = 0 TMP\_127 = 1 not(TMP\_127) = 0 TMP\_128 = 1 not(TMP\_128) = 0 TMP\_129 = 2 TMP\_130 = 0 not(TMP\_130) = 1 TMP\_131 = 0 not(TMP\_131) = 1 TMP\_132 = 1 not(TMP\_132) = 0 TMP\_133 = 1 not(TMP\_133) = 0 TMP\_134 = 1 not(TMP\_134) = 0 TMP\_135 = 2 TMP\_136 = 1 not(TMP\_136) = 0 TMP\_137 = 0 not(TMP\_137) = 1 TMP\_138 = 1 not(TMP\_138) = 0 TMP\_139 = 1 not(TMP\_139) = 0 TMP\_140 = 3 TMP\_141 = 0 not(TMP\_141) = 1 TMP\_142 = 0 not(TMP\_142) = 1 TMP\_143 = 0 TMP\_144 = 1 not(TMP\_144) = 0 TMP\_145 = 1 not(TMP\_145) = 0 TMP\_146 = 2 TMP\_147 = 0 not(TMP\_147) = 1 TMP\_148 = 0 not(TMP\_148) = 1 TMP\_149 = 1 not(TMP\_149) = 0 TMP\_150 = 1 not(TMP\_150) = 0 TMP\_151 = 1 not(TMP\_151) = 0 TMP\_152 = 2 TMP\_153 = 1 not(TMP\_153) = 0 TMP\_154 = 0 not(TMP\_154) = 1 TMP\_155 = 0 not(TMP\_155) = 1 TMP\_156 = 1 not(TMP\_156) = 0 TMP\_157 = 2 TMP\_158 = 0 not(TMP\_158) = 1 TMP\_159 = 0 not(TMP\_159) = 1 TMP\_160 = 0 TMP\_161 = 1 not(TMP\_161) = 0 TMP\_162 = 1 not(TMP\_162) = 0 TMP\_163 = 2 TMP\_164 = 0 not(TMP\_164) = 1 TMP\_165 = 0 not(TMP\_165) = 1 TMP\_166 = 1 not(TMP\_166) = 0 TMP\_167 = 1 not(TMP\_167) = 0 TMP\_168 = 1 not(TMP\_168) = 0 TMP\_169 = 2 TMP\_170 = 1 not(TMP\_170) = 0 TMP\_171 = 0 not(TMP\_171) = 1 TMP\_172 = 0 not(TMP\_172) = 1 TMP\_173 = 1 not(TMP\_173) = 0 TMP\_174 = 2 TMP\_175 = 0 not(TMP\_175) = 1 TMP\_176 = 0 not(TMP\_176) = 1 TMP\_177 = 0 TMP\_178 = 1 not(TMP\_178) = 0 TMP\_179 = 1 not(TMP\_179) = 0 TMP\_180 = 2 TMP\_181 = 0 not(TMP\_181) = 1 TMP\_182 = 0 not(TMP\_182) = 1 TMP\_183 = 1 not(TMP\_183) = 0 TMP\_184 = 1 not(TMP\_184) = 0 TMP\_185 = 1 not(TMP\_185) = 0 TMP\_186 = 2 TMP\_187 = 1 not(TMP\_187) = 0 TMP\_188 = 0 not(TMP\_188) = 1 TMP\_189 = 0 not(TMP\_189) = 1 TMP\_190 = 1 not(TMP\_190) = 0 TMP\_191 = 2 TMP\_192 = 0 not(TMP\_192) = 1 TMP\_193 = 0 not(TMP\_193) = 1 TMP\_194 = 0 TMP\_195 = 1 not(TMP\_195) = 0 TMP\_196 = 1 not(TMP\_196) = 0 TMP\_197 = 2 TMP\_198 = 0 not(TMP\_198) = 1 TMP\_199 = 0 not(TMP\_199) = 1 TMP\_200 = 1 not(TMP\_200) = 0 TMP\_201 = 1 not(TMP\_201) = 0 TMP\_202 = 1 not(TMP\_202) = 0 TMP\_203 = 2 TMP\_204 = 1 not(TMP\_204) = 0 TMP\_205 = 0 not(TMP\_205) = 1 TMP\_206 = 1 not(TMP\_206) = 0 TMP\_207 = 1 not(TMP\_207) = 0 TMP\_208 = 3 TMP\_209 = 0 not(TMP\_209) = 1 TMP\_210 = 0 not(TMP\_210) = 1 TMP\_211 = 0 TMP\_212 = 1 not(TMP\_212) = 0 TMP\_213 = 1 not(TMP\_213) = 0 TMP\_214 = 2 TMP\_215 = 0 not(TMP\_215) = 1 TMP\_216 = 0 not(TMP\_216) = 1 TMP\_217 = 1 not(TMP\_217) = 0 TMP\_218 = 1 not(TMP\_218) = 0 TMP\_219 = 1 not(TMP\_219) = 0 TMP\_220 = 2 TMP\_221 = 1 not(TMP\_221) = 0 TMP\_222 = 1 not(TMP\_222) = 0 TMP\_223 = 0 not(TMP\_223) = 1 TMP\_224 = 1 not(TMP\_224) = 0 TMP\_225 = 3 TMP\_226 = 0 not(TMP\_226) = 1 TMP\_227 = 0 not(TMP\_227) = 1 TMP\_228 = 0 TMP\_229 = 1 not(TMP\_229) = 0 TMP\_230 = 1 not(TMP\_230) = 0 TMP\_231 = 2 TMP\_232 = 0 not(TMP\_232) = 1 TMP\_233 = 0 not(TMP\_233) = 1 TMP\_234 = 1 not(TMP\_234) = 0 TMP\_235 = 1 not(TMP\_235) = 0 TMP\_236 = 1 not(TMP\_236) = 0 TMP\_237 = 2 TMP\_238 = 0 not(TMP\_238) = 1 TMP\_239 = 1 not(TMP\_239) = 0 TMP\_240 = 1 not(TMP\_240) = 0 TMP\_241 = 1 not(TMP\_241) = 0 TMP\_242 = 3 TMP\_243 = 0 not(TMP\_243) = 1 TMP\_244 = 0 not(TMP\_244) = 1 TMP\_245 = 0 TMP\_246 = 1 not(TMP\_246) = 0 TMP\_247 = 1 not(TMP\_247) = 0 TMP\_248 = 2 TMP\_249 = 0 not(TMP\_249) = 1 TMP\_250 = 0 not(TMP\_250) = 1 TMP\_251 = 1 not(TMP\_251) = 0 TMP\_252 = 1 not(TMP\_252) = 0 TMP\_253 = 1 not(TMP\_253) = 0 TMP\_254 = 2 TMP\_255 = 0 not(TMP\_255) = 1 TMP\_256 = 1 not(TMP\_256) = 0 TMP\_257 = 1 not(TMP\_257) = 0 TMP\_258 = 0 not(TMP\_258) = 1 TMP\_259 = 2 TMP\_260 = 0 not(TMP\_260) = 1 TMP\_261 = 0 not(TMP\_261) = 1 TMP\_262 = 0 TMP\_263 = 1 not(TMP\_263) = 0 TMP\_264 = 1 not(TMP\_264) = 0 TMP\_265 = 2 TMP\_266 = 0 not(TMP\_266) = 1 TMP\_267 = 0 not(TMP\_267) = 1 TMP\_268 = 1 not(TMP\_268) = 0 TMP\_269 = 1 not(TMP\_269) = 0 TMP\_270 = 1 not(TMP\_270) = 0 TMP\_271 = 2 TMP\_272 = 0 not(TMP\_272) = 1 TMP\_273 = 1 not(TMP\_273) = 0 TMP\_274 = 1 not(TMP\_274) = 0 TMP\_275 = 1 not(TMP\_275) = 0 TMP\_276 = 3 TMP\_277 = 0 not(TMP\_277) = 1 TMP\_278 = 0 not(TMP\_278) = 1 TMP\_279 = 0 TMP\_280 = 1 not(TMP\_280) = 0 TMP\_281 = 1 not(TMP\_281) = 0 TMP\_282 = 2 TMP\_283 = 0 not(TMP\_283) = 1 TMP\_284 = 0 not(TMP\_284) = 1 TMP\_285 = 1 not(TMP\_285) = 0 TMP\_286 = 1 not(TMP\_286) = 0 TMP\_287 = 1 not(TMP\_287) = 0 TMP\_288 = 2 TMP\_289 = 1 not(TMP\_289) = 0 TMP\_290 = 1 not(TMP\_290) = 0 TMP\_291 = 1 not(TMP\_291) = 0 TMP\_292 = 0 not(TMP\_292) = 1 TMP\_293 = 3 TMP\_294 = 0 not(TMP\_294) = 1 TMP\_295 = 0 not(TMP\_295) = 1 TMP\_296 = 0 TMP\_297 = 1 not(TMP\_297) = 0 TMP\_298 = 1 not(TMP\_298) = 0 TMP\_299 = 2 TMP\_300 = 0 not(TMP\_300) = 1 TMP\_301 = 0 not(TMP\_301) = 1 TMP\_302 = 1 not(TMP\_302) = 0 TMP\_303 = 1 not(TMP\_303) = 0 TMP\_304 = 1 not(TMP\_304) = 0 TMP\_305 = 2 TMP\_306 = 0 not(TMP\_306) = 1 TMP\_307 = 1 not(TMP\_307) = 0 TMP\_308 = 1 not(TMP\_308) = 0 TMP\_309 = 0 not(TMP\_309) = 1 TMP\_310 = 2 TMP\_311 = 0 not(TMP\_311) = 1 TMP\_312 = 0 not(TMP\_312) = 1 TMP\_313 = 0 TMP\_314 = 1 not(TMP\_314) = 0 TMP\_315 = 1 not(TMP\_315) = 0 TMP\_316 = 2 TMP\_317 = 0 not(TMP\_317) = 1 TMP\_318 = 0 not(TMP\_318) = 1 TMP\_319 = 1 not(TMP\_319) = 0 TMP\_320 = 1 not(TMP\_320) = 0 TMP\_321 = 1 not(TMP\_321) = 0 TMP\_322 = 2 TMP\_323 = 1 not(TMP\_323) = 0 TMP\_324 = 1 not(TMP\_324) = 0 TMP\_325 = 1 not(TMP\_325) = 0 TMP\_326 = 0 not(TMP\_326) = 1 TMP\_327 = 3 TMP\_328 = 0 not(TMP\_328) = 1 TMP\_329 = 0 not(TMP\_329) = 1 TMP\_330 = 0 TMP\_331 = 1 not(TMP\_331) = 0 TMP\_332 = 1 not(TMP\_332) = 0 TMP\_333 = 2 TMP\_334 = 0 not(TMP\_334) = 1 TMP\_335 = 0 not(TMP\_335) = 1 TMP\_336 = 1 not(TMP\_336) = 0 TMP\_337 = 1 not(TMP\_337) = 0 TMP\_338 = 1 not(TMP\_338) = 0 TMP\_339 = 2 TMP\_340 = 0 not(TMP\_340) = 1 TMP\_341 = 1 not(TMP\_341) = 0 TMP\_342 = 1 not(TMP\_342) = 0 TMP\_343 = 1 not(TMP\_343) = 0 TMP\_344 = 3 TMP\_345 = 0 not(TMP\_345) = 1 TMP\_346 = 0 not(TMP\_346) = 1 TMP\_347 = 0 TMP\_348 = 1 not(TMP\_348) = 0 TMP\_349 = 1 not(TMP\_349) = 0 TMP\_350 = 2 TMP\_351 = 0 not(TMP\_351) = 1 TMP\_352 = 0 not(TMP\_352) = 1 TMP\_353 = 1 not(TMP\_353) = 0 TMP\_354 = 1 not(TMP\_354) = 0 TMP\_355 = 1 not(TMP\_355) = 0 TMP\_356 = 2 TMP\_357 = 1 not(TMP\_357) = 0 TMP\_358 = 1 not(TMP\_358) = 0 TMP\_359 = 0 not(TMP\_359) = 1 TMP\_360 = 1 not(TMP\_360) = 0 TMP\_361 = 3 TMP\_362 = 0 not(TMP\_362) = 1 TMP\_363 = 0 not(TMP\_363) = 1 TMP\_364 = 0 TMP\_365 = 1 not(TMP\_365) = 0 TMP\_366 = 1 not(TMP\_366) = 0 TMP\_367 = 2 TMP\_368 = 0 not(TMP\_368) = 1 TMP\_369 = 0 not(TMP\_369) = 1 TMP\_370 = 1 not(TMP\_370) = 0 TMP\_371 = 1 not(TMP\_371) = 0 TMP\_372 = 1 not(TMP\_372) = 0 TMP\_373 = 2 TMP\_374 = 0 not(TMP\_374) = 1 TMP\_375 = 1 not(TMP\_375) = 0 TMP\_376 = 1 not(TMP\_376) = 0 TMP\_377 = 1 not(TMP\_377) = 0 TMP\_378 = 3 TMP\_379 = 0 not(TMP\_379) = 1 TMP\_380 = 0 not(TMP\_380) = 1 TMP\_381 = 0 TMP\_382 = 1 not(TMP\_382) = 0 TMP\_383 = 1 not(TMP\_383) = 0 TMP\_384 = 2 TMP\_385 = 0 not(TMP\_385) = 1 TMP\_386 = 0 not(TMP\_386) = 1 TMP\_387 = 1 not(TMP\_387) = 0 TMP\_388 = 1 not(TMP\_388) = 0 TMP\_389 = 1 not(TMP\_389) = 0 TMP\_390 = 2 TMP\_391 = 1 not(TMP\_391) = 0 TMP\_392 = 1 not(TMP\_392) = 0 TMP\_393 = 0 not(TMP\_393) = 1 TMP\_394 = 1 not(TMP\_394) = 0 TMP\_395 = 3 TMP\_396 = 0 not(TMP\_396) = 1 TMP\_397 = 0 not(TMP\_397) = 1 TMP\_398 = 0 TMP\_399 = 1 not(TMP\_399) = 0 TMP\_400 = 1 not(TMP\_400) = 0 TMP\_401 = 2 TMP\_402 = 0 not(TMP\_402) = 1 TMP\_403 = 0 not(TMP\_403) = 1 TMP\_404 = 1 not(TMP\_404) = 0 TMP\_405 = 1 not(TMP\_405) = 0 TMP\_406 = 1 not(TMP\_406) = 0 TMP\_407 = 2 TMP\_408 = 1 not(TMP\_408) = 0 TMP\_409 = 1 not(TMP\_409) = 0 TMP\_410 = 0 not(TMP\_410) = 1 TMP\_411 = 1 not(TMP\_411) = 0 TMP\_412 = 3 TMP\_413 = 0 not(TMP\_413) = 1 TMP\_414 = 0 not(TMP\_414) = 1 TMP\_415 = 0 TMP\_416 = 1 not(TMP\_416) = 0 TMP\_417 = 1 not(TMP\_417) = 0 TMP\_418 = 2 TMP\_419 = 0 not(TMP\_419) = 1 TMP\_420 = 0 not(TMP\_420) = 1 TMP\_421 = 1 not(TMP\_421) = 0 TMP\_422 = 1 not(TMP\_422) = 0 TMP\_423 = 1 not(TMP\_423) = 0 TMP\_424 = 2 TMP\_425 = 0 not(TMP\_425) = 1 TMP\_426 = 1 not(TMP\_426) = 0 TMP\_427 = 1 not(TMP\_427) = 0 TMP\_428 = 1 not(TMP\_428) = 0 TMP\_429 = 3 TMP\_430 = 0 not(TMP\_430) = 1 TMP\_431 = 0 not(TMP\_431) = 1 TMP\_432 = 0 TMP\_433 = 1 not(TMP\_433) = 0 TMP\_434 = 1 not(TMP\_434) = 0 TMP\_435 = 2 TMP\_436 = 0 not(TMP\_436) = 1 TMP\_437 = 0 not(TMP\_437) = 1 TMP\_438 = 1 not(TMP\_438) = 0 TMP\_439 = 1 not(TMP\_439) = 0 TMP\_440 = 1 not(TMP\_440) = 0 TMP\_441 = 2 TMP\_442 = 1 not(TMP\_442) = 0 TMP\_443 = 1 not(TMP\_443) = 0 TMP\_444 = 0 not(TMP\_444) = 1 TMP\_445 = 1 not(TMP\_445) = 0 TMP\_446 = 3 TMP\_447 = 0 not(TMP\_447) = 1 TMP\_448 = 0 not(TMP\_448) = 1 TMP\_449 = 0 TMP\_450 = 1 not(TMP\_450) = 0 TMP\_451 = 1 not(TMP\_451) = 0 TMP\_452 = 2 TMP\_453 = 0 not(TMP\_453) = 1 TMP\_454 = 0 not(TMP\_454) = 1 TMP\_455 = 1 not(TMP\_455) = 0 TMP\_456 = 1 not(TMP\_456) = 0 TMP\_457 = 1 not(TMP\_457) = 0 TMP\_458 = 2 TMP\_459 = 0 not(TMP\_459) = 1 TMP\_460 = 1 not(TMP\_460) = 0 TMP\_461 = 0 not(TMP\_461) = 1 TMP\_462 = 1 not(TMP\_462) = 0 TMP\_463 = 2 TMP\_464 = 0 not(TMP\_464) = 1 TMP\_465 = 0 not(TMP\_465) = 1 TMP\_466 = 0 TMP\_467 = 1 not(TMP\_467) = 0 TMP\_468 = 1 not(TMP\_468) = 0 TMP\_469 = 2 TMP\_470 = 0 not(TMP\_470) = 1 TMP\_471 = 0 not(TMP\_471) = 1 TMP\_472 = 1 not(TMP\_472) = 0 TMP\_473 = 1 not(TMP\_473) = 0 TMP\_474 = 1 not(TMP\_474) = 0 TMP\_475 = 2 TMP\_476 = 1 not(TMP\_476) = 0 TMP\_477 = 1 not(TMP\_477) = 0 TMP\_478 = 0 not(TMP\_478) = 1 TMP\_479 = 1 not(TMP\_479) = 0 TMP\_480 = 3 TMP\_481 = 0 not(TMP\_481) = 1 TMP\_482 = 0 not(TMP\_482) = 1 TMP\_483 = 0 TMP\_484 = 1 not(TMP\_484) = 0 TMP\_485 = 1 not(TMP\_485) = 0 TMP\_486 = 2 TMP\_487 = 0 not(TMP\_487) = 1 TMP\_488 = 0 not(TMP\_488) = 1 TMP\_489 = 1 not(TMP\_489) = 0 TMP\_490 = 1 not(TMP\_490) = 0 TMP\_491 = 1 not(TMP\_491) = 0 TMP\_492 = 2 TMP\_493 = 1 not(TMP\_493) = 0 TMP\_494 = 1 not(TMP\_494) = 0 TMP\_495 = 1 not(TMP\_495) = 0 TMP\_496 = 0 not(TMP\_496) = 1 TMP\_497 = 3 TMP\_498 = 0 not(TMP\_498) = 1 TMP\_499 = 0 not(TMP\_499) = 1 TMP\_500 = 0 TMP\_501 = 1 not(TMP\_501) = 0 TMP\_502 = 1 not(TMP\_502) = 0 TMP\_503 = 2 TMP\_504 = 0 not(TMP\_504) = 1 TMP\_505 = 0 not(TMP\_505) = 1 TMP\_506 = 1 not(TMP\_506) = 0 TMP\_507 = 1 not(TMP\_507) = 0 TMP\_508 = 1 not(TMP\_508) = 0 TMP\_509 = 2 TMP\_510 = 1 not(TMP\_510) = 0 TMP\_511 = 0 not(TMP\_511) = 1 TMP\_512 = 1 not(TMP\_512) = 0 TMP\_513 = 1 not(TMP\_513) = 0 TMP\_514 = 3 TMP\_515 = 0 not(TMP\_515) = 1 TMP\_516 = 0 not(TMP\_516) = 1 TMP\_517 = 0 TMP\_518 = 1 not(TMP\_518) = 0 TMP\_519 = 1 not(TMP\_519) = 0 TMP\_520 = 2 TMP\_521 = 0 not(TMP\_521) = 1 TMP\_522 = 0 not(TMP\_522) = 1 TMP\_523 = 1 not(TMP\_523) = 0 TMP\_524 = 1 not(TMP\_524) = 0 TMP\_525 = 1 not(TMP\_525) = 0 TMP\_526 = 2 TMP\_527 = 1 not(TMP\_527) = 0 TMP\_528 = 0 not(TMP\_528) = 1 TMP\_529 = 1 not(TMP\_529) = 0 TMP\_530 = 1 not(TMP\_530) = 0 TMP\_531 = 3 TMP\_532 = 0 not(TMP\_532) = 1 TMP\_533 = 0 not(TMP\_533) = 1 TMP\_534 = 0 TMP\_535 = 1 not(TMP\_535) = 0 TMP\_536 = 1 not(TMP\_536) = 0 TMP\_537 = 2 TMP\_538 = 0 not(TMP\_538) = 1 TMP\_539 = 0 not(TMP\_539) = 1 TMP\_540 = 1 not(TMP\_540) = 0 TMP\_541 = 1 not(TMP\_541) = 0 TMP\_542 = 1 not(TMP\_542) = 0 TMP\_543 = 2 TMP\_544 = 1 not(TMP\_544) = 0 TMP\_545 = 1 not(TMP\_545) = 0 TMP\_546 = 1 not(TMP\_546) = 0 TMP\_547 = 0 not(TMP\_547) = 1 TMP\_548 = 3 TMP\_549 = 0 not(TMP\_549) = 1 TMP\_550 = 0 not(TMP\_550) = 1 TMP\_551 = 0 TMP\_552 = 1 not(TMP\_552) = 0 TMP\_553 = 1 not(TMP\_553) = 0 TMP\_554 = 2 TMP\_555 = 0 not(TMP\_555) = 1 TMP\_556 = 0 not(TMP\_556) = 1 TMP\_557 = 1 not(TMP\_557) = 0 TMP\_558 = 1 not(TMP\_558) = 0 TMP\_559 = 1 not(TMP\_559) = 0 TMP\_560 = 2 TMP\_561 = 1 not(TMP\_561) = 0 TMP\_562 = 0 not(TMP\_562) = 1 TMP\_563 = 1 not(TMP\_563) = 0 TMP\_564 = 1 not(TMP\_564) = 0 TMP\_565 = 3 TMP\_566 = 0 not(TMP\_566) = 1 TMP\_567 = 0 not(TMP\_567) = 1 TMP\_568 = 0 TMP\_569 = 1 not(TMP\_569) = 0 TMP\_570 = 1 not(TMP\_570) = 0 TMP\_571 = 2 TMP\_572 = 0 not(TMP\_572) = 1 TMP\_573 = 0 not(TMP\_573) = 1 TMP\_574 = 1 not(TMP\_574) = 0 TMP\_575 = 1 not(TMP\_575) = 0 TMP\_576 = 1 not(TMP\_576) = 0 TMP\_577 = 2 TMP\_578 = 1 not(TMP\_578) = 0 TMP\_579 = 0 not(TMP\_579) = 1 TMP\_580 = 1 not(TMP\_580) = 0 TMP\_581 = 0 not(TMP\_581) = 1 TMP\_582 = 2 TMP\_583 = 0 not(TMP\_583) = 1 TMP\_584 = 0 not(TMP\_584) = 1 TMP\_585 = 0 TMP\_586 = 1 not(TMP\_586) = 0 TMP\_587 = 1 not(TMP\_587) = 0 TMP\_588 = 2 TMP\_589 = 0 not(TMP\_589) = 1 TMP\_590 = 0 not(TMP\_590) = 1 TMP\_591 = 1 not(TMP\_591) = 0 TMP\_592 = 1 not(TMP\_592) = 0 TMP\_593 = 1 not(TMP\_593) = 0 TMP\_594 = 2 Area\_0 = 10000 Distance\_0\_Rule\_0 = 100 Distance\_1\_Rule\_0 = 100 Area\_1 = 5000 Distance\_0\_Rule\_1 = 50 Distance\_1\_Rule\_1 = 100 Area\_2 = 25000 Distance\_0\_Rule\_2 = 100 Distance\_1\_Rule\_2 = 250 Area\_3 = 20000 -(Rule\_3\_LB) = -50 Distance\_0\_Rule\_3 = 200 -(Rule\_3\_LB) = -300 Distance\_1\_Rule\_3 = 100 Area\_4 = 2500 -(Rule\_4\_LB) = 0 Distance\_0\_Rule\_4 = 25 -(Rule\_4\_LB) = -400 Distance\_1\_Rule\_4 = 100 Area\_5 = 30000 -(Rule\_5\_LB) = -150 Distance\_0\_Rule\_5 = 100 -(Rule\_5\_LB) = 0 Distance\_1\_Rule\_5 = 300 Area\_6 = 17500 -(Rule\_6\_LB) = -75 Distance\_0\_Rule\_6 = 175 -(Rule\_6\_LB) = -400 Distance\_1\_Rule\_6 = 100 Area\_7 = 15000 -(Rule\_7\_LB) = 0 Distance\_0\_Rule\_7 = 50 -(Rule\_7\_LB) = -100 Distance\_1\_Rule\_7 = 300 TMP\_595 = 125000 .

- Solution #8 found. 8 Solutions, Resolution 0.922s, 4687 Nodes (5,085.0 n/s), 9191 Backtracks, 4647 Fails, 0 Restarts

Rule\_3\_LB = 50 Rule\_3\_UB = 250 Rule\_3\_LB = 300 Rule\_3\_UB = 400 Rule\_4\_LB = 0 Rule\_4\_UB = 25 Rule\_4\_LB = 400 Rule\_4\_UB = 500 Rule\_5\_LB = 150 Rule\_5\_UB = 250 Rule\_5\_LB = 0 Rule\_5\_UB = 300 Rule\_6\_LB = 75 Rule\_6\_UB = 250 Rule\_6\_LB = 400 Rule\_6\_UB = 500 Rule\_7\_LB = 0 Rule\_7\_UB = 50 Rule\_7\_LB = 100 Rule\_7\_UB = 400 Overlaps\_0\_0 = 0 Overlaps\_0\_1 = 0 Overlaps\_0\_2 = 1 Overlaps\_0\_3 = 0 Overlaps\_0\_4 = 0 Overlaps\_0\_5 = 0 Overlaps\_0\_6 = 0 Overlaps\_0\_7 = 0 Overlaps\_1\_0 = 0 Overlaps\_1\_1 = 0 Overlaps\_1\_2 = 1 Overlaps\_1\_3 = 0 Overlaps\_1\_4 = 0 Overlaps\_1\_5 = 0 Overlaps\_1\_6 = 0 Overlaps\_1\_7 = 0 Overlaps\_2\_0 = 1 Overlaps\_2\_1 = 0 Overlaps\_2\_2 = 0 Overlaps\_2\_3 = 0 Overlaps\_2\_4 = 0 Overlaps\_2\_5 = 0 Overlaps\_2\_6 = 0 Overlaps\_2\_7 = 0 Overlaps\_3\_0 = 0 Overlaps\_3\_1 = 0 Overlaps\_3\_2 = 0 Overlaps\_3\_3 = 0 Overlaps\_3\_4 = 0 Overlaps\_3\_5 = 0 Overlaps\_3\_6 = 0 Overlaps\_3\_7 = 0 Overlaps\_4\_0 = 0 Overlaps\_4\_1 = 0 Overlaps\_4\_2 = 0 Overlaps\_4\_3 = 0 Overlaps\_4\_4 = 0 Overlaps\_4\_5 = 0 Overlaps\_4\_6 = 0 Overlaps\_4\_7 = 0 Overlaps\_5\_0 = 0 Overlaps\_5\_1 = 0 Overlaps\_5\_2 = 0 Overlaps\_5\_3 = 0 Overlaps\_5\_4 = 0 Overlaps\_5\_5 = 0 Overlaps\_5\_6 = 0 Overlaps\_5\_7 = 0 Overlaps\_6\_0 = 0 Overlaps\_6\_1 = 0 Overlaps\_6\_2 = 0 Overlaps\_6\_3 = 0 Overlaps\_6\_4 = 0 Overlaps\_6\_5 = 0 Overlaps\_6\_6 = 0 Overlaps\_6\_7 = 0 Overlaps\_7\_0 = 0 Overlaps\_7\_1 = 0 Overlaps\_7\_2 = 0 Overlaps\_7\_3 = 0 Overlaps\_7\_4 = 0 Overlaps\_7\_5 = 0 Overlaps\_7\_6 = 0 Overlaps\_7\_7 = 0 TMP\_0 = 1 not(TMP\_0) = 0 TMP\_1 = 1 not(TMP\_1) = 0 TMP\_2 = 0 not(TMP\_2) = 1 TMP\_3 = 1 not(TMP\_3) = 0 TMP\_4 = 3 TMP\_5 = 0 not(TMP\_5) = 1 TMP\_6 = 0 not(TMP\_6) = 1 TMP\_7 = 0 TMP\_8 = 1 not(TMP\_8) = 0 TMP\_9 = 1 not(TMP\_9) = 0 TMP\_10 = 2 TMP\_11 = 0 not(TMP\_11) = 1 TMP\_12 = 0 not(TMP\_12) = 1 TMP\_13 = 1 not(TMP\_13) = 0 TMP\_14 = 1 not(TMP\_14) = 0 TMP\_15 = 1 not(TMP\_15) = 0 TMP\_16 = 2 TMP\_17 = 1 not(TMP\_17) = 0 TMP\_18 = 1 not(TMP\_18) = 0 TMP\_19 = 1 not(TMP\_19) = 0 TMP\_20 = 0 not(TMP\_20) = 1 TMP\_21 = 3 TMP\_22 = 0 not(TMP\_22) = 1 TMP\_23 = 0 not(TMP\_23) = 1 TMP\_24 = 0 TMP\_25 = 1 not(TMP\_25) = 0 TMP\_26 = 1 not(TMP\_26) = 0 TMP\_27 = 2 TMP\_28 = 0 not(TMP\_28) = 1 TMP\_29 = 0 not(TMP\_29) = 1 TMP\_30 = 1 not(TMP\_30) = 0 TMP\_31 = 1 not(TMP\_31) = 0 TMP\_32 = 1 not(TMP\_32) = 0 TMP\_33 = 2 TMP\_34 = 1 not(TMP\_34) = 0 TMP\_35 = 1 not(TMP\_35) = 0 TMP\_36 = 0 not(TMP\_36) = 1 TMP\_37 = 1 not(TMP\_37) = 0 TMP\_38 = 3 TMP\_39 = 0 not(TMP\_39) = 1 TMP\_40 = 0 not(TMP\_40) = 1 TMP\_41 = 0 TMP\_42 = 1 not(TMP\_42) = 0 TMP\_43 = 1 not(TMP\_43) = 0 TMP\_44 = 2 TMP\_45 = 0 not(TMP\_45) = 1 TMP\_46 = 0 not(TMP\_46) = 1 TMP\_47 = 1 not(TMP\_47) = 0 TMP\_48 = 1 not(TMP\_48) = 0 TMP\_49 = 1 not(TMP\_49) = 0 TMP\_50 = 2 TMP\_51 = 0 not(TMP\_51) = 1 TMP\_52 = 1 not(TMP\_52) = 0 TMP\_53 = 1 not(TMP\_53) = 0 TMP\_54 = 0 not(TMP\_54) = 1 TMP\_55 = 2 TMP\_56 = 0 not(TMP\_56) = 1 TMP\_57 = 0 not(TMP\_57) = 1 TMP\_58 = 0 TMP\_59 = 1 not(TMP\_59) = 0 TMP\_60 = 1 not(TMP\_60) = 0 TMP\_61 = 2 TMP\_62 = 0 not(TMP\_62) = 1 TMP\_63 = 0 not(TMP\_63) = 1 TMP\_64 = 1 not(TMP\_64) = 0 TMP\_65 = 1 not(TMP\_65) = 0 TMP\_66 = 1 not(TMP\_66) = 0 TMP\_67 = 2 TMP\_68 = 1 not(TMP\_68) = 0 TMP\_69 = 1 not(TMP\_69) = 0 TMP\_70 = 0 not(TMP\_70) = 1 TMP\_71 = 1 not(TMP\_71) = 0 TMP\_72 = 3 TMP\_73 = 0 not(TMP\_73) = 1 TMP\_74 = 0 not(TMP\_74) = 1 TMP\_75 = 0 TMP\_76 = 1 not(TMP\_76) = 0 TMP\_77 = 1 not(TMP\_77) = 0 TMP\_78 = 2 TMP\_79 = 0 not(TMP\_79) = 1 TMP\_80 = 0 not(TMP\_80) = 1 TMP\_81 = 1 not(TMP\_81) = 0 TMP\_82 = 1 not(TMP\_82) = 0 TMP\_83 = 1 not(TMP\_83) = 0 TMP\_84 = 2 TMP\_85 = 1 not(TMP\_85) = 0 TMP\_86 = 1 not(TMP\_86) = 0 TMP\_87 = 1 not(TMP\_87) = 0 TMP\_88 = 0 not(TMP\_88) = 1 TMP\_89 = 3 TMP\_90 = 0 not(TMP\_90) = 1 TMP\_91 = 0 not(TMP\_91) = 1 TMP\_92 = 0 TMP\_93 = 1 not(TMP\_93) = 0 TMP\_94 = 1 not(TMP\_94) = 0 TMP\_95 = 2 TMP\_96 = 0 not(TMP\_96) = 1 TMP\_97 = 0 not(TMP\_97) = 1 TMP\_98 = 1 not(TMP\_98) = 0 TMP\_99 = 1 not(TMP\_99) = 0 TMP\_100 = 1 not(TMP\_100) = 0 TMP\_101 = 2 TMP\_102 = 0 not(TMP\_102) = 1 TMP\_103 = 1 not(TMP\_103) = 0 TMP\_104 = 1 not(TMP\_104) = 0 TMP\_105 = 1 not(TMP\_105) = 0 TMP\_106 = 3 TMP\_107 = 0 not(TMP\_107) = 1 TMP\_108 = 0 not(TMP\_108) = 1 TMP\_109 = 0 TMP\_110 = 1 not(TMP\_110) = 0 TMP\_111 = 1 not(TMP\_111) = 0 TMP\_112 = 2 TMP\_113 = 0 not(TMP\_113) = 1 TMP\_114 = 0 not(TMP\_114) = 1 TMP\_115 = 1 not(TMP\_115) = 0 TMP\_116 = 1 not(TMP\_116) = 0 TMP\_117 = 1 not(TMP\_117) = 0 TMP\_118 = 2 TMP\_119 = 1 not(TMP\_119) = 0 TMP\_120 = 1 not(TMP\_120) = 0 TMP\_121 = 0 not(TMP\_121) = 1 TMP\_122 = 1 not(TMP\_122) = 0 TMP\_123 = 3 TMP\_124 = 0 not(TMP\_124) = 1 TMP\_125 = 0 not(TMP\_125) = 1 TMP\_126 = 0 TMP\_127 = 1 not(TMP\_127) = 0 TMP\_128 = 1 not(TMP\_128) = 0 TMP\_129 = 2 TMP\_130 = 0 not(TMP\_130) = 1 TMP\_131 = 0 not(TMP\_131) = 1 TMP\_132 = 1 not(TMP\_132) = 0 TMP\_133 = 1 not(TMP\_133) = 0 TMP\_134 = 1 not(TMP\_134) = 0 TMP\_135 = 2 TMP\_136 = 1 not(TMP\_136) = 0 TMP\_137 = 0 not(TMP\_137) = 1 TMP\_138 = 1 not(TMP\_138) = 0 TMP\_139 = 1 not(TMP\_139) = 0 TMP\_140 = 3 TMP\_141 = 0 not(TMP\_141) = 1 TMP\_142 = 0 not(TMP\_142) = 1 TMP\_143 = 0 TMP\_144 = 1 not(TMP\_144) = 0 TMP\_145 = 1 not(TMP\_145) = 0 TMP\_146 = 2 TMP\_147 = 0 not(TMP\_147) = 1 TMP\_148 = 0 not(TMP\_148) = 1 TMP\_149 = 1 not(TMP\_149) = 0 TMP\_150 = 1 not(TMP\_150) = 0 TMP\_151 = 1 not(TMP\_151) = 0 TMP\_152 = 2 TMP\_153 = 1 not(TMP\_153) = 0 TMP\_154 = 0 not(TMP\_154) = 1 TMP\_155 = 0 not(TMP\_155) = 1 TMP\_156 = 1 not(TMP\_156) = 0 TMP\_157 = 2 TMP\_158 = 0 not(TMP\_158) = 1 TMP\_159 = 0 not(TMP\_159) = 1 TMP\_160 = 0 TMP\_161 = 1 not(TMP\_161) = 0 TMP\_162 = 1 not(TMP\_162) = 0 TMP\_163 = 2 TMP\_164 = 0 not(TMP\_164) = 1 TMP\_165 = 0 not(TMP\_165) = 1 TMP\_166 = 1 not(TMP\_166) = 0 TMP\_167 = 1 not(TMP\_167) = 0 TMP\_168 = 1 not(TMP\_168) = 0 TMP\_169 = 2 TMP\_170 = 1 not(TMP\_170) = 0 TMP\_171 = 0 not(TMP\_171) = 1 TMP\_172 = 0 not(TMP\_172) = 1 TMP\_173 = 1 not(TMP\_173) = 0 TMP\_174 = 2 TMP\_175 = 0 not(TMP\_175) = 1 TMP\_176 = 0 not(TMP\_176) = 1 TMP\_177 = 0 TMP\_178 = 1 not(TMP\_178) = 0 TMP\_179 = 1 not(TMP\_179) = 0 TMP\_180 = 2 TMP\_181 = 0 not(TMP\_181) = 1 TMP\_182 = 0 not(TMP\_182) = 1 TMP\_183 = 1 not(TMP\_183) = 0 TMP\_184 = 1 not(TMP\_184) = 0 TMP\_185 = 1 not(TMP\_185) = 0 TMP\_186 = 2 TMP\_187 = 1 not(TMP\_187) = 0 TMP\_188 = 0 not(TMP\_188) = 1 TMP\_189 = 0 not(TMP\_189) = 1 TMP\_190 = 1 not(TMP\_190) = 0 TMP\_191 = 2 TMP\_192 = 0 not(TMP\_192) = 1 TMP\_193 = 0 not(TMP\_193) = 1 TMP\_194 = 0 TMP\_195 = 1 not(TMP\_195) = 0 TMP\_196 = 1 not(TMP\_196) = 0 TMP\_197 = 2 TMP\_198 = 0 not(TMP\_198) = 1 TMP\_199 = 0 not(TMP\_199) = 1 TMP\_200 = 1 not(TMP\_200) = 0 TMP\_201 = 1 not(TMP\_201) = 0 TMP\_202 = 1 not(TMP\_202) = 0 TMP\_203 = 2 TMP\_204 = 1 not(TMP\_204) = 0 TMP\_205 = 0 not(TMP\_205) = 1 TMP\_206 = 1 not(TMP\_206) = 0 TMP\_207 = 1 not(TMP\_207) = 0 TMP\_208 = 3 TMP\_209 = 0 not(TMP\_209) = 1 TMP\_210 = 0 not(TMP\_210) = 1 TMP\_211 = 0 TMP\_212 = 1 not(TMP\_212) = 0 TMP\_213 = 1 not(TMP\_213) = 0 TMP\_214 = 2 TMP\_215 = 0 not(TMP\_215) = 1 TMP\_216 = 0 not(TMP\_216) = 1 TMP\_217 = 1 not(TMP\_217) = 0 TMP\_218 = 1 not(TMP\_218) = 0 TMP\_219 = 1 not(TMP\_219) = 0 TMP\_220 = 2 TMP\_221 = 1 not(TMP\_221) = 0 TMP\_222 = 1 not(TMP\_222) = 0 TMP\_223 = 0 not(TMP\_223) = 1 TMP\_224 = 1 not(TMP\_224) = 0 TMP\_225 = 3 TMP\_226 = 0 not(TMP\_226) = 1 TMP\_227 = 0 not(TMP\_227) = 1 TMP\_228 = 0 TMP\_229 = 1 not(TMP\_229) = 0 TMP\_230 = 1 not(TMP\_230) = 0 TMP\_231 = 2 TMP\_232 = 0 not(TMP\_232) = 1 TMP\_233 = 0 not(TMP\_233) = 1 TMP\_234 = 1 not(TMP\_234) = 0 TMP\_235 = 1 not(TMP\_235) = 0 TMP\_236 = 1 not(TMP\_236) = 0 TMP\_237 = 2 TMP\_238 = 0 not(TMP\_238) = 1 TMP\_239 = 1 not(TMP\_239) = 0 TMP\_240 = 1 not(TMP\_240) = 0 TMP\_241 = 1 not(TMP\_241) = 0 TMP\_242 = 3 TMP\_243 = 0 not(TMP\_243) = 1 TMP\_244 = 0 not(TMP\_244) = 1 TMP\_245 = 0 TMP\_246 = 1 not(TMP\_246) = 0 TMP\_247 = 1 not(TMP\_247) = 0 TMP\_248 = 2 TMP\_249 = 0 not(TMP\_249) = 1 TMP\_250 = 0 not(TMP\_250) = 1 TMP\_251 = 1 not(TMP\_251) = 0 TMP\_252 = 1 not(TMP\_252) = 0 TMP\_253 = 1 not(TMP\_253) = 0 TMP\_254 = 2 TMP\_255 = 0 not(TMP\_255) = 1 TMP\_256 = 1 not(TMP\_256) = 0 TMP\_257 = 1 not(TMP\_257) = 0 TMP\_258 = 0 not(TMP\_258) = 1 TMP\_259 = 2 TMP\_260 = 0 not(TMP\_260) = 1 TMP\_261 = 0 not(TMP\_261) = 1 TMP\_262 = 0 TMP\_263 = 1 not(TMP\_263) = 0 TMP\_264 = 1 not(TMP\_264) = 0 TMP\_265 = 2 TMP\_266 = 0 not(TMP\_266) = 1 TMP\_267 = 0 not(TMP\_267) = 1 TMP\_268 = 1 not(TMP\_268) = 0 TMP\_269 = 1 not(TMP\_269) = 0 TMP\_270 = 1 not(TMP\_270) = 0 TMP\_271 = 2 TMP\_272 = 0 not(TMP\_272) = 1 TMP\_273 = 1 not(TMP\_273) = 0 TMP\_274 = 1 not(TMP\_274) = 0 TMP\_275 = 1 not(TMP\_275) = 0 TMP\_276 = 3 TMP\_277 = 0 not(TMP\_277) = 1 TMP\_278 = 0 not(TMP\_278) = 1 TMP\_279 = 0 TMP\_280 = 1 not(TMP\_280) = 0 TMP\_281 = 1 not(TMP\_281) = 0 TMP\_282 = 2 TMP\_283 = 0 not(TMP\_283) = 1 TMP\_284 = 0 not(TMP\_284) = 1 TMP\_285 = 1 not(TMP\_285) = 0 TMP\_286 = 1 not(TMP\_286) = 0 TMP\_287 = 1 not(TMP\_287) = 0 TMP\_288 = 2 TMP\_289 = 1 not(TMP\_289) = 0 TMP\_290 = 1 not(TMP\_290) = 0 TMP\_291 = 1 not(TMP\_291) = 0 TMP\_292 = 0 not(TMP\_292) = 1 TMP\_293 = 3 TMP\_294 = 0 not(TMP\_294) = 1 TMP\_295 = 0 not(TMP\_295) = 1 TMP\_296 = 0 TMP\_297 = 1 not(TMP\_297) = 0 TMP\_298 = 1 not(TMP\_298) = 0 TMP\_299 = 2 TMP\_300 = 0 not(TMP\_300) = 1 TMP\_301 = 0 not(TMP\_301) = 1 TMP\_302 = 1 not(TMP\_302) = 0 TMP\_303 = 1 not(TMP\_303) = 0 TMP\_304 = 1 not(TMP\_304) = 0 TMP\_305 = 2 TMP\_306 = 0 not(TMP\_306) = 1 TMP\_307 = 1 not(TMP\_307) = 0 TMP\_308 = 1 not(TMP\_308) = 0 TMP\_309 = 0 not(TMP\_309) = 1 TMP\_310 = 2 TMP\_311 = 0 not(TMP\_311) = 1 TMP\_312 = 0 not(TMP\_312) = 1 TMP\_313 = 0 TMP\_314 = 1 not(TMP\_314) = 0 TMP\_315 = 1 not(TMP\_315) = 0 TMP\_316 = 2 TMP\_317 = 0 not(TMP\_317) = 1 TMP\_318 = 0 not(TMP\_318) = 1 TMP\_319 = 1 not(TMP\_319) = 0 TMP\_320 = 1 not(TMP\_320) = 0 TMP\_321 = 1 not(TMP\_321) = 0 TMP\_322 = 2 TMP\_323 = 1 not(TMP\_323) = 0 TMP\_324 = 1 not(TMP\_324) = 0 TMP\_325 = 1 not(TMP\_325) = 0 TMP\_326 = 0 not(TMP\_326) = 1 TMP\_327 = 3 TMP\_328 = 0 not(TMP\_328) = 1 TMP\_329 = 0 not(TMP\_329) = 1 TMP\_330 = 0 TMP\_331 = 1 not(TMP\_331) = 0 TMP\_332 = 1 not(TMP\_332) = 0 TMP\_333 = 2 TMP\_334 = 0 not(TMP\_334) = 1 TMP\_335 = 0 not(TMP\_335) = 1 TMP\_336 = 1 not(TMP\_336) = 0 TMP\_337 = 1 not(TMP\_337) = 0 TMP\_338 = 1 not(TMP\_338) = 0 TMP\_339 = 2 TMP\_340 = 0 not(TMP\_340) = 1 TMP\_341 = 1 not(TMP\_341) = 0 TMP\_342 = 1 not(TMP\_342) = 0 TMP\_343 = 1 not(TMP\_343) = 0 TMP\_344 = 3 TMP\_345 = 0 not(TMP\_345) = 1 TMP\_346 = 0 not(TMP\_346) = 1 TMP\_347 = 0 TMP\_348 = 1 not(TMP\_348) = 0 TMP\_349 = 1 not(TMP\_349) = 0 TMP\_350 = 2 TMP\_351 = 0 not(TMP\_351) = 1 TMP\_352 = 0 not(TMP\_352) = 1 TMP\_353 = 1 not(TMP\_353) = 0 TMP\_354 = 1 not(TMP\_354) = 0 TMP\_355 = 1 not(TMP\_355) = 0 TMP\_356 = 2 TMP\_357 = 1 not(TMP\_357) = 0 TMP\_358 = 1 not(TMP\_358) = 0 TMP\_359 = 0 not(TMP\_359) = 1 TMP\_360 = 1 not(TMP\_360) = 0 TMP\_361 = 3 TMP\_362 = 0 not(TMP\_362) = 1 TMP\_363 = 0 not(TMP\_363) = 1 TMP\_364 = 0 TMP\_365 = 1 not(TMP\_365) = 0 TMP\_366 = 1 not(TMP\_366) = 0 TMP\_367 = 2 TMP\_368 = 0 not(TMP\_368) = 1 TMP\_369 = 0 not(TMP\_369) = 1 TMP\_370 = 1 not(TMP\_370) = 0 TMP\_371 = 1 not(TMP\_371) = 0 TMP\_372 = 1 not(TMP\_372) = 0 TMP\_373 = 2 TMP\_374 = 0 not(TMP\_374) = 1 TMP\_375 = 1 not(TMP\_375) = 0 TMP\_376 = 1 not(TMP\_376) = 0 TMP\_377 = 1 not(TMP\_377) = 0 TMP\_378 = 3 TMP\_379 = 0 not(TMP\_379) = 1 TMP\_380 = 0 not(TMP\_380) = 1 TMP\_381 = 0 TMP\_382 = 1 not(TMP\_382) = 0 TMP\_383 = 1 not(TMP\_383) = 0 TMP\_384 = 2 TMP\_385 = 0 not(TMP\_385) = 1 TMP\_386 = 0 not(TMP\_386) = 1 TMP\_387 = 1 not(TMP\_387) = 0 TMP\_388 = 1 not(TMP\_388) = 0 TMP\_389 = 1 not(TMP\_389) = 0 TMP\_390 = 2 TMP\_391 = 1 not(TMP\_391) = 0 TMP\_392 = 1 not(TMP\_392) = 0 TMP\_393 = 0 not(TMP\_393) = 1 TMP\_394 = 1 not(TMP\_394) = 0 TMP\_395 = 3 TMP\_396 = 0 not(TMP\_396) = 1 TMP\_397 = 0 not(TMP\_397) = 1 TMP\_398 = 0 TMP\_399 = 1 not(TMP\_399) = 0 TMP\_400 = 1 not(TMP\_400) = 0 TMP\_401 = 2 TMP\_402 = 0 not(TMP\_402) = 1 TMP\_403 = 0 not(TMP\_403) = 1 TMP\_404 = 1 not(TMP\_404) = 0 TMP\_405 = 1 not(TMP\_405) = 0 TMP\_406 = 1 not(TMP\_406) = 0 TMP\_407 = 2 TMP\_408 = 1 not(TMP\_408) = 0 TMP\_409 = 1 not(TMP\_409) = 0 TMP\_410 = 0 not(TMP\_410) = 1 TMP\_411 = 1 not(TMP\_411) = 0 TMP\_412 = 3 TMP\_413 = 0 not(TMP\_413) = 1 TMP\_414 = 0 not(TMP\_414) = 1 TMP\_415 = 0 TMP\_416 = 1 not(TMP\_416) = 0 TMP\_417 = 1 not(TMP\_417) = 0 TMP\_418 = 2 TMP\_419 = 0 not(TMP\_419) = 1 TMP\_420 = 0 not(TMP\_420) = 1 TMP\_421 = 1 not(TMP\_421) = 0 TMP\_422 = 1 not(TMP\_422) = 0 TMP\_423 = 1 not(TMP\_423) = 0 TMP\_424 = 2 TMP\_425 = 0 not(TMP\_425) = 1 TMP\_426 = 1 not(TMP\_426) = 0 TMP\_427 = 1 not(TMP\_427) = 0 TMP\_428 = 1 not(TMP\_428) = 0 TMP\_429 = 3 TMP\_430 = 0 not(TMP\_430) = 1 TMP\_431 = 0 not(TMP\_431) = 1 TMP\_432 = 0 TMP\_433 = 1 not(TMP\_433) = 0 TMP\_434 = 1 not(TMP\_434) = 0 TMP\_435 = 2 TMP\_436 = 0 not(TMP\_436) = 1 TMP\_437 = 0 not(TMP\_437) = 1 TMP\_438 = 1 not(TMP\_438) = 0 TMP\_439 = 1 not(TMP\_439) = 0 TMP\_440 = 1 not(TMP\_440) = 0 TMP\_441 = 2 TMP\_442 = 1 not(TMP\_442) = 0 TMP\_443 = 1 not(TMP\_443) = 0 TMP\_444 = 0 not(TMP\_444) = 1 TMP\_445 = 1 not(TMP\_445) = 0 TMP\_446 = 3 TMP\_447 = 0 not(TMP\_447) = 1 TMP\_448 = 0 not(TMP\_448) = 1 TMP\_449 = 0 TMP\_450 = 1 not(TMP\_450) = 0 TMP\_451 = 1 not(TMP\_451) = 0 TMP\_452 = 2 TMP\_453 = 0 not(TMP\_453) = 1 TMP\_454 = 0 not(TMP\_454) = 1 TMP\_455 = 1 not(TMP\_455) = 0 TMP\_456 = 1 not(TMP\_456) = 0 TMP\_457 = 1 not(TMP\_457) = 0 TMP\_458 = 2 TMP\_459 = 0 not(TMP\_459) = 1 TMP\_460 = 1 not(TMP\_460) = 0 TMP\_461 = 0 not(TMP\_461) = 1 TMP\_462 = 1 not(TMP\_462) = 0 TMP\_463 = 2 TMP\_464 = 0 not(TMP\_464) = 1 TMP\_465 = 0 not(TMP\_465) = 1 TMP\_466 = 0 TMP\_467 = 1 not(TMP\_467) = 0 TMP\_468 = 1 not(TMP\_468) = 0 TMP\_469 = 2 TMP\_470 = 0 not(TMP\_470) = 1 TMP\_471 = 0 not(TMP\_471) = 1 TMP\_472 = 1 not(TMP\_472) = 0 TMP\_473 = 1 not(TMP\_473) = 0 TMP\_474 = 1 not(TMP\_474) = 0 TMP\_475 = 2 TMP\_476 = 1 not(TMP\_476) = 0 TMP\_477 = 1 not(TMP\_477) = 0 TMP\_478 = 0 not(TMP\_478) = 1 TMP\_479 = 1 not(TMP\_479) = 0 TMP\_480 = 3 TMP\_481 = 0 not(TMP\_481) = 1 TMP\_482 = 0 not(TMP\_482) = 1 TMP\_483 = 0 TMP\_484 = 1 not(TMP\_484) = 0 TMP\_485 = 1 not(TMP\_485) = 0 TMP\_486 = 2 TMP\_487 = 0 not(TMP\_487) = 1 TMP\_488 = 0 not(TMP\_488) = 1 TMP\_489 = 1 not(TMP\_489) = 0 TMP\_490 = 1 not(TMP\_490) = 0 TMP\_491 = 1 not(TMP\_491) = 0 TMP\_492 = 2 TMP\_493 = 1 not(TMP\_493) = 0 TMP\_494 = 1 not(TMP\_494) = 0 TMP\_495 = 1 not(TMP\_495) = 0 TMP\_496 = 0 not(TMP\_496) = 1 TMP\_497 = 3 TMP\_498 = 0 not(TMP\_498) = 1 TMP\_499 = 0 not(TMP\_499) = 1 TMP\_500 = 0 TMP\_501 = 1 not(TMP\_501) = 0 TMP\_502 = 1 not(TMP\_502) = 0 TMP\_503 = 2 TMP\_504 = 0 not(TMP\_504) = 1 TMP\_505 = 0 not(TMP\_505) = 1 TMP\_506 = 1 not(TMP\_506) = 0 TMP\_507 = 1 not(TMP\_507) = 0 TMP\_508 = 1 not(TMP\_508) = 0 TMP\_509 = 2 TMP\_510 = 1 not(TMP\_510) = 0 TMP\_511 = 0 not(TMP\_511) = 1 TMP\_512 = 1 not(TMP\_512) = 0 TMP\_513 = 1 not(TMP\_513) = 0 TMP\_514 = 3 TMP\_515 = 0 not(TMP\_515) = 1 TMP\_516 = 0 not(TMP\_516) = 1 TMP\_517 = 0 TMP\_518 = 1 not(TMP\_518) = 0 TMP\_519 = 1 not(TMP\_519) = 0 TMP\_520 = 2 TMP\_521 = 0 not(TMP\_521) = 1 TMP\_522 = 0 not(TMP\_522) = 1 TMP\_523 = 1 not(TMP\_523) = 0 TMP\_524 = 1 not(TMP\_524) = 0 TMP\_525 = 1 not(TMP\_525) = 0 TMP\_526 = 2 TMP\_527 = 1 not(TMP\_527) = 0 TMP\_528 = 0 not(TMP\_528) = 1 TMP\_529 = 1 not(TMP\_529) = 0 TMP\_530 = 1 not(TMP\_530) = 0 TMP\_531 = 3 TMP\_532 = 0 not(TMP\_532) = 1 TMP\_533 = 0 not(TMP\_533) = 1 TMP\_534 = 0 TMP\_535 = 1 not(TMP\_535) = 0 TMP\_536 = 1 not(TMP\_536) = 0 TMP\_537 = 2 TMP\_538 = 0 not(TMP\_538) = 1 TMP\_539 = 0 not(TMP\_539) = 1 TMP\_540 = 1 not(TMP\_540) = 0 TMP\_541 = 1 not(TMP\_541) = 0 TMP\_542 = 1 not(TMP\_542) = 0 TMP\_543 = 2 TMP\_544 = 1 not(TMP\_544) = 0 TMP\_545 = 1 not(TMP\_545) = 0 TMP\_546 = 1 not(TMP\_546) = 0 TMP\_547 = 0 not(TMP\_547) = 1 TMP\_548 = 3 TMP\_549 = 0 not(TMP\_549) = 1 TMP\_550 = 0 not(TMP\_550) = 1 TMP\_551 = 0 TMP\_552 = 1 not(TMP\_552) = 0 TMP\_553 = 1 not(TMP\_553) = 0 TMP\_554 = 2 TMP\_555 = 0 not(TMP\_555) = 1 TMP\_556 = 0 not(TMP\_556) = 1 TMP\_557 = 1 not(TMP\_557) = 0 TMP\_558 = 1 not(TMP\_558) = 0 TMP\_559 = 1 not(TMP\_559) = 0 TMP\_560 = 2 TMP\_561 = 1 not(TMP\_561) = 0 TMP\_562 = 0 not(TMP\_562) = 1 TMP\_563 = 1 not(TMP\_563) = 0 TMP\_564 = 1 not(TMP\_564) = 0 TMP\_565 = 3 TMP\_566 = 0 not(TMP\_566) = 1 TMP\_567 = 0 not(TMP\_567) = 1 TMP\_568 = 0 TMP\_569 = 1 not(TMP\_569) = 0 TMP\_570 = 1 not(TMP\_570) = 0 TMP\_571 = 2 TMP\_572 = 0 not(TMP\_572) = 1 TMP\_573 = 0 not(TMP\_573) = 1 TMP\_574 = 1 not(TMP\_574) = 0 TMP\_575 = 1 not(TMP\_575) = 0 TMP\_576 = 1 not(TMP\_576) = 0 TMP\_577 = 2 TMP\_578 = 1 not(TMP\_578) = 0 TMP\_579 = 0 not(TMP\_579) = 1 TMP\_580 = 1 not(TMP\_580) = 0 TMP\_581 = 0 not(TMP\_581) = 1 TMP\_582 = 2 TMP\_583 = 0 not(TMP\_583) = 1 TMP\_584 = 0 not(TMP\_584) = 1 TMP\_585 = 0 TMP\_586 = 1 not(TMP\_586) = 0 TMP\_587 = 1 not(TMP\_587) = 0 TMP\_588 = 2 TMP\_589 = 0 not(TMP\_589) = 1 TMP\_590 = 0 not(TMP\_590) = 1 TMP\_591 = 1 not(TMP\_591) = 0 TMP\_592 = 1 not(TMP\_592) = 0 TMP\_593 = 1 not(TMP\_593) = 0 TMP\_594 = 2 Area\_0 = 10000 Distance\_0\_Rule\_0 = 100 Distance\_1\_Rule\_0 = 100 Area\_1 = 5000 Distance\_0\_Rule\_1 = 50 Distance\_1\_Rule\_1 = 100 Area\_2 = 25000 Distance\_0\_Rule\_2 = 100 Distance\_1\_Rule\_2 = 250 Area\_3 = 20000 -(Rule\_3\_LB) = -50 Distance\_0\_Rule\_3 = 200 -(Rule\_3\_LB) = -300 Distance\_1\_Rule\_3 = 100 Area\_4 = 2500 -(Rule\_4\_LB) = 0 Distance\_0\_Rule\_4 = 25 -(Rule\_4\_LB) = -400 Distance\_1\_Rule\_4 = 100 Area\_5 = 30000 -(Rule\_5\_LB) = -150 Distance\_0\_Rule\_5 = 100 -(Rule\_5\_LB) = 0 Distance\_1\_Rule\_5 = 300 Area\_6 = 17500 -(Rule\_6\_LB) = -75 Distance\_0\_Rule\_6 = 175 -(Rule\_6\_LB) = -400 Distance\_1\_Rule\_6 = 100 Area\_7 = 15000 -(Rule\_7\_LB) = 0 Distance\_0\_Rule\_7 = 50 -(Rule\_7\_LB) = -100 Distance\_1\_Rule\_7 = 300 TMP\_595 = 125000 .

- Solution #9 found. 9 Solutions, Resolution 0.926s, 4691 Nodes (5,067.9 n/s), 9195 Backtracks, 4647 Fails, 0 Restarts

Rule\_3\_LB = 50 Rule\_3\_UB = 250 Rule\_3\_LB = 300 Rule\_3\_UB = 400 Rule\_4\_LB = 0 Rule\_4\_UB = 25 Rule\_4\_LB = 400 Rule\_4\_UB = 500 Rule\_5\_LB = 150 Rule\_5\_UB = 250 Rule\_5\_LB = 0 Rule\_5\_UB = 300 Rule\_6\_LB = 75 Rule\_6\_UB = 250 Rule\_6\_LB = 400 Rule\_6\_UB = 500 Rule\_7\_LB = 0 Rule\_7\_UB = 50 Rule\_7\_LB = 100 Rule\_7\_UB = 400 Overlaps\_0\_0 = 0 Overlaps\_0\_1 = 1 Overlaps\_0\_2 = 0 Overlaps\_0\_3 = 0 Overlaps\_0\_4 = 0 Overlaps\_0\_5 = 0 Overlaps\_0\_6 = 0 Overlaps\_0\_7 = 0 Overlaps\_1\_0 = 0 Overlaps\_1\_1 = 0 Overlaps\_1\_2 = 0 Overlaps\_1\_3 = 0 Overlaps\_1\_4 = 0 Overlaps\_1\_5 = 0 Overlaps\_1\_6 = 0 Overlaps\_1\_7 = 0 Overlaps\_2\_0 = 0 Overlaps\_2\_1 = 0 Overlaps\_2\_2 = 0 Overlaps\_2\_3 = 0 Overlaps\_2\_4 = 0 Overlaps\_2\_5 = 0 Overlaps\_2\_6 = 0 Overlaps\_2\_7 = 0 Overlaps\_3\_0 = 0 Overlaps\_3\_1 = 0 Overlaps\_3\_2 = 0 Overlaps\_3\_3 = 0 Overlaps\_3\_4 = 0 Overlaps\_3\_5 = 0 Overlaps\_3\_6 = 0 Overlaps\_3\_7 = 0 Overlaps\_4\_0 = 0 Overlaps\_4\_1 = 0 Overlaps\_4\_2 = 0 Overlaps\_4\_3 = 0 Overlaps\_4\_4 = 0 Overlaps\_4\_5 = 0 Overlaps\_4\_6 = 0 Overlaps\_4\_7 = 0 Overlaps\_5\_0 = 0 Overlaps\_5\_1 = 0 Overlaps\_5\_2 = 0 Overlaps\_5\_3 = 0 Overlaps\_5\_4 = 0 Overlaps\_5\_5 = 0 Overlaps\_5\_6 = 0 Overlaps\_5\_7 = 0 Overlaps\_6\_0 = 0 Overlaps\_6\_1 = 0 Overlaps\_6\_2 = 0 Overlaps\_6\_3 = 0 Overlaps\_6\_4 = 0 Overlaps\_6\_5 = 0 Overlaps\_6\_6 = 0 Overlaps\_6\_7 = 0 Overlaps\_7\_0 = 0 Overlaps\_7\_1 = 0 Overlaps\_7\_2 = 0 Overlaps\_7\_3 = 0 Overlaps\_7\_4 = 0 Overlaps\_7\_5 = 0 Overlaps\_7\_6 = 0 Overlaps\_7\_7 = 0 TMP\_0 = 1 not(TMP\_0) = 0 TMP\_1 = 1 not(TMP\_1) = 0 TMP\_2 = 0 not(TMP\_2) = 1 TMP\_3 = 1 not(TMP\_3) = 0 TMP\_4 = 3 TMP\_5 = 0 not(TMP\_5) = 1 TMP\_6 = 0 not(TMP\_6) = 1 TMP\_7 = 0 TMP\_8 = 1 not(TMP\_8) = 0 TMP\_9 = 1 not(TMP\_9) = 0 TMP\_10 = 2 TMP\_11 = 0 not(TMP\_11) = 1 TMP\_12 = 0 not(TMP\_12) = 1 TMP\_13 = 1 not(TMP\_13) = 0 TMP\_14 = 1 not(TMP\_14) = 0 TMP\_15 = 1 not(TMP\_15) = 0 TMP\_16 = 2 TMP\_17 = 1 not(TMP\_17) = 0 TMP\_18 = 1 not(TMP\_18) = 0 TMP\_19 = 1 not(TMP\_19) = 0 TMP\_20 = 0 not(TMP\_20) = 1 TMP\_21 = 3 TMP\_22 = 0 not(TMP\_22) = 1 TMP\_23 = 0 not(TMP\_23) = 1 TMP\_24 = 0 TMP\_25 = 1 not(TMP\_25) = 0 TMP\_26 = 1 not(TMP\_26) = 0 TMP\_27 = 2 TMP\_28 = 0 not(TMP\_28) = 1 TMP\_29 = 0 not(TMP\_29) = 1 TMP\_30 = 1 not(TMP\_30) = 0 TMP\_31 = 1 not(TMP\_31) = 0 TMP\_32 = 1 not(TMP\_32) = 0 TMP\_33 = 2 TMP\_34 = 1 not(TMP\_34) = 0 TMP\_35 = 1 not(TMP\_35) = 0 TMP\_36 = 0 not(TMP\_36) = 1 TMP\_37 = 1 not(TMP\_37) = 0 TMP\_38 = 3 TMP\_39 = 0 not(TMP\_39) = 1 TMP\_40 = 0 not(TMP\_40) = 1 TMP\_41 = 0 TMP\_42 = 1 not(TMP\_42) = 0 TMP\_43 = 1 not(TMP\_43) = 0 TMP\_44 = 2 TMP\_45 = 0 not(TMP\_45) = 1 TMP\_46 = 0 not(TMP\_46) = 1 TMP\_47 = 1 not(TMP\_47) = 0 TMP\_48 = 1 not(TMP\_48) = 0 TMP\_49 = 1 not(TMP\_49) = 0 TMP\_50 = 2 TMP\_51 = 0 not(TMP\_51) = 1 TMP\_52 = 1 not(TMP\_52) = 0 TMP\_53 = 1 not(TMP\_53) = 0 TMP\_54 = 0 not(TMP\_54) = 1 TMP\_55 = 2 TMP\_56 = 0 not(TMP\_56) = 1 TMP\_57 = 0 not(TMP\_57) = 1 TMP\_58 = 0 TMP\_59 = 1 not(TMP\_59) = 0 TMP\_60 = 1 not(TMP\_60) = 0 TMP\_61 = 2 TMP\_62 = 0 not(TMP\_62) = 1 TMP\_63 = 0 not(TMP\_63) = 1 TMP\_64 = 1 not(TMP\_64) = 0 TMP\_65 = 1 not(TMP\_65) = 0 TMP\_66 = 1 not(TMP\_66) = 0 TMP\_67 = 2 TMP\_68 = 1 not(TMP\_68) = 0 TMP\_69 = 1 not(TMP\_69) = 0 TMP\_70 = 0 not(TMP\_70) = 1 TMP\_71 = 1 not(TMP\_71) = 0 TMP\_72 = 3 TMP\_73 = 0 not(TMP\_73) = 1 TMP\_74 = 0 not(TMP\_74) = 1 TMP\_75 = 0 TMP\_76 = 1 not(TMP\_76) = 0 TMP\_77 = 1 not(TMP\_77) = 0 TMP\_78 = 2 TMP\_79 = 0 not(TMP\_79) = 1 TMP\_80 = 0 not(TMP\_80) = 1 TMP\_81 = 1 not(TMP\_81) = 0 TMP\_82 = 1 not(TMP\_82) = 0 TMP\_83 = 1 not(TMP\_83) = 0 TMP\_84 = 2 TMP\_85 = 1 not(TMP\_85) = 0 TMP\_86 = 1 not(TMP\_86) = 0 TMP\_87 = 1 not(TMP\_87) = 0 TMP\_88 = 0 not(TMP\_88) = 1 TMP\_89 = 3 TMP\_90 = 0 not(TMP\_90) = 1 TMP\_91 = 0 not(TMP\_91) = 1 TMP\_92 = 0 TMP\_93 = 1 not(TMP\_93) = 0 TMP\_94 = 1 not(TMP\_94) = 0 TMP\_95 = 2 TMP\_96 = 0 not(TMP\_96) = 1 TMP\_97 = 0 not(TMP\_97) = 1 TMP\_98 = 1 not(TMP\_98) = 0 TMP\_99 = 1 not(TMP\_99) = 0 TMP\_100 = 1 not(TMP\_100) = 0 TMP\_101 = 2 TMP\_102 = 0 not(TMP\_102) = 1 TMP\_103 = 1 not(TMP\_103) = 0 TMP\_104 = 1 not(TMP\_104) = 0 TMP\_105 = 1 not(TMP\_105) = 0 TMP\_106 = 3 TMP\_107 = 0 not(TMP\_107) = 1 TMP\_108 = 0 not(TMP\_108) = 1 TMP\_109 = 0 TMP\_110 = 1 not(TMP\_110) = 0 TMP\_111 = 1 not(TMP\_111) = 0 TMP\_112 = 2 TMP\_113 = 0 not(TMP\_113) = 1 TMP\_114 = 0 not(TMP\_114) = 1 TMP\_115 = 1 not(TMP\_115) = 0 TMP\_116 = 1 not(TMP\_116) = 0 TMP\_117 = 1 not(TMP\_117) = 0 TMP\_118 = 2 TMP\_119 = 1 not(TMP\_119) = 0 TMP\_120 = 1 not(TMP\_120) = 0 TMP\_121 = 0 not(TMP\_121) = 1 TMP\_122 = 1 not(TMP\_122) = 0 TMP\_123 = 3 TMP\_124 = 0 not(TMP\_124) = 1 TMP\_125 = 0 not(TMP\_125) = 1 TMP\_126 = 0 TMP\_127 = 1 not(TMP\_127) = 0 TMP\_128 = 1 not(TMP\_128) = 0 TMP\_129 = 2 TMP\_130 = 0 not(TMP\_130) = 1 TMP\_131 = 0 not(TMP\_131) = 1 TMP\_132 = 1 not(TMP\_132) = 0 TMP\_133 = 1 not(TMP\_133) = 0 TMP\_134 = 1 not(TMP\_134) = 0 TMP\_135 = 2 TMP\_136 = 1 not(TMP\_136) = 0 TMP\_137 = 0 not(TMP\_137) = 1 TMP\_138 = 1 not(TMP\_138) = 0 TMP\_139 = 1 not(TMP\_139) = 0 TMP\_140 = 3 TMP\_141 = 0 not(TMP\_141) = 1 TMP\_142 = 0 not(TMP\_142) = 1 TMP\_143 = 0 TMP\_144 = 1 not(TMP\_144) = 0 TMP\_145 = 1 not(TMP\_145) = 0 TMP\_146 = 2 TMP\_147 = 0 not(TMP\_147) = 1 TMP\_148 = 0 not(TMP\_148) = 1 TMP\_149 = 1 not(TMP\_149) = 0 TMP\_150 = 1 not(TMP\_150) = 0 TMP\_151 = 1 not(TMP\_151) = 0 TMP\_152 = 2 TMP\_153 = 1 not(TMP\_153) = 0 TMP\_154 = 0 not(TMP\_154) = 1 TMP\_155 = 0 not(TMP\_155) = 1 TMP\_156 = 1 not(TMP\_156) = 0 TMP\_157 = 2 TMP\_158 = 0 not(TMP\_158) = 1 TMP\_159 = 0 not(TMP\_159) = 1 TMP\_160 = 0 TMP\_161 = 1 not(TMP\_161) = 0 TMP\_162 = 1 not(TMP\_162) = 0 TMP\_163 = 2 TMP\_164 = 0 not(TMP\_164) = 1 TMP\_165 = 0 not(TMP\_165) = 1 TMP\_166 = 1 not(TMP\_166) = 0 TMP\_167 = 1 not(TMP\_167) = 0 TMP\_168 = 1 not(TMP\_168) = 0 TMP\_169 = 2 TMP\_170 = 1 not(TMP\_170) = 0 TMP\_171 = 0 not(TMP\_171) = 1 TMP\_172 = 0 not(TMP\_172) = 1 TMP\_173 = 1 not(TMP\_173) = 0 TMP\_174 = 2 TMP\_175 = 0 not(TMP\_175) = 1 TMP\_176 = 0 not(TMP\_176) = 1 TMP\_177 = 0 TMP\_178 = 1 not(TMP\_178) = 0 TMP\_179 = 1 not(TMP\_179) = 0 TMP\_180 = 2 TMP\_181 = 0 not(TMP\_181) = 1 TMP\_182 = 0 not(TMP\_182) = 1 TMP\_183 = 1 not(TMP\_183) = 0 TMP\_184 = 1 not(TMP\_184) = 0 TMP\_185 = 1 not(TMP\_185) = 0 TMP\_186 = 2 TMP\_187 = 1 not(TMP\_187) = 0 TMP\_188 = 0 not(TMP\_188) = 1 TMP\_189 = 0 not(TMP\_189) = 1 TMP\_190 = 1 not(TMP\_190) = 0 TMP\_191 = 2 TMP\_192 = 0 not(TMP\_192) = 1 TMP\_193 = 0 not(TMP\_193) = 1 TMP\_194 = 0 TMP\_195 = 1 not(TMP\_195) = 0 TMP\_196 = 1 not(TMP\_196) = 0 TMP\_197 = 2 TMP\_198 = 0 not(TMP\_198) = 1 TMP\_199 = 0 not(TMP\_199) = 1 TMP\_200 = 1 not(TMP\_200) = 0 TMP\_201 = 1 not(TMP\_201) = 0 TMP\_202 = 1 not(TMP\_202) = 0 TMP\_203 = 2 TMP\_204 = 1 not(TMP\_204) = 0 TMP\_205 = 0 not(TMP\_205) = 1 TMP\_206 = 1 not(TMP\_206) = 0 TMP\_207 = 1 not(TMP\_207) = 0 TMP\_208 = 3 TMP\_209 = 0 not(TMP\_209) = 1 TMP\_210 = 0 not(TMP\_210) = 1 TMP\_211 = 0 TMP\_212 = 1 not(TMP\_212) = 0 TMP\_213 = 1 not(TMP\_213) = 0 TMP\_214 = 2 TMP\_215 = 0 not(TMP\_215) = 1 TMP\_216 = 0 not(TMP\_216) = 1 TMP\_217 = 1 not(TMP\_217) = 0 TMP\_218 = 1 not(TMP\_218) = 0 TMP\_219 = 1 not(TMP\_219) = 0 TMP\_220 = 2 TMP\_221 = 1 not(TMP\_221) = 0 TMP\_222 = 1 not(TMP\_222) = 0 TMP\_223 = 0 not(TMP\_223) = 1 TMP\_224 = 1 not(TMP\_224) = 0 TMP\_225 = 3 TMP\_226 = 0 not(TMP\_226) = 1 TMP\_227 = 0 not(TMP\_227) = 1 TMP\_228 = 0 TMP\_229 = 1 not(TMP\_229) = 0 TMP\_230 = 1 not(TMP\_230) = 0 TMP\_231 = 2 TMP\_232 = 0 not(TMP\_232) = 1 TMP\_233 = 0 not(TMP\_233) = 1 TMP\_234 = 1 not(TMP\_234) = 0 TMP\_235 = 1 not(TMP\_235) = 0 TMP\_236 = 1 not(TMP\_236) = 0 TMP\_237 = 2 TMP\_238 = 0 not(TMP\_238) = 1 TMP\_239 = 1 not(TMP\_239) = 0 TMP\_240 = 1 not(TMP\_240) = 0 TMP\_241 = 1 not(TMP\_241) = 0 TMP\_242 = 3 TMP\_243 = 0 not(TMP\_243) = 1 TMP\_244 = 0 not(TMP\_244) = 1 TMP\_245 = 0 TMP\_246 = 1 not(TMP\_246) = 0 TMP\_247 = 1 not(TMP\_247) = 0 TMP\_248 = 2 TMP\_249 = 0 not(TMP\_249) = 1 TMP\_250 = 0 not(TMP\_250) = 1 TMP\_251 = 1 not(TMP\_251) = 0 TMP\_252 = 1 not(TMP\_252) = 0 TMP\_253 = 1 not(TMP\_253) = 0 TMP\_254 = 2 TMP\_255 = 0 not(TMP\_255) = 1 TMP\_256 = 1 not(TMP\_256) = 0 TMP\_257 = 1 not(TMP\_257) = 0 TMP\_258 = 0 not(TMP\_258) = 1 TMP\_259 = 2 TMP\_260 = 0 not(TMP\_260) = 1 TMP\_261 = 0 not(TMP\_261) = 1 TMP\_262 = 0 TMP\_263 = 1 not(TMP\_263) = 0 TMP\_264 = 1 not(TMP\_264) = 0 TMP\_265 = 2 TMP\_266 = 0 not(TMP\_266) = 1 TMP\_267 = 0 not(TMP\_267) = 1 TMP\_268 = 1 not(TMP\_268) = 0 TMP\_269 = 1 not(TMP\_269) = 0 TMP\_270 = 1 not(TMP\_270) = 0 TMP\_271 = 2 TMP\_272 = 0 not(TMP\_272) = 1 TMP\_273 = 1 not(TMP\_273) = 0 TMP\_274 = 1 not(TMP\_274) = 0 TMP\_275 = 1 not(TMP\_275) = 0 TMP\_276 = 3 TMP\_277 = 0 not(TMP\_277) = 1 TMP\_278 = 0 not(TMP\_278) = 1 TMP\_279 = 0 TMP\_280 = 1 not(TMP\_280) = 0 TMP\_281 = 1 not(TMP\_281) = 0 TMP\_282 = 2 TMP\_283 = 0 not(TMP\_283) = 1 TMP\_284 = 0 not(TMP\_284) = 1 TMP\_285 = 1 not(TMP\_285) = 0 TMP\_286 = 1 not(TMP\_286) = 0 TMP\_287 = 1 not(TMP\_287) = 0 TMP\_288 = 2 TMP\_289 = 1 not(TMP\_289) = 0 TMP\_290 = 1 not(TMP\_290) = 0 TMP\_291 = 1 not(TMP\_291) = 0 TMP\_292 = 0 not(TMP\_292) = 1 TMP\_293 = 3 TMP\_294 = 0 not(TMP\_294) = 1 TMP\_295 = 0 not(TMP\_295) = 1 TMP\_296 = 0 TMP\_297 = 1 not(TMP\_297) = 0 TMP\_298 = 1 not(TMP\_298) = 0 TMP\_299 = 2 TMP\_300 = 0 not(TMP\_300) = 1 TMP\_301 = 0 not(TMP\_301) = 1 TMP\_302 = 1 not(TMP\_302) = 0 TMP\_303 = 1 not(TMP\_303) = 0 TMP\_304 = 1 not(TMP\_304) = 0 TMP\_305 = 2 TMP\_306 = 0 not(TMP\_306) = 1 TMP\_307 = 1 not(TMP\_307) = 0 TMP\_308 = 1 not(TMP\_308) = 0 TMP\_309 = 0 not(TMP\_309) = 1 TMP\_310 = 2 TMP\_311 = 0 not(TMP\_311) = 1 TMP\_312 = 0 not(TMP\_312) = 1 TMP\_313 = 0 TMP\_314 = 1 not(TMP\_314) = 0 TMP\_315 = 1 not(TMP\_315) = 0 TMP\_316 = 2 TMP\_317 = 0 not(TMP\_317) = 1 TMP\_318 = 0 not(TMP\_318) = 1 TMP\_319 = 1 not(TMP\_319) = 0 TMP\_320 = 1 not(TMP\_320) = 0 TMP\_321 = 1 not(TMP\_321) = 0 TMP\_322 = 2 TMP\_323 = 1 not(TMP\_323) = 0 TMP\_324 = 1 not(TMP\_324) = 0 TMP\_325 = 1 not(TMP\_325) = 0 TMP\_326 = 0 not(TMP\_326) = 1 TMP\_327 = 3 TMP\_328 = 0 not(TMP\_328) = 1 TMP\_329 = 0 not(TMP\_329) = 1 TMP\_330 = 0 TMP\_331 = 1 not(TMP\_331) = 0 TMP\_332 = 1 not(TMP\_332) = 0 TMP\_333 = 2 TMP\_334 = 0 not(TMP\_334) = 1 TMP\_335 = 0 not(TMP\_335) = 1 TMP\_336 = 1 not(TMP\_336) = 0 TMP\_337 = 1 not(TMP\_337) = 0 TMP\_338 = 1 not(TMP\_338) = 0 TMP\_339 = 2 TMP\_340 = 0 not(TMP\_340) = 1 TMP\_341 = 1 not(TMP\_341) = 0 TMP\_342 = 1 not(TMP\_342) = 0 TMP\_343 = 1 not(TMP\_343) = 0 TMP\_344 = 3 TMP\_345 = 0 not(TMP\_345) = 1 TMP\_346 = 0 not(TMP\_346) = 1 TMP\_347 = 0 TMP\_348 = 1 not(TMP\_348) = 0 TMP\_349 = 1 not(TMP\_349) = 0 TMP\_350 = 2 TMP\_351 = 0 not(TMP\_351) = 1 TMP\_352 = 0 not(TMP\_352) = 1 TMP\_353 = 1 not(TMP\_353) = 0 TMP\_354 = 1 not(TMP\_354) = 0 TMP\_355 = 1 not(TMP\_355) = 0 TMP\_356 = 2 TMP\_357 = 1 not(TMP\_357) = 0 TMP\_358 = 1 not(TMP\_358) = 0 TMP\_359 = 0 not(TMP\_359) = 1 TMP\_360 = 1 not(TMP\_360) = 0 TMP\_361 = 3 TMP\_362 = 0 not(TMP\_362) = 1 TMP\_363 = 0 not(TMP\_363) = 1 TMP\_364 = 0 TMP\_365 = 1 not(TMP\_365) = 0 TMP\_366 = 1 not(TMP\_366) = 0 TMP\_367 = 2 TMP\_368 = 0 not(TMP\_368) = 1 TMP\_369 = 0 not(TMP\_369) = 1 TMP\_370 = 1 not(TMP\_370) = 0 TMP\_371 = 1 not(TMP\_371) = 0 TMP\_372 = 1 not(TMP\_372) = 0 TMP\_373 = 2 TMP\_374 = 0 not(TMP\_374) = 1 TMP\_375 = 1 not(TMP\_375) = 0 TMP\_376 = 1 not(TMP\_376) = 0 TMP\_377 = 1 not(TMP\_377) = 0 TMP\_378 = 3 TMP\_379 = 0 not(TMP\_379) = 1 TMP\_380 = 0 not(TMP\_380) = 1 TMP\_381 = 0 TMP\_382 = 1 not(TMP\_382) = 0 TMP\_383 = 1 not(TMP\_383) = 0 TMP\_384 = 2 TMP\_385 = 0 not(TMP\_385) = 1 TMP\_386 = 0 not(TMP\_386) = 1 TMP\_387 = 1 not(TMP\_387) = 0 TMP\_388 = 1 not(TMP\_388) = 0 TMP\_389 = 1 not(TMP\_389) = 0 TMP\_390 = 2 TMP\_391 = 1 not(TMP\_391) = 0 TMP\_392 = 1 not(TMP\_392) = 0 TMP\_393 = 0 not(TMP\_393) = 1 TMP\_394 = 1 not(TMP\_394) = 0 TMP\_395 = 3 TMP\_396 = 0 not(TMP\_396) = 1 TMP\_397 = 0 not(TMP\_397) = 1 TMP\_398 = 0 TMP\_399 = 1 not(TMP\_399) = 0 TMP\_400 = 1 not(TMP\_400) = 0 TMP\_401 = 2 TMP\_402 = 0 not(TMP\_402) = 1 TMP\_403 = 0 not(TMP\_403) = 1 TMP\_404 = 1 not(TMP\_404) = 0 TMP\_405 = 1 not(TMP\_405) = 0 TMP\_406 = 1 not(TMP\_406) = 0 TMP\_407 = 2 TMP\_408 = 1 not(TMP\_408) = 0 TMP\_409 = 1 not(TMP\_409) = 0 TMP\_410 = 0 not(TMP\_410) = 1 TMP\_411 = 1 not(TMP\_411) = 0 TMP\_412 = 3 TMP\_413 = 0 not(TMP\_413) = 1 TMP\_414 = 0 not(TMP\_414) = 1 TMP\_415 = 0 TMP\_416 = 1 not(TMP\_416) = 0 TMP\_417 = 1 not(TMP\_417) = 0 TMP\_418 = 2 TMP\_419 = 0 not(TMP\_419) = 1 TMP\_420 = 0 not(TMP\_420) = 1 TMP\_421 = 1 not(TMP\_421) = 0 TMP\_422 = 1 not(TMP\_422) = 0 TMP\_423 = 1 not(TMP\_423) = 0 TMP\_424 = 2 TMP\_425 = 0 not(TMP\_425) = 1 TMP\_426 = 1 not(TMP\_426) = 0 TMP\_427 = 1 not(TMP\_427) = 0 TMP\_428 = 1 not(TMP\_428) = 0 TMP\_429 = 3 TMP\_430 = 0 not(TMP\_430) = 1 TMP\_431 = 0 not(TMP\_431) = 1 TMP\_432 = 0 TMP\_433 = 1 not(TMP\_433) = 0 TMP\_434 = 1 not(TMP\_434) = 0 TMP\_435 = 2 TMP\_436 = 0 not(TMP\_436) = 1 TMP\_437 = 0 not(TMP\_437) = 1 TMP\_438 = 1 not(TMP\_438) = 0 TMP\_439 = 1 not(TMP\_439) = 0 TMP\_440 = 1 not(TMP\_440) = 0 TMP\_441 = 2 TMP\_442 = 1 not(TMP\_442) = 0 TMP\_443 = 1 not(TMP\_443) = 0 TMP\_444 = 0 not(TMP\_444) = 1 TMP\_445 = 1 not(TMP\_445) = 0 TMP\_446 = 3 TMP\_447 = 0 not(TMP\_447) = 1 TMP\_448 = 0 not(TMP\_448) = 1 TMP\_449 = 0 TMP\_450 = 1 not(TMP\_450) = 0 TMP\_451 = 1 not(TMP\_451) = 0 TMP\_452 = 2 TMP\_453 = 0 not(TMP\_453) = 1 TMP\_454 = 0 not(TMP\_454) = 1 TMP\_455 = 1 not(TMP\_455) = 0 TMP\_456 = 1 not(TMP\_456) = 0 TMP\_457 = 1 not(TMP\_457) = 0 TMP\_458 = 2 TMP\_459 = 0 not(TMP\_459) = 1 TMP\_460 = 1 not(TMP\_460) = 0 TMP\_461 = 0 not(TMP\_461) = 1 TMP\_462 = 1 not(TMP\_462) = 0 TMP\_463 = 2 TMP\_464 = 0 not(TMP\_464) = 1 TMP\_465 = 0 not(TMP\_465) = 1 TMP\_466 = 0 TMP\_467 = 1 not(TMP\_467) = 0 TMP\_468 = 1 not(TMP\_468) = 0 TMP\_469 = 2 TMP\_470 = 0 not(TMP\_470) = 1 TMP\_471 = 0 not(TMP\_471) = 1 TMP\_472 = 1 not(TMP\_472) = 0 TMP\_473 = 1 not(TMP\_473) = 0 TMP\_474 = 1 not(TMP\_474) = 0 TMP\_475 = 2 TMP\_476 = 1 not(TMP\_476) = 0 TMP\_477 = 1 not(TMP\_477) = 0 TMP\_478 = 0 not(TMP\_478) = 1 TMP\_479 = 1 not(TMP\_479) = 0 TMP\_480 = 3 TMP\_481 = 0 not(TMP\_481) = 1 TMP\_482 = 0 not(TMP\_482) = 1 TMP\_483 = 0 TMP\_484 = 1 not(TMP\_484) = 0 TMP\_485 = 1 not(TMP\_485) = 0 TMP\_486 = 2 TMP\_487 = 0 not(TMP\_487) = 1 TMP\_488 = 0 not(TMP\_488) = 1 TMP\_489 = 1 not(TMP\_489) = 0 TMP\_490 = 1 not(TMP\_490) = 0 TMP\_491 = 1 not(TMP\_491) = 0 TMP\_492 = 2 TMP\_493 = 1 not(TMP\_493) = 0 TMP\_494 = 1 not(TMP\_494) = 0 TMP\_495 = 1 not(TMP\_495) = 0 TMP\_496 = 0 not(TMP\_496) = 1 TMP\_497 = 3 TMP\_498 = 0 not(TMP\_498) = 1 TMP\_499 = 0 not(TMP\_499) = 1 TMP\_500 = 0 TMP\_501 = 1 not(TMP\_501) = 0 TMP\_502 = 1 not(TMP\_502) = 0 TMP\_503 = 2 TMP\_504 = 0 not(TMP\_504) = 1 TMP\_505 = 0 not(TMP\_505) = 1 TMP\_506 = 1 not(TMP\_506) = 0 TMP\_507 = 1 not(TMP\_507) = 0 TMP\_508 = 1 not(TMP\_508) = 0 TMP\_509 = 2 TMP\_510 = 1 not(TMP\_510) = 0 TMP\_511 = 0 not(TMP\_511) = 1 TMP\_512 = 1 not(TMP\_512) = 0 TMP\_513 = 1 not(TMP\_513) = 0 TMP\_514 = 3 TMP\_515 = 0 not(TMP\_515) = 1 TMP\_516 = 0 not(TMP\_516) = 1 TMP\_517 = 0 TMP\_518 = 1 not(TMP\_518) = 0 TMP\_519 = 1 not(TMP\_519) = 0 TMP\_520 = 2 TMP\_521 = 0 not(TMP\_521) = 1 TMP\_522 = 0 not(TMP\_522) = 1 TMP\_523 = 1 not(TMP\_523) = 0 TMP\_524 = 1 not(TMP\_524) = 0 TMP\_525 = 1 not(TMP\_525) = 0 TMP\_526 = 2 TMP\_527 = 1 not(TMP\_527) = 0 TMP\_528 = 0 not(TMP\_528) = 1 TMP\_529 = 1 not(TMP\_529) = 0 TMP\_530 = 1 not(TMP\_530) = 0 TMP\_531 = 3 TMP\_532 = 0 not(TMP\_532) = 1 TMP\_533 = 0 not(TMP\_533) = 1 TMP\_534 = 0 TMP\_535 = 1 not(TMP\_535) = 0 TMP\_536 = 1 not(TMP\_536) = 0 TMP\_537 = 2 TMP\_538 = 0 not(TMP\_538) = 1 TMP\_539 = 0 not(TMP\_539) = 1 TMP\_540 = 1 not(TMP\_540) = 0 TMP\_541 = 1 not(TMP\_541) = 0 TMP\_542 = 1 not(TMP\_542) = 0 TMP\_543 = 2 TMP\_544 = 1 not(TMP\_544) = 0 TMP\_545 = 1 not(TMP\_545) = 0 TMP\_546 = 1 not(TMP\_546) = 0 TMP\_547 = 0 not(TMP\_547) = 1 TMP\_548 = 3 TMP\_549 = 0 not(TMP\_549) = 1 TMP\_550 = 0 not(TMP\_550) = 1 TMP\_551 = 0 TMP\_552 = 1 not(TMP\_552) = 0 TMP\_553 = 1 not(TMP\_553) = 0 TMP\_554 = 2 TMP\_555 = 0 not(TMP\_555) = 1 TMP\_556 = 0 not(TMP\_556) = 1 TMP\_557 = 1 not(TMP\_557) = 0 TMP\_558 = 1 not(TMP\_558) = 0 TMP\_559 = 1 not(TMP\_559) = 0 TMP\_560 = 2 TMP\_561 = 1 not(TMP\_561) = 0 TMP\_562 = 0 not(TMP\_562) = 1 TMP\_563 = 1 not(TMP\_563) = 0 TMP\_564 = 1 not(TMP\_564) = 0 TMP\_565 = 3 TMP\_566 = 0 not(TMP\_566) = 1 TMP\_567 = 0 not(TMP\_567) = 1 TMP\_568 = 0 TMP\_569 = 1 not(TMP\_569) = 0 TMP\_570 = 1 not(TMP\_570) = 0 TMP\_571 = 2 TMP\_572 = 0 not(TMP\_572) = 1 TMP\_573 = 0 not(TMP\_573) = 1 TMP\_574 = 1 not(TMP\_574) = 0 TMP\_575 = 1 not(TMP\_575) = 0 TMP\_576 = 1 not(TMP\_576) = 0 TMP\_577 = 2 TMP\_578 = 1 not(TMP\_578) = 0 TMP\_579 = 0 not(TMP\_579) = 1 TMP\_580 = 1 not(TMP\_580) = 0 TMP\_581 = 0 not(TMP\_581) = 1 TMP\_582 = 2 TMP\_583 = 0 not(TMP\_583) = 1 TMP\_584 = 0 not(TMP\_584) = 1 TMP\_585 = 0 TMP\_586 = 1 not(TMP\_586) = 0 TMP\_587 = 1 not(TMP\_587) = 0 TMP\_588 = 2 TMP\_589 = 0 not(TMP\_589) = 1 TMP\_590 = 0 not(TMP\_590) = 1 TMP\_591 = 1 not(TMP\_591) = 0 TMP\_592 = 1 not(TMP\_592) = 0 TMP\_593 = 1 not(TMP\_593) = 0 TMP\_594 = 2 Area\_0 = 10000 Distance\_0\_Rule\_0 = 100 Distance\_1\_Rule\_0 = 100 Area\_1 = 5000 Distance\_0\_Rule\_1 = 50 Distance\_1\_Rule\_1 = 100 Area\_2 = 25000 Distance\_0\_Rule\_2 = 100 Distance\_1\_Rule\_2 = 250 Area\_3 = 20000 -(Rule\_3\_LB) = -50 Distance\_0\_Rule\_3 = 200 -(Rule\_3\_LB) = -300 Distance\_1\_Rule\_3 = 100 Area\_4 = 2500 -(Rule\_4\_LB) = 0 Distance\_0\_Rule\_4 = 25 -(Rule\_4\_LB) = -400 Distance\_1\_Rule\_4 = 100 Area\_5 = 30000 -(Rule\_5\_LB) = -150 Distance\_0\_Rule\_5 = 100 -(Rule\_5\_LB) = 0 Distance\_1\_Rule\_5 = 300 Area\_6 = 17500 -(Rule\_6\_LB) = -75 Distance\_0\_Rule\_6 = 175 -(Rule\_6\_LB) = -400 Distance\_1\_Rule\_6 = 100 Area\_7 = 15000 -(Rule\_7\_LB) = 0 Distance\_0\_Rule\_7 = 50 -(Rule\_7\_LB) = -100 Distance\_1\_Rule\_7 = 300 TMP\_595 = 125000 .

- Solution #10 found. 10 Solutions, Resolution 0.930s, 4692 Nodes (5,047.3 n/s), 9196 Backtracks, 4647 Fails, 0 Restarts

Rule\_3\_LB = 50 Rule\_3\_UB = 250 Rule\_3\_LB = 300 Rule\_3\_UB = 400 Rule\_4\_LB = 0 Rule\_4\_UB = 25 Rule\_4\_LB = 400 Rule\_4\_UB = 500 Rule\_5\_LB = 150 Rule\_5\_UB = 250 Rule\_5\_LB = 0 Rule\_5\_UB = 300 Rule\_6\_LB = 75 Rule\_6\_UB = 250 Rule\_6\_LB = 400 Rule\_6\_UB = 500 Rule\_7\_LB = 0 Rule\_7\_UB = 50 Rule\_7\_LB = 100 Rule\_7\_UB = 400 Overlaps\_0\_0 = 0 Overlaps\_0\_1 = 1 Overlaps\_0\_2 = 0 Overlaps\_0\_3 = 0 Overlaps\_0\_4 = 0 Overlaps\_0\_5 = 0 Overlaps\_0\_6 = 0 Overlaps\_0\_7 = 0 Overlaps\_1\_0 = 0 Overlaps\_1\_1 = 0 Overlaps\_1\_2 = 1 Overlaps\_1\_3 = 0 Overlaps\_1\_4 = 0 Overlaps\_1\_5 = 0 Overlaps\_1\_6 = 0 Overlaps\_1\_7 = 0 Overlaps\_2\_0 = 0 Overlaps\_2\_1 = 0 Overlaps\_2\_2 = 0 Overlaps\_2\_3 = 0 Overlaps\_2\_4 = 0 Overlaps\_2\_5 = 0 Overlaps\_2\_6 = 0 Overlaps\_2\_7 = 0 Overlaps\_3\_0 = 0 Overlaps\_3\_1 = 0 Overlaps\_3\_2 = 0 Overlaps\_3\_3 = 0 Overlaps\_3\_4 = 0 Overlaps\_3\_5 = 0 Overlaps\_3\_6 = 0 Overlaps\_3\_7 = 0 Overlaps\_4\_0 = 0 Overlaps\_4\_1 = 0 Overlaps\_4\_2 = 0 Overlaps\_4\_3 = 0 Overlaps\_4\_4 = 0 Overlaps\_4\_5 = 0 Overlaps\_4\_6 = 0 Overlaps\_4\_7 = 0 Overlaps\_5\_0 = 0 Overlaps\_5\_1 = 0 Overlaps\_5\_2 = 0 Overlaps\_5\_3 = 0 Overlaps\_5\_4 = 0 Overlaps\_5\_5 = 0 Overlaps\_5\_6 = 0 Overlaps\_5\_7 = 0 Overlaps\_6\_0 = 0 Overlaps\_6\_1 = 0 Overlaps\_6\_2 = 0 Overlaps\_6\_3 = 0 Overlaps\_6\_4 = 0 Overlaps\_6\_5 = 0 Overlaps\_6\_6 = 0 Overlaps\_6\_7 = 0 Overlaps\_7\_0 = 0 Overlaps\_7\_1 = 0 Overlaps\_7\_2 = 0 Overlaps\_7\_3 = 0 Overlaps\_7\_4 = 0 Overlaps\_7\_5 = 0 Overlaps\_7\_6 = 0 Overlaps\_7\_7 = 0 TMP\_0 = 1 not(TMP\_0) = 0 TMP\_1 = 1 not(TMP\_1) = 0 TMP\_2 = 0 not(TMP\_2) = 1 TMP\_3 = 1 not(TMP\_3) = 0 TMP\_4 = 3 TMP\_5 = 0 not(TMP\_5) = 1 TMP\_6 = 0 not(TMP\_6) = 1 TMP\_7 = 0 TMP\_8 = 1 not(TMP\_8) = 0 TMP\_9 = 1 not(TMP\_9) = 0 TMP\_10 = 2 TMP\_11 = 0 not(TMP\_11) = 1 TMP\_12 = 0 not(TMP\_12) = 1 TMP\_13 = 1 not(TMP\_13) = 0 TMP\_14 = 1 not(TMP\_14) = 0 TMP\_15 = 1 not(TMP\_15) = 0 TMP\_16 = 2 TMP\_17 = 1 not(TMP\_17) = 0 TMP\_18 = 1 not(TMP\_18) = 0 TMP\_19 = 1 not(TMP\_19) = 0 TMP\_20 = 0 not(TMP\_20) = 1 TMP\_21 = 3 TMP\_22 = 0 not(TMP\_22) = 1 TMP\_23 = 0 not(TMP\_23) = 1 TMP\_24 = 0 TMP\_25 = 1 not(TMP\_25) = 0 TMP\_26 = 1 not(TMP\_26) = 0 TMP\_27 = 2 TMP\_28 = 0 not(TMP\_28) = 1 TMP\_29 = 0 not(TMP\_29) = 1 TMP\_30 = 1 not(TMP\_30) = 0 TMP\_31 = 1 not(TMP\_31) = 0 TMP\_32 = 1 not(TMP\_32) = 0 TMP\_33 = 2 TMP\_34 = 1 not(TMP\_34) = 0 TMP\_35 = 1 not(TMP\_35) = 0 TMP\_36 = 0 not(TMP\_36) = 1 TMP\_37 = 1 not(TMP\_37) = 0 TMP\_38 = 3 TMP\_39 = 0 not(TMP\_39) = 1 TMP\_40 = 0 not(TMP\_40) = 1 TMP\_41 = 0 TMP\_42 = 1 not(TMP\_42) = 0 TMP\_43 = 1 not(TMP\_43) = 0 TMP\_44 = 2 TMP\_45 = 0 not(TMP\_45) = 1 TMP\_46 = 0 not(TMP\_46) = 1 TMP\_47 = 1 not(TMP\_47) = 0 TMP\_48 = 1 not(TMP\_48) = 0 TMP\_49 = 1 not(TMP\_49) = 0 TMP\_50 = 2 TMP\_51 = 0 not(TMP\_51) = 1 TMP\_52 = 1 not(TMP\_52) = 0 TMP\_53 = 1 not(TMP\_53) = 0 TMP\_54 = 0 not(TMP\_54) = 1 TMP\_55 = 2 TMP\_56 = 0 not(TMP\_56) = 1 TMP\_57 = 0 not(TMP\_57) = 1 TMP\_58 = 0 TMP\_59 = 1 not(TMP\_59) = 0 TMP\_60 = 1 not(TMP\_60) = 0 TMP\_61 = 2 TMP\_62 = 0 not(TMP\_62) = 1 TMP\_63 = 0 not(TMP\_63) = 1 TMP\_64 = 1 not(TMP\_64) = 0 TMP\_65 = 1 not(TMP\_65) = 0 TMP\_66 = 1 not(TMP\_66) = 0 TMP\_67 = 2 TMP\_68 = 1 not(TMP\_68) = 0 TMP\_69 = 1 not(TMP\_69) = 0 TMP\_70 = 0 not(TMP\_70) = 1 TMP\_71 = 1 not(TMP\_71) = 0 TMP\_72 = 3 TMP\_73 = 0 not(TMP\_73) = 1 TMP\_74 = 0 not(TMP\_74) = 1 TMP\_75 = 0 TMP\_76 = 1 not(TMP\_76) = 0 TMP\_77 = 1 not(TMP\_77) = 0 TMP\_78 = 2 TMP\_79 = 0 not(TMP\_79) = 1 TMP\_80 = 0 not(TMP\_80) = 1 TMP\_81 = 1 not(TMP\_81) = 0 TMP\_82 = 1 not(TMP\_82) = 0 TMP\_83 = 1 not(TMP\_83) = 0 TMP\_84 = 2 TMP\_85 = 1 not(TMP\_85) = 0 TMP\_86 = 1 not(TMP\_86) = 0 TMP\_87 = 1 not(TMP\_87) = 0 TMP\_88 = 0 not(TMP\_88) = 1 TMP\_89 = 3 TMP\_90 = 0 not(TMP\_90) = 1 TMP\_91 = 0 not(TMP\_91) = 1 TMP\_92 = 0 TMP\_93 = 1 not(TMP\_93) = 0 TMP\_94 = 1 not(TMP\_94) = 0 TMP\_95 = 2 TMP\_96 = 0 not(TMP\_96) = 1 TMP\_97 = 0 not(TMP\_97) = 1 TMP\_98 = 1 not(TMP\_98) = 0 TMP\_99 = 1 not(TMP\_99) = 0 TMP\_100 = 1 not(TMP\_100) = 0 TMP\_101 = 2 TMP\_102 = 0 not(TMP\_102) = 1 TMP\_103 = 1 not(TMP\_103) = 0 TMP\_104 = 1 not(TMP\_104) = 0 TMP\_105 = 1 not(TMP\_105) = 0 TMP\_106 = 3 TMP\_107 = 0 not(TMP\_107) = 1 TMP\_108 = 0 not(TMP\_108) = 1 TMP\_109 = 0 TMP\_110 = 1 not(TMP\_110) = 0 TMP\_111 = 1 not(TMP\_111) = 0 TMP\_112 = 2 TMP\_113 = 0 not(TMP\_113) = 1 TMP\_114 = 0 not(TMP\_114) = 1 TMP\_115 = 1 not(TMP\_115) = 0 TMP\_116 = 1 not(TMP\_116) = 0 TMP\_117 = 1 not(TMP\_117) = 0 TMP\_118 = 2 TMP\_119 = 1 not(TMP\_119) = 0 TMP\_120 = 1 not(TMP\_120) = 0 TMP\_121 = 0 not(TMP\_121) = 1 TMP\_122 = 1 not(TMP\_122) = 0 TMP\_123 = 3 TMP\_124 = 0 not(TMP\_124) = 1 TMP\_125 = 0 not(TMP\_125) = 1 TMP\_126 = 0 TMP\_127 = 1 not(TMP\_127) = 0 TMP\_128 = 1 not(TMP\_128) = 0 TMP\_129 = 2 TMP\_130 = 0 not(TMP\_130) = 1 TMP\_131 = 0 not(TMP\_131) = 1 TMP\_132 = 1 not(TMP\_132) = 0 TMP\_133 = 1 not(TMP\_133) = 0 TMP\_134 = 1 not(TMP\_134) = 0 TMP\_135 = 2 TMP\_136 = 1 not(TMP\_136) = 0 TMP\_137 = 0 not(TMP\_137) = 1 TMP\_138 = 1 not(TMP\_138) = 0 TMP\_139 = 1 not(TMP\_139) = 0 TMP\_140 = 3 TMP\_141 = 0 not(TMP\_141) = 1 TMP\_142 = 0 not(TMP\_142) = 1 TMP\_143 = 0 TMP\_144 = 1 not(TMP\_144) = 0 TMP\_145 = 1 not(TMP\_145) = 0 TMP\_146 = 2 TMP\_147 = 0 not(TMP\_147) = 1 TMP\_148 = 0 not(TMP\_148) = 1 TMP\_149 = 1 not(TMP\_149) = 0 TMP\_150 = 1 not(TMP\_150) = 0 TMP\_151 = 1 not(TMP\_151) = 0 TMP\_152 = 2 TMP\_153 = 1 not(TMP\_153) = 0 TMP\_154 = 0 not(TMP\_154) = 1 TMP\_155 = 0 not(TMP\_155) = 1 TMP\_156 = 1 not(TMP\_156) = 0 TMP\_157 = 2 TMP\_158 = 0 not(TMP\_158) = 1 TMP\_159 = 0 not(TMP\_159) = 1 TMP\_160 = 0 TMP\_161 = 1 not(TMP\_161) = 0 TMP\_162 = 1 not(TMP\_162) = 0 TMP\_163 = 2 TMP\_164 = 0 not(TMP\_164) = 1 TMP\_165 = 0 not(TMP\_165) = 1 TMP\_166 = 1 not(TMP\_166) = 0 TMP\_167 = 1 not(TMP\_167) = 0 TMP\_168 = 1 not(TMP\_168) = 0 TMP\_169 = 2 TMP\_170 = 1 not(TMP\_170) = 0 TMP\_171 = 0 not(TMP\_171) = 1 TMP\_172 = 0 not(TMP\_172) = 1 TMP\_173 = 1 not(TMP\_173) = 0 TMP\_174 = 2 TMP\_175 = 0 not(TMP\_175) = 1 TMP\_176 = 0 not(TMP\_176) = 1 TMP\_177 = 0 TMP\_178 = 1 not(TMP\_178) = 0 TMP\_179 = 1 not(TMP\_179) = 0 TMP\_180 = 2 TMP\_181 = 0 not(TMP\_181) = 1 TMP\_182 = 0 not(TMP\_182) = 1 TMP\_183 = 1 not(TMP\_183) = 0 TMP\_184 = 1 not(TMP\_184) = 0 TMP\_185 = 1 not(TMP\_185) = 0 TMP\_186 = 2 TMP\_187 = 1 not(TMP\_187) = 0 TMP\_188 = 0 not(TMP\_188) = 1 TMP\_189 = 0 not(TMP\_189) = 1 TMP\_190 = 1 not(TMP\_190) = 0 TMP\_191 = 2 TMP\_192 = 0 not(TMP\_192) = 1 TMP\_193 = 0 not(TMP\_193) = 1 TMP\_194 = 0 TMP\_195 = 1 not(TMP\_195) = 0 TMP\_196 = 1 not(TMP\_196) = 0 TMP\_197 = 2 TMP\_198 = 0 not(TMP\_198) = 1 TMP\_199 = 0 not(TMP\_199) = 1 TMP\_200 = 1 not(TMP\_200) = 0 TMP\_201 = 1 not(TMP\_201) = 0 TMP\_202 = 1 not(TMP\_202) = 0 TMP\_203 = 2 TMP\_204 = 1 not(TMP\_204) = 0 TMP\_205 = 0 not(TMP\_205) = 1 TMP\_206 = 1 not(TMP\_206) = 0 TMP\_207 = 1 not(TMP\_207) = 0 TMP\_208 = 3 TMP\_209 = 0 not(TMP\_209) = 1 TMP\_210 = 0 not(TMP\_210) = 1 TMP\_211 = 0 TMP\_212 = 1 not(TMP\_212) = 0 TMP\_213 = 1 not(TMP\_213) = 0 TMP\_214 = 2 TMP\_215 = 0 not(TMP\_215) = 1 TMP\_216 = 0 not(TMP\_216) = 1 TMP\_217 = 1 not(TMP\_217) = 0 TMP\_218 = 1 not(TMP\_218) = 0 TMP\_219 = 1 not(TMP\_219) = 0 TMP\_220 = 2 TMP\_221 = 1 not(TMP\_221) = 0 TMP\_222 = 1 not(TMP\_222) = 0 TMP\_223 = 0 not(TMP\_223) = 1 TMP\_224 = 1 not(TMP\_224) = 0 TMP\_225 = 3 TMP\_226 = 0 not(TMP\_226) = 1 TMP\_227 = 0 not(TMP\_227) = 1 TMP\_228 = 0 TMP\_229 = 1 not(TMP\_229) = 0 TMP\_230 = 1 not(TMP\_230) = 0 TMP\_231 = 2 TMP\_232 = 0 not(TMP\_232) = 1 TMP\_233 = 0 not(TMP\_233) = 1 TMP\_234 = 1 not(TMP\_234) = 0 TMP\_235 = 1 not(TMP\_235) = 0 TMP\_236 = 1 not(TMP\_236) = 0 TMP\_237 = 2 TMP\_238 = 0 not(TMP\_238) = 1 TMP\_239 = 1 not(TMP\_239) = 0 TMP\_240 = 1 not(TMP\_240) = 0 TMP\_241 = 1 not(TMP\_241) = 0 TMP\_242 = 3 TMP\_243 = 0 not(TMP\_243) = 1 TMP\_244 = 0 not(TMP\_244) = 1 TMP\_245 = 0 TMP\_246 = 1 not(TMP\_246) = 0 TMP\_247 = 1 not(TMP\_247) = 0 TMP\_248 = 2 TMP\_249 = 0 not(TMP\_249) = 1 TMP\_250 = 0 not(TMP\_250) = 1 TMP\_251 = 1 not(TMP\_251) = 0 TMP\_252 = 1 not(TMP\_252) = 0 TMP\_253 = 1 not(TMP\_253) = 0 TMP\_254 = 2 TMP\_255 = 0 not(TMP\_255) = 1 TMP\_256 = 1 not(TMP\_256) = 0 TMP\_257 = 1 not(TMP\_257) = 0 TMP\_258 = 0 not(TMP\_258) = 1 TMP\_259 = 2 TMP\_260 = 0 not(TMP\_260) = 1 TMP\_261 = 0 not(TMP\_261) = 1 TMP\_262 = 0 TMP\_263 = 1 not(TMP\_263) = 0 TMP\_264 = 1 not(TMP\_264) = 0 TMP\_265 = 2 TMP\_266 = 0 not(TMP\_266) = 1 TMP\_267 = 0 not(TMP\_267) = 1 TMP\_268 = 1 not(TMP\_268) = 0 TMP\_269 = 1 not(TMP\_269) = 0 TMP\_270 = 1 not(TMP\_270) = 0 TMP\_271 = 2 TMP\_272 = 0 not(TMP\_272) = 1 TMP\_273 = 1 not(TMP\_273) = 0 TMP\_274 = 1 not(TMP\_274) = 0 TMP\_275 = 1 not(TMP\_275) = 0 TMP\_276 = 3 TMP\_277 = 0 not(TMP\_277) = 1 TMP\_278 = 0 not(TMP\_278) = 1 TMP\_279 = 0 TMP\_280 = 1 not(TMP\_280) = 0 TMP\_281 = 1 not(TMP\_281) = 0 TMP\_282 = 2 TMP\_283 = 0 not(TMP\_283) = 1 TMP\_284 = 0 not(TMP\_284) = 1 TMP\_285 = 1 not(TMP\_285) = 0 TMP\_286 = 1 not(TMP\_286) = 0 TMP\_287 = 1 not(TMP\_287) = 0 TMP\_288 = 2 TMP\_289 = 1 not(TMP\_289) = 0 TMP\_290 = 1 not(TMP\_290) = 0 TMP\_291 = 1 not(TMP\_291) = 0 TMP\_292 = 0 not(TMP\_292) = 1 TMP\_293 = 3 TMP\_294 = 0 not(TMP\_294) = 1 TMP\_295 = 0 not(TMP\_295) = 1 TMP\_296 = 0 TMP\_297 = 1 not(TMP\_297) = 0 TMP\_298 = 1 not(TMP\_298) = 0 TMP\_299 = 2 TMP\_300 = 0 not(TMP\_300) = 1 TMP\_301 = 0 not(TMP\_301) = 1 TMP\_302 = 1 not(TMP\_302) = 0 TMP\_303 = 1 not(TMP\_303) = 0 TMP\_304 = 1 not(TMP\_304) = 0 TMP\_305 = 2 TMP\_306 = 0 not(TMP\_306) = 1 TMP\_307 = 1 not(TMP\_307) = 0 TMP\_308 = 1 not(TMP\_308) = 0 TMP\_309 = 0 not(TMP\_309) = 1 TMP\_310 = 2 TMP\_311 = 0 not(TMP\_311) = 1 TMP\_312 = 0 not(TMP\_312) = 1 TMP\_313 = 0 TMP\_314 = 1 not(TMP\_314) = 0 TMP\_315 = 1 not(TMP\_315) = 0 TMP\_316 = 2 TMP\_317 = 0 not(TMP\_317) = 1 TMP\_318 = 0 not(TMP\_318) = 1 TMP\_319 = 1 not(TMP\_319) = 0 TMP\_320 = 1 not(TMP\_320) = 0 TMP\_321 = 1 not(TMP\_321) = 0 TMP\_322 = 2 TMP\_323 = 1 not(TMP\_323) = 0 TMP\_324 = 1 not(TMP\_324) = 0 TMP\_325 = 1 not(TMP\_325) = 0 TMP\_326 = 0 not(TMP\_326) = 1 TMP\_327 = 3 TMP\_328 = 0 not(TMP\_328) = 1 TMP\_329 = 0 not(TMP\_329) = 1 TMP\_330 = 0 TMP\_331 = 1 not(TMP\_331) = 0 TMP\_332 = 1 not(TMP\_332) = 0 TMP\_333 = 2 TMP\_334 = 0 not(TMP\_334) = 1 TMP\_335 = 0 not(TMP\_335) = 1 TMP\_336 = 1 not(TMP\_336) = 0 TMP\_337 = 1 not(TMP\_337) = 0 TMP\_338 = 1 not(TMP\_338) = 0 TMP\_339 = 2 TMP\_340 = 0 not(TMP\_340) = 1 TMP\_341 = 1 not(TMP\_341) = 0 TMP\_342 = 1 not(TMP\_342) = 0 TMP\_343 = 1 not(TMP\_343) = 0 TMP\_344 = 3 TMP\_345 = 0 not(TMP\_345) = 1 TMP\_346 = 0 not(TMP\_346) = 1 TMP\_347 = 0 TMP\_348 = 1 not(TMP\_348) = 0 TMP\_349 = 1 not(TMP\_349) = 0 TMP\_350 = 2 TMP\_351 = 0 not(TMP\_351) = 1 TMP\_352 = 0 not(TMP\_352) = 1 TMP\_353 = 1 not(TMP\_353) = 0 TMP\_354 = 1 not(TMP\_354) = 0 TMP\_355 = 1 not(TMP\_355) = 0 TMP\_356 = 2 TMP\_357 = 1 not(TMP\_357) = 0 TMP\_358 = 1 not(TMP\_358) = 0 TMP\_359 = 0 not(TMP\_359) = 1 TMP\_360 = 1 not(TMP\_360) = 0 TMP\_361 = 3 TMP\_362 = 0 not(TMP\_362) = 1 TMP\_363 = 0 not(TMP\_363) = 1 TMP\_364 = 0 TMP\_365 = 1 not(TMP\_365) = 0 TMP\_366 = 1 not(TMP\_366) = 0 TMP\_367 = 2 TMP\_368 = 0 not(TMP\_368) = 1 TMP\_369 = 0 not(TMP\_369) = 1 TMP\_370 = 1 not(TMP\_370) = 0 TMP\_371 = 1 not(TMP\_371) = 0 TMP\_372 = 1 not(TMP\_372) = 0 TMP\_373 = 2 TMP\_374 = 0 not(TMP\_374) = 1 TMP\_375 = 1 not(TMP\_375) = 0 TMP\_376 = 1 not(TMP\_376) = 0 TMP\_377 = 1 not(TMP\_377) = 0 TMP\_378 = 3 TMP\_379 = 0 not(TMP\_379) = 1 TMP\_380 = 0 not(TMP\_380) = 1 TMP\_381 = 0 TMP\_382 = 1 not(TMP\_382) = 0 TMP\_383 = 1 not(TMP\_383) = 0 TMP\_384 = 2 TMP\_385 = 0 not(TMP\_385) = 1 TMP\_386 = 0 not(TMP\_386) = 1 TMP\_387 = 1 not(TMP\_387) = 0 TMP\_388 = 1 not(TMP\_388) = 0 TMP\_389 = 1 not(TMP\_389) = 0 TMP\_390 = 2 TMP\_391 = 1 not(TMP\_391) = 0 TMP\_392 = 1 not(TMP\_392) = 0 TMP\_393 = 0 not(TMP\_393) = 1 TMP\_394 = 1 not(TMP\_394) = 0 TMP\_395 = 3 TMP\_396 = 0 not(TMP\_396) = 1 TMP\_397 = 0 not(TMP\_397) = 1 TMP\_398 = 0 TMP\_399 = 1 not(TMP\_399) = 0 TMP\_400 = 1 not(TMP\_400) = 0 TMP\_401 = 2 TMP\_402 = 0 not(TMP\_402) = 1 TMP\_403 = 0 not(TMP\_403) = 1 TMP\_404 = 1 not(TMP\_404) = 0 TMP\_405 = 1 not(TMP\_405) = 0 TMP\_406 = 1 not(TMP\_406) = 0 TMP\_407 = 2 TMP\_408 = 1 not(TMP\_408) = 0 TMP\_409 = 1 not(TMP\_409) = 0 TMP\_410 = 0 not(TMP\_410) = 1 TMP\_411 = 1 not(TMP\_411) = 0 TMP\_412 = 3 TMP\_413 = 0 not(TMP\_413) = 1 TMP\_414 = 0 not(TMP\_414) = 1 TMP\_415 = 0 TMP\_416 = 1 not(TMP\_416) = 0 TMP\_417 = 1 not(TMP\_417) = 0 TMP\_418 = 2 TMP\_419 = 0 not(TMP\_419) = 1 TMP\_420 = 0 not(TMP\_420) = 1 TMP\_421 = 1 not(TMP\_421) = 0 TMP\_422 = 1 not(TMP\_422) = 0 TMP\_423 = 1 not(TMP\_423) = 0 TMP\_424 = 2 TMP\_425 = 0 not(TMP\_425) = 1 TMP\_426 = 1 not(TMP\_426) = 0 TMP\_427 = 1 not(TMP\_427) = 0 TMP\_428 = 1 not(TMP\_428) = 0 TMP\_429 = 3 TMP\_430 = 0 not(TMP\_430) = 1 TMP\_431 = 0 not(TMP\_431) = 1 TMP\_432 = 0 TMP\_433 = 1 not(TMP\_433) = 0 TMP\_434 = 1 not(TMP\_434) = 0 TMP\_435 = 2 TMP\_436 = 0 not(TMP\_436) = 1 TMP\_437 = 0 not(TMP\_437) = 1 TMP\_438 = 1 not(TMP\_438) = 0 TMP\_439 = 1 not(TMP\_439) = 0 TMP\_440 = 1 not(TMP\_440) = 0 TMP\_441 = 2 TMP\_442 = 1 not(TMP\_442) = 0 TMP\_443 = 1 not(TMP\_443) = 0 TMP\_444 = 0 not(TMP\_444) = 1 TMP\_445 = 1 not(TMP\_445) = 0 TMP\_446 = 3 TMP\_447 = 0 not(TMP\_447) = 1 TMP\_448 = 0 not(TMP\_448) = 1 TMP\_449 = 0 TMP\_450 = 1 not(TMP\_450) = 0 TMP\_451 = 1 not(TMP\_451) = 0 TMP\_452 = 2 TMP\_453 = 0 not(TMP\_453) = 1 TMP\_454 = 0 not(TMP\_454) = 1 TMP\_455 = 1 not(TMP\_455) = 0 TMP\_456 = 1 not(TMP\_456) = 0 TMP\_457 = 1 not(TMP\_457) = 0 TMP\_458 = 2 TMP\_459 = 0 not(TMP\_459) = 1 TMP\_460 = 1 not(TMP\_460) = 0 TMP\_461 = 0 not(TMP\_461) = 1 TMP\_462 = 1 not(TMP\_462) = 0 TMP\_463 = 2 TMP\_464 = 0 not(TMP\_464) = 1 TMP\_465 = 0 not(TMP\_465) = 1 TMP\_466 = 0 TMP\_467 = 1 not(TMP\_467) = 0 TMP\_468 = 1 not(TMP\_468) = 0 TMP\_469 = 2 TMP\_470 = 0 not(TMP\_470) = 1 TMP\_471 = 0 not(TMP\_471) = 1 TMP\_472 = 1 not(TMP\_472) = 0 TMP\_473 = 1 not(TMP\_473) = 0 TMP\_474 = 1 not(TMP\_474) = 0 TMP\_475 = 2 TMP\_476 = 1 not(TMP\_476) = 0 TMP\_477 = 1 not(TMP\_477) = 0 TMP\_478 = 0 not(TMP\_478) = 1 TMP\_479 = 1 not(TMP\_479) = 0 TMP\_480 = 3 TMP\_481 = 0 not(TMP\_481) = 1 TMP\_482 = 0 not(TMP\_482) = 1 TMP\_483 = 0 TMP\_484 = 1 not(TMP\_484) = 0 TMP\_485 = 1 not(TMP\_485) = 0 TMP\_486 = 2 TMP\_487 = 0 not(TMP\_487) = 1 TMP\_488 = 0 not(TMP\_488) = 1 TMP\_489 = 1 not(TMP\_489) = 0 TMP\_490 = 1 not(TMP\_490) = 0 TMP\_491 = 1 not(TMP\_491) = 0 TMP\_492 = 2 TMP\_493 = 1 not(TMP\_493) = 0 TMP\_494 = 1 not(TMP\_494) = 0 TMP\_495 = 1 not(TMP\_495) = 0 TMP\_496 = 0 not(TMP\_496) = 1 TMP\_497 = 3 TMP\_498 = 0 not(TMP\_498) = 1 TMP\_499 = 0 not(TMP\_499) = 1 TMP\_500 = 0 TMP\_501 = 1 not(TMP\_501) = 0 TMP\_502 = 1 not(TMP\_502) = 0 TMP\_503 = 2 TMP\_504 = 0 not(TMP\_504) = 1 TMP\_505 = 0 not(TMP\_505) = 1 TMP\_506 = 1 not(TMP\_506) = 0 TMP\_507 = 1 not(TMP\_507) = 0 TMP\_508 = 1 not(TMP\_508) = 0 TMP\_509 = 2 TMP\_510 = 1 not(TMP\_510) = 0 TMP\_511 = 0 not(TMP\_511) = 1 TMP\_512 = 1 not(TMP\_512) = 0 TMP\_513 = 1 not(TMP\_513) = 0 TMP\_514 = 3 TMP\_515 = 0 not(TMP\_515) = 1 TMP\_516 = 0 not(TMP\_516) = 1 TMP\_517 = 0 TMP\_518 = 1 not(TMP\_518) = 0 TMP\_519 = 1 not(TMP\_519) = 0 TMP\_520 = 2 TMP\_521 = 0 not(TMP\_521) = 1 TMP\_522 = 0 not(TMP\_522) = 1 TMP\_523 = 1 not(TMP\_523) = 0 TMP\_524 = 1 not(TMP\_524) = 0 TMP\_525 = 1 not(TMP\_525) = 0 TMP\_526 = 2 TMP\_527 = 1 not(TMP\_527) = 0 TMP\_528 = 0 not(TMP\_528) = 1 TMP\_529 = 1 not(TMP\_529) = 0 TMP\_530 = 1 not(TMP\_530) = 0 TMP\_531 = 3 TMP\_532 = 0 not(TMP\_532) = 1 TMP\_533 = 0 not(TMP\_533) = 1 TMP\_534 = 0 TMP\_535 = 1 not(TMP\_535) = 0 TMP\_536 = 1 not(TMP\_536) = 0 TMP\_537 = 2 TMP\_538 = 0 not(TMP\_538) = 1 TMP\_539 = 0 not(TMP\_539) = 1 TMP\_540 = 1 not(TMP\_540) = 0 TMP\_541 = 1 not(TMP\_541) = 0 TMP\_542 = 1 not(TMP\_542) = 0 TMP\_543 = 2 TMP\_544 = 1 not(TMP\_544) = 0 TMP\_545 = 1 not(TMP\_545) = 0 TMP\_546 = 1 not(TMP\_546) = 0 TMP\_547 = 0 not(TMP\_547) = 1 TMP\_548 = 3 TMP\_549 = 0 not(TMP\_549) = 1 TMP\_550 = 0 not(TMP\_550) = 1 TMP\_551 = 0 TMP\_552 = 1 not(TMP\_552) = 0 TMP\_553 = 1 not(TMP\_553) = 0 TMP\_554 = 2 TMP\_555 = 0 not(TMP\_555) = 1 TMP\_556 = 0 not(TMP\_556) = 1 TMP\_557 = 1 not(TMP\_557) = 0 TMP\_558 = 1 not(TMP\_558) = 0 TMP\_559 = 1 not(TMP\_559) = 0 TMP\_560 = 2 TMP\_561 = 1 not(TMP\_561) = 0 TMP\_562 = 0 not(TMP\_562) = 1 TMP\_563 = 1 not(TMP\_563) = 0 TMP\_564 = 1 not(TMP\_564) = 0 TMP\_565 = 3 TMP\_566 = 0 not(TMP\_566) = 1 TMP\_567 = 0 not(TMP\_567) = 1 TMP\_568 = 0 TMP\_569 = 1 not(TMP\_569) = 0 TMP\_570 = 1 not(TMP\_570) = 0 TMP\_571 = 2 TMP\_572 = 0 not(TMP\_572) = 1 TMP\_573 = 0 not(TMP\_573) = 1 TMP\_574 = 1 not(TMP\_574) = 0 TMP\_575 = 1 not(TMP\_575) = 0 TMP\_576 = 1 not(TMP\_576) = 0 TMP\_577 = 2 TMP\_578 = 1 not(TMP\_578) = 0 TMP\_579 = 0 not(TMP\_579) = 1 TMP\_580 = 1 not(TMP\_580) = 0 TMP\_581 = 0 not(TMP\_581) = 1 TMP\_582 = 2 TMP\_583 = 0 not(TMP\_583) = 1 TMP\_584 = 0 not(TMP\_584) = 1 TMP\_585 = 0 TMP\_586 = 1 not(TMP\_586) = 0 TMP\_587 = 1 not(TMP\_587) = 0 TMP\_588 = 2 TMP\_589 = 0 not(TMP\_589) = 1 TMP\_590 = 0 not(TMP\_590) = 1 TMP\_591 = 1 not(TMP\_591) = 0 TMP\_592 = 1 not(TMP\_592) = 0 TMP\_593 = 1 not(TMP\_593) = 0 TMP\_594 = 2 Area\_0 = 10000 Distance\_0\_Rule\_0 = 100 Distance\_1\_Rule\_0 = 100 Area\_1 = 5000 Distance\_0\_Rule\_1 = 50 Distance\_1\_Rule\_1 = 100 Area\_2 = 25000 Distance\_0\_Rule\_2 = 100 Distance\_1\_Rule\_2 = 250 Area\_3 = 20000 -(Rule\_3\_LB) = -50 Distance\_0\_Rule\_3 = 200 -(Rule\_3\_LB) = -300 Distance\_1\_Rule\_3 = 100 Area\_4 = 2500 -(Rule\_4\_LB) = 0 Distance\_0\_Rule\_4 = 25 -(Rule\_4\_LB) = -400 Distance\_1\_Rule\_4 = 100 Area\_5 = 30000 -(Rule\_5\_LB) = -150 Distance\_0\_Rule\_5 = 100 -(Rule\_5\_LB) = 0 Distance\_1\_Rule\_5 = 300 Area\_6 = 17500 -(Rule\_6\_LB) = -75 Distance\_0\_Rule\_6 = 175 -(Rule\_6\_LB) = -400 Distance\_1\_Rule\_6 = 100 Area\_7 = 15000 -(Rule\_7\_LB) = 0 Distance\_0\_Rule\_7 = 50 -(Rule\_7\_LB) = -100 Distance\_1\_Rule\_7 = 300 TMP\_595 = 125000 .

- Solution #11 found. 11 Solutions, Resolution 0.932s, 4694 Nodes (5,034.2 n/s), 9198 Backtracks, 4647 Fails, 0 Restarts

Rule\_3\_LB = 50 Rule\_3\_UB = 250 Rule\_3\_LB = 300 Rule\_3\_UB = 400 Rule\_4\_LB = 0 Rule\_4\_UB = 25 Rule\_4\_LB = 400 Rule\_4\_UB = 500 Rule\_5\_LB = 150 Rule\_5\_UB = 250 Rule\_5\_LB = 0 Rule\_5\_UB = 300 Rule\_6\_LB = 75 Rule\_6\_UB = 250 Rule\_6\_LB = 400 Rule\_6\_UB = 500 Rule\_7\_LB = 0 Rule\_7\_UB = 50 Rule\_7\_LB = 100 Rule\_7\_UB = 400 Overlaps\_0\_0 = 0 Overlaps\_0\_1 = 1 Overlaps\_0\_2 = 0 Overlaps\_0\_3 = 0 Overlaps\_0\_4 = 0 Overlaps\_0\_5 = 0 Overlaps\_0\_6 = 0 Overlaps\_0\_7 = 0 Overlaps\_1\_0 = 0 Overlaps\_1\_1 = 0 Overlaps\_1\_2 = 0 Overlaps\_1\_3 = 0 Overlaps\_1\_4 = 0 Overlaps\_1\_5 = 0 Overlaps\_1\_6 = 0 Overlaps\_1\_7 = 0 Overlaps\_2\_0 = 1 Overlaps\_2\_1 = 0 Overlaps\_2\_2 = 0 Overlaps\_2\_3 = 0 Overlaps\_2\_4 = 0 Overlaps\_2\_5 = 0 Overlaps\_2\_6 = 0 Overlaps\_2\_7 = 0 Overlaps\_3\_0 = 0 Overlaps\_3\_1 = 0 Overlaps\_3\_2 = 0 Overlaps\_3\_3 = 0 Overlaps\_3\_4 = 0 Overlaps\_3\_5 = 0 Overlaps\_3\_6 = 0 Overlaps\_3\_7 = 0 Overlaps\_4\_0 = 0 Overlaps\_4\_1 = 0 Overlaps\_4\_2 = 0 Overlaps\_4\_3 = 0 Overlaps\_4\_4 = 0 Overlaps\_4\_5 = 0 Overlaps\_4\_6 = 0 Overlaps\_4\_7 = 0 Overlaps\_5\_0 = 0 Overlaps\_5\_1 = 0 Overlaps\_5\_2 = 0 Overlaps\_5\_3 = 0 Overlaps\_5\_4 = 0 Overlaps\_5\_5 = 0 Overlaps\_5\_6 = 0 Overlaps\_5\_7 = 0 Overlaps\_6\_0 = 0 Overlaps\_6\_1 = 0 Overlaps\_6\_2 = 0 Overlaps\_6\_3 = 0 Overlaps\_6\_4 = 0 Overlaps\_6\_5 = 0 Overlaps\_6\_6 = 0 Overlaps\_6\_7 = 0 Overlaps\_7\_0 = 0 Overlaps\_7\_1 = 0 Overlaps\_7\_2 = 0 Overlaps\_7\_3 = 0 Overlaps\_7\_4 = 0 Overlaps\_7\_5 = 0 Overlaps\_7\_6 = 0 Overlaps\_7\_7 = 0 TMP\_0 = 1 not(TMP\_0) = 0 TMP\_1 = 1 not(TMP\_1) = 0 TMP\_2 = 0 not(TMP\_2) = 1 TMP\_3 = 1 not(TMP\_3) = 0 TMP\_4 = 3 TMP\_5 = 0 not(TMP\_5) = 1 TMP\_6 = 0 not(TMP\_6) = 1 TMP\_7 = 0 TMP\_8 = 1 not(TMP\_8) = 0 TMP\_9 = 1 not(TMP\_9) = 0 TMP\_10 = 2 TMP\_11 = 0 not(TMP\_11) = 1 TMP\_12 = 0 not(TMP\_12) = 1 TMP\_13 = 1 not(TMP\_13) = 0 TMP\_14 = 1 not(TMP\_14) = 0 TMP\_15 = 1 not(TMP\_15) = 0 TMP\_16 = 2 TMP\_17 = 1 not(TMP\_17) = 0 TMP\_18 = 1 not(TMP\_18) = 0 TMP\_19 = 1 not(TMP\_19) = 0 TMP\_20 = 0 not(TMP\_20) = 1 TMP\_21 = 3 TMP\_22 = 0 not(TMP\_22) = 1 TMP\_23 = 0 not(TMP\_23) = 1 TMP\_24 = 0 TMP\_25 = 1 not(TMP\_25) = 0 TMP\_26 = 1 not(TMP\_26) = 0 TMP\_27 = 2 TMP\_28 = 0 not(TMP\_28) = 1 TMP\_29 = 0 not(TMP\_29) = 1 TMP\_30 = 1 not(TMP\_30) = 0 TMP\_31 = 1 not(TMP\_31) = 0 TMP\_32 = 1 not(TMP\_32) = 0 TMP\_33 = 2 TMP\_34 = 1 not(TMP\_34) = 0 TMP\_35 = 1 not(TMP\_35) = 0 TMP\_36 = 0 not(TMP\_36) = 1 TMP\_37 = 1 not(TMP\_37) = 0 TMP\_38 = 3 TMP\_39 = 0 not(TMP\_39) = 1 TMP\_40 = 0 not(TMP\_40) = 1 TMP\_41 = 0 TMP\_42 = 1 not(TMP\_42) = 0 TMP\_43 = 1 not(TMP\_43) = 0 TMP\_44 = 2 TMP\_45 = 0 not(TMP\_45) = 1 TMP\_46 = 0 not(TMP\_46) = 1 TMP\_47 = 1 not(TMP\_47) = 0 TMP\_48 = 1 not(TMP\_48) = 0 TMP\_49 = 1 not(TMP\_49) = 0 TMP\_50 = 2 TMP\_51 = 0 not(TMP\_51) = 1 TMP\_52 = 1 not(TMP\_52) = 0 TMP\_53 = 1 not(TMP\_53) = 0 TMP\_54 = 0 not(TMP\_54) = 1 TMP\_55 = 2 TMP\_56 = 0 not(TMP\_56) = 1 TMP\_57 = 0 not(TMP\_57) = 1 TMP\_58 = 0 TMP\_59 = 1 not(TMP\_59) = 0 TMP\_60 = 1 not(TMP\_60) = 0 TMP\_61 = 2 TMP\_62 = 0 not(TMP\_62) = 1 TMP\_63 = 0 not(TMP\_63) = 1 TMP\_64 = 1 not(TMP\_64) = 0 TMP\_65 = 1 not(TMP\_65) = 0 TMP\_66 = 1 not(TMP\_66) = 0 TMP\_67 = 2 TMP\_68 = 1 not(TMP\_68) = 0 TMP\_69 = 1 not(TMP\_69) = 0 TMP\_70 = 0 not(TMP\_70) = 1 TMP\_71 = 1 not(TMP\_71) = 0 TMP\_72 = 3 TMP\_73 = 0 not(TMP\_73) = 1 TMP\_74 = 0 not(TMP\_74) = 1 TMP\_75 = 0 TMP\_76 = 1 not(TMP\_76) = 0 TMP\_77 = 1 not(TMP\_77) = 0 TMP\_78 = 2 TMP\_79 = 0 not(TMP\_79) = 1 TMP\_80 = 0 not(TMP\_80) = 1 TMP\_81 = 1 not(TMP\_81) = 0 TMP\_82 = 1 not(TMP\_82) = 0 TMP\_83 = 1 not(TMP\_83) = 0 TMP\_84 = 2 TMP\_85 = 1 not(TMP\_85) = 0 TMP\_86 = 1 not(TMP\_86) = 0 TMP\_87 = 1 not(TMP\_87) = 0 TMP\_88 = 0 not(TMP\_88) = 1 TMP\_89 = 3 TMP\_90 = 0 not(TMP\_90) = 1 TMP\_91 = 0 not(TMP\_91) = 1 TMP\_92 = 0 TMP\_93 = 1 not(TMP\_93) = 0 TMP\_94 = 1 not(TMP\_94) = 0 TMP\_95 = 2 TMP\_96 = 0 not(TMP\_96) = 1 TMP\_97 = 0 not(TMP\_97) = 1 TMP\_98 = 1 not(TMP\_98) = 0 TMP\_99 = 1 not(TMP\_99) = 0 TMP\_100 = 1 not(TMP\_100) = 0 TMP\_101 = 2 TMP\_102 = 0 not(TMP\_102) = 1 TMP\_103 = 1 not(TMP\_103) = 0 TMP\_104 = 1 not(TMP\_104) = 0 TMP\_105 = 1 not(TMP\_105) = 0 TMP\_106 = 3 TMP\_107 = 0 not(TMP\_107) = 1 TMP\_108 = 0 not(TMP\_108) = 1 TMP\_109 = 0 TMP\_110 = 1 not(TMP\_110) = 0 TMP\_111 = 1 not(TMP\_111) = 0 TMP\_112 = 2 TMP\_113 = 0 not(TMP\_113) = 1 TMP\_114 = 0 not(TMP\_114) = 1 TMP\_115 = 1 not(TMP\_115) = 0 TMP\_116 = 1 not(TMP\_116) = 0 TMP\_117 = 1 not(TMP\_117) = 0 TMP\_118 = 2 TMP\_119 = 1 not(TMP\_119) = 0 TMP\_120 = 1 not(TMP\_120) = 0 TMP\_121 = 0 not(TMP\_121) = 1 TMP\_122 = 1 not(TMP\_122) = 0 TMP\_123 = 3 TMP\_124 = 0 not(TMP\_124) = 1 TMP\_125 = 0 not(TMP\_125) = 1 TMP\_126 = 0 TMP\_127 = 1 not(TMP\_127) = 0 TMP\_128 = 1 not(TMP\_128) = 0 TMP\_129 = 2 TMP\_130 = 0 not(TMP\_130) = 1 TMP\_131 = 0 not(TMP\_131) = 1 TMP\_132 = 1 not(TMP\_132) = 0 TMP\_133 = 1 not(TMP\_133) = 0 TMP\_134 = 1 not(TMP\_134) = 0 TMP\_135 = 2 TMP\_136 = 1 not(TMP\_136) = 0 TMP\_137 = 0 not(TMP\_137) = 1 TMP\_138 = 1 not(TMP\_138) = 0 TMP\_139 = 1 not(TMP\_139) = 0 TMP\_140 = 3 TMP\_141 = 0 not(TMP\_141) = 1 TMP\_142 = 0 not(TMP\_142) = 1 TMP\_143 = 0 TMP\_144 = 1 not(TMP\_144) = 0 TMP\_145 = 1 not(TMP\_145) = 0 TMP\_146 = 2 TMP\_147 = 0 not(TMP\_147) = 1 TMP\_148 = 0 not(TMP\_148) = 1 TMP\_149 = 1 not(TMP\_149) = 0 TMP\_150 = 1 not(TMP\_150) = 0 TMP\_151 = 1 not(TMP\_151) = 0 TMP\_152 = 2 TMP\_153 = 1 not(TMP\_153) = 0 TMP\_154 = 0 not(TMP\_154) = 1 TMP\_155 = 0 not(TMP\_155) = 1 TMP\_156 = 1 not(TMP\_156) = 0 TMP\_157 = 2 TMP\_158 = 0 not(TMP\_158) = 1 TMP\_159 = 0 not(TMP\_159) = 1 TMP\_160 = 0 TMP\_161 = 1 not(TMP\_161) = 0 TMP\_162 = 1 not(TMP\_162) = 0 TMP\_163 = 2 TMP\_164 = 0 not(TMP\_164) = 1 TMP\_165 = 0 not(TMP\_165) = 1 TMP\_166 = 1 not(TMP\_166) = 0 TMP\_167 = 1 not(TMP\_167) = 0 TMP\_168 = 1 not(TMP\_168) = 0 TMP\_169 = 2 TMP\_170 = 1 not(TMP\_170) = 0 TMP\_171 = 0 not(TMP\_171) = 1 TMP\_172 = 0 not(TMP\_172) = 1 TMP\_173 = 1 not(TMP\_173) = 0 TMP\_174 = 2 TMP\_175 = 0 not(TMP\_175) = 1 TMP\_176 = 0 not(TMP\_176) = 1 TMP\_177 = 0 TMP\_178 = 1 not(TMP\_178) = 0 TMP\_179 = 1 not(TMP\_179) = 0 TMP\_180 = 2 TMP\_181 = 0 not(TMP\_181) = 1 TMP\_182 = 0 not(TMP\_182) = 1 TMP\_183 = 1 not(TMP\_183) = 0 TMP\_184 = 1 not(TMP\_184) = 0 TMP\_185 = 1 not(TMP\_185) = 0 TMP\_186 = 2 TMP\_187 = 1 not(TMP\_187) = 0 TMP\_188 = 0 not(TMP\_188) = 1 TMP\_189 = 0 not(TMP\_189) = 1 TMP\_190 = 1 not(TMP\_190) = 0 TMP\_191 = 2 TMP\_192 = 0 not(TMP\_192) = 1 TMP\_193 = 0 not(TMP\_193) = 1 TMP\_194 = 0 TMP\_195 = 1 not(TMP\_195) = 0 TMP\_196 = 1 not(TMP\_196) = 0 TMP\_197 = 2 TMP\_198 = 0 not(TMP\_198) = 1 TMP\_199 = 0 not(TMP\_199) = 1 TMP\_200 = 1 not(TMP\_200) = 0 TMP\_201 = 1 not(TMP\_201) = 0 TMP\_202 = 1 not(TMP\_202) = 0 TMP\_203 = 2 TMP\_204 = 1 not(TMP\_204) = 0 TMP\_205 = 0 not(TMP\_205) = 1 TMP\_206 = 1 not(TMP\_206) = 0 TMP\_207 = 1 not(TMP\_207) = 0 TMP\_208 = 3 TMP\_209 = 0 not(TMP\_209) = 1 TMP\_210 = 0 not(TMP\_210) = 1 TMP\_211 = 0 TMP\_212 = 1 not(TMP\_212) = 0 TMP\_213 = 1 not(TMP\_213) = 0 TMP\_214 = 2 TMP\_215 = 0 not(TMP\_215) = 1 TMP\_216 = 0 not(TMP\_216) = 1 TMP\_217 = 1 not(TMP\_217) = 0 TMP\_218 = 1 not(TMP\_218) = 0 TMP\_219 = 1 not(TMP\_219) = 0 TMP\_220 = 2 TMP\_221 = 1 not(TMP\_221) = 0 TMP\_222 = 1 not(TMP\_222) = 0 TMP\_223 = 0 not(TMP\_223) = 1 TMP\_224 = 1 not(TMP\_224) = 0 TMP\_225 = 3 TMP\_226 = 0 not(TMP\_226) = 1 TMP\_227 = 0 not(TMP\_227) = 1 TMP\_228 = 0 TMP\_229 = 1 not(TMP\_229) = 0 TMP\_230 = 1 not(TMP\_230) = 0 TMP\_231 = 2 TMP\_232 = 0 not(TMP\_232) = 1 TMP\_233 = 0 not(TMP\_233) = 1 TMP\_234 = 1 not(TMP\_234) = 0 TMP\_235 = 1 not(TMP\_235) = 0 TMP\_236 = 1 not(TMP\_236) = 0 TMP\_237 = 2 TMP\_238 = 0 not(TMP\_238) = 1 TMP\_239 = 1 not(TMP\_239) = 0 TMP\_240 = 1 not(TMP\_240) = 0 TMP\_241 = 1 not(TMP\_241) = 0 TMP\_242 = 3 TMP\_243 = 0 not(TMP\_243) = 1 TMP\_244 = 0 not(TMP\_244) = 1 TMP\_245 = 0 TMP\_246 = 1 not(TMP\_246) = 0 TMP\_247 = 1 not(TMP\_247) = 0 TMP\_248 = 2 TMP\_249 = 0 not(TMP\_249) = 1 TMP\_250 = 0 not(TMP\_250) = 1 TMP\_251 = 1 not(TMP\_251) = 0 TMP\_252 = 1 not(TMP\_252) = 0 TMP\_253 = 1 not(TMP\_253) = 0 TMP\_254 = 2 TMP\_255 = 0 not(TMP\_255) = 1 TMP\_256 = 1 not(TMP\_256) = 0 TMP\_257 = 1 not(TMP\_257) = 0 TMP\_258 = 0 not(TMP\_258) = 1 TMP\_259 = 2 TMP\_260 = 0 not(TMP\_260) = 1 TMP\_261 = 0 not(TMP\_261) = 1 TMP\_262 = 0 TMP\_263 = 1 not(TMP\_263) = 0 TMP\_264 = 1 not(TMP\_264) = 0 TMP\_265 = 2 TMP\_266 = 0 not(TMP\_266) = 1 TMP\_267 = 0 not(TMP\_267) = 1 TMP\_268 = 1 not(TMP\_268) = 0 TMP\_269 = 1 not(TMP\_269) = 0 TMP\_270 = 1 not(TMP\_270) = 0 TMP\_271 = 2 TMP\_272 = 0 not(TMP\_272) = 1 TMP\_273 = 1 not(TMP\_273) = 0 TMP\_274 = 1 not(TMP\_274) = 0 TMP\_275 = 1 not(TMP\_275) = 0 TMP\_276 = 3 TMP\_277 = 0 not(TMP\_277) = 1 TMP\_278 = 0 not(TMP\_278) = 1 TMP\_279 = 0 TMP\_280 = 1 not(TMP\_280) = 0 TMP\_281 = 1 not(TMP\_281) = 0 TMP\_282 = 2 TMP\_283 = 0 not(TMP\_283) = 1 TMP\_284 = 0 not(TMP\_284) = 1 TMP\_285 = 1 not(TMP\_285) = 0 TMP\_286 = 1 not(TMP\_286) = 0 TMP\_287 = 1 not(TMP\_287) = 0 TMP\_288 = 2 TMP\_289 = 1 not(TMP\_289) = 0 TMP\_290 = 1 not(TMP\_290) = 0 TMP\_291 = 1 not(TMP\_291) = 0 TMP\_292 = 0 not(TMP\_292) = 1 TMP\_293 = 3 TMP\_294 = 0 not(TMP\_294) = 1 TMP\_295 = 0 not(TMP\_295) = 1 TMP\_296 = 0 TMP\_297 = 1 not(TMP\_297) = 0 TMP\_298 = 1 not(TMP\_298) = 0 TMP\_299 = 2 TMP\_300 = 0 not(TMP\_300) = 1 TMP\_301 = 0 not(TMP\_301) = 1 TMP\_302 = 1 not(TMP\_302) = 0 TMP\_303 = 1 not(TMP\_303) = 0 TMP\_304 = 1 not(TMP\_304) = 0 TMP\_305 = 2 TMP\_306 = 0 not(TMP\_306) = 1 TMP\_307 = 1 not(TMP\_307) = 0 TMP\_308 = 1 not(TMP\_308) = 0 TMP\_309 = 0 not(TMP\_309) = 1 TMP\_310 = 2 TMP\_311 = 0 not(TMP\_311) = 1 TMP\_312 = 0 not(TMP\_312) = 1 TMP\_313 = 0 TMP\_314 = 1 not(TMP\_314) = 0 TMP\_315 = 1 not(TMP\_315) = 0 TMP\_316 = 2 TMP\_317 = 0 not(TMP\_317) = 1 TMP\_318 = 0 not(TMP\_318) = 1 TMP\_319 = 1 not(TMP\_319) = 0 TMP\_320 = 1 not(TMP\_320) = 0 TMP\_321 = 1 not(TMP\_321) = 0 TMP\_322 = 2 TMP\_323 = 1 not(TMP\_323) = 0 TMP\_324 = 1 not(TMP\_324) = 0 TMP\_325 = 1 not(TMP\_325) = 0 TMP\_326 = 0 not(TMP\_326) = 1 TMP\_327 = 3 TMP\_328 = 0 not(TMP\_328) = 1 TMP\_329 = 0 not(TMP\_329) = 1 TMP\_330 = 0 TMP\_331 = 1 not(TMP\_331) = 0 TMP\_332 = 1 not(TMP\_332) = 0 TMP\_333 = 2 TMP\_334 = 0 not(TMP\_334) = 1 TMP\_335 = 0 not(TMP\_335) = 1 TMP\_336 = 1 not(TMP\_336) = 0 TMP\_337 = 1 not(TMP\_337) = 0 TMP\_338 = 1 not(TMP\_338) = 0 TMP\_339 = 2 TMP\_340 = 0 not(TMP\_340) = 1 TMP\_341 = 1 not(TMP\_341) = 0 TMP\_342 = 1 not(TMP\_342) = 0 TMP\_343 = 1 not(TMP\_343) = 0 TMP\_344 = 3 TMP\_345 = 0 not(TMP\_345) = 1 TMP\_346 = 0 not(TMP\_346) = 1 TMP\_347 = 0 TMP\_348 = 1 not(TMP\_348) = 0 TMP\_349 = 1 not(TMP\_349) = 0 TMP\_350 = 2 TMP\_351 = 0 not(TMP\_351) = 1 TMP\_352 = 0 not(TMP\_352) = 1 TMP\_353 = 1 not(TMP\_353) = 0 TMP\_354 = 1 not(TMP\_354) = 0 TMP\_355 = 1 not(TMP\_355) = 0 TMP\_356 = 2 TMP\_357 = 1 not(TMP\_357) = 0 TMP\_358 = 1 not(TMP\_358) = 0 TMP\_359 = 0 not(TMP\_359) = 1 TMP\_360 = 1 not(TMP\_360) = 0 TMP\_361 = 3 TMP\_362 = 0 not(TMP\_362) = 1 TMP\_363 = 0 not(TMP\_363) = 1 TMP\_364 = 0 TMP\_365 = 1 not(TMP\_365) = 0 TMP\_366 = 1 not(TMP\_366) = 0 TMP\_367 = 2 TMP\_368 = 0 not(TMP\_368) = 1 TMP\_369 = 0 not(TMP\_369) = 1 TMP\_370 = 1 not(TMP\_370) = 0 TMP\_371 = 1 not(TMP\_371) = 0 TMP\_372 = 1 not(TMP\_372) = 0 TMP\_373 = 2 TMP\_374 = 0 not(TMP\_374) = 1 TMP\_375 = 1 not(TMP\_375) = 0 TMP\_376 = 1 not(TMP\_376) = 0 TMP\_377 = 1 not(TMP\_377) = 0 TMP\_378 = 3 TMP\_379 = 0 not(TMP\_379) = 1 TMP\_380 = 0 not(TMP\_380) = 1 TMP\_381 = 0 TMP\_382 = 1 not(TMP\_382) = 0 TMP\_383 = 1 not(TMP\_383) = 0 TMP\_384 = 2 TMP\_385 = 0 not(TMP\_385) = 1 TMP\_386 = 0 not(TMP\_386) = 1 TMP\_387 = 1 not(TMP\_387) = 0 TMP\_388 = 1 not(TMP\_388) = 0 TMP\_389 = 1 not(TMP\_389) = 0 TMP\_390 = 2 TMP\_391 = 1 not(TMP\_391) = 0 TMP\_392 = 1 not(TMP\_392) = 0 TMP\_393 = 0 not(TMP\_393) = 1 TMP\_394 = 1 not(TMP\_394) = 0 TMP\_395 = 3 TMP\_396 = 0 not(TMP\_396) = 1 TMP\_397 = 0 not(TMP\_397) = 1 TMP\_398 = 0 TMP\_399 = 1 not(TMP\_399) = 0 TMP\_400 = 1 not(TMP\_400) = 0 TMP\_401 = 2 TMP\_402 = 0 not(TMP\_402) = 1 TMP\_403 = 0 not(TMP\_403) = 1 TMP\_404 = 1 not(TMP\_404) = 0 TMP\_405 = 1 not(TMP\_405) = 0 TMP\_406 = 1 not(TMP\_406) = 0 TMP\_407 = 2 TMP\_408 = 1 not(TMP\_408) = 0 TMP\_409 = 1 not(TMP\_409) = 0 TMP\_410 = 0 not(TMP\_410) = 1 TMP\_411 = 1 not(TMP\_411) = 0 TMP\_412 = 3 TMP\_413 = 0 not(TMP\_413) = 1 TMP\_414 = 0 not(TMP\_414) = 1 TMP\_415 = 0 TMP\_416 = 1 not(TMP\_416) = 0 TMP\_417 = 1 not(TMP\_417) = 0 TMP\_418 = 2 TMP\_419 = 0 not(TMP\_419) = 1 TMP\_420 = 0 not(TMP\_420) = 1 TMP\_421 = 1 not(TMP\_421) = 0 TMP\_422 = 1 not(TMP\_422) = 0 TMP\_423 = 1 not(TMP\_423) = 0 TMP\_424 = 2 TMP\_425 = 0 not(TMP\_425) = 1 TMP\_426 = 1 not(TMP\_426) = 0 TMP\_427 = 1 not(TMP\_427) = 0 TMP\_428 = 1 not(TMP\_428) = 0 TMP\_429 = 3 TMP\_430 = 0 not(TMP\_430) = 1 TMP\_431 = 0 not(TMP\_431) = 1 TMP\_432 = 0 TMP\_433 = 1 not(TMP\_433) = 0 TMP\_434 = 1 not(TMP\_434) = 0 TMP\_435 = 2 TMP\_436 = 0 not(TMP\_436) = 1 TMP\_437 = 0 not(TMP\_437) = 1 TMP\_438 = 1 not(TMP\_438) = 0 TMP\_439 = 1 not(TMP\_439) = 0 TMP\_440 = 1 not(TMP\_440) = 0 TMP\_441 = 2 TMP\_442 = 1 not(TMP\_442) = 0 TMP\_443 = 1 not(TMP\_443) = 0 TMP\_444 = 0 not(TMP\_444) = 1 TMP\_445 = 1 not(TMP\_445) = 0 TMP\_446 = 3 TMP\_447 = 0 not(TMP\_447) = 1 TMP\_448 = 0 not(TMP\_448) = 1 TMP\_449 = 0 TMP\_450 = 1 not(TMP\_450) = 0 TMP\_451 = 1 not(TMP\_451) = 0 TMP\_452 = 2 TMP\_453 = 0 not(TMP\_453) = 1 TMP\_454 = 0 not(TMP\_454) = 1 TMP\_455 = 1 not(TMP\_455) = 0 TMP\_456 = 1 not(TMP\_456) = 0 TMP\_457 = 1 not(TMP\_457) = 0 TMP\_458 = 2 TMP\_459 = 0 not(TMP\_459) = 1 TMP\_460 = 1 not(TMP\_460) = 0 TMP\_461 = 0 not(TMP\_461) = 1 TMP\_462 = 1 not(TMP\_462) = 0 TMP\_463 = 2 TMP\_464 = 0 not(TMP\_464) = 1 TMP\_465 = 0 not(TMP\_465) = 1 TMP\_466 = 0 TMP\_467 = 1 not(TMP\_467) = 0 TMP\_468 = 1 not(TMP\_468) = 0 TMP\_469 = 2 TMP\_470 = 0 not(TMP\_470) = 1 TMP\_471 = 0 not(TMP\_471) = 1 TMP\_472 = 1 not(TMP\_472) = 0 TMP\_473 = 1 not(TMP\_473) = 0 TMP\_474 = 1 not(TMP\_474) = 0 TMP\_475 = 2 TMP\_476 = 1 not(TMP\_476) = 0 TMP\_477 = 1 not(TMP\_477) = 0 TMP\_478 = 0 not(TMP\_478) = 1 TMP\_479 = 1 not(TMP\_479) = 0 TMP\_480 = 3 TMP\_481 = 0 not(TMP\_481) = 1 TMP\_482 = 0 not(TMP\_482) = 1 TMP\_483 = 0 TMP\_484 = 1 not(TMP\_484) = 0 TMP\_485 = 1 not(TMP\_485) = 0 TMP\_486 = 2 TMP\_487 = 0 not(TMP\_487) = 1 TMP\_488 = 0 not(TMP\_488) = 1 TMP\_489 = 1 not(TMP\_489) = 0 TMP\_490 = 1 not(TMP\_490) = 0 TMP\_491 = 1 not(TMP\_491) = 0 TMP\_492 = 2 TMP\_493 = 1 not(TMP\_493) = 0 TMP\_494 = 1 not(TMP\_494) = 0 TMP\_495 = 1 not(TMP\_495) = 0 TMP\_496 = 0 not(TMP\_496) = 1 TMP\_497 = 3 TMP\_498 = 0 not(TMP\_498) = 1 TMP\_499 = 0 not(TMP\_499) = 1 TMP\_500 = 0 TMP\_501 = 1 not(TMP\_501) = 0 TMP\_502 = 1 not(TMP\_502) = 0 TMP\_503 = 2 TMP\_504 = 0 not(TMP\_504) = 1 TMP\_505 = 0 not(TMP\_505) = 1 TMP\_506 = 1 not(TMP\_506) = 0 TMP\_507 = 1 not(TMP\_507) = 0 TMP\_508 = 1 not(TMP\_508) = 0 TMP\_509 = 2 TMP\_510 = 1 not(TMP\_510) = 0 TMP\_511 = 0 not(TMP\_511) = 1 TMP\_512 = 1 not(TMP\_512) = 0 TMP\_513 = 1 not(TMP\_513) = 0 TMP\_514 = 3 TMP\_515 = 0 not(TMP\_515) = 1 TMP\_516 = 0 not(TMP\_516) = 1 TMP\_517 = 0 TMP\_518 = 1 not(TMP\_518) = 0 TMP\_519 = 1 not(TMP\_519) = 0 TMP\_520 = 2 TMP\_521 = 0 not(TMP\_521) = 1 TMP\_522 = 0 not(TMP\_522) = 1 TMP\_523 = 1 not(TMP\_523) = 0 TMP\_524 = 1 not(TMP\_524) = 0 TMP\_525 = 1 not(TMP\_525) = 0 TMP\_526 = 2 TMP\_527 = 1 not(TMP\_527) = 0 TMP\_528 = 0 not(TMP\_528) = 1 TMP\_529 = 1 not(TMP\_529) = 0 TMP\_530 = 1 not(TMP\_530) = 0 TMP\_531 = 3 TMP\_532 = 0 not(TMP\_532) = 1 TMP\_533 = 0 not(TMP\_533) = 1 TMP\_534 = 0 TMP\_535 = 1 not(TMP\_535) = 0 TMP\_536 = 1 not(TMP\_536) = 0 TMP\_537 = 2 TMP\_538 = 0 not(TMP\_538) = 1 TMP\_539 = 0 not(TMP\_539) = 1 TMP\_540 = 1 not(TMP\_540) = 0 TMP\_541 = 1 not(TMP\_541) = 0 TMP\_542 = 1 not(TMP\_542) = 0 TMP\_543 = 2 TMP\_544 = 1 not(TMP\_544) = 0 TMP\_545 = 1 not(TMP\_545) = 0 TMP\_546 = 1 not(TMP\_546) = 0 TMP\_547 = 0 not(TMP\_547) = 1 TMP\_548 = 3 TMP\_549 = 0 not(TMP\_549) = 1 TMP\_550 = 0 not(TMP\_550) = 1 TMP\_551 = 0 TMP\_552 = 1 not(TMP\_552) = 0 TMP\_553 = 1 not(TMP\_553) = 0 TMP\_554 = 2 TMP\_555 = 0 not(TMP\_555) = 1 TMP\_556 = 0 not(TMP\_556) = 1 TMP\_557 = 1 not(TMP\_557) = 0 TMP\_558 = 1 not(TMP\_558) = 0 TMP\_559 = 1 not(TMP\_559) = 0 TMP\_560 = 2 TMP\_561 = 1 not(TMP\_561) = 0 TMP\_562 = 0 not(TMP\_562) = 1 TMP\_563 = 1 not(TMP\_563) = 0 TMP\_564 = 1 not(TMP\_564) = 0 TMP\_565 = 3 TMP\_566 = 0 not(TMP\_566) = 1 TMP\_567 = 0 not(TMP\_567) = 1 TMP\_568 = 0 TMP\_569 = 1 not(TMP\_569) = 0 TMP\_570 = 1 not(TMP\_570) = 0 TMP\_571 = 2 TMP\_572 = 0 not(TMP\_572) = 1 TMP\_573 = 0 not(TMP\_573) = 1 TMP\_574 = 1 not(TMP\_574) = 0 TMP\_575 = 1 not(TMP\_575) = 0 TMP\_576 = 1 not(TMP\_576) = 0 TMP\_577 = 2 TMP\_578 = 1 not(TMP\_578) = 0 TMP\_579 = 0 not(TMP\_579) = 1 TMP\_580 = 1 not(TMP\_580) = 0 TMP\_581 = 0 not(TMP\_581) = 1 TMP\_582 = 2 TMP\_583 = 0 not(TMP\_583) = 1 TMP\_584 = 0 not(TMP\_584) = 1 TMP\_585 = 0 TMP\_586 = 1 not(TMP\_586) = 0 TMP\_587 = 1 not(TMP\_587) = 0 TMP\_588 = 2 TMP\_589 = 0 not(TMP\_589) = 1 TMP\_590 = 0 not(TMP\_590) = 1 TMP\_591 = 1 not(TMP\_591) = 0 TMP\_592 = 1 not(TMP\_592) = 0 TMP\_593 = 1 not(TMP\_593) = 0 TMP\_594 = 2 Area\_0 = 10000 Distance\_0\_Rule\_0 = 100 Distance\_1\_Rule\_0 = 100 Area\_1 = 5000 Distance\_0\_Rule\_1 = 50 Distance\_1\_Rule\_1 = 100 Area\_2 = 25000 Distance\_0\_Rule\_2 = 100 Distance\_1\_Rule\_2 = 250 Area\_3 = 20000 -(Rule\_3\_LB) = -50 Distance\_0\_Rule\_3 = 200 -(Rule\_3\_LB) = -300 Distance\_1\_Rule\_3 = 100 Area\_4 = 2500 -(Rule\_4\_LB) = 0 Distance\_0\_Rule\_4 = 25 -(Rule\_4\_LB) = -400 Distance\_1\_Rule\_4 = 100 Area\_5 = 30000 -(Rule\_5\_LB) = -150 Distance\_0\_Rule\_5 = 100 -(Rule\_5\_LB) = 0 Distance\_1\_Rule\_5 = 300 Area\_6 = 17500 -(Rule\_6\_LB) = -75 Distance\_0\_Rule\_6 = 175 -(Rule\_6\_LB) = -400 Distance\_1\_Rule\_6 = 100 Area\_7 = 15000 -(Rule\_7\_LB) = 0 Distance\_0\_Rule\_7 = 50 -(Rule\_7\_LB) = -100 Distance\_1\_Rule\_7 = 300 TMP\_595 = 125000 .

- Solution #12 found. 12 Solutions, Resolution 0.935s, 4695 Nodes (5,022.9 n/s), 9199 Backtracks, 4647 Fails, 0 Restarts

Rule\_3\_LB = 50 Rule\_3\_UB = 250 Rule\_3\_LB = 300 Rule\_3\_UB = 400 Rule\_4\_LB = 0 Rule\_4\_UB = 25 Rule\_4\_LB = 400 Rule\_4\_UB = 500 Rule\_5\_LB = 150 Rule\_5\_UB = 250 Rule\_5\_LB = 0 Rule\_5\_UB = 300 Rule\_6\_LB = 75 Rule\_6\_UB = 250 Rule\_6\_LB = 400 Rule\_6\_UB = 500 Rule\_7\_LB = 0 Rule\_7\_UB = 50 Rule\_7\_LB = 100 Rule\_7\_UB = 400 Overlaps\_0\_0 = 0 Overlaps\_0\_1 = 1 Overlaps\_0\_2 = 0 Overlaps\_0\_3 = 0 Overlaps\_0\_4 = 0 Overlaps\_0\_5 = 0 Overlaps\_0\_6 = 0 Overlaps\_0\_7 = 0 Overlaps\_1\_0 = 0 Overlaps\_1\_1 = 0 Overlaps\_1\_2 = 1 Overlaps\_1\_3 = 0 Overlaps\_1\_4 = 0 Overlaps\_1\_5 = 0 Overlaps\_1\_6 = 0 Overlaps\_1\_7 = 0 Overlaps\_2\_0 = 1 Overlaps\_2\_1 = 0 Overlaps\_2\_2 = 0 Overlaps\_2\_3 = 0 Overlaps\_2\_4 = 0 Overlaps\_2\_5 = 0 Overlaps\_2\_6 = 0 Overlaps\_2\_7 = 0 Overlaps\_3\_0 = 0 Overlaps\_3\_1 = 0 Overlaps\_3\_2 = 0 Overlaps\_3\_3 = 0 Overlaps\_3\_4 = 0 Overlaps\_3\_5 = 0 Overlaps\_3\_6 = 0 Overlaps\_3\_7 = 0 Overlaps\_4\_0 = 0 Overlaps\_4\_1 = 0 Overlaps\_4\_2 = 0 Overlaps\_4\_3 = 0 Overlaps\_4\_4 = 0 Overlaps\_4\_5 = 0 Overlaps\_4\_6 = 0 Overlaps\_4\_7 = 0 Overlaps\_5\_0 = 0 Overlaps\_5\_1 = 0 Overlaps\_5\_2 = 0 Overlaps\_5\_3 = 0 Overlaps\_5\_4 = 0 Overlaps\_5\_5 = 0 Overlaps\_5\_6 = 0 Overlaps\_5\_7 = 0 Overlaps\_6\_0 = 0 Overlaps\_6\_1 = 0 Overlaps\_6\_2 = 0 Overlaps\_6\_3 = 0 Overlaps\_6\_4 = 0 Overlaps\_6\_5 = 0 Overlaps\_6\_6 = 0 Overlaps\_6\_7 = 0 Overlaps\_7\_0 = 0 Overlaps\_7\_1 = 0 Overlaps\_7\_2 = 0 Overlaps\_7\_3 = 0 Overlaps\_7\_4 = 0 Overlaps\_7\_5 = 0 Overlaps\_7\_6 = 0 Overlaps\_7\_7 = 0 TMP\_0 = 1 not(TMP\_0) = 0 TMP\_1 = 1 not(TMP\_1) = 0 TMP\_2 = 0 not(TMP\_2) = 1 TMP\_3 = 1 not(TMP\_3) = 0 TMP\_4 = 3 TMP\_5 = 0 not(TMP\_5) = 1 TMP\_6 = 0 not(TMP\_6) = 1 TMP\_7 = 0 TMP\_8 = 1 not(TMP\_8) = 0 TMP\_9 = 1 not(TMP\_9) = 0 TMP\_10 = 2 TMP\_11 = 0 not(TMP\_11) = 1 TMP\_12 = 0 not(TMP\_12) = 1 TMP\_13 = 1 not(TMP\_13) = 0 TMP\_14 = 1 not(TMP\_14) = 0 TMP\_15 = 1 not(TMP\_15) = 0 TMP\_16 = 2 TMP\_17 = 1 not(TMP\_17) = 0 TMP\_18 = 1 not(TMP\_18) = 0 TMP\_19 = 1 not(TMP\_19) = 0 TMP\_20 = 0 not(TMP\_20) = 1 TMP\_21 = 3 TMP\_22 = 0 not(TMP\_22) = 1 TMP\_23 = 0 not(TMP\_23) = 1 TMP\_24 = 0 TMP\_25 = 1 not(TMP\_25) = 0 TMP\_26 = 1 not(TMP\_26) = 0 TMP\_27 = 2 TMP\_28 = 0 not(TMP\_28) = 1 TMP\_29 = 0 not(TMP\_29) = 1 TMP\_30 = 1 not(TMP\_30) = 0 TMP\_31 = 1 not(TMP\_31) = 0 TMP\_32 = 1 not(TMP\_32) = 0 TMP\_33 = 2 TMP\_34 = 1 not(TMP\_34) = 0 TMP\_35 = 1 not(TMP\_35) = 0 TMP\_36 = 0 not(TMP\_36) = 1 TMP\_37 = 1 not(TMP\_37) = 0 TMP\_38 = 3 TMP\_39 = 0 not(TMP\_39) = 1 TMP\_40 = 0 not(TMP\_40) = 1 TMP\_41 = 0 TMP\_42 = 1 not(TMP\_42) = 0 TMP\_43 = 1 not(TMP\_43) = 0 TMP\_44 = 2 TMP\_45 = 0 not(TMP\_45) = 1 TMP\_46 = 0 not(TMP\_46) = 1 TMP\_47 = 1 not(TMP\_47) = 0 TMP\_48 = 1 not(TMP\_48) = 0 TMP\_49 = 1 not(TMP\_49) = 0 TMP\_50 = 2 TMP\_51 = 0 not(TMP\_51) = 1 TMP\_52 = 1 not(TMP\_52) = 0 TMP\_53 = 1 not(TMP\_53) = 0 TMP\_54 = 0 not(TMP\_54) = 1 TMP\_55 = 2 TMP\_56 = 0 not(TMP\_56) = 1 TMP\_57 = 0 not(TMP\_57) = 1 TMP\_58 = 0 TMP\_59 = 1 not(TMP\_59) = 0 TMP\_60 = 1 not(TMP\_60) = 0 TMP\_61 = 2 TMP\_62 = 0 not(TMP\_62) = 1 TMP\_63 = 0 not(TMP\_63) = 1 TMP\_64 = 1 not(TMP\_64) = 0 TMP\_65 = 1 not(TMP\_65) = 0 TMP\_66 = 1 not(TMP\_66) = 0 TMP\_67 = 2 TMP\_68 = 1 not(TMP\_68) = 0 TMP\_69 = 1 not(TMP\_69) = 0 TMP\_70 = 0 not(TMP\_70) = 1 TMP\_71 = 1 not(TMP\_71) = 0 TMP\_72 = 3 TMP\_73 = 0 not(TMP\_73) = 1 TMP\_74 = 0 not(TMP\_74) = 1 TMP\_75 = 0 TMP\_76 = 1 not(TMP\_76) = 0 TMP\_77 = 1 not(TMP\_77) = 0 TMP\_78 = 2 TMP\_79 = 0 not(TMP\_79) = 1 TMP\_80 = 0 not(TMP\_80) = 1 TMP\_81 = 1 not(TMP\_81) = 0 TMP\_82 = 1 not(TMP\_82) = 0 TMP\_83 = 1 not(TMP\_83) = 0 TMP\_84 = 2 TMP\_85 = 1 not(TMP\_85) = 0 TMP\_86 = 1 not(TMP\_86) = 0 TMP\_87 = 1 not(TMP\_87) = 0 TMP\_88 = 0 not(TMP\_88) = 1 TMP\_89 = 3 TMP\_90 = 0 not(TMP\_90) = 1 TMP\_91 = 0 not(TMP\_91) = 1 TMP\_92 = 0 TMP\_93 = 1 not(TMP\_93) = 0 TMP\_94 = 1 not(TMP\_94) = 0 TMP\_95 = 2 TMP\_96 = 0 not(TMP\_96) = 1 TMP\_97 = 0 not(TMP\_97) = 1 TMP\_98 = 1 not(TMP\_98) = 0 TMP\_99 = 1 not(TMP\_99) = 0 TMP\_100 = 1 not(TMP\_100) = 0 TMP\_101 = 2 TMP\_102 = 0 not(TMP\_102) = 1 TMP\_103 = 1 not(TMP\_103) = 0 TMP\_104 = 1 not(TMP\_104) = 0 TMP\_105 = 1 not(TMP\_105) = 0 TMP\_106 = 3 TMP\_107 = 0 not(TMP\_107) = 1 TMP\_108 = 0 not(TMP\_108) = 1 TMP\_109 = 0 TMP\_110 = 1 not(TMP\_110) = 0 TMP\_111 = 1 not(TMP\_111) = 0 TMP\_112 = 2 TMP\_113 = 0 not(TMP\_113) = 1 TMP\_114 = 0 not(TMP\_114) = 1 TMP\_115 = 1 not(TMP\_115) = 0 TMP\_116 = 1 not(TMP\_116) = 0 TMP\_117 = 1 not(TMP\_117) = 0 TMP\_118 = 2 TMP\_119 = 1 not(TMP\_119) = 0 TMP\_120 = 1 not(TMP\_120) = 0 TMP\_121 = 0 not(TMP\_121) = 1 TMP\_122 = 1 not(TMP\_122) = 0 TMP\_123 = 3 TMP\_124 = 0 not(TMP\_124) = 1 TMP\_125 = 0 not(TMP\_125) = 1 TMP\_126 = 0 TMP\_127 = 1 not(TMP\_127) = 0 TMP\_128 = 1 not(TMP\_128) = 0 TMP\_129 = 2 TMP\_130 = 0 not(TMP\_130) = 1 TMP\_131 = 0 not(TMP\_131) = 1 TMP\_132 = 1 not(TMP\_132) = 0 TMP\_133 = 1 not(TMP\_133) = 0 TMP\_134 = 1 not(TMP\_134) = 0 TMP\_135 = 2 TMP\_136 = 1 not(TMP\_136) = 0 TMP\_137 = 0 not(TMP\_137) = 1 TMP\_138 = 1 not(TMP\_138) = 0 TMP\_139 = 1 not(TMP\_139) = 0 TMP\_140 = 3 TMP\_141 = 0 not(TMP\_141) = 1 TMP\_142 = 0 not(TMP\_142) = 1 TMP\_143 = 0 TMP\_144 = 1 not(TMP\_144) = 0 TMP\_145 = 1 not(TMP\_145) = 0 TMP\_146 = 2 TMP\_147 = 0 not(TMP\_147) = 1 TMP\_148 = 0 not(TMP\_148) = 1 TMP\_149 = 1 not(TMP\_149) = 0 TMP\_150 = 1 not(TMP\_150) = 0 TMP\_151 = 1 not(TMP\_151) = 0 TMP\_152 = 2 TMP\_153 = 1 not(TMP\_153) = 0 TMP\_154 = 0 not(TMP\_154) = 1 TMP\_155 = 0 not(TMP\_155) = 1 TMP\_156 = 1 not(TMP\_156) = 0 TMP\_157 = 2 TMP\_158 = 0 not(TMP\_158) = 1 TMP\_159 = 0 not(TMP\_159) = 1 TMP\_160 = 0 TMP\_161 = 1 not(TMP\_161) = 0 TMP\_162 = 1 not(TMP\_162) = 0 TMP\_163 = 2 TMP\_164 = 0 not(TMP\_164) = 1 TMP\_165 = 0 not(TMP\_165) = 1 TMP\_166 = 1 not(TMP\_166) = 0 TMP\_167 = 1 not(TMP\_167) = 0 TMP\_168 = 1 not(TMP\_168) = 0 TMP\_169 = 2 TMP\_170 = 1 not(TMP\_170) = 0 TMP\_171 = 0 not(TMP\_171) = 1 TMP\_172 = 0 not(TMP\_172) = 1 TMP\_173 = 1 not(TMP\_173) = 0 TMP\_174 = 2 TMP\_175 = 0 not(TMP\_175) = 1 TMP\_176 = 0 not(TMP\_176) = 1 TMP\_177 = 0 TMP\_178 = 1 not(TMP\_178) = 0 TMP\_179 = 1 not(TMP\_179) = 0 TMP\_180 = 2 TMP\_181 = 0 not(TMP\_181) = 1 TMP\_182 = 0 not(TMP\_182) = 1 TMP\_183 = 1 not(TMP\_183) = 0 TMP\_184 = 1 not(TMP\_184) = 0 TMP\_185 = 1 not(TMP\_185) = 0 TMP\_186 = 2 TMP\_187 = 1 not(TMP\_187) = 0 TMP\_188 = 0 not(TMP\_188) = 1 TMP\_189 = 0 not(TMP\_189) = 1 TMP\_190 = 1 not(TMP\_190) = 0 TMP\_191 = 2 TMP\_192 = 0 not(TMP\_192) = 1 TMP\_193 = 0 not(TMP\_193) = 1 TMP\_194 = 0 TMP\_195 = 1 not(TMP\_195) = 0 TMP\_196 = 1 not(TMP\_196) = 0 TMP\_197 = 2 TMP\_198 = 0 not(TMP\_198) = 1 TMP\_199 = 0 not(TMP\_199) = 1 TMP\_200 = 1 not(TMP\_200) = 0 TMP\_201 = 1 not(TMP\_201) = 0 TMP\_202 = 1 not(TMP\_202) = 0 TMP\_203 = 2 TMP\_204 = 1 not(TMP\_204) = 0 TMP\_205 = 0 not(TMP\_205) = 1 TMP\_206 = 1 not(TMP\_206) = 0 TMP\_207 = 1 not(TMP\_207) = 0 TMP\_208 = 3 TMP\_209 = 0 not(TMP\_209) = 1 TMP\_210 = 0 not(TMP\_210) = 1 TMP\_211 = 0 TMP\_212 = 1 not(TMP\_212) = 0 TMP\_213 = 1 not(TMP\_213) = 0 TMP\_214 = 2 TMP\_215 = 0 not(TMP\_215) = 1 TMP\_216 = 0 not(TMP\_216) = 1 TMP\_217 = 1 not(TMP\_217) = 0 TMP\_218 = 1 not(TMP\_218) = 0 TMP\_219 = 1 not(TMP\_219) = 0 TMP\_220 = 2 TMP\_221 = 1 not(TMP\_221) = 0 TMP\_222 = 1 not(TMP\_222) = 0 TMP\_223 = 0 not(TMP\_223) = 1 TMP\_224 = 1 not(TMP\_224) = 0 TMP\_225 = 3 TMP\_226 = 0 not(TMP\_226) = 1 TMP\_227 = 0 not(TMP\_227) = 1 TMP\_228 = 0 TMP\_229 = 1 not(TMP\_229) = 0 TMP\_230 = 1 not(TMP\_230) = 0 TMP\_231 = 2 TMP\_232 = 0 not(TMP\_232) = 1 TMP\_233 = 0 not(TMP\_233) = 1 TMP\_234 = 1 not(TMP\_234) = 0 TMP\_235 = 1 not(TMP\_235) = 0 TMP\_236 = 1 not(TMP\_236) = 0 TMP\_237 = 2 TMP\_238 = 0 not(TMP\_238) = 1 TMP\_239 = 1 not(TMP\_239) = 0 TMP\_240 = 1 not(TMP\_240) = 0 TMP\_241 = 1 not(TMP\_241) = 0 TMP\_242 = 3 TMP\_243 = 0 not(TMP\_243) = 1 TMP\_244 = 0 not(TMP\_244) = 1 TMP\_245 = 0 TMP\_246 = 1 not(TMP\_246) = 0 TMP\_247 = 1 not(TMP\_247) = 0 TMP\_248 = 2 TMP\_249 = 0 not(TMP\_249) = 1 TMP\_250 = 0 not(TMP\_250) = 1 TMP\_251 = 1 not(TMP\_251) = 0 TMP\_252 = 1 not(TMP\_252) = 0 TMP\_253 = 1 not(TMP\_253) = 0 TMP\_254 = 2 TMP\_255 = 0 not(TMP\_255) = 1 TMP\_256 = 1 not(TMP\_256) = 0 TMP\_257 = 1 not(TMP\_257) = 0 TMP\_258 = 0 not(TMP\_258) = 1 TMP\_259 = 2 TMP\_260 = 0 not(TMP\_260) = 1 TMP\_261 = 0 not(TMP\_261) = 1 TMP\_262 = 0 TMP\_263 = 1 not(TMP\_263) = 0 TMP\_264 = 1 not(TMP\_264) = 0 TMP\_265 = 2 TMP\_266 = 0 not(TMP\_266) = 1 TMP\_267 = 0 not(TMP\_267) = 1 TMP\_268 = 1 not(TMP\_268) = 0 TMP\_269 = 1 not(TMP\_269) = 0 TMP\_270 = 1 not(TMP\_270) = 0 TMP\_271 = 2 TMP\_272 = 0 not(TMP\_272) = 1 TMP\_273 = 1 not(TMP\_273) = 0 TMP\_274 = 1 not(TMP\_274) = 0 TMP\_275 = 1 not(TMP\_275) = 0 TMP\_276 = 3 TMP\_277 = 0 not(TMP\_277) = 1 TMP\_278 = 0 not(TMP\_278) = 1 TMP\_279 = 0 TMP\_280 = 1 not(TMP\_280) = 0 TMP\_281 = 1 not(TMP\_281) = 0 TMP\_282 = 2 TMP\_283 = 0 not(TMP\_283) = 1 TMP\_284 = 0 not(TMP\_284) = 1 TMP\_285 = 1 not(TMP\_285) = 0 TMP\_286 = 1 not(TMP\_286) = 0 TMP\_287 = 1 not(TMP\_287) = 0 TMP\_288 = 2 TMP\_289 = 1 not(TMP\_289) = 0 TMP\_290 = 1 not(TMP\_290) = 0 TMP\_291 = 1 not(TMP\_291) = 0 TMP\_292 = 0 not(TMP\_292) = 1 TMP\_293 = 3 TMP\_294 = 0 not(TMP\_294) = 1 TMP\_295 = 0 not(TMP\_295) = 1 TMP\_296 = 0 TMP\_297 = 1 not(TMP\_297) = 0 TMP\_298 = 1 not(TMP\_298) = 0 TMP\_299 = 2 TMP\_300 = 0 not(TMP\_300) = 1 TMP\_301 = 0 not(TMP\_301) = 1 TMP\_302 = 1 not(TMP\_302) = 0 TMP\_303 = 1 not(TMP\_303) = 0 TMP\_304 = 1 not(TMP\_304) = 0 TMP\_305 = 2 TMP\_306 = 0 not(TMP\_306) = 1 TMP\_307 = 1 not(TMP\_307) = 0 TMP\_308 = 1 not(TMP\_308) = 0 TMP\_309 = 0 not(TMP\_309) = 1 TMP\_310 = 2 TMP\_311 = 0 not(TMP\_311) = 1 TMP\_312 = 0 not(TMP\_312) = 1 TMP\_313 = 0 TMP\_314 = 1 not(TMP\_314) = 0 TMP\_315 = 1 not(TMP\_315) = 0 TMP\_316 = 2 TMP\_317 = 0 not(TMP\_317) = 1 TMP\_318 = 0 not(TMP\_318) = 1 TMP\_319 = 1 not(TMP\_319) = 0 TMP\_320 = 1 not(TMP\_320) = 0 TMP\_321 = 1 not(TMP\_321) = 0 TMP\_322 = 2 TMP\_323 = 1 not(TMP\_323) = 0 TMP\_324 = 1 not(TMP\_324) = 0 TMP\_325 = 1 not(TMP\_325) = 0 TMP\_326 = 0 not(TMP\_326) = 1 TMP\_327 = 3 TMP\_328 = 0 not(TMP\_328) = 1 TMP\_329 = 0 not(TMP\_329) = 1 TMP\_330 = 0 TMP\_331 = 1 not(TMP\_331) = 0 TMP\_332 = 1 not(TMP\_332) = 0 TMP\_333 = 2 TMP\_334 = 0 not(TMP\_334) = 1 TMP\_335 = 0 not(TMP\_335) = 1 TMP\_336 = 1 not(TMP\_336) = 0 TMP\_337 = 1 not(TMP\_337) = 0 TMP\_338 = 1 not(TMP\_338) = 0 TMP\_339 = 2 TMP\_340 = 0 not(TMP\_340) = 1 TMP\_341 = 1 not(TMP\_341) = 0 TMP\_342 = 1 not(TMP\_342) = 0 TMP\_343 = 1 not(TMP\_343) = 0 TMP\_344 = 3 TMP\_345 = 0 not(TMP\_345) = 1 TMP\_346 = 0 not(TMP\_346) = 1 TMP\_347 = 0 TMP\_348 = 1 not(TMP\_348) = 0 TMP\_349 = 1 not(TMP\_349) = 0 TMP\_350 = 2 TMP\_351 = 0 not(TMP\_351) = 1 TMP\_352 = 0 not(TMP\_352) = 1 TMP\_353 = 1 not(TMP\_353) = 0 TMP\_354 = 1 not(TMP\_354) = 0 TMP\_355 = 1 not(TMP\_355) = 0 TMP\_356 = 2 TMP\_357 = 1 not(TMP\_357) = 0 TMP\_358 = 1 not(TMP\_358) = 0 TMP\_359 = 0 not(TMP\_359) = 1 TMP\_360 = 1 not(TMP\_360) = 0 TMP\_361 = 3 TMP\_362 = 0 not(TMP\_362) = 1 TMP\_363 = 0 not(TMP\_363) = 1 TMP\_364 = 0 TMP\_365 = 1 not(TMP\_365) = 0 TMP\_366 = 1 not(TMP\_366) = 0 TMP\_367 = 2 TMP\_368 = 0 not(TMP\_368) = 1 TMP\_369 = 0 not(TMP\_369) = 1 TMP\_370 = 1 not(TMP\_370) = 0 TMP\_371 = 1 not(TMP\_371) = 0 TMP\_372 = 1 not(TMP\_372) = 0 TMP\_373 = 2 TMP\_374 = 0 not(TMP\_374) = 1 TMP\_375 = 1 not(TMP\_375) = 0 TMP\_376 = 1 not(TMP\_376) = 0 TMP\_377 = 1 not(TMP\_377) = 0 TMP\_378 = 3 TMP\_379 = 0 not(TMP\_379) = 1 TMP\_380 = 0 not(TMP\_380) = 1 TMP\_381 = 0 TMP\_382 = 1 not(TMP\_382) = 0 TMP\_383 = 1 not(TMP\_383) = 0 TMP\_384 = 2 TMP\_385 = 0 not(TMP\_385) = 1 TMP\_386 = 0 not(TMP\_386) = 1 TMP\_387 = 1 not(TMP\_387) = 0 TMP\_388 = 1 not(TMP\_388) = 0 TMP\_389 = 1 not(TMP\_389) = 0 TMP\_390 = 2 TMP\_391 = 1 not(TMP\_391) = 0 TMP\_392 = 1 not(TMP\_392) = 0 TMP\_393 = 0 not(TMP\_393) = 1 TMP\_394 = 1 not(TMP\_394) = 0 TMP\_395 = 3 TMP\_396 = 0 not(TMP\_396) = 1 TMP\_397 = 0 not(TMP\_397) = 1 TMP\_398 = 0 TMP\_399 = 1 not(TMP\_399) = 0 TMP\_400 = 1 not(TMP\_400) = 0 TMP\_401 = 2 TMP\_402 = 0 not(TMP\_402) = 1 TMP\_403 = 0 not(TMP\_403) = 1 TMP\_404 = 1 not(TMP\_404) = 0 TMP\_405 = 1 not(TMP\_405) = 0 TMP\_406 = 1 not(TMP\_406) = 0 TMP\_407 = 2 TMP\_408 = 1 not(TMP\_408) = 0 TMP\_409 = 1 not(TMP\_409) = 0 TMP\_410 = 0 not(TMP\_410) = 1 TMP\_411 = 1 not(TMP\_411) = 0 TMP\_412 = 3 TMP\_413 = 0 not(TMP\_413) = 1 TMP\_414 = 0 not(TMP\_414) = 1 TMP\_415 = 0 TMP\_416 = 1 not(TMP\_416) = 0 TMP\_417 = 1 not(TMP\_417) = 0 TMP\_418 = 2 TMP\_419 = 0 not(TMP\_419) = 1 TMP\_420 = 0 not(TMP\_420) = 1 TMP\_421 = 1 not(TMP\_421) = 0 TMP\_422 = 1 not(TMP\_422) = 0 TMP\_423 = 1 not(TMP\_423) = 0 TMP\_424 = 2 TMP\_425 = 0 not(TMP\_425) = 1 TMP\_426 = 1 not(TMP\_426) = 0 TMP\_427 = 1 not(TMP\_427) = 0 TMP\_428 = 1 not(TMP\_428) = 0 TMP\_429 = 3 TMP\_430 = 0 not(TMP\_430) = 1 TMP\_431 = 0 not(TMP\_431) = 1 TMP\_432 = 0 TMP\_433 = 1 not(TMP\_433) = 0 TMP\_434 = 1 not(TMP\_434) = 0 TMP\_435 = 2 TMP\_436 = 0 not(TMP\_436) = 1 TMP\_437 = 0 not(TMP\_437) = 1 TMP\_438 = 1 not(TMP\_438) = 0 TMP\_439 = 1 not(TMP\_439) = 0 TMP\_440 = 1 not(TMP\_440) = 0 TMP\_441 = 2 TMP\_442 = 1 not(TMP\_442) = 0 TMP\_443 = 1 not(TMP\_443) = 0 TMP\_444 = 0 not(TMP\_444) = 1 TMP\_445 = 1 not(TMP\_445) = 0 TMP\_446 = 3 TMP\_447 = 0 not(TMP\_447) = 1 TMP\_448 = 0 not(TMP\_448) = 1 TMP\_449 = 0 TMP\_450 = 1 not(TMP\_450) = 0 TMP\_451 = 1 not(TMP\_451) = 0 TMP\_452 = 2 TMP\_453 = 0 not(TMP\_453) = 1 TMP\_454 = 0 not(TMP\_454) = 1 TMP\_455 = 1 not(TMP\_455) = 0 TMP\_456 = 1 not(TMP\_456) = 0 TMP\_457 = 1 not(TMP\_457) = 0 TMP\_458 = 2 TMP\_459 = 0 not(TMP\_459) = 1 TMP\_460 = 1 not(TMP\_460) = 0 TMP\_461 = 0 not(TMP\_461) = 1 TMP\_462 = 1 not(TMP\_462) = 0 TMP\_463 = 2 TMP\_464 = 0 not(TMP\_464) = 1 TMP\_465 = 0 not(TMP\_465) = 1 TMP\_466 = 0 TMP\_467 = 1 not(TMP\_467) = 0 TMP\_468 = 1 not(TMP\_468) = 0 TMP\_469 = 2 TMP\_470 = 0 not(TMP\_470) = 1 TMP\_471 = 0 not(TMP\_471) = 1 TMP\_472 = 1 not(TMP\_472) = 0 TMP\_473 = 1 not(TMP\_473) = 0 TMP\_474 = 1 not(TMP\_474) = 0 TMP\_475 = 2 TMP\_476 = 1 not(TMP\_476) = 0 TMP\_477 = 1 not(TMP\_477) = 0 TMP\_478 = 0 not(TMP\_478) = 1 TMP\_479 = 1 not(TMP\_479) = 0 TMP\_480 = 3 TMP\_481 = 0 not(TMP\_481) = 1 TMP\_482 = 0 not(TMP\_482) = 1 TMP\_483 = 0 TMP\_484 = 1 not(TMP\_484) = 0 TMP\_485 = 1 not(TMP\_485) = 0 TMP\_486 = 2 TMP\_487 = 0 not(TMP\_487) = 1 TMP\_488 = 0 not(TMP\_488) = 1 TMP\_489 = 1 not(TMP\_489) = 0 TMP\_490 = 1 not(TMP\_490) = 0 TMP\_491 = 1 not(TMP\_491) = 0 TMP\_492 = 2 TMP\_493 = 1 not(TMP\_493) = 0 TMP\_494 = 1 not(TMP\_494) = 0 TMP\_495 = 1 not(TMP\_495) = 0 TMP\_496 = 0 not(TMP\_496) = 1 TMP\_497 = 3 TMP\_498 = 0 not(TMP\_498) = 1 TMP\_499 = 0 not(TMP\_499) = 1 TMP\_500 = 0 TMP\_501 = 1 not(TMP\_501) = 0 TMP\_502 = 1 not(TMP\_502) = 0 TMP\_503 = 2 TMP\_504 = 0 not(TMP\_504) = 1 TMP\_505 = 0 not(TMP\_505) = 1 TMP\_506 = 1 not(TMP\_506) = 0 TMP\_507 = 1 not(TMP\_507) = 0 TMP\_508 = 1 not(TMP\_508) = 0 TMP\_509 = 2 TMP\_510 = 1 not(TMP\_510) = 0 TMP\_511 = 0 not(TMP\_511) = 1 TMP\_512 = 1 not(TMP\_512) = 0 TMP\_513 = 1 not(TMP\_513) = 0 TMP\_514 = 3 TMP\_515 = 0 not(TMP\_515) = 1 TMP\_516 = 0 not(TMP\_516) = 1 TMP\_517 = 0 TMP\_518 = 1 not(TMP\_518) = 0 TMP\_519 = 1 not(TMP\_519) = 0 TMP\_520 = 2 TMP\_521 = 0 not(TMP\_521) = 1 TMP\_522 = 0 not(TMP\_522) = 1 TMP\_523 = 1 not(TMP\_523) = 0 TMP\_524 = 1 not(TMP\_524) = 0 TMP\_525 = 1 not(TMP\_525) = 0 TMP\_526 = 2 TMP\_527 = 1 not(TMP\_527) = 0 TMP\_528 = 0 not(TMP\_528) = 1 TMP\_529 = 1 not(TMP\_529) = 0 TMP\_530 = 1 not(TMP\_530) = 0 TMP\_531 = 3 TMP\_532 = 0 not(TMP\_532) = 1 TMP\_533 = 0 not(TMP\_533) = 1 TMP\_534 = 0 TMP\_535 = 1 not(TMP\_535) = 0 TMP\_536 = 1 not(TMP\_536) = 0 TMP\_537 = 2 TMP\_538 = 0 not(TMP\_538) = 1 TMP\_539 = 0 not(TMP\_539) = 1 TMP\_540 = 1 not(TMP\_540) = 0 TMP\_541 = 1 not(TMP\_541) = 0 TMP\_542 = 1 not(TMP\_542) = 0 TMP\_543 = 2 TMP\_544 = 1 not(TMP\_544) = 0 TMP\_545 = 1 not(TMP\_545) = 0 TMP\_546 = 1 not(TMP\_546) = 0 TMP\_547 = 0 not(TMP\_547) = 1 TMP\_548 = 3 TMP\_549 = 0 not(TMP\_549) = 1 TMP\_550 = 0 not(TMP\_550) = 1 TMP\_551 = 0 TMP\_552 = 1 not(TMP\_552) = 0 TMP\_553 = 1 not(TMP\_553) = 0 TMP\_554 = 2 TMP\_555 = 0 not(TMP\_555) = 1 TMP\_556 = 0 not(TMP\_556) = 1 TMP\_557 = 1 not(TMP\_557) = 0 TMP\_558 = 1 not(TMP\_558) = 0 TMP\_559 = 1 not(TMP\_559) = 0 TMP\_560 = 2 TMP\_561 = 1 not(TMP\_561) = 0 TMP\_562 = 0 not(TMP\_562) = 1 TMP\_563 = 1 not(TMP\_563) = 0 TMP\_564 = 1 not(TMP\_564) = 0 TMP\_565 = 3 TMP\_566 = 0 not(TMP\_566) = 1 TMP\_567 = 0 not(TMP\_567) = 1 TMP\_568 = 0 TMP\_569 = 1 not(TMP\_569) = 0 TMP\_570 = 1 not(TMP\_570) = 0 TMP\_571 = 2 TMP\_572 = 0 not(TMP\_572) = 1 TMP\_573 = 0 not(TMP\_573) = 1 TMP\_574 = 1 not(TMP\_574) = 0 TMP\_575 = 1 not(TMP\_575) = 0 TMP\_576 = 1 not(TMP\_576) = 0 TMP\_577 = 2 TMP\_578 = 1 not(TMP\_578) = 0 TMP\_579 = 0 not(TMP\_579) = 1 TMP\_580 = 1 not(TMP\_580) = 0 TMP\_581 = 0 not(TMP\_581) = 1 TMP\_582 = 2 TMP\_583 = 0 not(TMP\_583) = 1 TMP\_584 = 0 not(TMP\_584) = 1 TMP\_585 = 0 TMP\_586 = 1 not(TMP\_586) = 0 TMP\_587 = 1 not(TMP\_587) = 0 TMP\_588 = 2 TMP\_589 = 0 not(TMP\_589) = 1 TMP\_590 = 0 not(TMP\_590) = 1 TMP\_591 = 1 not(TMP\_591) = 0 TMP\_592 = 1 not(TMP\_592) = 0 TMP\_593 = 1 not(TMP\_593) = 0 TMP\_594 = 2 Area\_0 = 10000 Distance\_0\_Rule\_0 = 100 Distance\_1\_Rule\_0 = 100 Area\_1 = 5000 Distance\_0\_Rule\_1 = 50 Distance\_1\_Rule\_1 = 100 Area\_2 = 25000 Distance\_0\_Rule\_2 = 100 Distance\_1\_Rule\_2 = 250 Area\_3 = 20000 -(Rule\_3\_LB) = -50 Distance\_0\_Rule\_3 = 200 -(Rule\_3\_LB) = -300 Distance\_1\_Rule\_3 = 100 Area\_4 = 2500 -(Rule\_4\_LB) = 0 Distance\_0\_Rule\_4 = 25 -(Rule\_4\_LB) = -400 Distance\_1\_Rule\_4 = 100 Area\_5 = 30000 -(Rule\_5\_LB) = -150 Distance\_0\_Rule\_5 = 100 -(Rule\_5\_LB) = 0 Distance\_1\_Rule\_5 = 300 Area\_6 = 17500 -(Rule\_6\_LB) = -75 Distance\_0\_Rule\_6 = 175 -(Rule\_6\_LB) = -400 Distance\_1\_Rule\_6 = 100 Area\_7 = 15000 -(Rule\_7\_LB) = 0 Distance\_0\_Rule\_7 = 50 -(Rule\_7\_LB) = -100 Distance\_1\_Rule\_7 = 300 TMP\_595 = 125000 .

- Solution #13 found. 13 Solutions, Resolution 1.034s, 4698 Nodes (4,545.2 n/s), 9202 Backtracks, 4647 Fails, 0 Restarts

Rule\_3\_LB = 50 Rule\_3\_UB = 250 Rule\_3\_LB = 300 Rule\_3\_UB = 400 Rule\_4\_LB = 0 Rule\_4\_UB = 25 Rule\_4\_LB = 400 Rule\_4\_UB = 500 Rule\_5\_LB = 150 Rule\_5\_UB = 250 Rule\_5\_LB = 0 Rule\_5\_UB = 300 Rule\_6\_LB = 75 Rule\_6\_UB = 250 Rule\_6\_LB = 400 Rule\_6\_UB = 500 Rule\_7\_LB = 0 Rule\_7\_UB = 50 Rule\_7\_LB = 100 Rule\_7\_UB = 400 Overlaps\_0\_0 = 0 Overlaps\_0\_1 = 1 Overlaps\_0\_2 = 1 Overlaps\_0\_3 = 0 Overlaps\_0\_4 = 0 Overlaps\_0\_5 = 0 Overlaps\_0\_6 = 0 Overlaps\_0\_7 = 0 Overlaps\_1\_0 = 0 Overlaps\_1\_1 = 0 Overlaps\_1\_2 = 0 Overlaps\_1\_3 = 0 Overlaps\_1\_4 = 0 Overlaps\_1\_5 = 0 Overlaps\_1\_6 = 0 Overlaps\_1\_7 = 0 Overlaps\_2\_0 = 0 Overlaps\_2\_1 = 0 Overlaps\_2\_2 = 0 Overlaps\_2\_3 = 0 Overlaps\_2\_4 = 0 Overlaps\_2\_5 = 0 Overlaps\_2\_6 = 0 Overlaps\_2\_7 = 0 Overlaps\_3\_0 = 0 Overlaps\_3\_1 = 0 Overlaps\_3\_2 = 0 Overlaps\_3\_3 = 0 Overlaps\_3\_4 = 0 Overlaps\_3\_5 = 0 Overlaps\_3\_6 = 0 Overlaps\_3\_7 = 0 Overlaps\_4\_0 = 0 Overlaps\_4\_1 = 0 Overlaps\_4\_2 = 0 Overlaps\_4\_3 = 0 Overlaps\_4\_4 = 0 Overlaps\_4\_5 = 0 Overlaps\_4\_6 = 0 Overlaps\_4\_7 = 0 Overlaps\_5\_0 = 0 Overlaps\_5\_1 = 0 Overlaps\_5\_2 = 0 Overlaps\_5\_3 = 0 Overlaps\_5\_4 = 0 Overlaps\_5\_5 = 0 Overlaps\_5\_6 = 0 Overlaps\_5\_7 = 0 Overlaps\_6\_0 = 0 Overlaps\_6\_1 = 0 Overlaps\_6\_2 = 0 Overlaps\_6\_3 = 0 Overlaps\_6\_4 = 0 Overlaps\_6\_5 = 0 Overlaps\_6\_6 = 0 Overlaps\_6\_7 = 0 Overlaps\_7\_0 = 0 Overlaps\_7\_1 = 0 Overlaps\_7\_2 = 0 Overlaps\_7\_3 = 0 Overlaps\_7\_4 = 0 Overlaps\_7\_5 = 0 Overlaps\_7\_6 = 0 Overlaps\_7\_7 = 0 TMP\_0 = 1 not(TMP\_0) = 0 TMP\_1 = 1 not(TMP\_1) = 0 TMP\_2 = 0 not(TMP\_2) = 1 TMP\_3 = 1 not(TMP\_3) = 0 TMP\_4 = 3 TMP\_5 = 0 not(TMP\_5) = 1 TMP\_6 = 0 not(TMP\_6) = 1 TMP\_7 = 0 TMP\_8 = 1 not(TMP\_8) = 0 TMP\_9 = 1 not(TMP\_9) = 0 TMP\_10 = 2 TMP\_11 = 0 not(TMP\_11) = 1 TMP\_12 = 0 not(TMP\_12) = 1 TMP\_13 = 1 not(TMP\_13) = 0 TMP\_14 = 1 not(TMP\_14) = 0 TMP\_15 = 1 not(TMP\_15) = 0 TMP\_16 = 2 TMP\_17 = 1 not(TMP\_17) = 0 TMP\_18 = 1 not(TMP\_18) = 0 TMP\_19 = 1 not(TMP\_19) = 0 TMP\_20 = 0 not(TMP\_20) = 1 TMP\_21 = 3 TMP\_22 = 0 not(TMP\_22) = 1 TMP\_23 = 0 not(TMP\_23) = 1 TMP\_24 = 0 TMP\_25 = 1 not(TMP\_25) = 0 TMP\_26 = 1 not(TMP\_26) = 0 TMP\_27 = 2 TMP\_28 = 0 not(TMP\_28) = 1 TMP\_29 = 0 not(TMP\_29) = 1 TMP\_30 = 1 not(TMP\_30) = 0 TMP\_31 = 1 not(TMP\_31) = 0 TMP\_32 = 1 not(TMP\_32) = 0 TMP\_33 = 2 TMP\_34 = 1 not(TMP\_34) = 0 TMP\_35 = 1 not(TMP\_35) = 0 TMP\_36 = 0 not(TMP\_36) = 1 TMP\_37 = 1 not(TMP\_37) = 0 TMP\_38 = 3 TMP\_39 = 0 not(TMP\_39) = 1 TMP\_40 = 0 not(TMP\_40) = 1 TMP\_41 = 0 TMP\_42 = 1 not(TMP\_42) = 0 TMP\_43 = 1 not(TMP\_43) = 0 TMP\_44 = 2 TMP\_45 = 0 not(TMP\_45) = 1 TMP\_46 = 0 not(TMP\_46) = 1 TMP\_47 = 1 not(TMP\_47) = 0 TMP\_48 = 1 not(TMP\_48) = 0 TMP\_49 = 1 not(TMP\_49) = 0 TMP\_50 = 2 TMP\_51 = 0 not(TMP\_51) = 1 TMP\_52 = 1 not(TMP\_52) = 0 TMP\_53 = 1 not(TMP\_53) = 0 TMP\_54 = 0 not(TMP\_54) = 1 TMP\_55 = 2 TMP\_56 = 0 not(TMP\_56) = 1 TMP\_57 = 0 not(TMP\_57) = 1 TMP\_58 = 0 TMP\_59 = 1 not(TMP\_59) = 0 TMP\_60 = 1 not(TMP\_60) = 0 TMP\_61 = 2 TMP\_62 = 0 not(TMP\_62) = 1 TMP\_63 = 0 not(TMP\_63) = 1 TMP\_64 = 1 not(TMP\_64) = 0 TMP\_65 = 1 not(TMP\_65) = 0 TMP\_66 = 1 not(TMP\_66) = 0 TMP\_67 = 2 TMP\_68 = 1 not(TMP\_68) = 0 TMP\_69 = 1 not(TMP\_69) = 0 TMP\_70 = 0 not(TMP\_70) = 1 TMP\_71 = 1 not(TMP\_71) = 0 TMP\_72 = 3 TMP\_73 = 0 not(TMP\_73) = 1 TMP\_74 = 0 not(TMP\_74) = 1 TMP\_75 = 0 TMP\_76 = 1 not(TMP\_76) = 0 TMP\_77 = 1 not(TMP\_77) = 0 TMP\_78 = 2 TMP\_79 = 0 not(TMP\_79) = 1 TMP\_80 = 0 not(TMP\_80) = 1 TMP\_81 = 1 not(TMP\_81) = 0 TMP\_82 = 1 not(TMP\_82) = 0 TMP\_83 = 1 not(TMP\_83) = 0 TMP\_84 = 2 TMP\_85 = 1 not(TMP\_85) = 0 TMP\_86 = 1 not(TMP\_86) = 0 TMP\_87 = 1 not(TMP\_87) = 0 TMP\_88 = 0 not(TMP\_88) = 1 TMP\_89 = 3 TMP\_90 = 0 not(TMP\_90) = 1 TMP\_91 = 0 not(TMP\_91) = 1 TMP\_92 = 0 TMP\_93 = 1 not(TMP\_93) = 0 TMP\_94 = 1 not(TMP\_94) = 0 TMP\_95 = 2 TMP\_96 = 0 not(TMP\_96) = 1 TMP\_97 = 0 not(TMP\_97) = 1 TMP\_98 = 1 not(TMP\_98) = 0 TMP\_99 = 1 not(TMP\_99) = 0 TMP\_100 = 1 not(TMP\_100) = 0 TMP\_101 = 2 TMP\_102 = 0 not(TMP\_102) = 1 TMP\_103 = 1 not(TMP\_103) = 0 TMP\_104 = 1 not(TMP\_104) = 0 TMP\_105 = 1 not(TMP\_105) = 0 TMP\_106 = 3 TMP\_107 = 0 not(TMP\_107) = 1 TMP\_108 = 0 not(TMP\_108) = 1 TMP\_109 = 0 TMP\_110 = 1 not(TMP\_110) = 0 TMP\_111 = 1 not(TMP\_111) = 0 TMP\_112 = 2 TMP\_113 = 0 not(TMP\_113) = 1 TMP\_114 = 0 not(TMP\_114) = 1 TMP\_115 = 1 not(TMP\_115) = 0 TMP\_116 = 1 not(TMP\_116) = 0 TMP\_117 = 1 not(TMP\_117) = 0 TMP\_118 = 2 TMP\_119 = 1 not(TMP\_119) = 0 TMP\_120 = 1 not(TMP\_120) = 0 TMP\_121 = 0 not(TMP\_121) = 1 TMP\_122 = 1 not(TMP\_122) = 0 TMP\_123 = 3 TMP\_124 = 0 not(TMP\_124) = 1 TMP\_125 = 0 not(TMP\_125) = 1 TMP\_126 = 0 TMP\_127 = 1 not(TMP\_127) = 0 TMP\_128 = 1 not(TMP\_128) = 0 TMP\_129 = 2 TMP\_130 = 0 not(TMP\_130) = 1 TMP\_131 = 0 not(TMP\_131) = 1 TMP\_132 = 1 not(TMP\_132) = 0 TMP\_133 = 1 not(TMP\_133) = 0 TMP\_134 = 1 not(TMP\_134) = 0 TMP\_135 = 2 TMP\_136 = 1 not(TMP\_136) = 0 TMP\_137 = 0 not(TMP\_137) = 1 TMP\_138 = 1 not(TMP\_138) = 0 TMP\_139 = 1 not(TMP\_139) = 0 TMP\_140 = 3 TMP\_141 = 0 not(TMP\_141) = 1 TMP\_142 = 0 not(TMP\_142) = 1 TMP\_143 = 0 TMP\_144 = 1 not(TMP\_144) = 0 TMP\_145 = 1 not(TMP\_145) = 0 TMP\_146 = 2 TMP\_147 = 0 not(TMP\_147) = 1 TMP\_148 = 0 not(TMP\_148) = 1 TMP\_149 = 1 not(TMP\_149) = 0 TMP\_150 = 1 not(TMP\_150) = 0 TMP\_151 = 1 not(TMP\_151) = 0 TMP\_152 = 2 TMP\_153 = 1 not(TMP\_153) = 0 TMP\_154 = 0 not(TMP\_154) = 1 TMP\_155 = 0 not(TMP\_155) = 1 TMP\_156 = 1 not(TMP\_156) = 0 TMP\_157 = 2 TMP\_158 = 0 not(TMP\_158) = 1 TMP\_159 = 0 not(TMP\_159) = 1 TMP\_160 = 0 TMP\_161 = 1 not(TMP\_161) = 0 TMP\_162 = 1 not(TMP\_162) = 0 TMP\_163 = 2 TMP\_164 = 0 not(TMP\_164) = 1 TMP\_165 = 0 not(TMP\_165) = 1 TMP\_166 = 1 not(TMP\_166) = 0 TMP\_167 = 1 not(TMP\_167) = 0 TMP\_168 = 1 not(TMP\_168) = 0 TMP\_169 = 2 TMP\_170 = 1 not(TMP\_170) = 0 TMP\_171 = 0 not(TMP\_171) = 1 TMP\_172 = 0 not(TMP\_172) = 1 TMP\_173 = 1 not(TMP\_173) = 0 TMP\_174 = 2 TMP\_175 = 0 not(TMP\_175) = 1 TMP\_176 = 0 not(TMP\_176) = 1 TMP\_177 = 0 TMP\_178 = 1 not(TMP\_178) = 0 TMP\_179 = 1 not(TMP\_179) = 0 TMP\_180 = 2 TMP\_181 = 0 not(TMP\_181) = 1 TMP\_182 = 0 not(TMP\_182) = 1 TMP\_183 = 1 not(TMP\_183) = 0 TMP\_184 = 1 not(TMP\_184) = 0 TMP\_185 = 1 not(TMP\_185) = 0 TMP\_186 = 2 TMP\_187 = 1 not(TMP\_187) = 0 TMP\_188 = 0 not(TMP\_188) = 1 TMP\_189 = 0 not(TMP\_189) = 1 TMP\_190 = 1 not(TMP\_190) = 0 TMP\_191 = 2 TMP\_192 = 0 not(TMP\_192) = 1 TMP\_193 = 0 not(TMP\_193) = 1 TMP\_194 = 0 TMP\_195 = 1 not(TMP\_195) = 0 TMP\_196 = 1 not(TMP\_196) = 0 TMP\_197 = 2 TMP\_198 = 0 not(TMP\_198) = 1 TMP\_199 = 0 not(TMP\_199) = 1 TMP\_200 = 1 not(TMP\_200) = 0 TMP\_201 = 1 not(TMP\_201) = 0 TMP\_202 = 1 not(TMP\_202) = 0 TMP\_203 = 2 TMP\_204 = 1 not(TMP\_204) = 0 TMP\_205 = 0 not(TMP\_205) = 1 TMP\_206 = 1 not(TMP\_206) = 0 TMP\_207 = 1 not(TMP\_207) = 0 TMP\_208 = 3 TMP\_209 = 0 not(TMP\_209) = 1 TMP\_210 = 0 not(TMP\_210) = 1 TMP\_211 = 0 TMP\_212 = 1 not(TMP\_212) = 0 TMP\_213 = 1 not(TMP\_213) = 0 TMP\_214 = 2 TMP\_215 = 0 not(TMP\_215) = 1 TMP\_216 = 0 not(TMP\_216) = 1 TMP\_217 = 1 not(TMP\_217) = 0 TMP\_218 = 1 not(TMP\_218) = 0 TMP\_219 = 1 not(TMP\_219) = 0 TMP\_220 = 2 TMP\_221 = 1 not(TMP\_221) = 0 TMP\_222 = 1 not(TMP\_222) = 0 TMP\_223 = 0 not(TMP\_223) = 1 TMP\_224 = 1 not(TMP\_224) = 0 TMP\_225 = 3 TMP\_226 = 0 not(TMP\_226) = 1 TMP\_227 = 0 not(TMP\_227) = 1 TMP\_228 = 0 TMP\_229 = 1 not(TMP\_229) = 0 TMP\_230 = 1 not(TMP\_230) = 0 TMP\_231 = 2 TMP\_232 = 0 not(TMP\_232) = 1 TMP\_233 = 0 not(TMP\_233) = 1 TMP\_234 = 1 not(TMP\_234) = 0 TMP\_235 = 1 not(TMP\_235) = 0 TMP\_236 = 1 not(TMP\_236) = 0 TMP\_237 = 2 TMP\_238 = 0 not(TMP\_238) = 1 TMP\_239 = 1 not(TMP\_239) = 0 TMP\_240 = 1 not(TMP\_240) = 0 TMP\_241 = 1 not(TMP\_241) = 0 TMP\_242 = 3 TMP\_243 = 0 not(TMP\_243) = 1 TMP\_244 = 0 not(TMP\_244) = 1 TMP\_245 = 0 TMP\_246 = 1 not(TMP\_246) = 0 TMP\_247 = 1 not(TMP\_247) = 0 TMP\_248 = 2 TMP\_249 = 0 not(TMP\_249) = 1 TMP\_250 = 0 not(TMP\_250) = 1 TMP\_251 = 1 not(TMP\_251) = 0 TMP\_252 = 1 not(TMP\_252) = 0 TMP\_253 = 1 not(TMP\_253) = 0 TMP\_254 = 2 TMP\_255 = 0 not(TMP\_255) = 1 TMP\_256 = 1 not(TMP\_256) = 0 TMP\_257 = 1 not(TMP\_257) = 0 TMP\_258 = 0 not(TMP\_258) = 1 TMP\_259 = 2 TMP\_260 = 0 not(TMP\_260) = 1 TMP\_261 = 0 not(TMP\_261) = 1 TMP\_262 = 0 TMP\_263 = 1 not(TMP\_263) = 0 TMP\_264 = 1 not(TMP\_264) = 0 TMP\_265 = 2 TMP\_266 = 0 not(TMP\_266) = 1 TMP\_267 = 0 not(TMP\_267) = 1 TMP\_268 = 1 not(TMP\_268) = 0 TMP\_269 = 1 not(TMP\_269) = 0 TMP\_270 = 1 not(TMP\_270) = 0 TMP\_271 = 2 TMP\_272 = 0 not(TMP\_272) = 1 TMP\_273 = 1 not(TMP\_273) = 0 TMP\_274 = 1 not(TMP\_274) = 0 TMP\_275 = 1 not(TMP\_275) = 0 TMP\_276 = 3 TMP\_277 = 0 not(TMP\_277) = 1 TMP\_278 = 0 not(TMP\_278) = 1 TMP\_279 = 0 TMP\_280 = 1 not(TMP\_280) = 0 TMP\_281 = 1 not(TMP\_281) = 0 TMP\_282 = 2 TMP\_283 = 0 not(TMP\_283) = 1 TMP\_284 = 0 not(TMP\_284) = 1 TMP\_285 = 1 not(TMP\_285) = 0 TMP\_286 = 1 not(TMP\_286) = 0 TMP\_287 = 1 not(TMP\_287) = 0 TMP\_288 = 2 TMP\_289 = 1 not(TMP\_289) = 0 TMP\_290 = 1 not(TMP\_290) = 0 TMP\_291 = 1 not(TMP\_291) = 0 TMP\_292 = 0 not(TMP\_292) = 1 TMP\_293 = 3 TMP\_294 = 0 not(TMP\_294) = 1 TMP\_295 = 0 not(TMP\_295) = 1 TMP\_296 = 0 TMP\_297 = 1 not(TMP\_297) = 0 TMP\_298 = 1 not(TMP\_298) = 0 TMP\_299 = 2 TMP\_300 = 0 not(TMP\_300) = 1 TMP\_301 = 0 not(TMP\_301) = 1 TMP\_302 = 1 not(TMP\_302) = 0 TMP\_303 = 1 not(TMP\_303) = 0 TMP\_304 = 1 not(TMP\_304) = 0 TMP\_305 = 2 TMP\_306 = 0 not(TMP\_306) = 1 TMP\_307 = 1 not(TMP\_307) = 0 TMP\_308 = 1 not(TMP\_308) = 0 TMP\_309 = 0 not(TMP\_309) = 1 TMP\_310 = 2 TMP\_311 = 0 not(TMP\_311) = 1 TMP\_312 = 0 not(TMP\_312) = 1 TMP\_313 = 0 TMP\_314 = 1 not(TMP\_314) = 0 TMP\_315 = 1 not(TMP\_315) = 0 TMP\_316 = 2 TMP\_317 = 0 not(TMP\_317) = 1 TMP\_318 = 0 not(TMP\_318) = 1 TMP\_319 = 1 not(TMP\_319) = 0 TMP\_320 = 1 not(TMP\_320) = 0 TMP\_321 = 1 not(TMP\_321) = 0 TMP\_322 = 2 TMP\_323 = 1 not(TMP\_323) = 0 TMP\_324 = 1 not(TMP\_324) = 0 TMP\_325 = 1 not(TMP\_325) = 0 TMP\_326 = 0 not(TMP\_326) = 1 TMP\_327 = 3 TMP\_328 = 0 not(TMP\_328) = 1 TMP\_329 = 0 not(TMP\_329) = 1 TMP\_330 = 0 TMP\_331 = 1 not(TMP\_331) = 0 TMP\_332 = 1 not(TMP\_332) = 0 TMP\_333 = 2 TMP\_334 = 0 not(TMP\_334) = 1 TMP\_335 = 0 not(TMP\_335) = 1 TMP\_336 = 1 not(TMP\_336) = 0 TMP\_337 = 1 not(TMP\_337) = 0 TMP\_338 = 1 not(TMP\_338) = 0 TMP\_339 = 2 TMP\_340 = 0 not(TMP\_340) = 1 TMP\_341 = 1 not(TMP\_341) = 0 TMP\_342 = 1 not(TMP\_342) = 0 TMP\_343 = 1 not(TMP\_343) = 0 TMP\_344 = 3 TMP\_345 = 0 not(TMP\_345) = 1 TMP\_346 = 0 not(TMP\_346) = 1 TMP\_347 = 0 TMP\_348 = 1 not(TMP\_348) = 0 TMP\_349 = 1 not(TMP\_349) = 0 TMP\_350 = 2 TMP\_351 = 0 not(TMP\_351) = 1 TMP\_352 = 0 not(TMP\_352) = 1 TMP\_353 = 1 not(TMP\_353) = 0 TMP\_354 = 1 not(TMP\_354) = 0 TMP\_355 = 1 not(TMP\_355) = 0 TMP\_356 = 2 TMP\_357 = 1 not(TMP\_357) = 0 TMP\_358 = 1 not(TMP\_358) = 0 TMP\_359 = 0 not(TMP\_359) = 1 TMP\_360 = 1 not(TMP\_360) = 0 TMP\_361 = 3 TMP\_362 = 0 not(TMP\_362) = 1 TMP\_363 = 0 not(TMP\_363) = 1 TMP\_364 = 0 TMP\_365 = 1 not(TMP\_365) = 0 TMP\_366 = 1 not(TMP\_366) = 0 TMP\_367 = 2 TMP\_368 = 0 not(TMP\_368) = 1 TMP\_369 = 0 not(TMP\_369) = 1 TMP\_370 = 1 not(TMP\_370) = 0 TMP\_371 = 1 not(TMP\_371) = 0 TMP\_372 = 1 not(TMP\_372) = 0 TMP\_373 = 2 TMP\_374 = 0 not(TMP\_374) = 1 TMP\_375 = 1 not(TMP\_375) = 0 TMP\_376 = 1 not(TMP\_376) = 0 TMP\_377 = 1 not(TMP\_377) = 0 TMP\_378 = 3 TMP\_379 = 0 not(TMP\_379) = 1 TMP\_380 = 0 not(TMP\_380) = 1 TMP\_381 = 0 TMP\_382 = 1 not(TMP\_382) = 0 TMP\_383 = 1 not(TMP\_383) = 0 TMP\_384 = 2 TMP\_385 = 0 not(TMP\_385) = 1 TMP\_386 = 0 not(TMP\_386) = 1 TMP\_387 = 1 not(TMP\_387) = 0 TMP\_388 = 1 not(TMP\_388) = 0 TMP\_389 = 1 not(TMP\_389) = 0 TMP\_390 = 2 TMP\_391 = 1 not(TMP\_391) = 0 TMP\_392 = 1 not(TMP\_392) = 0 TMP\_393 = 0 not(TMP\_393) = 1 TMP\_394 = 1 not(TMP\_394) = 0 TMP\_395 = 3 TMP\_396 = 0 not(TMP\_396) = 1 TMP\_397 = 0 not(TMP\_397) = 1 TMP\_398 = 0 TMP\_399 = 1 not(TMP\_399) = 0 TMP\_400 = 1 not(TMP\_400) = 0 TMP\_401 = 2 TMP\_402 = 0 not(TMP\_402) = 1 TMP\_403 = 0 not(TMP\_403) = 1 TMP\_404 = 1 not(TMP\_404) = 0 TMP\_405 = 1 not(TMP\_405) = 0 TMP\_406 = 1 not(TMP\_406) = 0 TMP\_407 = 2 TMP\_408 = 1 not(TMP\_408) = 0 TMP\_409 = 1 not(TMP\_409) = 0 TMP\_410 = 0 not(TMP\_410) = 1 TMP\_411 = 1 not(TMP\_411) = 0 TMP\_412 = 3 TMP\_413 = 0 not(TMP\_413) = 1 TMP\_414 = 0 not(TMP\_414) = 1 TMP\_415 = 0 TMP\_416 = 1 not(TMP\_416) = 0 TMP\_417 = 1 not(TMP\_417) = 0 TMP\_418 = 2 TMP\_419 = 0 not(TMP\_419) = 1 TMP\_420 = 0 not(TMP\_420) = 1 TMP\_421 = 1 not(TMP\_421) = 0 TMP\_422 = 1 not(TMP\_422) = 0 TMP\_423 = 1 not(TMP\_423) = 0 TMP\_424 = 2 TMP\_425 = 0 not(TMP\_425) = 1 TMP\_426 = 1 not(TMP\_426) = 0 TMP\_427 = 1 not(TMP\_427) = 0 TMP\_428 = 1 not(TMP\_428) = 0 TMP\_429 = 3 TMP\_430 = 0 not(TMP\_430) = 1 TMP\_431 = 0 not(TMP\_431) = 1 TMP\_432 = 0 TMP\_433 = 1 not(TMP\_433) = 0 TMP\_434 = 1 not(TMP\_434) = 0 TMP\_435 = 2 TMP\_436 = 0 not(TMP\_436) = 1 TMP\_437 = 0 not(TMP\_437) = 1 TMP\_438 = 1 not(TMP\_438) = 0 TMP\_439 = 1 not(TMP\_439) = 0 TMP\_440 = 1 not(TMP\_440) = 0 TMP\_441 = 2 TMP\_442 = 1 not(TMP\_442) = 0 TMP\_443 = 1 not(TMP\_443) = 0 TMP\_444 = 0 not(TMP\_444) = 1 TMP\_445 = 1 not(TMP\_445) = 0 TMP\_446 = 3 TMP\_447 = 0 not(TMP\_447) = 1 TMP\_448 = 0 not(TMP\_448) = 1 TMP\_449 = 0 TMP\_450 = 1 not(TMP\_450) = 0 TMP\_451 = 1 not(TMP\_451) = 0 TMP\_452 = 2 TMP\_453 = 0 not(TMP\_453) = 1 TMP\_454 = 0 not(TMP\_454) = 1 TMP\_455 = 1 not(TMP\_455) = 0 TMP\_456 = 1 not(TMP\_456) = 0 TMP\_457 = 1 not(TMP\_457) = 0 TMP\_458 = 2 TMP\_459 = 0 not(TMP\_459) = 1 TMP\_460 = 1 not(TMP\_460) = 0 TMP\_461 = 0 not(TMP\_461) = 1 TMP\_462 = 1 not(TMP\_462) = 0 TMP\_463 = 2 TMP\_464 = 0 not(TMP\_464) = 1 TMP\_465 = 0 not(TMP\_465) = 1 TMP\_466 = 0 TMP\_467 = 1 not(TMP\_467) = 0 TMP\_468 = 1 not(TMP\_468) = 0 TMP\_469 = 2 TMP\_470 = 0 not(TMP\_470) = 1 TMP\_471 = 0 not(TMP\_471) = 1 TMP\_472 = 1 not(TMP\_472) = 0 TMP\_473 = 1 not(TMP\_473) = 0 TMP\_474 = 1 not(TMP\_474) = 0 TMP\_475 = 2 TMP\_476 = 1 not(TMP\_476) = 0 TMP\_477 = 1 not(TMP\_477) = 0 TMP\_478 = 0 not(TMP\_478) = 1 TMP\_479 = 1 not(TMP\_479) = 0 TMP\_480 = 3 TMP\_481 = 0 not(TMP\_481) = 1 TMP\_482 = 0 not(TMP\_482) = 1 TMP\_483 = 0 TMP\_484 = 1 not(TMP\_484) = 0 TMP\_485 = 1 not(TMP\_485) = 0 TMP\_486 = 2 TMP\_487 = 0 not(TMP\_487) = 1 TMP\_488 = 0 not(TMP\_488) = 1 TMP\_489 = 1 not(TMP\_489) = 0 TMP\_490 = 1 not(TMP\_490) = 0 TMP\_491 = 1 not(TMP\_491) = 0 TMP\_492 = 2 TMP\_493 = 1 not(TMP\_493) = 0 TMP\_494 = 1 not(TMP\_494) = 0 TMP\_495 = 1 not(TMP\_495) = 0 TMP\_496 = 0 not(TMP\_496) = 1 TMP\_497 = 3 TMP\_498 = 0 not(TMP\_498) = 1 TMP\_499 = 0 not(TMP\_499) = 1 TMP\_500 = 0 TMP\_501 = 1 not(TMP\_501) = 0 TMP\_502 = 1 not(TMP\_502) = 0 TMP\_503 = 2 TMP\_504 = 0 not(TMP\_504) = 1 TMP\_505 = 0 not(TMP\_505) = 1 TMP\_506 = 1 not(TMP\_506) = 0 TMP\_507 = 1 not(TMP\_507) = 0 TMP\_508 = 1 not(TMP\_508) = 0 TMP\_509 = 2 TMP\_510 = 1 not(TMP\_510) = 0 TMP\_511 = 0 not(TMP\_511) = 1 TMP\_512 = 1 not(TMP\_512) = 0 TMP\_513 = 1 not(TMP\_513) = 0 TMP\_514 = 3 TMP\_515 = 0 not(TMP\_515) = 1 TMP\_516 = 0 not(TMP\_516) = 1 TMP\_517 = 0 TMP\_518 = 1 not(TMP\_518) = 0 TMP\_519 = 1 not(TMP\_519) = 0 TMP\_520 = 2 TMP\_521 = 0 not(TMP\_521) = 1 TMP\_522 = 0 not(TMP\_522) = 1 TMP\_523 = 1 not(TMP\_523) = 0 TMP\_524 = 1 not(TMP\_524) = 0 TMP\_525 = 1 not(TMP\_525) = 0 TMP\_526 = 2 TMP\_527 = 1 not(TMP\_527) = 0 TMP\_528 = 0 not(TMP\_528) = 1 TMP\_529 = 1 not(TMP\_529) = 0 TMP\_530 = 1 not(TMP\_530) = 0 TMP\_531 = 3 TMP\_532 = 0 not(TMP\_532) = 1 TMP\_533 = 0 not(TMP\_533) = 1 TMP\_534 = 0 TMP\_535 = 1 not(TMP\_535) = 0 TMP\_536 = 1 not(TMP\_536) = 0 TMP\_537 = 2 TMP\_538 = 0 not(TMP\_538) = 1 TMP\_539 = 0 not(TMP\_539) = 1 TMP\_540 = 1 not(TMP\_540) = 0 TMP\_541 = 1 not(TMP\_541) = 0 TMP\_542 = 1 not(TMP\_542) = 0 TMP\_543 = 2 TMP\_544 = 1 not(TMP\_544) = 0 TMP\_545 = 1 not(TMP\_545) = 0 TMP\_546 = 1 not(TMP\_546) = 0 TMP\_547 = 0 not(TMP\_547) = 1 TMP\_548 = 3 TMP\_549 = 0 not(TMP\_549) = 1 TMP\_550 = 0 not(TMP\_550) = 1 TMP\_551 = 0 TMP\_552 = 1 not(TMP\_552) = 0 TMP\_553 = 1 not(TMP\_553) = 0 TMP\_554 = 2 TMP\_555 = 0 not(TMP\_555) = 1 TMP\_556 = 0 not(TMP\_556) = 1 TMP\_557 = 1 not(TMP\_557) = 0 TMP\_558 = 1 not(TMP\_558) = 0 TMP\_559 = 1 not(TMP\_559) = 0 TMP\_560 = 2 TMP\_561 = 1 not(TMP\_561) = 0 TMP\_562 = 0 not(TMP\_562) = 1 TMP\_563 = 1 not(TMP\_563) = 0 TMP\_564 = 1 not(TMP\_564) = 0 TMP\_565 = 3 TMP\_566 = 0 not(TMP\_566) = 1 TMP\_567 = 0 not(TMP\_567) = 1 TMP\_568 = 0 TMP\_569 = 1 not(TMP\_569) = 0 TMP\_570 = 1 not(TMP\_570) = 0 TMP\_571 = 2 TMP\_572 = 0 not(TMP\_572) = 1 TMP\_573 = 0 not(TMP\_573) = 1 TMP\_574 = 1 not(TMP\_574) = 0 TMP\_575 = 1 not(TMP\_575) = 0 TMP\_576 = 1 not(TMP\_576) = 0 TMP\_577 = 2 TMP\_578 = 1 not(TMP\_578) = 0 TMP\_579 = 0 not(TMP\_579) = 1 TMP\_580 = 1 not(TMP\_580) = 0 TMP\_581 = 0 not(TMP\_581) = 1 TMP\_582 = 2 TMP\_583 = 0 not(TMP\_583) = 1 TMP\_584 = 0 not(TMP\_584) = 1 TMP\_585 = 0 TMP\_586 = 1 not(TMP\_586) = 0 TMP\_587 = 1 not(TMP\_587) = 0 TMP\_588 = 2 TMP\_589 = 0 not(TMP\_589) = 1 TMP\_590 = 0 not(TMP\_590) = 1 TMP\_591 = 1 not(TMP\_591) = 0 TMP\_592 = 1 not(TMP\_592) = 0 TMP\_593 = 1 not(TMP\_593) = 0 TMP\_594 = 2 Area\_0 = 10000 Distance\_0\_Rule\_0 = 100 Distance\_1\_Rule\_0 = 100 Area\_1 = 5000 Distance\_0\_Rule\_1 = 50 Distance\_1\_Rule\_1 = 100 Area\_2 = 25000 Distance\_0\_Rule\_2 = 100 Distance\_1\_Rule\_2 = 250 Area\_3 = 20000 -(Rule\_3\_LB) = -50 Distance\_0\_Rule\_3 = 200 -(Rule\_3\_LB) = -300 Distance\_1\_Rule\_3 = 100 Area\_4 = 2500 -(Rule\_4\_LB) = 0 Distance\_0\_Rule\_4 = 25 -(Rule\_4\_LB) = -400 Distance\_1\_Rule\_4 = 100 Area\_5 = 30000 -(Rule\_5\_LB) = -150 Distance\_0\_Rule\_5 = 100 -(Rule\_5\_LB) = 0 Distance\_1\_Rule\_5 = 300 Area\_6 = 17500 -(Rule\_6\_LB) = -75 Distance\_0\_Rule\_6 = 175 -(Rule\_6\_LB) = -400 Distance\_1\_Rule\_6 = 100 Area\_7 = 15000 -(Rule\_7\_LB) = 0 Distance\_0\_Rule\_7 = 50 -(Rule\_7\_LB) = -100 Distance\_1\_Rule\_7 = 300 TMP\_595 = 125000 .

- Solution #14 found. 14 Solutions, Resolution 1.038s, 4699 Nodes (4,526.1 n/s), 9203 Backtracks, 4647 Fails, 0 Restarts

Rule\_3\_LB = 50 Rule\_3\_UB = 250 Rule\_3\_LB = 300 Rule\_3\_UB = 400 Rule\_4\_LB = 0 Rule\_4\_UB = 25 Rule\_4\_LB = 400 Rule\_4\_UB = 500 Rule\_5\_LB = 150 Rule\_5\_UB = 250 Rule\_5\_LB = 0 Rule\_5\_UB = 300 Rule\_6\_LB = 75 Rule\_6\_UB = 250 Rule\_6\_LB = 400 Rule\_6\_UB = 500 Rule\_7\_LB = 0 Rule\_7\_UB = 50 Rule\_7\_LB = 100 Rule\_7\_UB = 400 Overlaps\_0\_0 = 0 Overlaps\_0\_1 = 1 Overlaps\_0\_2 = 1 Overlaps\_0\_3 = 0 Overlaps\_0\_4 = 0 Overlaps\_0\_5 = 0 Overlaps\_0\_6 = 0 Overlaps\_0\_7 = 0 Overlaps\_1\_0 = 0 Overlaps\_1\_1 = 0 Overlaps\_1\_2 = 1 Overlaps\_1\_3 = 0 Overlaps\_1\_4 = 0 Overlaps\_1\_5 = 0 Overlaps\_1\_6 = 0 Overlaps\_1\_7 = 0 Overlaps\_2\_0 = 0 Overlaps\_2\_1 = 0 Overlaps\_2\_2 = 0 Overlaps\_2\_3 = 0 Overlaps\_2\_4 = 0 Overlaps\_2\_5 = 0 Overlaps\_2\_6 = 0 Overlaps\_2\_7 = 0 Overlaps\_3\_0 = 0 Overlaps\_3\_1 = 0 Overlaps\_3\_2 = 0 Overlaps\_3\_3 = 0 Overlaps\_3\_4 = 0 Overlaps\_3\_5 = 0 Overlaps\_3\_6 = 0 Overlaps\_3\_7 = 0 Overlaps\_4\_0 = 0 Overlaps\_4\_1 = 0 Overlaps\_4\_2 = 0 Overlaps\_4\_3 = 0 Overlaps\_4\_4 = 0 Overlaps\_4\_5 = 0 Overlaps\_4\_6 = 0 Overlaps\_4\_7 = 0 Overlaps\_5\_0 = 0 Overlaps\_5\_1 = 0 Overlaps\_5\_2 = 0 Overlaps\_5\_3 = 0 Overlaps\_5\_4 = 0 Overlaps\_5\_5 = 0 Overlaps\_5\_6 = 0 Overlaps\_5\_7 = 0 Overlaps\_6\_0 = 0 Overlaps\_6\_1 = 0 Overlaps\_6\_2 = 0 Overlaps\_6\_3 = 0 Overlaps\_6\_4 = 0 Overlaps\_6\_5 = 0 Overlaps\_6\_6 = 0 Overlaps\_6\_7 = 0 Overlaps\_7\_0 = 0 Overlaps\_7\_1 = 0 Overlaps\_7\_2 = 0 Overlaps\_7\_3 = 0 Overlaps\_7\_4 = 0 Overlaps\_7\_5 = 0 Overlaps\_7\_6 = 0 Overlaps\_7\_7 = 0 TMP\_0 = 1 not(TMP\_0) = 0 TMP\_1 = 1 not(TMP\_1) = 0 TMP\_2 = 0 not(TMP\_2) = 1 TMP\_3 = 1 not(TMP\_3) = 0 TMP\_4 = 3 TMP\_5 = 0 not(TMP\_5) = 1 TMP\_6 = 0 not(TMP\_6) = 1 TMP\_7 = 0 TMP\_8 = 1 not(TMP\_8) = 0 TMP\_9 = 1 not(TMP\_9) = 0 TMP\_10 = 2 TMP\_11 = 0 not(TMP\_11) = 1 TMP\_12 = 0 not(TMP\_12) = 1 TMP\_13 = 1 not(TMP\_13) = 0 TMP\_14 = 1 not(TMP\_14) = 0 TMP\_15 = 1 not(TMP\_15) = 0 TMP\_16 = 2 TMP\_17 = 1 not(TMP\_17) = 0 TMP\_18 = 1 not(TMP\_18) = 0 TMP\_19 = 1 not(TMP\_19) = 0 TMP\_20 = 0 not(TMP\_20) = 1 TMP\_21 = 3 TMP\_22 = 0 not(TMP\_22) = 1 TMP\_23 = 0 not(TMP\_23) = 1 TMP\_24 = 0 TMP\_25 = 1 not(TMP\_25) = 0 TMP\_26 = 1 not(TMP\_26) = 0 TMP\_27 = 2 TMP\_28 = 0 not(TMP\_28) = 1 TMP\_29 = 0 not(TMP\_29) = 1 TMP\_30 = 1 not(TMP\_30) = 0 TMP\_31 = 1 not(TMP\_31) = 0 TMP\_32 = 1 not(TMP\_32) = 0 TMP\_33 = 2 TMP\_34 = 1 not(TMP\_34) = 0 TMP\_35 = 1 not(TMP\_35) = 0 TMP\_36 = 0 not(TMP\_36) = 1 TMP\_37 = 1 not(TMP\_37) = 0 TMP\_38 = 3 TMP\_39 = 0 not(TMP\_39) = 1 TMP\_40 = 0 not(TMP\_40) = 1 TMP\_41 = 0 TMP\_42 = 1 not(TMP\_42) = 0 TMP\_43 = 1 not(TMP\_43) = 0 TMP\_44 = 2 TMP\_45 = 0 not(TMP\_45) = 1 TMP\_46 = 0 not(TMP\_46) = 1 TMP\_47 = 1 not(TMP\_47) = 0 TMP\_48 = 1 not(TMP\_48) = 0 TMP\_49 = 1 not(TMP\_49) = 0 TMP\_50 = 2 TMP\_51 = 0 not(TMP\_51) = 1 TMP\_52 = 1 not(TMP\_52) = 0 TMP\_53 = 1 not(TMP\_53) = 0 TMP\_54 = 0 not(TMP\_54) = 1 TMP\_55 = 2 TMP\_56 = 0 not(TMP\_56) = 1 TMP\_57 = 0 not(TMP\_57) = 1 TMP\_58 = 0 TMP\_59 = 1 not(TMP\_59) = 0 TMP\_60 = 1 not(TMP\_60) = 0 TMP\_61 = 2 TMP\_62 = 0 not(TMP\_62) = 1 TMP\_63 = 0 not(TMP\_63) = 1 TMP\_64 = 1 not(TMP\_64) = 0 TMP\_65 = 1 not(TMP\_65) = 0 TMP\_66 = 1 not(TMP\_66) = 0 TMP\_67 = 2 TMP\_68 = 1 not(TMP\_68) = 0 TMP\_69 = 1 not(TMP\_69) = 0 TMP\_70 = 0 not(TMP\_70) = 1 TMP\_71 = 1 not(TMP\_71) = 0 TMP\_72 = 3 TMP\_73 = 0 not(TMP\_73) = 1 TMP\_74 = 0 not(TMP\_74) = 1 TMP\_75 = 0 TMP\_76 = 1 not(TMP\_76) = 0 TMP\_77 = 1 not(TMP\_77) = 0 TMP\_78 = 2 TMP\_79 = 0 not(TMP\_79) = 1 TMP\_80 = 0 not(TMP\_80) = 1 TMP\_81 = 1 not(TMP\_81) = 0 TMP\_82 = 1 not(TMP\_82) = 0 TMP\_83 = 1 not(TMP\_83) = 0 TMP\_84 = 2 TMP\_85 = 1 not(TMP\_85) = 0 TMP\_86 = 1 not(TMP\_86) = 0 TMP\_87 = 1 not(TMP\_87) = 0 TMP\_88 = 0 not(TMP\_88) = 1 TMP\_89 = 3 TMP\_90 = 0 not(TMP\_90) = 1 TMP\_91 = 0 not(TMP\_91) = 1 TMP\_92 = 0 TMP\_93 = 1 not(TMP\_93) = 0 TMP\_94 = 1 not(TMP\_94) = 0 TMP\_95 = 2 TMP\_96 = 0 not(TMP\_96) = 1 TMP\_97 = 0 not(TMP\_97) = 1 TMP\_98 = 1 not(TMP\_98) = 0 TMP\_99 = 1 not(TMP\_99) = 0 TMP\_100 = 1 not(TMP\_100) = 0 TMP\_101 = 2 TMP\_102 = 0 not(TMP\_102) = 1 TMP\_103 = 1 not(TMP\_103) = 0 TMP\_104 = 1 not(TMP\_104) = 0 TMP\_105 = 1 not(TMP\_105) = 0 TMP\_106 = 3 TMP\_107 = 0 not(TMP\_107) = 1 TMP\_108 = 0 not(TMP\_108) = 1 TMP\_109 = 0 TMP\_110 = 1 not(TMP\_110) = 0 TMP\_111 = 1 not(TMP\_111) = 0 TMP\_112 = 2 TMP\_113 = 0 not(TMP\_113) = 1 TMP\_114 = 0 not(TMP\_114) = 1 TMP\_115 = 1 not(TMP\_115) = 0 TMP\_116 = 1 not(TMP\_116) = 0 TMP\_117 = 1 not(TMP\_117) = 0 TMP\_118 = 2 TMP\_119 = 1 not(TMP\_119) = 0 TMP\_120 = 1 not(TMP\_120) = 0 TMP\_121 = 0 not(TMP\_121) = 1 TMP\_122 = 1 not(TMP\_122) = 0 TMP\_123 = 3 TMP\_124 = 0 not(TMP\_124) = 1 TMP\_125 = 0 not(TMP\_125) = 1 TMP\_126 = 0 TMP\_127 = 1 not(TMP\_127) = 0 TMP\_128 = 1 not(TMP\_128) = 0 TMP\_129 = 2 TMP\_130 = 0 not(TMP\_130) = 1 TMP\_131 = 0 not(TMP\_131) = 1 TMP\_132 = 1 not(TMP\_132) = 0 TMP\_133 = 1 not(TMP\_133) = 0 TMP\_134 = 1 not(TMP\_134) = 0 TMP\_135 = 2 TMP\_136 = 1 not(TMP\_136) = 0 TMP\_137 = 0 not(TMP\_137) = 1 TMP\_138 = 1 not(TMP\_138) = 0 TMP\_139 = 1 not(TMP\_139) = 0 TMP\_140 = 3 TMP\_141 = 0 not(TMP\_141) = 1 TMP\_142 = 0 not(TMP\_142) = 1 TMP\_143 = 0 TMP\_144 = 1 not(TMP\_144) = 0 TMP\_145 = 1 not(TMP\_145) = 0 TMP\_146 = 2 TMP\_147 = 0 not(TMP\_147) = 1 TMP\_148 = 0 not(TMP\_148) = 1 TMP\_149 = 1 not(TMP\_149) = 0 TMP\_150 = 1 not(TMP\_150) = 0 TMP\_151 = 1 not(TMP\_151) = 0 TMP\_152 = 2 TMP\_153 = 1 not(TMP\_153) = 0 TMP\_154 = 0 not(TMP\_154) = 1 TMP\_155 = 0 not(TMP\_155) = 1 TMP\_156 = 1 not(TMP\_156) = 0 TMP\_157 = 2 TMP\_158 = 0 not(TMP\_158) = 1 TMP\_159 = 0 not(TMP\_159) = 1 TMP\_160 = 0 TMP\_161 = 1 not(TMP\_161) = 0 TMP\_162 = 1 not(TMP\_162) = 0 TMP\_163 = 2 TMP\_164 = 0 not(TMP\_164) = 1 TMP\_165 = 0 not(TMP\_165) = 1 TMP\_166 = 1 not(TMP\_166) = 0 TMP\_167 = 1 not(TMP\_167) = 0 TMP\_168 = 1 not(TMP\_168) = 0 TMP\_169 = 2 TMP\_170 = 1 not(TMP\_170) = 0 TMP\_171 = 0 not(TMP\_171) = 1 TMP\_172 = 0 not(TMP\_172) = 1 TMP\_173 = 1 not(TMP\_173) = 0 TMP\_174 = 2 TMP\_175 = 0 not(TMP\_175) = 1 TMP\_176 = 0 not(TMP\_176) = 1 TMP\_177 = 0 TMP\_178 = 1 not(TMP\_178) = 0 TMP\_179 = 1 not(TMP\_179) = 0 TMP\_180 = 2 TMP\_181 = 0 not(TMP\_181) = 1 TMP\_182 = 0 not(TMP\_182) = 1 TMP\_183 = 1 not(TMP\_183) = 0 TMP\_184 = 1 not(TMP\_184) = 0 TMP\_185 = 1 not(TMP\_185) = 0 TMP\_186 = 2 TMP\_187 = 1 not(TMP\_187) = 0 TMP\_188 = 0 not(TMP\_188) = 1 TMP\_189 = 0 not(TMP\_189) = 1 TMP\_190 = 1 not(TMP\_190) = 0 TMP\_191 = 2 TMP\_192 = 0 not(TMP\_192) = 1 TMP\_193 = 0 not(TMP\_193) = 1 TMP\_194 = 0 TMP\_195 = 1 not(TMP\_195) = 0 TMP\_196 = 1 not(TMP\_196) = 0 TMP\_197 = 2 TMP\_198 = 0 not(TMP\_198) = 1 TMP\_199 = 0 not(TMP\_199) = 1 TMP\_200 = 1 not(TMP\_200) = 0 TMP\_201 = 1 not(TMP\_201) = 0 TMP\_202 = 1 not(TMP\_202) = 0 TMP\_203 = 2 TMP\_204 = 1 not(TMP\_204) = 0 TMP\_205 = 0 not(TMP\_205) = 1 TMP\_206 = 1 not(TMP\_206) = 0 TMP\_207 = 1 not(TMP\_207) = 0 TMP\_208 = 3 TMP\_209 = 0 not(TMP\_209) = 1 TMP\_210 = 0 not(TMP\_210) = 1 TMP\_211 = 0 TMP\_212 = 1 not(TMP\_212) = 0 TMP\_213 = 1 not(TMP\_213) = 0 TMP\_214 = 2 TMP\_215 = 0 not(TMP\_215) = 1 TMP\_216 = 0 not(TMP\_216) = 1 TMP\_217 = 1 not(TMP\_217) = 0 TMP\_218 = 1 not(TMP\_218) = 0 TMP\_219 = 1 not(TMP\_219) = 0 TMP\_220 = 2 TMP\_221 = 1 not(TMP\_221) = 0 TMP\_222 = 1 not(TMP\_222) = 0 TMP\_223 = 0 not(TMP\_223) = 1 TMP\_224 = 1 not(TMP\_224) = 0 TMP\_225 = 3 TMP\_226 = 0 not(TMP\_226) = 1 TMP\_227 = 0 not(TMP\_227) = 1 TMP\_228 = 0 TMP\_229 = 1 not(TMP\_229) = 0 TMP\_230 = 1 not(TMP\_230) = 0 TMP\_231 = 2 TMP\_232 = 0 not(TMP\_232) = 1 TMP\_233 = 0 not(TMP\_233) = 1 TMP\_234 = 1 not(TMP\_234) = 0 TMP\_235 = 1 not(TMP\_235) = 0 TMP\_236 = 1 not(TMP\_236) = 0 TMP\_237 = 2 TMP\_238 = 0 not(TMP\_238) = 1 TMP\_239 = 1 not(TMP\_239) = 0 TMP\_240 = 1 not(TMP\_240) = 0 TMP\_241 = 1 not(TMP\_241) = 0 TMP\_242 = 3 TMP\_243 = 0 not(TMP\_243) = 1 TMP\_244 = 0 not(TMP\_244) = 1 TMP\_245 = 0 TMP\_246 = 1 not(TMP\_246) = 0 TMP\_247 = 1 not(TMP\_247) = 0 TMP\_248 = 2 TMP\_249 = 0 not(TMP\_249) = 1 TMP\_250 = 0 not(TMP\_250) = 1 TMP\_251 = 1 not(TMP\_251) = 0 TMP\_252 = 1 not(TMP\_252) = 0 TMP\_253 = 1 not(TMP\_253) = 0 TMP\_254 = 2 TMP\_255 = 0 not(TMP\_255) = 1 TMP\_256 = 1 not(TMP\_256) = 0 TMP\_257 = 1 not(TMP\_257) = 0 TMP\_258 = 0 not(TMP\_258) = 1 TMP\_259 = 2 TMP\_260 = 0 not(TMP\_260) = 1 TMP\_261 = 0 not(TMP\_261) = 1 TMP\_262 = 0 TMP\_263 = 1 not(TMP\_263) = 0 TMP\_264 = 1 not(TMP\_264) = 0 TMP\_265 = 2 TMP\_266 = 0 not(TMP\_266) = 1 TMP\_267 = 0 not(TMP\_267) = 1 TMP\_268 = 1 not(TMP\_268) = 0 TMP\_269 = 1 not(TMP\_269) = 0 TMP\_270 = 1 not(TMP\_270) = 0 TMP\_271 = 2 TMP\_272 = 0 not(TMP\_272) = 1 TMP\_273 = 1 not(TMP\_273) = 0 TMP\_274 = 1 not(TMP\_274) = 0 TMP\_275 = 1 not(TMP\_275) = 0 TMP\_276 = 3 TMP\_277 = 0 not(TMP\_277) = 1 TMP\_278 = 0 not(TMP\_278) = 1 TMP\_279 = 0 TMP\_280 = 1 not(TMP\_280) = 0 TMP\_281 = 1 not(TMP\_281) = 0 TMP\_282 = 2 TMP\_283 = 0 not(TMP\_283) = 1 TMP\_284 = 0 not(TMP\_284) = 1 TMP\_285 = 1 not(TMP\_285) = 0 TMP\_286 = 1 not(TMP\_286) = 0 TMP\_287 = 1 not(TMP\_287) = 0 TMP\_288 = 2 TMP\_289 = 1 not(TMP\_289) = 0 TMP\_290 = 1 not(TMP\_290) = 0 TMP\_291 = 1 not(TMP\_291) = 0 TMP\_292 = 0 not(TMP\_292) = 1 TMP\_293 = 3 TMP\_294 = 0 not(TMP\_294) = 1 TMP\_295 = 0 not(TMP\_295) = 1 TMP\_296 = 0 TMP\_297 = 1 not(TMP\_297) = 0 TMP\_298 = 1 not(TMP\_298) = 0 TMP\_299 = 2 TMP\_300 = 0 not(TMP\_300) = 1 TMP\_301 = 0 not(TMP\_301) = 1 TMP\_302 = 1 not(TMP\_302) = 0 TMP\_303 = 1 not(TMP\_303) = 0 TMP\_304 = 1 not(TMP\_304) = 0 TMP\_305 = 2 TMP\_306 = 0 not(TMP\_306) = 1 TMP\_307 = 1 not(TMP\_307) = 0 TMP\_308 = 1 not(TMP\_308) = 0 TMP\_309 = 0 not(TMP\_309) = 1 TMP\_310 = 2 TMP\_311 = 0 not(TMP\_311) = 1 TMP\_312 = 0 not(TMP\_312) = 1 TMP\_313 = 0 TMP\_314 = 1 not(TMP\_314) = 0 TMP\_315 = 1 not(TMP\_315) = 0 TMP\_316 = 2 TMP\_317 = 0 not(TMP\_317) = 1 TMP\_318 = 0 not(TMP\_318) = 1 TMP\_319 = 1 not(TMP\_319) = 0 TMP\_320 = 1 not(TMP\_320) = 0 TMP\_321 = 1 not(TMP\_321) = 0 TMP\_322 = 2 TMP\_323 = 1 not(TMP\_323) = 0 TMP\_324 = 1 not(TMP\_324) = 0 TMP\_325 = 1 not(TMP\_325) = 0 TMP\_326 = 0 not(TMP\_326) = 1 TMP\_327 = 3 TMP\_328 = 0 not(TMP\_328) = 1 TMP\_329 = 0 not(TMP\_329) = 1 TMP\_330 = 0 TMP\_331 = 1 not(TMP\_331) = 0 TMP\_332 = 1 not(TMP\_332) = 0 TMP\_333 = 2 TMP\_334 = 0 not(TMP\_334) = 1 TMP\_335 = 0 not(TMP\_335) = 1 TMP\_336 = 1 not(TMP\_336) = 0 TMP\_337 = 1 not(TMP\_337) = 0 TMP\_338 = 1 not(TMP\_338) = 0 TMP\_339 = 2 TMP\_340 = 0 not(TMP\_340) = 1 TMP\_341 = 1 not(TMP\_341) = 0 TMP\_342 = 1 not(TMP\_342) = 0 TMP\_343 = 1 not(TMP\_343) = 0 TMP\_344 = 3 TMP\_345 = 0 not(TMP\_345) = 1 TMP\_346 = 0 not(TMP\_346) = 1 TMP\_347 = 0 TMP\_348 = 1 not(TMP\_348) = 0 TMP\_349 = 1 not(TMP\_349) = 0 TMP\_350 = 2 TMP\_351 = 0 not(TMP\_351) = 1 TMP\_352 = 0 not(TMP\_352) = 1 TMP\_353 = 1 not(TMP\_353) = 0 TMP\_354 = 1 not(TMP\_354) = 0 TMP\_355 = 1 not(TMP\_355) = 0 TMP\_356 = 2 TMP\_357 = 1 not(TMP\_357) = 0 TMP\_358 = 1 not(TMP\_358) = 0 TMP\_359 = 0 not(TMP\_359) = 1 TMP\_360 = 1 not(TMP\_360) = 0 TMP\_361 = 3 TMP\_362 = 0 not(TMP\_362) = 1 TMP\_363 = 0 not(TMP\_363) = 1 TMP\_364 = 0 TMP\_365 = 1 not(TMP\_365) = 0 TMP\_366 = 1 not(TMP\_366) = 0 TMP\_367 = 2 TMP\_368 = 0 not(TMP\_368) = 1 TMP\_369 = 0 not(TMP\_369) = 1 TMP\_370 = 1 not(TMP\_370) = 0 TMP\_371 = 1 not(TMP\_371) = 0 TMP\_372 = 1 not(TMP\_372) = 0 TMP\_373 = 2 TMP\_374 = 0 not(TMP\_374) = 1 TMP\_375 = 1 not(TMP\_375) = 0 TMP\_376 = 1 not(TMP\_376) = 0 TMP\_377 = 1 not(TMP\_377) = 0 TMP\_378 = 3 TMP\_379 = 0 not(TMP\_379) = 1 TMP\_380 = 0 not(TMP\_380) = 1 TMP\_381 = 0 TMP\_382 = 1 not(TMP\_382) = 0 TMP\_383 = 1 not(TMP\_383) = 0 TMP\_384 = 2 TMP\_385 = 0 not(TMP\_385) = 1 TMP\_386 = 0 not(TMP\_386) = 1 TMP\_387 = 1 not(TMP\_387) = 0 TMP\_388 = 1 not(TMP\_388) = 0 TMP\_389 = 1 not(TMP\_389) = 0 TMP\_390 = 2 TMP\_391 = 1 not(TMP\_391) = 0 TMP\_392 = 1 not(TMP\_392) = 0 TMP\_393 = 0 not(TMP\_393) = 1 TMP\_394 = 1 not(TMP\_394) = 0 TMP\_395 = 3 TMP\_396 = 0 not(TMP\_396) = 1 TMP\_397 = 0 not(TMP\_397) = 1 TMP\_398 = 0 TMP\_399 = 1 not(TMP\_399) = 0 TMP\_400 = 1 not(TMP\_400) = 0 TMP\_401 = 2 TMP\_402 = 0 not(TMP\_402) = 1 TMP\_403 = 0 not(TMP\_403) = 1 TMP\_404 = 1 not(TMP\_404) = 0 TMP\_405 = 1 not(TMP\_405) = 0 TMP\_406 = 1 not(TMP\_406) = 0 TMP\_407 = 2 TMP\_408 = 1 not(TMP\_408) = 0 TMP\_409 = 1 not(TMP\_409) = 0 TMP\_410 = 0 not(TMP\_410) = 1 TMP\_411 = 1 not(TMP\_411) = 0 TMP\_412 = 3 TMP\_413 = 0 not(TMP\_413) = 1 TMP\_414 = 0 not(TMP\_414) = 1 TMP\_415 = 0 TMP\_416 = 1 not(TMP\_416) = 0 TMP\_417 = 1 not(TMP\_417) = 0 TMP\_418 = 2 TMP\_419 = 0 not(TMP\_419) = 1 TMP\_420 = 0 not(TMP\_420) = 1 TMP\_421 = 1 not(TMP\_421) = 0 TMP\_422 = 1 not(TMP\_422) = 0 TMP\_423 = 1 not(TMP\_423) = 0 TMP\_424 = 2 TMP\_425 = 0 not(TMP\_425) = 1 TMP\_426 = 1 not(TMP\_426) = 0 TMP\_427 = 1 not(TMP\_427) = 0 TMP\_428 = 1 not(TMP\_428) = 0 TMP\_429 = 3 TMP\_430 = 0 not(TMP\_430) = 1 TMP\_431 = 0 not(TMP\_431) = 1 TMP\_432 = 0 TMP\_433 = 1 not(TMP\_433) = 0 TMP\_434 = 1 not(TMP\_434) = 0 TMP\_435 = 2 TMP\_436 = 0 not(TMP\_436) = 1 TMP\_437 = 0 not(TMP\_437) = 1 TMP\_438 = 1 not(TMP\_438) = 0 TMP\_439 = 1 not(TMP\_439) = 0 TMP\_440 = 1 not(TMP\_440) = 0 TMP\_441 = 2 TMP\_442 = 1 not(TMP\_442) = 0 TMP\_443 = 1 not(TMP\_443) = 0 TMP\_444 = 0 not(TMP\_444) = 1 TMP\_445 = 1 not(TMP\_445) = 0 TMP\_446 = 3 TMP\_447 = 0 not(TMP\_447) = 1 TMP\_448 = 0 not(TMP\_448) = 1 TMP\_449 = 0 TMP\_450 = 1 not(TMP\_450) = 0 TMP\_451 = 1 not(TMP\_451) = 0 TMP\_452 = 2 TMP\_453 = 0 not(TMP\_453) = 1 TMP\_454 = 0 not(TMP\_454) = 1 TMP\_455 = 1 not(TMP\_455) = 0 TMP\_456 = 1 not(TMP\_456) = 0 TMP\_457 = 1 not(TMP\_457) = 0 TMP\_458 = 2 TMP\_459 = 0 not(TMP\_459) = 1 TMP\_460 = 1 not(TMP\_460) = 0 TMP\_461 = 0 not(TMP\_461) = 1 TMP\_462 = 1 not(TMP\_462) = 0 TMP\_463 = 2 TMP\_464 = 0 not(TMP\_464) = 1 TMP\_465 = 0 not(TMP\_465) = 1 TMP\_466 = 0 TMP\_467 = 1 not(TMP\_467) = 0 TMP\_468 = 1 not(TMP\_468) = 0 TMP\_469 = 2 TMP\_470 = 0 not(TMP\_470) = 1 TMP\_471 = 0 not(TMP\_471) = 1 TMP\_472 = 1 not(TMP\_472) = 0 TMP\_473 = 1 not(TMP\_473) = 0 TMP\_474 = 1 not(TMP\_474) = 0 TMP\_475 = 2 TMP\_476 = 1 not(TMP\_476) = 0 TMP\_477 = 1 not(TMP\_477) = 0 TMP\_478 = 0 not(TMP\_478) = 1 TMP\_479 = 1 not(TMP\_479) = 0 TMP\_480 = 3 TMP\_481 = 0 not(TMP\_481) = 1 TMP\_482 = 0 not(TMP\_482) = 1 TMP\_483 = 0 TMP\_484 = 1 not(TMP\_484) = 0 TMP\_485 = 1 not(TMP\_485) = 0 TMP\_486 = 2 TMP\_487 = 0 not(TMP\_487) = 1 TMP\_488 = 0 not(TMP\_488) = 1 TMP\_489 = 1 not(TMP\_489) = 0 TMP\_490 = 1 not(TMP\_490) = 0 TMP\_491 = 1 not(TMP\_491) = 0 TMP\_492 = 2 TMP\_493 = 1 not(TMP\_493) = 0 TMP\_494 = 1 not(TMP\_494) = 0 TMP\_495 = 1 not(TMP\_495) = 0 TMP\_496 = 0 not(TMP\_496) = 1 TMP\_497 = 3 TMP\_498 = 0 not(TMP\_498) = 1 TMP\_499 = 0 not(TMP\_499) = 1 TMP\_500 = 0 TMP\_501 = 1 not(TMP\_501) = 0 TMP\_502 = 1 not(TMP\_502) = 0 TMP\_503 = 2 TMP\_504 = 0 not(TMP\_504) = 1 TMP\_505 = 0 not(TMP\_505) = 1 TMP\_506 = 1 not(TMP\_506) = 0 TMP\_507 = 1 not(TMP\_507) = 0 TMP\_508 = 1 not(TMP\_508) = 0 TMP\_509 = 2 TMP\_510 = 1 not(TMP\_510) = 0 TMP\_511 = 0 not(TMP\_511) = 1 TMP\_512 = 1 not(TMP\_512) = 0 TMP\_513 = 1 not(TMP\_513) = 0 TMP\_514 = 3 TMP\_515 = 0 not(TMP\_515) = 1 TMP\_516 = 0 not(TMP\_516) = 1 TMP\_517 = 0 TMP\_518 = 1 not(TMP\_518) = 0 TMP\_519 = 1 not(TMP\_519) = 0 TMP\_520 = 2 TMP\_521 = 0 not(TMP\_521) = 1 TMP\_522 = 0 not(TMP\_522) = 1 TMP\_523 = 1 not(TMP\_523) = 0 TMP\_524 = 1 not(TMP\_524) = 0 TMP\_525 = 1 not(TMP\_525) = 0 TMP\_526 = 2 TMP\_527 = 1 not(TMP\_527) = 0 TMP\_528 = 0 not(TMP\_528) = 1 TMP\_529 = 1 not(TMP\_529) = 0 TMP\_530 = 1 not(TMP\_530) = 0 TMP\_531 = 3 TMP\_532 = 0 not(TMP\_532) = 1 TMP\_533 = 0 not(TMP\_533) = 1 TMP\_534 = 0 TMP\_535 = 1 not(TMP\_535) = 0 TMP\_536 = 1 not(TMP\_536) = 0 TMP\_537 = 2 TMP\_538 = 0 not(TMP\_538) = 1 TMP\_539 = 0 not(TMP\_539) = 1 TMP\_540 = 1 not(TMP\_540) = 0 TMP\_541 = 1 not(TMP\_541) = 0 TMP\_542 = 1 not(TMP\_542) = 0 TMP\_543 = 2 TMP\_544 = 1 not(TMP\_544) = 0 TMP\_545 = 1 not(TMP\_545) = 0 TMP\_546 = 1 not(TMP\_546) = 0 TMP\_547 = 0 not(TMP\_547) = 1 TMP\_548 = 3 TMP\_549 = 0 not(TMP\_549) = 1 TMP\_550 = 0 not(TMP\_550) = 1 TMP\_551 = 0 TMP\_552 = 1 not(TMP\_552) = 0 TMP\_553 = 1 not(TMP\_553) = 0 TMP\_554 = 2 TMP\_555 = 0 not(TMP\_555) = 1 TMP\_556 = 0 not(TMP\_556) = 1 TMP\_557 = 1 not(TMP\_557) = 0 TMP\_558 = 1 not(TMP\_558) = 0 TMP\_559 = 1 not(TMP\_559) = 0 TMP\_560 = 2 TMP\_561 = 1 not(TMP\_561) = 0 TMP\_562 = 0 not(TMP\_562) = 1 TMP\_563 = 1 not(TMP\_563) = 0 TMP\_564 = 1 not(TMP\_564) = 0 TMP\_565 = 3 TMP\_566 = 0 not(TMP\_566) = 1 TMP\_567 = 0 not(TMP\_567) = 1 TMP\_568 = 0 TMP\_569 = 1 not(TMP\_569) = 0 TMP\_570 = 1 not(TMP\_570) = 0 TMP\_571 = 2 TMP\_572 = 0 not(TMP\_572) = 1 TMP\_573 = 0 not(TMP\_573) = 1 TMP\_574 = 1 not(TMP\_574) = 0 TMP\_575 = 1 not(TMP\_575) = 0 TMP\_576 = 1 not(TMP\_576) = 0 TMP\_577 = 2 TMP\_578 = 1 not(TMP\_578) = 0 TMP\_579 = 0 not(TMP\_579) = 1 TMP\_580 = 1 not(TMP\_580) = 0 TMP\_581 = 0 not(TMP\_581) = 1 TMP\_582 = 2 TMP\_583 = 0 not(TMP\_583) = 1 TMP\_584 = 0 not(TMP\_584) = 1 TMP\_585 = 0 TMP\_586 = 1 not(TMP\_586) = 0 TMP\_587 = 1 not(TMP\_587) = 0 TMP\_588 = 2 TMP\_589 = 0 not(TMP\_589) = 1 TMP\_590 = 0 not(TMP\_590) = 1 TMP\_591 = 1 not(TMP\_591) = 0 TMP\_592 = 1 not(TMP\_592) = 0 TMP\_593 = 1 not(TMP\_593) = 0 TMP\_594 = 2 Area\_0 = 10000 Distance\_0\_Rule\_0 = 100 Distance\_1\_Rule\_0 = 100 Area\_1 = 5000 Distance\_0\_Rule\_1 = 50 Distance\_1\_Rule\_1 = 100 Area\_2 = 25000 Distance\_0\_Rule\_2 = 100 Distance\_1\_Rule\_2 = 250 Area\_3 = 20000 -(Rule\_3\_LB) = -50 Distance\_0\_Rule\_3 = 200 -(Rule\_3\_LB) = -300 Distance\_1\_Rule\_3 = 100 Area\_4 = 2500 -(Rule\_4\_LB) = 0 Distance\_0\_Rule\_4 = 25 -(Rule\_4\_LB) = -400 Distance\_1\_Rule\_4 = 100 Area\_5 = 30000 -(Rule\_5\_LB) = -150 Distance\_0\_Rule\_5 = 100 -(Rule\_5\_LB) = 0 Distance\_1\_Rule\_5 = 300 Area\_6 = 17500 -(Rule\_6\_LB) = -75 Distance\_0\_Rule\_6 = 175 -(Rule\_6\_LB) = -400 Distance\_1\_Rule\_6 = 100 Area\_7 = 15000 -(Rule\_7\_LB) = 0 Distance\_0\_Rule\_7 = 50 -(Rule\_7\_LB) = -100 Distance\_1\_Rule\_7 = 300 TMP\_595 = 125000 .

- Solution #15 found. 15 Solutions, Resolution 1.041s, 4701 Nodes (4,515.1 n/s), 9205 Backtracks, 4647 Fails, 0 Restarts

Rule\_3\_LB = 50 Rule\_3\_UB = 250 Rule\_3\_LB = 300 Rule\_3\_UB = 400 Rule\_4\_LB = 0 Rule\_4\_UB = 25 Rule\_4\_LB = 400 Rule\_4\_UB = 500 Rule\_5\_LB = 150 Rule\_5\_UB = 250 Rule\_5\_LB = 0 Rule\_5\_UB = 300 Rule\_6\_LB = 75 Rule\_6\_UB = 250 Rule\_6\_LB = 400 Rule\_6\_UB = 500 Rule\_7\_LB = 0 Rule\_7\_UB = 50 Rule\_7\_LB = 100 Rule\_7\_UB = 400 Overlaps\_0\_0 = 0 Overlaps\_0\_1 = 1 Overlaps\_0\_2 = 1 Overlaps\_0\_3 = 0 Overlaps\_0\_4 = 0 Overlaps\_0\_5 = 0 Overlaps\_0\_6 = 0 Overlaps\_0\_7 = 0 Overlaps\_1\_0 = 0 Overlaps\_1\_1 = 0 Overlaps\_1\_2 = 0 Overlaps\_1\_3 = 0 Overlaps\_1\_4 = 0 Overlaps\_1\_5 = 0 Overlaps\_1\_6 = 0 Overlaps\_1\_7 = 0 Overlaps\_2\_0 = 1 Overlaps\_2\_1 = 0 Overlaps\_2\_2 = 0 Overlaps\_2\_3 = 0 Overlaps\_2\_4 = 0 Overlaps\_2\_5 = 0 Overlaps\_2\_6 = 0 Overlaps\_2\_7 = 0 Overlaps\_3\_0 = 0 Overlaps\_3\_1 = 0 Overlaps\_3\_2 = 0 Overlaps\_3\_3 = 0 Overlaps\_3\_4 = 0 Overlaps\_3\_5 = 0 Overlaps\_3\_6 = 0 Overlaps\_3\_7 = 0 Overlaps\_4\_0 = 0 Overlaps\_4\_1 = 0 Overlaps\_4\_2 = 0 Overlaps\_4\_3 = 0 Overlaps\_4\_4 = 0 Overlaps\_4\_5 = 0 Overlaps\_4\_6 = 0 Overlaps\_4\_7 = 0 Overlaps\_5\_0 = 0 Overlaps\_5\_1 = 0 Overlaps\_5\_2 = 0 Overlaps\_5\_3 = 0 Overlaps\_5\_4 = 0 Overlaps\_5\_5 = 0 Overlaps\_5\_6 = 0 Overlaps\_5\_7 = 0 Overlaps\_6\_0 = 0 Overlaps\_6\_1 = 0 Overlaps\_6\_2 = 0 Overlaps\_6\_3 = 0 Overlaps\_6\_4 = 0 Overlaps\_6\_5 = 0 Overlaps\_6\_6 = 0 Overlaps\_6\_7 = 0 Overlaps\_7\_0 = 0 Overlaps\_7\_1 = 0 Overlaps\_7\_2 = 0 Overlaps\_7\_3 = 0 Overlaps\_7\_4 = 0 Overlaps\_7\_5 = 0 Overlaps\_7\_6 = 0 Overlaps\_7\_7 = 0 TMP\_0 = 1 not(TMP\_0) = 0 TMP\_1 = 1 not(TMP\_1) = 0 TMP\_2 = 0 not(TMP\_2) = 1 TMP\_3 = 1 not(TMP\_3) = 0 TMP\_4 = 3 TMP\_5 = 0 not(TMP\_5) = 1 TMP\_6 = 0 not(TMP\_6) = 1 TMP\_7 = 0 TMP\_8 = 1 not(TMP\_8) = 0 TMP\_9 = 1 not(TMP\_9) = 0 TMP\_10 = 2 TMP\_11 = 0 not(TMP\_11) = 1 TMP\_12 = 0 not(TMP\_12) = 1 TMP\_13 = 1 not(TMP\_13) = 0 TMP\_14 = 1 not(TMP\_14) = 0 TMP\_15 = 1 not(TMP\_15) = 0 TMP\_16 = 2 TMP\_17 = 1 not(TMP\_17) = 0 TMP\_18 = 1 not(TMP\_18) = 0 TMP\_19 = 1 not(TMP\_19) = 0 TMP\_20 = 0 not(TMP\_20) = 1 TMP\_21 = 3 TMP\_22 = 0 not(TMP\_22) = 1 TMP\_23 = 0 not(TMP\_23) = 1 TMP\_24 = 0 TMP\_25 = 1 not(TMP\_25) = 0 TMP\_26 = 1 not(TMP\_26) = 0 TMP\_27 = 2 TMP\_28 = 0 not(TMP\_28) = 1 TMP\_29 = 0 not(TMP\_29) = 1 TMP\_30 = 1 not(TMP\_30) = 0 TMP\_31 = 1 not(TMP\_31) = 0 TMP\_32 = 1 not(TMP\_32) = 0 TMP\_33 = 2 TMP\_34 = 1 not(TMP\_34) = 0 TMP\_35 = 1 not(TMP\_35) = 0 TMP\_36 = 0 not(TMP\_36) = 1 TMP\_37 = 1 not(TMP\_37) = 0 TMP\_38 = 3 TMP\_39 = 0 not(TMP\_39) = 1 TMP\_40 = 0 not(TMP\_40) = 1 TMP\_41 = 0 TMP\_42 = 1 not(TMP\_42) = 0 TMP\_43 = 1 not(TMP\_43) = 0 TMP\_44 = 2 TMP\_45 = 0 not(TMP\_45) = 1 TMP\_46 = 0 not(TMP\_46) = 1 TMP\_47 = 1 not(TMP\_47) = 0 TMP\_48 = 1 not(TMP\_48) = 0 TMP\_49 = 1 not(TMP\_49) = 0 TMP\_50 = 2 TMP\_51 = 0 not(TMP\_51) = 1 TMP\_52 = 1 not(TMP\_52) = 0 TMP\_53 = 1 not(TMP\_53) = 0 TMP\_54 = 0 not(TMP\_54) = 1 TMP\_55 = 2 TMP\_56 = 0 not(TMP\_56) = 1 TMP\_57 = 0 not(TMP\_57) = 1 TMP\_58 = 0 TMP\_59 = 1 not(TMP\_59) = 0 TMP\_60 = 1 not(TMP\_60) = 0 TMP\_61 = 2 TMP\_62 = 0 not(TMP\_62) = 1 TMP\_63 = 0 not(TMP\_63) = 1 TMP\_64 = 1 not(TMP\_64) = 0 TMP\_65 = 1 not(TMP\_65) = 0 TMP\_66 = 1 not(TMP\_66) = 0 TMP\_67 = 2 TMP\_68 = 1 not(TMP\_68) = 0 TMP\_69 = 1 not(TMP\_69) = 0 TMP\_70 = 0 not(TMP\_70) = 1 TMP\_71 = 1 not(TMP\_71) = 0 TMP\_72 = 3 TMP\_73 = 0 not(TMP\_73) = 1 TMP\_74 = 0 not(TMP\_74) = 1 TMP\_75 = 0 TMP\_76 = 1 not(TMP\_76) = 0 TMP\_77 = 1 not(TMP\_77) = 0 TMP\_78 = 2 TMP\_79 = 0 not(TMP\_79) = 1 TMP\_80 = 0 not(TMP\_80) = 1 TMP\_81 = 1 not(TMP\_81) = 0 TMP\_82 = 1 not(TMP\_82) = 0 TMP\_83 = 1 not(TMP\_83) = 0 TMP\_84 = 2 TMP\_85 = 1 not(TMP\_85) = 0 TMP\_86 = 1 not(TMP\_86) = 0 TMP\_87 = 1 not(TMP\_87) = 0 TMP\_88 = 0 not(TMP\_88) = 1 TMP\_89 = 3 TMP\_90 = 0 not(TMP\_90) = 1 TMP\_91 = 0 not(TMP\_91) = 1 TMP\_92 = 0 TMP\_93 = 1 not(TMP\_93) = 0 TMP\_94 = 1 not(TMP\_94) = 0 TMP\_95 = 2 TMP\_96 = 0 not(TMP\_96) = 1 TMP\_97 = 0 not(TMP\_97) = 1 TMP\_98 = 1 not(TMP\_98) = 0 TMP\_99 = 1 not(TMP\_99) = 0 TMP\_100 = 1 not(TMP\_100) = 0 TMP\_101 = 2 TMP\_102 = 0 not(TMP\_102) = 1 TMP\_103 = 1 not(TMP\_103) = 0 TMP\_104 = 1 not(TMP\_104) = 0 TMP\_105 = 1 not(TMP\_105) = 0 TMP\_106 = 3 TMP\_107 = 0 not(TMP\_107) = 1 TMP\_108 = 0 not(TMP\_108) = 1 TMP\_109 = 0 TMP\_110 = 1 not(TMP\_110) = 0 TMP\_111 = 1 not(TMP\_111) = 0 TMP\_112 = 2 TMP\_113 = 0 not(TMP\_113) = 1 TMP\_114 = 0 not(TMP\_114) = 1 TMP\_115 = 1 not(TMP\_115) = 0 TMP\_116 = 1 not(TMP\_116) = 0 TMP\_117 = 1 not(TMP\_117) = 0 TMP\_118 = 2 TMP\_119 = 1 not(TMP\_119) = 0 TMP\_120 = 1 not(TMP\_120) = 0 TMP\_121 = 0 not(TMP\_121) = 1 TMP\_122 = 1 not(TMP\_122) = 0 TMP\_123 = 3 TMP\_124 = 0 not(TMP\_124) = 1 TMP\_125 = 0 not(TMP\_125) = 1 TMP\_126 = 0 TMP\_127 = 1 not(TMP\_127) = 0 TMP\_128 = 1 not(TMP\_128) = 0 TMP\_129 = 2 TMP\_130 = 0 not(TMP\_130) = 1 TMP\_131 = 0 not(TMP\_131) = 1 TMP\_132 = 1 not(TMP\_132) = 0 TMP\_133 = 1 not(TMP\_133) = 0 TMP\_134 = 1 not(TMP\_134) = 0 TMP\_135 = 2 TMP\_136 = 1 not(TMP\_136) = 0 TMP\_137 = 0 not(TMP\_137) = 1 TMP\_138 = 1 not(TMP\_138) = 0 TMP\_139 = 1 not(TMP\_139) = 0 TMP\_140 = 3 TMP\_141 = 0 not(TMP\_141) = 1 TMP\_142 = 0 not(TMP\_142) = 1 TMP\_143 = 0 TMP\_144 = 1 not(TMP\_144) = 0 TMP\_145 = 1 not(TMP\_145) = 0 TMP\_146 = 2 TMP\_147 = 0 not(TMP\_147) = 1 TMP\_148 = 0 not(TMP\_148) = 1 TMP\_149 = 1 not(TMP\_149) = 0 TMP\_150 = 1 not(TMP\_150) = 0 TMP\_151 = 1 not(TMP\_151) = 0 TMP\_152 = 2 TMP\_153 = 1 not(TMP\_153) = 0 TMP\_154 = 0 not(TMP\_154) = 1 TMP\_155 = 0 not(TMP\_155) = 1 TMP\_156 = 1 not(TMP\_156) = 0 TMP\_157 = 2 TMP\_158 = 0 not(TMP\_158) = 1 TMP\_159 = 0 not(TMP\_159) = 1 TMP\_160 = 0 TMP\_161 = 1 not(TMP\_161) = 0 TMP\_162 = 1 not(TMP\_162) = 0 TMP\_163 = 2 TMP\_164 = 0 not(TMP\_164) = 1 TMP\_165 = 0 not(TMP\_165) = 1 TMP\_166 = 1 not(TMP\_166) = 0 TMP\_167 = 1 not(TMP\_167) = 0 TMP\_168 = 1 not(TMP\_168) = 0 TMP\_169 = 2 TMP\_170 = 1 not(TMP\_170) = 0 TMP\_171 = 0 not(TMP\_171) = 1 TMP\_172 = 0 not(TMP\_172) = 1 TMP\_173 = 1 not(TMP\_173) = 0 TMP\_174 = 2 TMP\_175 = 0 not(TMP\_175) = 1 TMP\_176 = 0 not(TMP\_176) = 1 TMP\_177 = 0 TMP\_178 = 1 not(TMP\_178) = 0 TMP\_179 = 1 not(TMP\_179) = 0 TMP\_180 = 2 TMP\_181 = 0 not(TMP\_181) = 1 TMP\_182 = 0 not(TMP\_182) = 1 TMP\_183 = 1 not(TMP\_183) = 0 TMP\_184 = 1 not(TMP\_184) = 0 TMP\_185 = 1 not(TMP\_185) = 0 TMP\_186 = 2 TMP\_187 = 1 not(TMP\_187) = 0 TMP\_188 = 0 not(TMP\_188) = 1 TMP\_189 = 0 not(TMP\_189) = 1 TMP\_190 = 1 not(TMP\_190) = 0 TMP\_191 = 2 TMP\_192 = 0 not(TMP\_192) = 1 TMP\_193 = 0 not(TMP\_193) = 1 TMP\_194 = 0 TMP\_195 = 1 not(TMP\_195) = 0 TMP\_196 = 1 not(TMP\_196) = 0 TMP\_197 = 2 TMP\_198 = 0 not(TMP\_198) = 1 TMP\_199 = 0 not(TMP\_199) = 1 TMP\_200 = 1 not(TMP\_200) = 0 TMP\_201 = 1 not(TMP\_201) = 0 TMP\_202 = 1 not(TMP\_202) = 0 TMP\_203 = 2 TMP\_204 = 1 not(TMP\_204) = 0 TMP\_205 = 0 not(TMP\_205) = 1 TMP\_206 = 1 not(TMP\_206) = 0 TMP\_207 = 1 not(TMP\_207) = 0 TMP\_208 = 3 TMP\_209 = 0 not(TMP\_209) = 1 TMP\_210 = 0 not(TMP\_210) = 1 TMP\_211 = 0 TMP\_212 = 1 not(TMP\_212) = 0 TMP\_213 = 1 not(TMP\_213) = 0 TMP\_214 = 2 TMP\_215 = 0 not(TMP\_215) = 1 TMP\_216 = 0 not(TMP\_216) = 1 TMP\_217 = 1 not(TMP\_217) = 0 TMP\_218 = 1 not(TMP\_218) = 0 TMP\_219 = 1 not(TMP\_219) = 0 TMP\_220 = 2 TMP\_221 = 1 not(TMP\_221) = 0 TMP\_222 = 1 not(TMP\_222) = 0 TMP\_223 = 0 not(TMP\_223) = 1 TMP\_224 = 1 not(TMP\_224) = 0 TMP\_225 = 3 TMP\_226 = 0 not(TMP\_226) = 1 TMP\_227 = 0 not(TMP\_227) = 1 TMP\_228 = 0 TMP\_229 = 1 not(TMP\_229) = 0 TMP\_230 = 1 not(TMP\_230) = 0 TMP\_231 = 2 TMP\_232 = 0 not(TMP\_232) = 1 TMP\_233 = 0 not(TMP\_233) = 1 TMP\_234 = 1 not(TMP\_234) = 0 TMP\_235 = 1 not(TMP\_235) = 0 TMP\_236 = 1 not(TMP\_236) = 0 TMP\_237 = 2 TMP\_238 = 0 not(TMP\_238) = 1 TMP\_239 = 1 not(TMP\_239) = 0 TMP\_240 = 1 not(TMP\_240) = 0 TMP\_241 = 1 not(TMP\_241) = 0 TMP\_242 = 3 TMP\_243 = 0 not(TMP\_243) = 1 TMP\_244 = 0 not(TMP\_244) = 1 TMP\_245 = 0 TMP\_246 = 1 not(TMP\_246) = 0 TMP\_247 = 1 not(TMP\_247) = 0 TMP\_248 = 2 TMP\_249 = 0 not(TMP\_249) = 1 TMP\_250 = 0 not(TMP\_250) = 1 TMP\_251 = 1 not(TMP\_251) = 0 TMP\_252 = 1 not(TMP\_252) = 0 TMP\_253 = 1 not(TMP\_253) = 0 TMP\_254 = 2 TMP\_255 = 0 not(TMP\_255) = 1 TMP\_256 = 1 not(TMP\_256) = 0 TMP\_257 = 1 not(TMP\_257) = 0 TMP\_258 = 0 not(TMP\_258) = 1 TMP\_259 = 2 TMP\_260 = 0 not(TMP\_260) = 1 TMP\_261 = 0 not(TMP\_261) = 1 TMP\_262 = 0 TMP\_263 = 1 not(TMP\_263) = 0 TMP\_264 = 1 not(TMP\_264) = 0 TMP\_265 = 2 TMP\_266 = 0 not(TMP\_266) = 1 TMP\_267 = 0 not(TMP\_267) = 1 TMP\_268 = 1 not(TMP\_268) = 0 TMP\_269 = 1 not(TMP\_269) = 0 TMP\_270 = 1 not(TMP\_270) = 0 TMP\_271 = 2 TMP\_272 = 0 not(TMP\_272) = 1 TMP\_273 = 1 not(TMP\_273) = 0 TMP\_274 = 1 not(TMP\_274) = 0 TMP\_275 = 1 not(TMP\_275) = 0 TMP\_276 = 3 TMP\_277 = 0 not(TMP\_277) = 1 TMP\_278 = 0 not(TMP\_278) = 1 TMP\_279 = 0 TMP\_280 = 1 not(TMP\_280) = 0 TMP\_281 = 1 not(TMP\_281) = 0 TMP\_282 = 2 TMP\_283 = 0 not(TMP\_283) = 1 TMP\_284 = 0 not(TMP\_284) = 1 TMP\_285 = 1 not(TMP\_285) = 0 TMP\_286 = 1 not(TMP\_286) = 0 TMP\_287 = 1 not(TMP\_287) = 0 TMP\_288 = 2 TMP\_289 = 1 not(TMP\_289) = 0 TMP\_290 = 1 not(TMP\_290) = 0 TMP\_291 = 1 not(TMP\_291) = 0 TMP\_292 = 0 not(TMP\_292) = 1 TMP\_293 = 3 TMP\_294 = 0 not(TMP\_294) = 1 TMP\_295 = 0 not(TMP\_295) = 1 TMP\_296 = 0 TMP\_297 = 1 not(TMP\_297) = 0 TMP\_298 = 1 not(TMP\_298) = 0 TMP\_299 = 2 TMP\_300 = 0 not(TMP\_300) = 1 TMP\_301 = 0 not(TMP\_301) = 1 TMP\_302 = 1 not(TMP\_302) = 0 TMP\_303 = 1 not(TMP\_303) = 0 TMP\_304 = 1 not(TMP\_304) = 0 TMP\_305 = 2 TMP\_306 = 0 not(TMP\_306) = 1 TMP\_307 = 1 not(TMP\_307) = 0 TMP\_308 = 1 not(TMP\_308) = 0 TMP\_309 = 0 not(TMP\_309) = 1 TMP\_310 = 2 TMP\_311 = 0 not(TMP\_311) = 1 TMP\_312 = 0 not(TMP\_312) = 1 TMP\_313 = 0 TMP\_314 = 1 not(TMP\_314) = 0 TMP\_315 = 1 not(TMP\_315) = 0 TMP\_316 = 2 TMP\_317 = 0 not(TMP\_317) = 1 TMP\_318 = 0 not(TMP\_318) = 1 TMP\_319 = 1 not(TMP\_319) = 0 TMP\_320 = 1 not(TMP\_320) = 0 TMP\_321 = 1 not(TMP\_321) = 0 TMP\_322 = 2 TMP\_323 = 1 not(TMP\_323) = 0 TMP\_324 = 1 not(TMP\_324) = 0 TMP\_325 = 1 not(TMP\_325) = 0 TMP\_326 = 0 not(TMP\_326) = 1 TMP\_327 = 3 TMP\_328 = 0 not(TMP\_328) = 1 TMP\_329 = 0 not(TMP\_329) = 1 TMP\_330 = 0 TMP\_331 = 1 not(TMP\_331) = 0 TMP\_332 = 1 not(TMP\_332) = 0 TMP\_333 = 2 TMP\_334 = 0 not(TMP\_334) = 1 TMP\_335 = 0 not(TMP\_335) = 1 TMP\_336 = 1 not(TMP\_336) = 0 TMP\_337 = 1 not(TMP\_337) = 0 TMP\_338 = 1 not(TMP\_338) = 0 TMP\_339 = 2 TMP\_340 = 0 not(TMP\_340) = 1 TMP\_341 = 1 not(TMP\_341) = 0 TMP\_342 = 1 not(TMP\_342) = 0 TMP\_343 = 1 not(TMP\_343) = 0 TMP\_344 = 3 TMP\_345 = 0 not(TMP\_345) = 1 TMP\_346 = 0 not(TMP\_346) = 1 TMP\_347 = 0 TMP\_348 = 1 not(TMP\_348) = 0 TMP\_349 = 1 not(TMP\_349) = 0 TMP\_350 = 2 TMP\_351 = 0 not(TMP\_351) = 1 TMP\_352 = 0 not(TMP\_352) = 1 TMP\_353 = 1 not(TMP\_353) = 0 TMP\_354 = 1 not(TMP\_354) = 0 TMP\_355 = 1 not(TMP\_355) = 0 TMP\_356 = 2 TMP\_357 = 1 not(TMP\_357) = 0 TMP\_358 = 1 not(TMP\_358) = 0 TMP\_359 = 0 not(TMP\_359) = 1 TMP\_360 = 1 not(TMP\_360) = 0 TMP\_361 = 3 TMP\_362 = 0 not(TMP\_362) = 1 TMP\_363 = 0 not(TMP\_363) = 1 TMP\_364 = 0 TMP\_365 = 1 not(TMP\_365) = 0 TMP\_366 = 1 not(TMP\_366) = 0 TMP\_367 = 2 TMP\_368 = 0 not(TMP\_368) = 1 TMP\_369 = 0 not(TMP\_369) = 1 TMP\_370 = 1 not(TMP\_370) = 0 TMP\_371 = 1 not(TMP\_371) = 0 TMP\_372 = 1 not(TMP\_372) = 0 TMP\_373 = 2 TMP\_374 = 0 not(TMP\_374) = 1 TMP\_375 = 1 not(TMP\_375) = 0 TMP\_376 = 1 not(TMP\_376) = 0 TMP\_377 = 1 not(TMP\_377) = 0 TMP\_378 = 3 TMP\_379 = 0 not(TMP\_379) = 1 TMP\_380 = 0 not(TMP\_380) = 1 TMP\_381 = 0 TMP\_382 = 1 not(TMP\_382) = 0 TMP\_383 = 1 not(TMP\_383) = 0 TMP\_384 = 2 TMP\_385 = 0 not(TMP\_385) = 1 TMP\_386 = 0 not(TMP\_386) = 1 TMP\_387 = 1 not(TMP\_387) = 0 TMP\_388 = 1 not(TMP\_388) = 0 TMP\_389 = 1 not(TMP\_389) = 0 TMP\_390 = 2 TMP\_391 = 1 not(TMP\_391) = 0 TMP\_392 = 1 not(TMP\_392) = 0 TMP\_393 = 0 not(TMP\_393) = 1 TMP\_394 = 1 not(TMP\_394) = 0 TMP\_395 = 3 TMP\_396 = 0 not(TMP\_396) = 1 TMP\_397 = 0 not(TMP\_397) = 1 TMP\_398 = 0 TMP\_399 = 1 not(TMP\_399) = 0 TMP\_400 = 1 not(TMP\_400) = 0 TMP\_401 = 2 TMP\_402 = 0 not(TMP\_402) = 1 TMP\_403 = 0 not(TMP\_403) = 1 TMP\_404 = 1 not(TMP\_404) = 0 TMP\_405 = 1 not(TMP\_405) = 0 TMP\_406 = 1 not(TMP\_406) = 0 TMP\_407 = 2 TMP\_408 = 1 not(TMP\_408) = 0 TMP\_409 = 1 not(TMP\_409) = 0 TMP\_410 = 0 not(TMP\_410) = 1 TMP\_411 = 1 not(TMP\_411) = 0 TMP\_412 = 3 TMP\_413 = 0 not(TMP\_413) = 1 TMP\_414 = 0 not(TMP\_414) = 1 TMP\_415 = 0 TMP\_416 = 1 not(TMP\_416) = 0 TMP\_417 = 1 not(TMP\_417) = 0 TMP\_418 = 2 TMP\_419 = 0 not(TMP\_419) = 1 TMP\_420 = 0 not(TMP\_420) = 1 TMP\_421 = 1 not(TMP\_421) = 0 TMP\_422 = 1 not(TMP\_422) = 0 TMP\_423 = 1 not(TMP\_423) = 0 TMP\_424 = 2 TMP\_425 = 0 not(TMP\_425) = 1 TMP\_426 = 1 not(TMP\_426) = 0 TMP\_427 = 1 not(TMP\_427) = 0 TMP\_428 = 1 not(TMP\_428) = 0 TMP\_429 = 3 TMP\_430 = 0 not(TMP\_430) = 1 TMP\_431 = 0 not(TMP\_431) = 1 TMP\_432 = 0 TMP\_433 = 1 not(TMP\_433) = 0 TMP\_434 = 1 not(TMP\_434) = 0 TMP\_435 = 2 TMP\_436 = 0 not(TMP\_436) = 1 TMP\_437 = 0 not(TMP\_437) = 1 TMP\_438 = 1 not(TMP\_438) = 0 TMP\_439 = 1 not(TMP\_439) = 0 TMP\_440 = 1 not(TMP\_440) = 0 TMP\_441 = 2 TMP\_442 = 1 not(TMP\_442) = 0 TMP\_443 = 1 not(TMP\_443) = 0 TMP\_444 = 0 not(TMP\_444) = 1 TMP\_445 = 1 not(TMP\_445) = 0 TMP\_446 = 3 TMP\_447 = 0 not(TMP\_447) = 1 TMP\_448 = 0 not(TMP\_448) = 1 TMP\_449 = 0 TMP\_450 = 1 not(TMP\_450) = 0 TMP\_451 = 1 not(TMP\_451) = 0 TMP\_452 = 2 TMP\_453 = 0 not(TMP\_453) = 1 TMP\_454 = 0 not(TMP\_454) = 1 TMP\_455 = 1 not(TMP\_455) = 0 TMP\_456 = 1 not(TMP\_456) = 0 TMP\_457 = 1 not(TMP\_457) = 0 TMP\_458 = 2 TMP\_459 = 0 not(TMP\_459) = 1 TMP\_460 = 1 not(TMP\_460) = 0 TMP\_461 = 0 not(TMP\_461) = 1 TMP\_462 = 1 not(TMP\_462) = 0 TMP\_463 = 2 TMP\_464 = 0 not(TMP\_464) = 1 TMP\_465 = 0 not(TMP\_465) = 1 TMP\_466 = 0 TMP\_467 = 1 not(TMP\_467) = 0 TMP\_468 = 1 not(TMP\_468) = 0 TMP\_469 = 2 TMP\_470 = 0 not(TMP\_470) = 1 TMP\_471 = 0 not(TMP\_471) = 1 TMP\_472 = 1 not(TMP\_472) = 0 TMP\_473 = 1 not(TMP\_473) = 0 TMP\_474 = 1 not(TMP\_474) = 0 TMP\_475 = 2 TMP\_476 = 1 not(TMP\_476) = 0 TMP\_477 = 1 not(TMP\_477) = 0 TMP\_478 = 0 not(TMP\_478) = 1 TMP\_479 = 1 not(TMP\_479) = 0 TMP\_480 = 3 TMP\_481 = 0 not(TMP\_481) = 1 TMP\_482 = 0 not(TMP\_482) = 1 TMP\_483 = 0 TMP\_484 = 1 not(TMP\_484) = 0 TMP\_485 = 1 not(TMP\_485) = 0 TMP\_486 = 2 TMP\_487 = 0 not(TMP\_487) = 1 TMP\_488 = 0 not(TMP\_488) = 1 TMP\_489 = 1 not(TMP\_489) = 0 TMP\_490 = 1 not(TMP\_490) = 0 TMP\_491 = 1 not(TMP\_491) = 0 TMP\_492 = 2 TMP\_493 = 1 not(TMP\_493) = 0 TMP\_494 = 1 not(TMP\_494) = 0 TMP\_495 = 1 not(TMP\_495) = 0 TMP\_496 = 0 not(TMP\_496) = 1 TMP\_497 = 3 TMP\_498 = 0 not(TMP\_498) = 1 TMP\_499 = 0 not(TMP\_499) = 1 TMP\_500 = 0 TMP\_501 = 1 not(TMP\_501) = 0 TMP\_502 = 1 not(TMP\_502) = 0 TMP\_503 = 2 TMP\_504 = 0 not(TMP\_504) = 1 TMP\_505 = 0 not(TMP\_505) = 1 TMP\_506 = 1 not(TMP\_506) = 0 TMP\_507 = 1 not(TMP\_507) = 0 TMP\_508 = 1 not(TMP\_508) = 0 TMP\_509 = 2 TMP\_510 = 1 not(TMP\_510) = 0 TMP\_511 = 0 not(TMP\_511) = 1 TMP\_512 = 1 not(TMP\_512) = 0 TMP\_513 = 1 not(TMP\_513) = 0 TMP\_514 = 3 TMP\_515 = 0 not(TMP\_515) = 1 TMP\_516 = 0 not(TMP\_516) = 1 TMP\_517 = 0 TMP\_518 = 1 not(TMP\_518) = 0 TMP\_519 = 1 not(TMP\_519) = 0 TMP\_520 = 2 TMP\_521 = 0 not(TMP\_521) = 1 TMP\_522 = 0 not(TMP\_522) = 1 TMP\_523 = 1 not(TMP\_523) = 0 TMP\_524 = 1 not(TMP\_524) = 0 TMP\_525 = 1 not(TMP\_525) = 0 TMP\_526 = 2 TMP\_527 = 1 not(TMP\_527) = 0 TMP\_528 = 0 not(TMP\_528) = 1 TMP\_529 = 1 not(TMP\_529) = 0 TMP\_530 = 1 not(TMP\_530) = 0 TMP\_531 = 3 TMP\_532 = 0 not(TMP\_532) = 1 TMP\_533 = 0 not(TMP\_533) = 1 TMP\_534 = 0 TMP\_535 = 1 not(TMP\_535) = 0 TMP\_536 = 1 not(TMP\_536) = 0 TMP\_537 = 2 TMP\_538 = 0 not(TMP\_538) = 1 TMP\_539 = 0 not(TMP\_539) = 1 TMP\_540 = 1 not(TMP\_540) = 0 TMP\_541 = 1 not(TMP\_541) = 0 TMP\_542 = 1 not(TMP\_542) = 0 TMP\_543 = 2 TMP\_544 = 1 not(TMP\_544) = 0 TMP\_545 = 1 not(TMP\_545) = 0 TMP\_546 = 1 not(TMP\_546) = 0 TMP\_547 = 0 not(TMP\_547) = 1 TMP\_548 = 3 TMP\_549 = 0 not(TMP\_549) = 1 TMP\_550 = 0 not(TMP\_550) = 1 TMP\_551 = 0 TMP\_552 = 1 not(TMP\_552) = 0 TMP\_553 = 1 not(TMP\_553) = 0 TMP\_554 = 2 TMP\_555 = 0 not(TMP\_555) = 1 TMP\_556 = 0 not(TMP\_556) = 1 TMP\_557 = 1 not(TMP\_557) = 0 TMP\_558 = 1 not(TMP\_558) = 0 TMP\_559 = 1 not(TMP\_559) = 0 TMP\_560 = 2 TMP\_561 = 1 not(TMP\_561) = 0 TMP\_562 = 0 not(TMP\_562) = 1 TMP\_563 = 1 not(TMP\_563) = 0 TMP\_564 = 1 not(TMP\_564) = 0 TMP\_565 = 3 TMP\_566 = 0 not(TMP\_566) = 1 TMP\_567 = 0 not(TMP\_567) = 1 TMP\_568 = 0 TMP\_569 = 1 not(TMP\_569) = 0 TMP\_570 = 1 not(TMP\_570) = 0 TMP\_571 = 2 TMP\_572 = 0 not(TMP\_572) = 1 TMP\_573 = 0 not(TMP\_573) = 1 TMP\_574 = 1 not(TMP\_574) = 0 TMP\_575 = 1 not(TMP\_575) = 0 TMP\_576 = 1 not(TMP\_576) = 0 TMP\_577 = 2 TMP\_578 = 1 not(TMP\_578) = 0 TMP\_579 = 0 not(TMP\_579) = 1 TMP\_580 = 1 not(TMP\_580) = 0 TMP\_581 = 0 not(TMP\_581) = 1 TMP\_582 = 2 TMP\_583 = 0 not(TMP\_583) = 1 TMP\_584 = 0 not(TMP\_584) = 1 TMP\_585 = 0 TMP\_586 = 1 not(TMP\_586) = 0 TMP\_587 = 1 not(TMP\_587) = 0 TMP\_588 = 2 TMP\_589 = 0 not(TMP\_589) = 1 TMP\_590 = 0 not(TMP\_590) = 1 TMP\_591 = 1 not(TMP\_591) = 0 TMP\_592 = 1 not(TMP\_592) = 0 TMP\_593 = 1 not(TMP\_593) = 0 TMP\_594 = 2 Area\_0 = 10000 Distance\_0\_Rule\_0 = 100 Distance\_1\_Rule\_0 = 100 Area\_1 = 5000 Distance\_0\_Rule\_1 = 50 Distance\_1\_Rule\_1 = 100 Area\_2 = 25000 Distance\_0\_Rule\_2 = 100 Distance\_1\_Rule\_2 = 250 Area\_3 = 20000 -(Rule\_3\_LB) = -50 Distance\_0\_Rule\_3 = 200 -(Rule\_3\_LB) = -300 Distance\_1\_Rule\_3 = 100 Area\_4 = 2500 -(Rule\_4\_LB) = 0 Distance\_0\_Rule\_4 = 25 -(Rule\_4\_LB) = -400 Distance\_1\_Rule\_4 = 100 Area\_5 = 30000 -(Rule\_5\_LB) = -150 Distance\_0\_Rule\_5 = 100 -(Rule\_5\_LB) = 0 Distance\_1\_Rule\_5 = 300 Area\_6 = 17500 -(Rule\_6\_LB) = -75 Distance\_0\_Rule\_6 = 175 -(Rule\_6\_LB) = -400 Distance\_1\_Rule\_6 = 100 Area\_7 = 15000 -(Rule\_7\_LB) = 0 Distance\_0\_Rule\_7 = 50 -(Rule\_7\_LB) = -100 Distance\_1\_Rule\_7 = 300 TMP\_595 = 125000 .

- Solution #16 found. 16 Solutions, Resolution 1.045s, 4702 Nodes (4,500.8 n/s), 9206 Backtracks, 4647 Fails, 0 Restarts

Rule\_3\_LB = 50 Rule\_3\_UB = 250 Rule\_3\_LB = 300 Rule\_3\_UB = 400 Rule\_4\_LB = 0 Rule\_4\_UB = 25 Rule\_4\_LB = 400 Rule\_4\_UB = 500 Rule\_5\_LB = 150 Rule\_5\_UB = 250 Rule\_5\_LB = 0 Rule\_5\_UB = 300 Rule\_6\_LB = 75 Rule\_6\_UB = 250 Rule\_6\_LB = 400 Rule\_6\_UB = 500 Rule\_7\_LB = 0 Rule\_7\_UB = 50 Rule\_7\_LB = 100 Rule\_7\_UB = 400 Overlaps\_0\_0 = 0 Overlaps\_0\_1 = 1 Overlaps\_0\_2 = 1 Overlaps\_0\_3 = 0 Overlaps\_0\_4 = 0 Overlaps\_0\_5 = 0 Overlaps\_0\_6 = 0 Overlaps\_0\_7 = 0 Overlaps\_1\_0 = 0 Overlaps\_1\_1 = 0 Overlaps\_1\_2 = 1 Overlaps\_1\_3 = 0 Overlaps\_1\_4 = 0 Overlaps\_1\_5 = 0 Overlaps\_1\_6 = 0 Overlaps\_1\_7 = 0 Overlaps\_2\_0 = 1 Overlaps\_2\_1 = 0 Overlaps\_2\_2 = 0 Overlaps\_2\_3 = 0 Overlaps\_2\_4 = 0 Overlaps\_2\_5 = 0 Overlaps\_2\_6 = 0 Overlaps\_2\_7 = 0 Overlaps\_3\_0 = 0 Overlaps\_3\_1 = 0 Overlaps\_3\_2 = 0 Overlaps\_3\_3 = 0 Overlaps\_3\_4 = 0 Overlaps\_3\_5 = 0 Overlaps\_3\_6 = 0 Overlaps\_3\_7 = 0 Overlaps\_4\_0 = 0 Overlaps\_4\_1 = 0 Overlaps\_4\_2 = 0 Overlaps\_4\_3 = 0 Overlaps\_4\_4 = 0 Overlaps\_4\_5 = 0 Overlaps\_4\_6 = 0 Overlaps\_4\_7 = 0 Overlaps\_5\_0 = 0 Overlaps\_5\_1 = 0 Overlaps\_5\_2 = 0 Overlaps\_5\_3 = 0 Overlaps\_5\_4 = 0 Overlaps\_5\_5 = 0 Overlaps\_5\_6 = 0 Overlaps\_5\_7 = 0 Overlaps\_6\_0 = 0 Overlaps\_6\_1 = 0 Overlaps\_6\_2 = 0 Overlaps\_6\_3 = 0 Overlaps\_6\_4 = 0 Overlaps\_6\_5 = 0 Overlaps\_6\_6 = 0 Overlaps\_6\_7 = 0 Overlaps\_7\_0 = 0 Overlaps\_7\_1 = 0 Overlaps\_7\_2 = 0 Overlaps\_7\_3 = 0 Overlaps\_7\_4 = 0 Overlaps\_7\_5 = 0 Overlaps\_7\_6 = 0 Overlaps\_7\_7 = 0 TMP\_0 = 1 not(TMP\_0) = 0 TMP\_1 = 1 not(TMP\_1) = 0 TMP\_2 = 0 not(TMP\_2) = 1 TMP\_3 = 1 not(TMP\_3) = 0 TMP\_4 = 3 TMP\_5 = 0 not(TMP\_5) = 1 TMP\_6 = 0 not(TMP\_6) = 1 TMP\_7 = 0 TMP\_8 = 1 not(TMP\_8) = 0 TMP\_9 = 1 not(TMP\_9) = 0 TMP\_10 = 2 TMP\_11 = 0 not(TMP\_11) = 1 TMP\_12 = 0 not(TMP\_12) = 1 TMP\_13 = 1 not(TMP\_13) = 0 TMP\_14 = 1 not(TMP\_14) = 0 TMP\_15 = 1 not(TMP\_15) = 0 TMP\_16 = 2 TMP\_17 = 1 not(TMP\_17) = 0 TMP\_18 = 1 not(TMP\_18) = 0 TMP\_19 = 1 not(TMP\_19) = 0 TMP\_20 = 0 not(TMP\_20) = 1 TMP\_21 = 3 TMP\_22 = 0 not(TMP\_22) = 1 TMP\_23 = 0 not(TMP\_23) = 1 TMP\_24 = 0 TMP\_25 = 1 not(TMP\_25) = 0 TMP\_26 = 1 not(TMP\_26) = 0 TMP\_27 = 2 TMP\_28 = 0 not(TMP\_28) = 1 TMP\_29 = 0 not(TMP\_29) = 1 TMP\_30 = 1 not(TMP\_30) = 0 TMP\_31 = 1 not(TMP\_31) = 0 TMP\_32 = 1 not(TMP\_32) = 0 TMP\_33 = 2 TMP\_34 = 1 not(TMP\_34) = 0 TMP\_35 = 1 not(TMP\_35) = 0 TMP\_36 = 0 not(TMP\_36) = 1 TMP\_37 = 1 not(TMP\_37) = 0 TMP\_38 = 3 TMP\_39 = 0 not(TMP\_39) = 1 TMP\_40 = 0 not(TMP\_40) = 1 TMP\_41 = 0 TMP\_42 = 1 not(TMP\_42) = 0 TMP\_43 = 1 not(TMP\_43) = 0 TMP\_44 = 2 TMP\_45 = 0 not(TMP\_45) = 1 TMP\_46 = 0 not(TMP\_46) = 1 TMP\_47 = 1 not(TMP\_47) = 0 TMP\_48 = 1 not(TMP\_48) = 0 TMP\_49 = 1 not(TMP\_49) = 0 TMP\_50 = 2 TMP\_51 = 0 not(TMP\_51) = 1 TMP\_52 = 1 not(TMP\_52) = 0 TMP\_53 = 1 not(TMP\_53) = 0 TMP\_54 = 0 not(TMP\_54) = 1 TMP\_55 = 2 TMP\_56 = 0 not(TMP\_56) = 1 TMP\_57 = 0 not(TMP\_57) = 1 TMP\_58 = 0 TMP\_59 = 1 not(TMP\_59) = 0 TMP\_60 = 1 not(TMP\_60) = 0 TMP\_61 = 2 TMP\_62 = 0 not(TMP\_62) = 1 TMP\_63 = 0 not(TMP\_63) = 1 TMP\_64 = 1 not(TMP\_64) = 0 TMP\_65 = 1 not(TMP\_65) = 0 TMP\_66 = 1 not(TMP\_66) = 0 TMP\_67 = 2 TMP\_68 = 1 not(TMP\_68) = 0 TMP\_69 = 1 not(TMP\_69) = 0 TMP\_70 = 0 not(TMP\_70) = 1 TMP\_71 = 1 not(TMP\_71) = 0 TMP\_72 = 3 TMP\_73 = 0 not(TMP\_73) = 1 TMP\_74 = 0 not(TMP\_74) = 1 TMP\_75 = 0 TMP\_76 = 1 not(TMP\_76) = 0 TMP\_77 = 1 not(TMP\_77) = 0 TMP\_78 = 2 TMP\_79 = 0 not(TMP\_79) = 1 TMP\_80 = 0 not(TMP\_80) = 1 TMP\_81 = 1 not(TMP\_81) = 0 TMP\_82 = 1 not(TMP\_82) = 0 TMP\_83 = 1 not(TMP\_83) = 0 TMP\_84 = 2 TMP\_85 = 1 not(TMP\_85) = 0 TMP\_86 = 1 not(TMP\_86) = 0 TMP\_87 = 1 not(TMP\_87) = 0 TMP\_88 = 0 not(TMP\_88) = 1 TMP\_89 = 3 TMP\_90 = 0 not(TMP\_90) = 1 TMP\_91 = 0 not(TMP\_91) = 1 TMP\_92 = 0 TMP\_93 = 1 not(TMP\_93) = 0 TMP\_94 = 1 not(TMP\_94) = 0 TMP\_95 = 2 TMP\_96 = 0 not(TMP\_96) = 1 TMP\_97 = 0 not(TMP\_97) = 1 TMP\_98 = 1 not(TMP\_98) = 0 TMP\_99 = 1 not(TMP\_99) = 0 TMP\_100 = 1 not(TMP\_100) = 0 TMP\_101 = 2 TMP\_102 = 0 not(TMP\_102) = 1 TMP\_103 = 1 not(TMP\_103) = 0 TMP\_104 = 1 not(TMP\_104) = 0 TMP\_105 = 1 not(TMP\_105) = 0 TMP\_106 = 3 TMP\_107 = 0 not(TMP\_107) = 1 TMP\_108 = 0 not(TMP\_108) = 1 TMP\_109 = 0 TMP\_110 = 1 not(TMP\_110) = 0 TMP\_111 = 1 not(TMP\_111) = 0 TMP\_112 = 2 TMP\_113 = 0 not(TMP\_113) = 1 TMP\_114 = 0 not(TMP\_114) = 1 TMP\_115 = 1 not(TMP\_115) = 0 TMP\_116 = 1 not(TMP\_116) = 0 TMP\_117 = 1 not(TMP\_117) = 0 TMP\_118 = 2 TMP\_119 = 1 not(TMP\_119) = 0 TMP\_120 = 1 not(TMP\_120) = 0 TMP\_121 = 0 not(TMP\_121) = 1 TMP\_122 = 1 not(TMP\_122) = 0 TMP\_123 = 3 TMP\_124 = 0 not(TMP\_124) = 1 TMP\_125 = 0 not(TMP\_125) = 1 TMP\_126 = 0 TMP\_127 = 1 not(TMP\_127) = 0 TMP\_128 = 1 not(TMP\_128) = 0 TMP\_129 = 2 TMP\_130 = 0 not(TMP\_130) = 1 TMP\_131 = 0 not(TMP\_131) = 1 TMP\_132 = 1 not(TMP\_132) = 0 TMP\_133 = 1 not(TMP\_133) = 0 TMP\_134 = 1 not(TMP\_134) = 0 TMP\_135 = 2 TMP\_136 = 1 not(TMP\_136) = 0 TMP\_137 = 0 not(TMP\_137) = 1 TMP\_138 = 1 not(TMP\_138) = 0 TMP\_139 = 1 not(TMP\_139) = 0 TMP\_140 = 3 TMP\_141 = 0 not(TMP\_141) = 1 TMP\_142 = 0 not(TMP\_142) = 1 TMP\_143 = 0 TMP\_144 = 1 not(TMP\_144) = 0 TMP\_145 = 1 not(TMP\_145) = 0 TMP\_146 = 2 TMP\_147 = 0 not(TMP\_147) = 1 TMP\_148 = 0 not(TMP\_148) = 1 TMP\_149 = 1 not(TMP\_149) = 0 TMP\_150 = 1 not(TMP\_150) = 0 TMP\_151 = 1 not(TMP\_151) = 0 TMP\_152 = 2 TMP\_153 = 1 not(TMP\_153) = 0 TMP\_154 = 0 not(TMP\_154) = 1 TMP\_155 = 0 not(TMP\_155) = 1 TMP\_156 = 1 not(TMP\_156) = 0 TMP\_157 = 2 TMP\_158 = 0 not(TMP\_158) = 1 TMP\_159 = 0 not(TMP\_159) = 1 TMP\_160 = 0 TMP\_161 = 1 not(TMP\_161) = 0 TMP\_162 = 1 not(TMP\_162) = 0 TMP\_163 = 2 TMP\_164 = 0 not(TMP\_164) = 1 TMP\_165 = 0 not(TMP\_165) = 1 TMP\_166 = 1 not(TMP\_166) = 0 TMP\_167 = 1 not(TMP\_167) = 0 TMP\_168 = 1 not(TMP\_168) = 0 TMP\_169 = 2 TMP\_170 = 1 not(TMP\_170) = 0 TMP\_171 = 0 not(TMP\_171) = 1 TMP\_172 = 0 not(TMP\_172) = 1 TMP\_173 = 1 not(TMP\_173) = 0 TMP\_174 = 2 TMP\_175 = 0 not(TMP\_175) = 1 TMP\_176 = 0 not(TMP\_176) = 1 TMP\_177 = 0 TMP\_178 = 1 not(TMP\_178) = 0 TMP\_179 = 1 not(TMP\_179) = 0 TMP\_180 = 2 TMP\_181 = 0 not(TMP\_181) = 1 TMP\_182 = 0 not(TMP\_182) = 1 TMP\_183 = 1 not(TMP\_183) = 0 TMP\_184 = 1 not(TMP\_184) = 0 TMP\_185 = 1 not(TMP\_185) = 0 TMP\_186 = 2 TMP\_187 = 1 not(TMP\_187) = 0 TMP\_188 = 0 not(TMP\_188) = 1 TMP\_189 = 0 not(TMP\_189) = 1 TMP\_190 = 1 not(TMP\_190) = 0 TMP\_191 = 2 TMP\_192 = 0 not(TMP\_192) = 1 TMP\_193 = 0 not(TMP\_193) = 1 TMP\_194 = 0 TMP\_195 = 1 not(TMP\_195) = 0 TMP\_196 = 1 not(TMP\_196) = 0 TMP\_197 = 2 TMP\_198 = 0 not(TMP\_198) = 1 TMP\_199 = 0 not(TMP\_199) = 1 TMP\_200 = 1 not(TMP\_200) = 0 TMP\_201 = 1 not(TMP\_201) = 0 TMP\_202 = 1 not(TMP\_202) = 0 TMP\_203 = 2 TMP\_204 = 1 not(TMP\_204) = 0 TMP\_205 = 0 not(TMP\_205) = 1 TMP\_206 = 1 not(TMP\_206) = 0 TMP\_207 = 1 not(TMP\_207) = 0 TMP\_208 = 3 TMP\_209 = 0 not(TMP\_209) = 1 TMP\_210 = 0 not(TMP\_210) = 1 TMP\_211 = 0 TMP\_212 = 1 not(TMP\_212) = 0 TMP\_213 = 1 not(TMP\_213) = 0 TMP\_214 = 2 TMP\_215 = 0 not(TMP\_215) = 1 TMP\_216 = 0 not(TMP\_216) = 1 TMP\_217 = 1 not(TMP\_217) = 0 TMP\_218 = 1 not(TMP\_218) = 0 TMP\_219 = 1 not(TMP\_219) = 0 TMP\_220 = 2 TMP\_221 = 1 not(TMP\_221) = 0 TMP\_222 = 1 not(TMP\_222) = 0 TMP\_223 = 0 not(TMP\_223) = 1 TMP\_224 = 1 not(TMP\_224) = 0 TMP\_225 = 3 TMP\_226 = 0 not(TMP\_226) = 1 TMP\_227 = 0 not(TMP\_227) = 1 TMP\_228 = 0 TMP\_229 = 1 not(TMP\_229) = 0 TMP\_230 = 1 not(TMP\_230) = 0 TMP\_231 = 2 TMP\_232 = 0 not(TMP\_232) = 1 TMP\_233 = 0 not(TMP\_233) = 1 TMP\_234 = 1 not(TMP\_234) = 0 TMP\_235 = 1 not(TMP\_235) = 0 TMP\_236 = 1 not(TMP\_236) = 0 TMP\_237 = 2 TMP\_238 = 0 not(TMP\_238) = 1 TMP\_239 = 1 not(TMP\_239) = 0 TMP\_240 = 1 not(TMP\_240) = 0 TMP\_241 = 1 not(TMP\_241) = 0 TMP\_242 = 3 TMP\_243 = 0 not(TMP\_243) = 1 TMP\_244 = 0 not(TMP\_244) = 1 TMP\_245 = 0 TMP\_246 = 1 not(TMP\_246) = 0 TMP\_247 = 1 not(TMP\_247) = 0 TMP\_248 = 2 TMP\_249 = 0 not(TMP\_249) = 1 TMP\_250 = 0 not(TMP\_250) = 1 TMP\_251 = 1 not(TMP\_251) = 0 TMP\_252 = 1 not(TMP\_252) = 0 TMP\_253 = 1 not(TMP\_253) = 0 TMP\_254 = 2 TMP\_255 = 0 not(TMP\_255) = 1 TMP\_256 = 1 not(TMP\_256) = 0 TMP\_257 = 1 not(TMP\_257) = 0 TMP\_258 = 0 not(TMP\_258) = 1 TMP\_259 = 2 TMP\_260 = 0 not(TMP\_260) = 1 TMP\_261 = 0 not(TMP\_261) = 1 TMP\_262 = 0 TMP\_263 = 1 not(TMP\_263) = 0 TMP\_264 = 1 not(TMP\_264) = 0 TMP\_265 = 2 TMP\_266 = 0 not(TMP\_266) = 1 TMP\_267 = 0 not(TMP\_267) = 1 TMP\_268 = 1 not(TMP\_268) = 0 TMP\_269 = 1 not(TMP\_269) = 0 TMP\_270 = 1 not(TMP\_270) = 0 TMP\_271 = 2 TMP\_272 = 0 not(TMP\_272) = 1 TMP\_273 = 1 not(TMP\_273) = 0 TMP\_274 = 1 not(TMP\_274) = 0 TMP\_275 = 1 not(TMP\_275) = 0 TMP\_276 = 3 TMP\_277 = 0 not(TMP\_277) = 1 TMP\_278 = 0 not(TMP\_278) = 1 TMP\_279 = 0 TMP\_280 = 1 not(TMP\_280) = 0 TMP\_281 = 1 not(TMP\_281) = 0 TMP\_282 = 2 TMP\_283 = 0 not(TMP\_283) = 1 TMP\_284 = 0 not(TMP\_284) = 1 TMP\_285 = 1 not(TMP\_285) = 0 TMP\_286 = 1 not(TMP\_286) = 0 TMP\_287 = 1 not(TMP\_287) = 0 TMP\_288 = 2 TMP\_289 = 1 not(TMP\_289) = 0 TMP\_290 = 1 not(TMP\_290) = 0 TMP\_291 = 1 not(TMP\_291) = 0 TMP\_292 = 0 not(TMP\_292) = 1 TMP\_293 = 3 TMP\_294 = 0 not(TMP\_294) = 1 TMP\_295 = 0 not(TMP\_295) = 1 TMP\_296 = 0 TMP\_297 = 1 not(TMP\_297) = 0 TMP\_298 = 1 not(TMP\_298) = 0 TMP\_299 = 2 TMP\_300 = 0 not(TMP\_300) = 1 TMP\_301 = 0 not(TMP\_301) = 1 TMP\_302 = 1 not(TMP\_302) = 0 TMP\_303 = 1 not(TMP\_303) = 0 TMP\_304 = 1 not(TMP\_304) = 0 TMP\_305 = 2 TMP\_306 = 0 not(TMP\_306) = 1 TMP\_307 = 1 not(TMP\_307) = 0 TMP\_308 = 1 not(TMP\_308) = 0 TMP\_309 = 0 not(TMP\_309) = 1 TMP\_310 = 2 TMP\_311 = 0 not(TMP\_311) = 1 TMP\_312 = 0 not(TMP\_312) = 1 TMP\_313 = 0 TMP\_314 = 1 not(TMP\_314) = 0 TMP\_315 = 1 not(TMP\_315) = 0 TMP\_316 = 2 TMP\_317 = 0 not(TMP\_317) = 1 TMP\_318 = 0 not(TMP\_318) = 1 TMP\_319 = 1 not(TMP\_319) = 0 TMP\_320 = 1 not(TMP\_320) = 0 TMP\_321 = 1 not(TMP\_321) = 0 TMP\_322 = 2 TMP\_323 = 1 not(TMP\_323) = 0 TMP\_324 = 1 not(TMP\_324) = 0 TMP\_325 = 1 not(TMP\_325) = 0 TMP\_326 = 0 not(TMP\_326) = 1 TMP\_327 = 3 TMP\_328 = 0 not(TMP\_328) = 1 TMP\_329 = 0 not(TMP\_329) = 1 TMP\_330 = 0 TMP\_331 = 1 not(TMP\_331) = 0 TMP\_332 = 1 not(TMP\_332) = 0 TMP\_333 = 2 TMP\_334 = 0 not(TMP\_334) = 1 TMP\_335 = 0 not(TMP\_335) = 1 TMP\_336 = 1 not(TMP\_336) = 0 TMP\_337 = 1 not(TMP\_337) = 0 TMP\_338 = 1 not(TMP\_338) = 0 TMP\_339 = 2 TMP\_340 = 0 not(TMP\_340) = 1 TMP\_341 = 1 not(TMP\_341) = 0 TMP\_342 = 1 not(TMP\_342) = 0 TMP\_343 = 1 not(TMP\_343) = 0 TMP\_344 = 3 TMP\_345 = 0 not(TMP\_345) = 1 TMP\_346 = 0 not(TMP\_346) = 1 TMP\_347 = 0 TMP\_348 = 1 not(TMP\_348) = 0 TMP\_349 = 1 not(TMP\_349) = 0 TMP\_350 = 2 TMP\_351 = 0 not(TMP\_351) = 1 TMP\_352 = 0 not(TMP\_352) = 1 TMP\_353 = 1 not(TMP\_353) = 0 TMP\_354 = 1 not(TMP\_354) = 0 TMP\_355 = 1 not(TMP\_355) = 0 TMP\_356 = 2 TMP\_357 = 1 not(TMP\_357) = 0 TMP\_358 = 1 not(TMP\_358) = 0 TMP\_359 = 0 not(TMP\_359) = 1 TMP\_360 = 1 not(TMP\_360) = 0 TMP\_361 = 3 TMP\_362 = 0 not(TMP\_362) = 1 TMP\_363 = 0 not(TMP\_363) = 1 TMP\_364 = 0 TMP\_365 = 1 not(TMP\_365) = 0 TMP\_366 = 1 not(TMP\_366) = 0 TMP\_367 = 2 TMP\_368 = 0 not(TMP\_368) = 1 TMP\_369 = 0 not(TMP\_369) = 1 TMP\_370 = 1 not(TMP\_370) = 0 TMP\_371 = 1 not(TMP\_371) = 0 TMP\_372 = 1 not(TMP\_372) = 0 TMP\_373 = 2 TMP\_374 = 0 not(TMP\_374) = 1 TMP\_375 = 1 not(TMP\_375) = 0 TMP\_376 = 1 not(TMP\_376) = 0 TMP\_377 = 1 not(TMP\_377) = 0 TMP\_378 = 3 TMP\_379 = 0 not(TMP\_379) = 1 TMP\_380 = 0 not(TMP\_380) = 1 TMP\_381 = 0 TMP\_382 = 1 not(TMP\_382) = 0 TMP\_383 = 1 not(TMP\_383) = 0 TMP\_384 = 2 TMP\_385 = 0 not(TMP\_385) = 1 TMP\_386 = 0 not(TMP\_386) = 1 TMP\_387 = 1 not(TMP\_387) = 0 TMP\_388 = 1 not(TMP\_388) = 0 TMP\_389 = 1 not(TMP\_389) = 0 TMP\_390 = 2 TMP\_391 = 1 not(TMP\_391) = 0 TMP\_392 = 1 not(TMP\_392) = 0 TMP\_393 = 0 not(TMP\_393) = 1 TMP\_394 = 1 not(TMP\_394) = 0 TMP\_395 = 3 TMP\_396 = 0 not(TMP\_396) = 1 TMP\_397 = 0 not(TMP\_397) = 1 TMP\_398 = 0 TMP\_399 = 1 not(TMP\_399) = 0 TMP\_400 = 1 not(TMP\_400) = 0 TMP\_401 = 2 TMP\_402 = 0 not(TMP\_402) = 1 TMP\_403 = 0 not(TMP\_403) = 1 TMP\_404 = 1 not(TMP\_404) = 0 TMP\_405 = 1 not(TMP\_405) = 0 TMP\_406 = 1 not(TMP\_406) = 0 TMP\_407 = 2 TMP\_408 = 1 not(TMP\_408) = 0 TMP\_409 = 1 not(TMP\_409) = 0 TMP\_410 = 0 not(TMP\_410) = 1 TMP\_411 = 1 not(TMP\_411) = 0 TMP\_412 = 3 TMP\_413 = 0 not(TMP\_413) = 1 TMP\_414 = 0 not(TMP\_414) = 1 TMP\_415 = 0 TMP\_416 = 1 not(TMP\_416) = 0 TMP\_417 = 1 not(TMP\_417) = 0 TMP\_418 = 2 TMP\_419 = 0 not(TMP\_419) = 1 TMP\_420 = 0 not(TMP\_420) = 1 TMP\_421 = 1 not(TMP\_421) = 0 TMP\_422 = 1 not(TMP\_422) = 0 TMP\_423 = 1 not(TMP\_423) = 0 TMP\_424 = 2 TMP\_425 = 0 not(TMP\_425) = 1 TMP\_426 = 1 not(TMP\_426) = 0 TMP\_427 = 1 not(TMP\_427) = 0 TMP\_428 = 1 not(TMP\_428) = 0 TMP\_429 = 3 TMP\_430 = 0 not(TMP\_430) = 1 TMP\_431 = 0 not(TMP\_431) = 1 TMP\_432 = 0 TMP\_433 = 1 not(TMP\_433) = 0 TMP\_434 = 1 not(TMP\_434) = 0 TMP\_435 = 2 TMP\_436 = 0 not(TMP\_436) = 1 TMP\_437 = 0 not(TMP\_437) = 1 TMP\_438 = 1 not(TMP\_438) = 0 TMP\_439 = 1 not(TMP\_439) = 0 TMP\_440 = 1 not(TMP\_440) = 0 TMP\_441 = 2 TMP\_442 = 1 not(TMP\_442) = 0 TMP\_443 = 1 not(TMP\_443) = 0 TMP\_444 = 0 not(TMP\_444) = 1 TMP\_445 = 1 not(TMP\_445) = 0 TMP\_446 = 3 TMP\_447 = 0 not(TMP\_447) = 1 TMP\_448 = 0 not(TMP\_448) = 1 TMP\_449 = 0 TMP\_450 = 1 not(TMP\_450) = 0 TMP\_451 = 1 not(TMP\_451) = 0 TMP\_452 = 2 TMP\_453 = 0 not(TMP\_453) = 1 TMP\_454 = 0 not(TMP\_454) = 1 TMP\_455 = 1 not(TMP\_455) = 0 TMP\_456 = 1 not(TMP\_456) = 0 TMP\_457 = 1 not(TMP\_457) = 0 TMP\_458 = 2 TMP\_459 = 0 not(TMP\_459) = 1 TMP\_460 = 1 not(TMP\_460) = 0 TMP\_461 = 0 not(TMP\_461) = 1 TMP\_462 = 1 not(TMP\_462) = 0 TMP\_463 = 2 TMP\_464 = 0 not(TMP\_464) = 1 TMP\_465 = 0 not(TMP\_465) = 1 TMP\_466 = 0 TMP\_467 = 1 not(TMP\_467) = 0 TMP\_468 = 1 not(TMP\_468) = 0 TMP\_469 = 2 TMP\_470 = 0 not(TMP\_470) = 1 TMP\_471 = 0 not(TMP\_471) = 1 TMP\_472 = 1 not(TMP\_472) = 0 TMP\_473 = 1 not(TMP\_473) = 0 TMP\_474 = 1 not(TMP\_474) = 0 TMP\_475 = 2 TMP\_476 = 1 not(TMP\_476) = 0 TMP\_477 = 1 not(TMP\_477) = 0 TMP\_478 = 0 not(TMP\_478) = 1 TMP\_479 = 1 not(TMP\_479) = 0 TMP\_480 = 3 TMP\_481 = 0 not(TMP\_481) = 1 TMP\_482 = 0 not(TMP\_482) = 1 TMP\_483 = 0 TMP\_484 = 1 not(TMP\_484) = 0 TMP\_485 = 1 not(TMP\_485) = 0 TMP\_486 = 2 TMP\_487 = 0 not(TMP\_487) = 1 TMP\_488 = 0 not(TMP\_488) = 1 TMP\_489 = 1 not(TMP\_489) = 0 TMP\_490 = 1 not(TMP\_490) = 0 TMP\_491 = 1 not(TMP\_491) = 0 TMP\_492 = 2 TMP\_493 = 1 not(TMP\_493) = 0 TMP\_494 = 1 not(TMP\_494) = 0 TMP\_495 = 1 not(TMP\_495) = 0 TMP\_496 = 0 not(TMP\_496) = 1 TMP\_497 = 3 TMP\_498 = 0 not(TMP\_498) = 1 TMP\_499 = 0 not(TMP\_499) = 1 TMP\_500 = 0 TMP\_501 = 1 not(TMP\_501) = 0 TMP\_502 = 1 not(TMP\_502) = 0 TMP\_503 = 2 TMP\_504 = 0 not(TMP\_504) = 1 TMP\_505 = 0 not(TMP\_505) = 1 TMP\_506 = 1 not(TMP\_506) = 0 TMP\_507 = 1 not(TMP\_507) = 0 TMP\_508 = 1 not(TMP\_508) = 0 TMP\_509 = 2 TMP\_510 = 1 not(TMP\_510) = 0 TMP\_511 = 0 not(TMP\_511) = 1 TMP\_512 = 1 not(TMP\_512) = 0 TMP\_513 = 1 not(TMP\_513) = 0 TMP\_514 = 3 TMP\_515 = 0 not(TMP\_515) = 1 TMP\_516 = 0 not(TMP\_516) = 1 TMP\_517 = 0 TMP\_518 = 1 not(TMP\_518) = 0 TMP\_519 = 1 not(TMP\_519) = 0 TMP\_520 = 2 TMP\_521 = 0 not(TMP\_521) = 1 TMP\_522 = 0 not(TMP\_522) = 1 TMP\_523 = 1 not(TMP\_523) = 0 TMP\_524 = 1 not(TMP\_524) = 0 TMP\_525 = 1 not(TMP\_525) = 0 TMP\_526 = 2 TMP\_527 = 1 not(TMP\_527) = 0 TMP\_528 = 0 not(TMP\_528) = 1 TMP\_529 = 1 not(TMP\_529) = 0 TMP\_530 = 1 not(TMP\_530) = 0 TMP\_531 = 3 TMP\_532 = 0 not(TMP\_532) = 1 TMP\_533 = 0 not(TMP\_533) = 1 TMP\_534 = 0 TMP\_535 = 1 not(TMP\_535) = 0 TMP\_536 = 1 not(TMP\_536) = 0 TMP\_537 = 2 TMP\_538 = 0 not(TMP\_538) = 1 TMP\_539 = 0 not(TMP\_539) = 1 TMP\_540 = 1 not(TMP\_540) = 0 TMP\_541 = 1 not(TMP\_541) = 0 TMP\_542 = 1 not(TMP\_542) = 0 TMP\_543 = 2 TMP\_544 = 1 not(TMP\_544) = 0 TMP\_545 = 1 not(TMP\_545) = 0 TMP\_546 = 1 not(TMP\_546) = 0 TMP\_547 = 0 not(TMP\_547) = 1 TMP\_548 = 3 TMP\_549 = 0 not(TMP\_549) = 1 TMP\_550 = 0 not(TMP\_550) = 1 TMP\_551 = 0 TMP\_552 = 1 not(TMP\_552) = 0 TMP\_553 = 1 not(TMP\_553) = 0 TMP\_554 = 2 TMP\_555 = 0 not(TMP\_555) = 1 TMP\_556 = 0 not(TMP\_556) = 1 TMP\_557 = 1 not(TMP\_557) = 0 TMP\_558 = 1 not(TMP\_558) = 0 TMP\_559 = 1 not(TMP\_559) = 0 TMP\_560 = 2 TMP\_561 = 1 not(TMP\_561) = 0 TMP\_562 = 0 not(TMP\_562) = 1 TMP\_563 = 1 not(TMP\_563) = 0 TMP\_564 = 1 not(TMP\_564) = 0 TMP\_565 = 3 TMP\_566 = 0 not(TMP\_566) = 1 TMP\_567 = 0 not(TMP\_567) = 1 TMP\_568 = 0 TMP\_569 = 1 not(TMP\_569) = 0 TMP\_570 = 1 not(TMP\_570) = 0 TMP\_571 = 2 TMP\_572 = 0 not(TMP\_572) = 1 TMP\_573 = 0 not(TMP\_573) = 1 TMP\_574 = 1 not(TMP\_574) = 0 TMP\_575 = 1 not(TMP\_575) = 0 TMP\_576 = 1 not(TMP\_576) = 0 TMP\_577 = 2 TMP\_578 = 1 not(TMP\_578) = 0 TMP\_579 = 0 not(TMP\_579) = 1 TMP\_580 = 1 not(TMP\_580) = 0 TMP\_581 = 0 not(TMP\_581) = 1 TMP\_582 = 2 TMP\_583 = 0 not(TMP\_583) = 1 TMP\_584 = 0 not(TMP\_584) = 1 TMP\_585 = 0 TMP\_586 = 1 not(TMP\_586) = 0 TMP\_587 = 1 not(TMP\_587) = 0 TMP\_588 = 2 TMP\_589 = 0 not(TMP\_589) = 1 TMP\_590 = 0 not(TMP\_590) = 1 TMP\_591 = 1 not(TMP\_591) = 0 TMP\_592 = 1 not(TMP\_592) = 0 TMP\_593 = 1 not(TMP\_593) = 0 TMP\_594 = 2 Area\_0 = 10000 Distance\_0\_Rule\_0 = 100 Distance\_1\_Rule\_0 = 100 Area\_1 = 5000 Distance\_0\_Rule\_1 = 50 Distance\_1\_Rule\_1 = 100 Area\_2 = 25000 Distance\_0\_Rule\_2 = 100 Distance\_1\_Rule\_2 = 250 Area\_3 = 20000 -(Rule\_3\_LB) = -50 Distance\_0\_Rule\_3 = 200 -(Rule\_3\_LB) = -300 Distance\_1\_Rule\_3 = 100 Area\_4 = 2500 -(Rule\_4\_LB) = 0 Distance\_0\_Rule\_4 = 25 -(Rule\_4\_LB) = -400 Distance\_1\_Rule\_4 = 100 Area\_5 = 30000 -(Rule\_5\_LB) = -150 Distance\_0\_Rule\_5 = 100 -(Rule\_5\_LB) = 0 Distance\_1\_Rule\_5 = 300 Area\_6 = 17500 -(Rule\_6\_LB) = -75 Distance\_0\_Rule\_6 = 175 -(Rule\_6\_LB) = -400 Distance\_1\_Rule\_6 = 100 Area\_7 = 15000 -(Rule\_7\_LB) = 0 Distance\_0\_Rule\_7 = 50 -(Rule\_7\_LB) = -100 Distance\_1\_Rule\_7 = 300 TMP\_595 = 125000 .

- Solution #17 found. 17 Solutions, Resolution 1.048s, 4707 Nodes (4,490.8 n/s), 9211 Backtracks, 4647 Fails, 0 Restarts

Rule\_3\_LB = 50 Rule\_3\_UB = 250 Rule\_3\_LB = 300 Rule\_3\_UB = 400 Rule\_4\_LB = 0 Rule\_4\_UB = 25 Rule\_4\_LB = 400 Rule\_4\_UB = 500 Rule\_5\_LB = 150 Rule\_5\_UB = 250 Rule\_5\_LB = 0 Rule\_5\_UB = 300 Rule\_6\_LB = 75 Rule\_6\_UB = 250 Rule\_6\_LB = 400 Rule\_6\_UB = 500 Rule\_7\_LB = 0 Rule\_7\_UB = 50 Rule\_7\_LB = 100 Rule\_7\_UB = 400 Overlaps\_0\_0 = 0 Overlaps\_0\_1 = 0 Overlaps\_0\_2 = 0 Overlaps\_0\_3 = 0 Overlaps\_0\_4 = 0 Overlaps\_0\_5 = 0 Overlaps\_0\_6 = 0 Overlaps\_0\_7 = 0 Overlaps\_1\_0 = 0 Overlaps\_1\_1 = 0 Overlaps\_1\_2 = 0 Overlaps\_1\_3 = 0 Overlaps\_1\_4 = 0 Overlaps\_1\_5 = 0 Overlaps\_1\_6 = 0 Overlaps\_1\_7 = 0 Overlaps\_2\_0 = 0 Overlaps\_2\_1 = 1 Overlaps\_2\_2 = 0 Overlaps\_2\_3 = 0 Overlaps\_2\_4 = 0 Overlaps\_2\_5 = 0 Overlaps\_2\_6 = 0 Overlaps\_2\_7 = 0 Overlaps\_3\_0 = 0 Overlaps\_3\_1 = 0 Overlaps\_3\_2 = 0 Overlaps\_3\_3 = 0 Overlaps\_3\_4 = 0 Overlaps\_3\_5 = 0 Overlaps\_3\_6 = 0 Overlaps\_3\_7 = 0 Overlaps\_4\_0 = 0 Overlaps\_4\_1 = 0 Overlaps\_4\_2 = 0 Overlaps\_4\_3 = 0 Overlaps\_4\_4 = 0 Overlaps\_4\_5 = 0 Overlaps\_4\_6 = 0 Overlaps\_4\_7 = 0 Overlaps\_5\_0 = 0 Overlaps\_5\_1 = 0 Overlaps\_5\_2 = 0 Overlaps\_5\_3 = 0 Overlaps\_5\_4 = 0 Overlaps\_5\_5 = 0 Overlaps\_5\_6 = 0 Overlaps\_5\_7 = 0 Overlaps\_6\_0 = 0 Overlaps\_6\_1 = 0 Overlaps\_6\_2 = 0 Overlaps\_6\_3 = 0 Overlaps\_6\_4 = 0 Overlaps\_6\_5 = 0 Overlaps\_6\_6 = 0 Overlaps\_6\_7 = 0 Overlaps\_7\_0 = 0 Overlaps\_7\_1 = 0 Overlaps\_7\_2 = 0 Overlaps\_7\_3 = 0 Overlaps\_7\_4 = 0 Overlaps\_7\_5 = 0 Overlaps\_7\_6 = 0 Overlaps\_7\_7 = 0 TMP\_0 = 1 not(TMP\_0) = 0 TMP\_1 = 1 not(TMP\_1) = 0 TMP\_2 = 0 not(TMP\_2) = 1 TMP\_3 = 1 not(TMP\_3) = 0 TMP\_4 = 3 TMP\_5 = 0 not(TMP\_5) = 1 TMP\_6 = 0 not(TMP\_6) = 1 TMP\_7 = 0 TMP\_8 = 1 not(TMP\_8) = 0 TMP\_9 = 1 not(TMP\_9) = 0 TMP\_10 = 2 TMP\_11 = 0 not(TMP\_11) = 1 TMP\_12 = 0 not(TMP\_12) = 1 TMP\_13 = 1 not(TMP\_13) = 0 TMP\_14 = 1 not(TMP\_14) = 0 TMP\_15 = 1 not(TMP\_15) = 0 TMP\_16 = 2 TMP\_17 = 1 not(TMP\_17) = 0 TMP\_18 = 1 not(TMP\_18) = 0 TMP\_19 = 1 not(TMP\_19) = 0 TMP\_20 = 0 not(TMP\_20) = 1 TMP\_21 = 3 TMP\_22 = 0 not(TMP\_22) = 1 TMP\_23 = 0 not(TMP\_23) = 1 TMP\_24 = 0 TMP\_25 = 1 not(TMP\_25) = 0 TMP\_26 = 1 not(TMP\_26) = 0 TMP\_27 = 2 TMP\_28 = 0 not(TMP\_28) = 1 TMP\_29 = 0 not(TMP\_29) = 1 TMP\_30 = 1 not(TMP\_30) = 0 TMP\_31 = 1 not(TMP\_31) = 0 TMP\_32 = 1 not(TMP\_32) = 0 TMP\_33 = 2 TMP\_34 = 1 not(TMP\_34) = 0 TMP\_35 = 1 not(TMP\_35) = 0 TMP\_36 = 0 not(TMP\_36) = 1 TMP\_37 = 1 not(TMP\_37) = 0 TMP\_38 = 3 TMP\_39 = 0 not(TMP\_39) = 1 TMP\_40 = 0 not(TMP\_40) = 1 TMP\_41 = 0 TMP\_42 = 1 not(TMP\_42) = 0 TMP\_43 = 1 not(TMP\_43) = 0 TMP\_44 = 2 TMP\_45 = 0 not(TMP\_45) = 1 TMP\_46 = 0 not(TMP\_46) = 1 TMP\_47 = 1 not(TMP\_47) = 0 TMP\_48 = 1 not(TMP\_48) = 0 TMP\_49 = 1 not(TMP\_49) = 0 TMP\_50 = 2 TMP\_51 = 0 not(TMP\_51) = 1 TMP\_52 = 1 not(TMP\_52) = 0 TMP\_53 = 1 not(TMP\_53) = 0 TMP\_54 = 0 not(TMP\_54) = 1 TMP\_55 = 2 TMP\_56 = 0 not(TMP\_56) = 1 TMP\_57 = 0 not(TMP\_57) = 1 TMP\_58 = 0 TMP\_59 = 1 not(TMP\_59) = 0 TMP\_60 = 1 not(TMP\_60) = 0 TMP\_61 = 2 TMP\_62 = 0 not(TMP\_62) = 1 TMP\_63 = 0 not(TMP\_63) = 1 TMP\_64 = 1 not(TMP\_64) = 0 TMP\_65 = 1 not(TMP\_65) = 0 TMP\_66 = 1 not(TMP\_66) = 0 TMP\_67 = 2 TMP\_68 = 1 not(TMP\_68) = 0 TMP\_69 = 1 not(TMP\_69) = 0 TMP\_70 = 0 not(TMP\_70) = 1 TMP\_71 = 1 not(TMP\_71) = 0 TMP\_72 = 3 TMP\_73 = 0 not(TMP\_73) = 1 TMP\_74 = 0 not(TMP\_74) = 1 TMP\_75 = 0 TMP\_76 = 1 not(TMP\_76) = 0 TMP\_77 = 1 not(TMP\_77) = 0 TMP\_78 = 2 TMP\_79 = 0 not(TMP\_79) = 1 TMP\_80 = 0 not(TMP\_80) = 1 TMP\_81 = 1 not(TMP\_81) = 0 TMP\_82 = 1 not(TMP\_82) = 0 TMP\_83 = 1 not(TMP\_83) = 0 TMP\_84 = 2 TMP\_85 = 1 not(TMP\_85) = 0 TMP\_86 = 1 not(TMP\_86) = 0 TMP\_87 = 1 not(TMP\_87) = 0 TMP\_88 = 0 not(TMP\_88) = 1 TMP\_89 = 3 TMP\_90 = 0 not(TMP\_90) = 1 TMP\_91 = 0 not(TMP\_91) = 1 TMP\_92 = 0 TMP\_93 = 1 not(TMP\_93) = 0 TMP\_94 = 1 not(TMP\_94) = 0 TMP\_95 = 2 TMP\_96 = 0 not(TMP\_96) = 1 TMP\_97 = 0 not(TMP\_97) = 1 TMP\_98 = 1 not(TMP\_98) = 0 TMP\_99 = 1 not(TMP\_99) = 0 TMP\_100 = 1 not(TMP\_100) = 0 TMP\_101 = 2 TMP\_102 = 0 not(TMP\_102) = 1 TMP\_103 = 1 not(TMP\_103) = 0 TMP\_104 = 1 not(TMP\_104) = 0 TMP\_105 = 1 not(TMP\_105) = 0 TMP\_106 = 3 TMP\_107 = 0 not(TMP\_107) = 1 TMP\_108 = 0 not(TMP\_108) = 1 TMP\_109 = 0 TMP\_110 = 1 not(TMP\_110) = 0 TMP\_111 = 1 not(TMP\_111) = 0 TMP\_112 = 2 TMP\_113 = 0 not(TMP\_113) = 1 TMP\_114 = 0 not(TMP\_114) = 1 TMP\_115 = 1 not(TMP\_115) = 0 TMP\_116 = 1 not(TMP\_116) = 0 TMP\_117 = 1 not(TMP\_117) = 0 TMP\_118 = 2 TMP\_119 = 1 not(TMP\_119) = 0 TMP\_120 = 1 not(TMP\_120) = 0 TMP\_121 = 0 not(TMP\_121) = 1 TMP\_122 = 1 not(TMP\_122) = 0 TMP\_123 = 3 TMP\_124 = 0 not(TMP\_124) = 1 TMP\_125 = 0 not(TMP\_125) = 1 TMP\_126 = 0 TMP\_127 = 1 not(TMP\_127) = 0 TMP\_128 = 1 not(TMP\_128) = 0 TMP\_129 = 2 TMP\_130 = 0 not(TMP\_130) = 1 TMP\_131 = 0 not(TMP\_131) = 1 TMP\_132 = 1 not(TMP\_132) = 0 TMP\_133 = 1 not(TMP\_133) = 0 TMP\_134 = 1 not(TMP\_134) = 0 TMP\_135 = 2 TMP\_136 = 1 not(TMP\_136) = 0 TMP\_137 = 0 not(TMP\_137) = 1 TMP\_138 = 1 not(TMP\_138) = 0 TMP\_139 = 1 not(TMP\_139) = 0 TMP\_140 = 3 TMP\_141 = 0 not(TMP\_141) = 1 TMP\_142 = 0 not(TMP\_142) = 1 TMP\_143 = 0 TMP\_144 = 1 not(TMP\_144) = 0 TMP\_145 = 1 not(TMP\_145) = 0 TMP\_146 = 2 TMP\_147 = 0 not(TMP\_147) = 1 TMP\_148 = 0 not(TMP\_148) = 1 TMP\_149 = 1 not(TMP\_149) = 0 TMP\_150 = 1 not(TMP\_150) = 0 TMP\_151 = 1 not(TMP\_151) = 0 TMP\_152 = 2 TMP\_153 = 1 not(TMP\_153) = 0 TMP\_154 = 0 not(TMP\_154) = 1 TMP\_155 = 0 not(TMP\_155) = 1 TMP\_156 = 1 not(TMP\_156) = 0 TMP\_157 = 2 TMP\_158 = 0 not(TMP\_158) = 1 TMP\_159 = 0 not(TMP\_159) = 1 TMP\_160 = 0 TMP\_161 = 1 not(TMP\_161) = 0 TMP\_162 = 1 not(TMP\_162) = 0 TMP\_163 = 2 TMP\_164 = 0 not(TMP\_164) = 1 TMP\_165 = 0 not(TMP\_165) = 1 TMP\_166 = 1 not(TMP\_166) = 0 TMP\_167 = 1 not(TMP\_167) = 0 TMP\_168 = 1 not(TMP\_168) = 0 TMP\_169 = 2 TMP\_170 = 1 not(TMP\_170) = 0 TMP\_171 = 0 not(TMP\_171) = 1 TMP\_172 = 0 not(TMP\_172) = 1 TMP\_173 = 1 not(TMP\_173) = 0 TMP\_174 = 2 TMP\_175 = 0 not(TMP\_175) = 1 TMP\_176 = 0 not(TMP\_176) = 1 TMP\_177 = 0 TMP\_178 = 1 not(TMP\_178) = 0 TMP\_179 = 1 not(TMP\_179) = 0 TMP\_180 = 2 TMP\_181 = 0 not(TMP\_181) = 1 TMP\_182 = 0 not(TMP\_182) = 1 TMP\_183 = 1 not(TMP\_183) = 0 TMP\_184 = 1 not(TMP\_184) = 0 TMP\_185 = 1 not(TMP\_185) = 0 TMP\_186 = 2 TMP\_187 = 1 not(TMP\_187) = 0 TMP\_188 = 0 not(TMP\_188) = 1 TMP\_189 = 0 not(TMP\_189) = 1 TMP\_190 = 1 not(TMP\_190) = 0 TMP\_191 = 2 TMP\_192 = 0 not(TMP\_192) = 1 TMP\_193 = 0 not(TMP\_193) = 1 TMP\_194 = 0 TMP\_195 = 1 not(TMP\_195) = 0 TMP\_196 = 1 not(TMP\_196) = 0 TMP\_197 = 2 TMP\_198 = 0 not(TMP\_198) = 1 TMP\_199 = 0 not(TMP\_199) = 1 TMP\_200 = 1 not(TMP\_200) = 0 TMP\_201 = 1 not(TMP\_201) = 0 TMP\_202 = 1 not(TMP\_202) = 0 TMP\_203 = 2 TMP\_204 = 1 not(TMP\_204) = 0 TMP\_205 = 0 not(TMP\_205) = 1 TMP\_206 = 1 not(TMP\_206) = 0 TMP\_207 = 1 not(TMP\_207) = 0 TMP\_208 = 3 TMP\_209 = 0 not(TMP\_209) = 1 TMP\_210 = 0 not(TMP\_210) = 1 TMP\_211 = 0 TMP\_212 = 1 not(TMP\_212) = 0 TMP\_213 = 1 not(TMP\_213) = 0 TMP\_214 = 2 TMP\_215 = 0 not(TMP\_215) = 1 TMP\_216 = 0 not(TMP\_216) = 1 TMP\_217 = 1 not(TMP\_217) = 0 TMP\_218 = 1 not(TMP\_218) = 0 TMP\_219 = 1 not(TMP\_219) = 0 TMP\_220 = 2 TMP\_221 = 1 not(TMP\_221) = 0 TMP\_222 = 1 not(TMP\_222) = 0 TMP\_223 = 0 not(TMP\_223) = 1 TMP\_224 = 1 not(TMP\_224) = 0 TMP\_225 = 3 TMP\_226 = 0 not(TMP\_226) = 1 TMP\_227 = 0 not(TMP\_227) = 1 TMP\_228 = 0 TMP\_229 = 1 not(TMP\_229) = 0 TMP\_230 = 1 not(TMP\_230) = 0 TMP\_231 = 2 TMP\_232 = 0 not(TMP\_232) = 1 TMP\_233 = 0 not(TMP\_233) = 1 TMP\_234 = 1 not(TMP\_234) = 0 TMP\_235 = 1 not(TMP\_235) = 0 TMP\_236 = 1 not(TMP\_236) = 0 TMP\_237 = 2 TMP\_238 = 0 not(TMP\_238) = 1 TMP\_239 = 1 not(TMP\_239) = 0 TMP\_240 = 1 not(TMP\_240) = 0 TMP\_241 = 1 not(TMP\_241) = 0 TMP\_242 = 3 TMP\_243 = 0 not(TMP\_243) = 1 TMP\_244 = 0 not(TMP\_244) = 1 TMP\_245 = 0 TMP\_246 = 1 not(TMP\_246) = 0 TMP\_247 = 1 not(TMP\_247) = 0 TMP\_248 = 2 TMP\_249 = 0 not(TMP\_249) = 1 TMP\_250 = 0 not(TMP\_250) = 1 TMP\_251 = 1 not(TMP\_251) = 0 TMP\_252 = 1 not(TMP\_252) = 0 TMP\_253 = 1 not(TMP\_253) = 0 TMP\_254 = 2 TMP\_255 = 0 not(TMP\_255) = 1 TMP\_256 = 1 not(TMP\_256) = 0 TMP\_257 = 1 not(TMP\_257) = 0 TMP\_258 = 0 not(TMP\_258) = 1 TMP\_259 = 2 TMP\_260 = 0 not(TMP\_260) = 1 TMP\_261 = 0 not(TMP\_261) = 1 TMP\_262 = 0 TMP\_263 = 1 not(TMP\_263) = 0 TMP\_264 = 1 not(TMP\_264) = 0 TMP\_265 = 2 TMP\_266 = 0 not(TMP\_266) = 1 TMP\_267 = 0 not(TMP\_267) = 1 TMP\_268 = 1 not(TMP\_268) = 0 TMP\_269 = 1 not(TMP\_269) = 0 TMP\_270 = 1 not(TMP\_270) = 0 TMP\_271 = 2 TMP\_272 = 0 not(TMP\_272) = 1 TMP\_273 = 1 not(TMP\_273) = 0 TMP\_274 = 1 not(TMP\_274) = 0 TMP\_275 = 1 not(TMP\_275) = 0 TMP\_276 = 3 TMP\_277 = 0 not(TMP\_277) = 1 TMP\_278 = 0 not(TMP\_278) = 1 TMP\_279 = 0 TMP\_280 = 1 not(TMP\_280) = 0 TMP\_281 = 1 not(TMP\_281) = 0 TMP\_282 = 2 TMP\_283 = 0 not(TMP\_283) = 1 TMP\_284 = 0 not(TMP\_284) = 1 TMP\_285 = 1 not(TMP\_285) = 0 TMP\_286 = 1 not(TMP\_286) = 0 TMP\_287 = 1 not(TMP\_287) = 0 TMP\_288 = 2 TMP\_289 = 1 not(TMP\_289) = 0 TMP\_290 = 1 not(TMP\_290) = 0 TMP\_291 = 1 not(TMP\_291) = 0 TMP\_292 = 0 not(TMP\_292) = 1 TMP\_293 = 3 TMP\_294 = 0 not(TMP\_294) = 1 TMP\_295 = 0 not(TMP\_295) = 1 TMP\_296 = 0 TMP\_297 = 1 not(TMP\_297) = 0 TMP\_298 = 1 not(TMP\_298) = 0 TMP\_299 = 2 TMP\_300 = 0 not(TMP\_300) = 1 TMP\_301 = 0 not(TMP\_301) = 1 TMP\_302 = 1 not(TMP\_302) = 0 TMP\_303 = 1 not(TMP\_303) = 0 TMP\_304 = 1 not(TMP\_304) = 0 TMP\_305 = 2 TMP\_306 = 0 not(TMP\_306) = 1 TMP\_307 = 1 not(TMP\_307) = 0 TMP\_308 = 1 not(TMP\_308) = 0 TMP\_309 = 0 not(TMP\_309) = 1 TMP\_310 = 2 TMP\_311 = 0 not(TMP\_311) = 1 TMP\_312 = 0 not(TMP\_312) = 1 TMP\_313 = 0 TMP\_314 = 1 not(TMP\_314) = 0 TMP\_315 = 1 not(TMP\_315) = 0 TMP\_316 = 2 TMP\_317 = 0 not(TMP\_317) = 1 TMP\_318 = 0 not(TMP\_318) = 1 TMP\_319 = 1 not(TMP\_319) = 0 TMP\_320 = 1 not(TMP\_320) = 0 TMP\_321 = 1 not(TMP\_321) = 0 TMP\_322 = 2 TMP\_323 = 1 not(TMP\_323) = 0 TMP\_324 = 1 not(TMP\_324) = 0 TMP\_325 = 1 not(TMP\_325) = 0 TMP\_326 = 0 not(TMP\_326) = 1 TMP\_327 = 3 TMP\_328 = 0 not(TMP\_328) = 1 TMP\_329 = 0 not(TMP\_329) = 1 TMP\_330 = 0 TMP\_331 = 1 not(TMP\_331) = 0 TMP\_332 = 1 not(TMP\_332) = 0 TMP\_333 = 2 TMP\_334 = 0 not(TMP\_334) = 1 TMP\_335 = 0 not(TMP\_335) = 1 TMP\_336 = 1 not(TMP\_336) = 0 TMP\_337 = 1 not(TMP\_337) = 0 TMP\_338 = 1 not(TMP\_338) = 0 TMP\_339 = 2 TMP\_340 = 0 not(TMP\_340) = 1 TMP\_341 = 1 not(TMP\_341) = 0 TMP\_342 = 1 not(TMP\_342) = 0 TMP\_343 = 1 not(TMP\_343) = 0 TMP\_344 = 3 TMP\_345 = 0 not(TMP\_345) = 1 TMP\_346 = 0 not(TMP\_346) = 1 TMP\_347 = 0 TMP\_348 = 1 not(TMP\_348) = 0 TMP\_349 = 1 not(TMP\_349) = 0 TMP\_350 = 2 TMP\_351 = 0 not(TMP\_351) = 1 TMP\_352 = 0 not(TMP\_352) = 1 TMP\_353 = 1 not(TMP\_353) = 0 TMP\_354 = 1 not(TMP\_354) = 0 TMP\_355 = 1 not(TMP\_355) = 0 TMP\_356 = 2 TMP\_357 = 1 not(TMP\_357) = 0 TMP\_358 = 1 not(TMP\_358) = 0 TMP\_359 = 0 not(TMP\_359) = 1 TMP\_360 = 1 not(TMP\_360) = 0 TMP\_361 = 3 TMP\_362 = 0 not(TMP\_362) = 1 TMP\_363 = 0 not(TMP\_363) = 1 TMP\_364 = 0 TMP\_365 = 1 not(TMP\_365) = 0 TMP\_366 = 1 not(TMP\_366) = 0 TMP\_367 = 2 TMP\_368 = 0 not(TMP\_368) = 1 TMP\_369 = 0 not(TMP\_369) = 1 TMP\_370 = 1 not(TMP\_370) = 0 TMP\_371 = 1 not(TMP\_371) = 0 TMP\_372 = 1 not(TMP\_372) = 0 TMP\_373 = 2 TMP\_374 = 0 not(TMP\_374) = 1 TMP\_375 = 1 not(TMP\_375) = 0 TMP\_376 = 1 not(TMP\_376) = 0 TMP\_377 = 1 not(TMP\_377) = 0 TMP\_378 = 3 TMP\_379 = 0 not(TMP\_379) = 1 TMP\_380 = 0 not(TMP\_380) = 1 TMP\_381 = 0 TMP\_382 = 1 not(TMP\_382) = 0 TMP\_383 = 1 not(TMP\_383) = 0 TMP\_384 = 2 TMP\_385 = 0 not(TMP\_385) = 1 TMP\_386 = 0 not(TMP\_386) = 1 TMP\_387 = 1 not(TMP\_387) = 0 TMP\_388 = 1 not(TMP\_388) = 0 TMP\_389 = 1 not(TMP\_389) = 0 TMP\_390 = 2 TMP\_391 = 1 not(TMP\_391) = 0 TMP\_392 = 1 not(TMP\_392) = 0 TMP\_393 = 0 not(TMP\_393) = 1 TMP\_394 = 1 not(TMP\_394) = 0 TMP\_395 = 3 TMP\_396 = 0 not(TMP\_396) = 1 TMP\_397 = 0 not(TMP\_397) = 1 TMP\_398 = 0 TMP\_399 = 1 not(TMP\_399) = 0 TMP\_400 = 1 not(TMP\_400) = 0 TMP\_401 = 2 TMP\_402 = 0 not(TMP\_402) = 1 TMP\_403 = 0 not(TMP\_403) = 1 TMP\_404 = 1 not(TMP\_404) = 0 TMP\_405 = 1 not(TMP\_405) = 0 TMP\_406 = 1 not(TMP\_406) = 0 TMP\_407 = 2 TMP\_408 = 1 not(TMP\_408) = 0 TMP\_409 = 1 not(TMP\_409) = 0 TMP\_410 = 0 not(TMP\_410) = 1 TMP\_411 = 1 not(TMP\_411) = 0 TMP\_412 = 3 TMP\_413 = 0 not(TMP\_413) = 1 TMP\_414 = 0 not(TMP\_414) = 1 TMP\_415 = 0 TMP\_416 = 1 not(TMP\_416) = 0 TMP\_417 = 1 not(TMP\_417) = 0 TMP\_418 = 2 TMP\_419 = 0 not(TMP\_419) = 1 TMP\_420 = 0 not(TMP\_420) = 1 TMP\_421 = 1 not(TMP\_421) = 0 TMP\_422 = 1 not(TMP\_422) = 0 TMP\_423 = 1 not(TMP\_423) = 0 TMP\_424 = 2 TMP\_425 = 0 not(TMP\_425) = 1 TMP\_426 = 1 not(TMP\_426) = 0 TMP\_427 = 1 not(TMP\_427) = 0 TMP\_428 = 1 not(TMP\_428) = 0 TMP\_429 = 3 TMP\_430 = 0 not(TMP\_430) = 1 TMP\_431 = 0 not(TMP\_431) = 1 TMP\_432 = 0 TMP\_433 = 1 not(TMP\_433) = 0 TMP\_434 = 1 not(TMP\_434) = 0 TMP\_435 = 2 TMP\_436 = 0 not(TMP\_436) = 1 TMP\_437 = 0 not(TMP\_437) = 1 TMP\_438 = 1 not(TMP\_438) = 0 TMP\_439 = 1 not(TMP\_439) = 0 TMP\_440 = 1 not(TMP\_440) = 0 TMP\_441 = 2 TMP\_442 = 1 not(TMP\_442) = 0 TMP\_443 = 1 not(TMP\_443) = 0 TMP\_444 = 0 not(TMP\_444) = 1 TMP\_445 = 1 not(TMP\_445) = 0 TMP\_446 = 3 TMP\_447 = 0 not(TMP\_447) = 1 TMP\_448 = 0 not(TMP\_448) = 1 TMP\_449 = 0 TMP\_450 = 1 not(TMP\_450) = 0 TMP\_451 = 1 not(TMP\_451) = 0 TMP\_452 = 2 TMP\_453 = 0 not(TMP\_453) = 1 TMP\_454 = 0 not(TMP\_454) = 1 TMP\_455 = 1 not(TMP\_455) = 0 TMP\_456 = 1 not(TMP\_456) = 0 TMP\_457 = 1 not(TMP\_457) = 0 TMP\_458 = 2 TMP\_459 = 0 not(TMP\_459) = 1 TMP\_460 = 1 not(TMP\_460) = 0 TMP\_461 = 0 not(TMP\_461) = 1 TMP\_462 = 1 not(TMP\_462) = 0 TMP\_463 = 2 TMP\_464 = 0 not(TMP\_464) = 1 TMP\_465 = 0 not(TMP\_465) = 1 TMP\_466 = 0 TMP\_467 = 1 not(TMP\_467) = 0 TMP\_468 = 1 not(TMP\_468) = 0 TMP\_469 = 2 TMP\_470 = 0 not(TMP\_470) = 1 TMP\_471 = 0 not(TMP\_471) = 1 TMP\_472 = 1 not(TMP\_472) = 0 TMP\_473 = 1 not(TMP\_473) = 0 TMP\_474 = 1 not(TMP\_474) = 0 TMP\_475 = 2 TMP\_476 = 1 not(TMP\_476) = 0 TMP\_477 = 1 not(TMP\_477) = 0 TMP\_478 = 0 not(TMP\_478) = 1 TMP\_479 = 1 not(TMP\_479) = 0 TMP\_480 = 3 TMP\_481 = 0 not(TMP\_481) = 1 TMP\_482 = 0 not(TMP\_482) = 1 TMP\_483 = 0 TMP\_484 = 1 not(TMP\_484) = 0 TMP\_485 = 1 not(TMP\_485) = 0 TMP\_486 = 2 TMP\_487 = 0 not(TMP\_487) = 1 TMP\_488 = 0 not(TMP\_488) = 1 TMP\_489 = 1 not(TMP\_489) = 0 TMP\_490 = 1 not(TMP\_490) = 0 TMP\_491 = 1 not(TMP\_491) = 0 TMP\_492 = 2 TMP\_493 = 1 not(TMP\_493) = 0 TMP\_494 = 1 not(TMP\_494) = 0 TMP\_495 = 1 not(TMP\_495) = 0 TMP\_496 = 0 not(TMP\_496) = 1 TMP\_497 = 3 TMP\_498 = 0 not(TMP\_498) = 1 TMP\_499 = 0 not(TMP\_499) = 1 TMP\_500 = 0 TMP\_501 = 1 not(TMP\_501) = 0 TMP\_502 = 1 not(TMP\_502) = 0 TMP\_503 = 2 TMP\_504 = 0 not(TMP\_504) = 1 TMP\_505 = 0 not(TMP\_505) = 1 TMP\_506 = 1 not(TMP\_506) = 0 TMP\_507 = 1 not(TMP\_507) = 0 TMP\_508 = 1 not(TMP\_508) = 0 TMP\_509 = 2 TMP\_510 = 1 not(TMP\_510) = 0 TMP\_511 = 0 not(TMP\_511) = 1 TMP\_512 = 1 not(TMP\_512) = 0 TMP\_513 = 1 not(TMP\_513) = 0 TMP\_514 = 3 TMP\_515 = 0 not(TMP\_515) = 1 TMP\_516 = 0 not(TMP\_516) = 1 TMP\_517 = 0 TMP\_518 = 1 not(TMP\_518) = 0 TMP\_519 = 1 not(TMP\_519) = 0 TMP\_520 = 2 TMP\_521 = 0 not(TMP\_521) = 1 TMP\_522 = 0 not(TMP\_522) = 1 TMP\_523 = 1 not(TMP\_523) = 0 TMP\_524 = 1 not(TMP\_524) = 0 TMP\_525 = 1 not(TMP\_525) = 0 TMP\_526 = 2 TMP\_527 = 1 not(TMP\_527) = 0 TMP\_528 = 0 not(TMP\_528) = 1 TMP\_529 = 1 not(TMP\_529) = 0 TMP\_530 = 1 not(TMP\_530) = 0 TMP\_531 = 3 TMP\_532 = 0 not(TMP\_532) = 1 TMP\_533 = 0 not(TMP\_533) = 1 TMP\_534 = 0 TMP\_535 = 1 not(TMP\_535) = 0 TMP\_536 = 1 not(TMP\_536) = 0 TMP\_537 = 2 TMP\_538 = 0 not(TMP\_538) = 1 TMP\_539 = 0 not(TMP\_539) = 1 TMP\_540 = 1 not(TMP\_540) = 0 TMP\_541 = 1 not(TMP\_541) = 0 TMP\_542 = 1 not(TMP\_542) = 0 TMP\_543 = 2 TMP\_544 = 1 not(TMP\_544) = 0 TMP\_545 = 1 not(TMP\_545) = 0 TMP\_546 = 1 not(TMP\_546) = 0 TMP\_547 = 0 not(TMP\_547) = 1 TMP\_548 = 3 TMP\_549 = 0 not(TMP\_549) = 1 TMP\_550 = 0 not(TMP\_550) = 1 TMP\_551 = 0 TMP\_552 = 1 not(TMP\_552) = 0 TMP\_553 = 1 not(TMP\_553) = 0 TMP\_554 = 2 TMP\_555 = 0 not(TMP\_555) = 1 TMP\_556 = 0 not(TMP\_556) = 1 TMP\_557 = 1 not(TMP\_557) = 0 TMP\_558 = 1 not(TMP\_558) = 0 TMP\_559 = 1 not(TMP\_559) = 0 TMP\_560 = 2 TMP\_561 = 1 not(TMP\_561) = 0 TMP\_562 = 0 not(TMP\_562) = 1 TMP\_563 = 1 not(TMP\_563) = 0 TMP\_564 = 1 not(TMP\_564) = 0 TMP\_565 = 3 TMP\_566 = 0 not(TMP\_566) = 1 TMP\_567 = 0 not(TMP\_567) = 1 TMP\_568 = 0 TMP\_569 = 1 not(TMP\_569) = 0 TMP\_570 = 1 not(TMP\_570) = 0 TMP\_571 = 2 TMP\_572 = 0 not(TMP\_572) = 1 TMP\_573 = 0 not(TMP\_573) = 1 TMP\_574 = 1 not(TMP\_574) = 0 TMP\_575 = 1 not(TMP\_575) = 0 TMP\_576 = 1 not(TMP\_576) = 0 TMP\_577 = 2 TMP\_578 = 1 not(TMP\_578) = 0 TMP\_579 = 0 not(TMP\_579) = 1 TMP\_580 = 1 not(TMP\_580) = 0 TMP\_581 = 0 not(TMP\_581) = 1 TMP\_582 = 2 TMP\_583 = 0 not(TMP\_583) = 1 TMP\_584 = 0 not(TMP\_584) = 1 TMP\_585 = 0 TMP\_586 = 1 not(TMP\_586) = 0 TMP\_587 = 1 not(TMP\_587) = 0 TMP\_588 = 2 TMP\_589 = 0 not(TMP\_589) = 1 TMP\_590 = 0 not(TMP\_590) = 1 TMP\_591 = 1 not(TMP\_591) = 0 TMP\_592 = 1 not(TMP\_592) = 0 TMP\_593 = 1 not(TMP\_593) = 0 TMP\_594 = 2 Area\_0 = 10000 Distance\_0\_Rule\_0 = 100 Distance\_1\_Rule\_0 = 100 Area\_1 = 5000 Distance\_0\_Rule\_1 = 50 Distance\_1\_Rule\_1 = 100 Area\_2 = 25000 Distance\_0\_Rule\_2 = 100 Distance\_1\_Rule\_2 = 250 Area\_3 = 20000 -(Rule\_3\_LB) = -50 Distance\_0\_Rule\_3 = 200 -(Rule\_3\_LB) = -300 Distance\_1\_Rule\_3 = 100 Area\_4 = 2500 -(Rule\_4\_LB) = 0 Distance\_0\_Rule\_4 = 25 -(Rule\_4\_LB) = -400 Distance\_1\_Rule\_4 = 100 Area\_5 = 30000 -(Rule\_5\_LB) = -150 Distance\_0\_Rule\_5 = 100 -(Rule\_5\_LB) = 0 Distance\_1\_Rule\_5 = 300 Area\_6 = 17500 -(Rule\_6\_LB) = -75 Distance\_0\_Rule\_6 = 175 -(Rule\_6\_LB) = -400 Distance\_1\_Rule\_6 = 100 Area\_7 = 15000 -(Rule\_7\_LB) = 0 Distance\_0\_Rule\_7 = 50 -(Rule\_7\_LB) = -100 Distance\_1\_Rule\_7 = 300 TMP\_595 = 125000 .

- Solution #18 found. 18 Solutions, Resolution 1.050s, 4708 Nodes (4,484.8 n/s), 9212 Backtracks, 4647 Fails, 0 Restarts

Rule\_3\_LB = 50 Rule\_3\_UB = 250 Rule\_3\_LB = 300 Rule\_3\_UB = 400 Rule\_4\_LB = 0 Rule\_4\_UB = 25 Rule\_4\_LB = 400 Rule\_4\_UB = 500 Rule\_5\_LB = 150 Rule\_5\_UB = 250 Rule\_5\_LB = 0 Rule\_5\_UB = 300 Rule\_6\_LB = 75 Rule\_6\_UB = 250 Rule\_6\_LB = 400 Rule\_6\_UB = 500 Rule\_7\_LB = 0 Rule\_7\_UB = 50 Rule\_7\_LB = 100 Rule\_7\_UB = 400 Overlaps\_0\_0 = 0 Overlaps\_0\_1 = 0 Overlaps\_0\_2 = 0 Overlaps\_0\_3 = 0 Overlaps\_0\_4 = 0 Overlaps\_0\_5 = 0 Overlaps\_0\_6 = 0 Overlaps\_0\_7 = 0 Overlaps\_1\_0 = 0 Overlaps\_1\_1 = 0 Overlaps\_1\_2 = 0 Overlaps\_1\_3 = 0 Overlaps\_1\_4 = 0 Overlaps\_1\_5 = 0 Overlaps\_1\_6 = 0 Overlaps\_1\_7 = 0 Overlaps\_2\_0 = 1 Overlaps\_2\_1 = 1 Overlaps\_2\_2 = 0 Overlaps\_2\_3 = 0 Overlaps\_2\_4 = 0 Overlaps\_2\_5 = 0 Overlaps\_2\_6 = 0 Overlaps\_2\_7 = 0 Overlaps\_3\_0 = 0 Overlaps\_3\_1 = 0 Overlaps\_3\_2 = 0 Overlaps\_3\_3 = 0 Overlaps\_3\_4 = 0 Overlaps\_3\_5 = 0 Overlaps\_3\_6 = 0 Overlaps\_3\_7 = 0 Overlaps\_4\_0 = 0 Overlaps\_4\_1 = 0 Overlaps\_4\_2 = 0 Overlaps\_4\_3 = 0 Overlaps\_4\_4 = 0 Overlaps\_4\_5 = 0 Overlaps\_4\_6 = 0 Overlaps\_4\_7 = 0 Overlaps\_5\_0 = 0 Overlaps\_5\_1 = 0 Overlaps\_5\_2 = 0 Overlaps\_5\_3 = 0 Overlaps\_5\_4 = 0 Overlaps\_5\_5 = 0 Overlaps\_5\_6 = 0 Overlaps\_5\_7 = 0 Overlaps\_6\_0 = 0 Overlaps\_6\_1 = 0 Overlaps\_6\_2 = 0 Overlaps\_6\_3 = 0 Overlaps\_6\_4 = 0 Overlaps\_6\_5 = 0 Overlaps\_6\_6 = 0 Overlaps\_6\_7 = 0 Overlaps\_7\_0 = 0 Overlaps\_7\_1 = 0 Overlaps\_7\_2 = 0 Overlaps\_7\_3 = 0 Overlaps\_7\_4 = 0 Overlaps\_7\_5 = 0 Overlaps\_7\_6 = 0 Overlaps\_7\_7 = 0 TMP\_0 = 1 not(TMP\_0) = 0 TMP\_1 = 1 not(TMP\_1) = 0 TMP\_2 = 0 not(TMP\_2) = 1 TMP\_3 = 1 not(TMP\_3) = 0 TMP\_4 = 3 TMP\_5 = 0 not(TMP\_5) = 1 TMP\_6 = 0 not(TMP\_6) = 1 TMP\_7 = 0 TMP\_8 = 1 not(TMP\_8) = 0 TMP\_9 = 1 not(TMP\_9) = 0 TMP\_10 = 2 TMP\_11 = 0 not(TMP\_11) = 1 TMP\_12 = 0 not(TMP\_12) = 1 TMP\_13 = 1 not(TMP\_13) = 0 TMP\_14 = 1 not(TMP\_14) = 0 TMP\_15 = 1 not(TMP\_15) = 0 TMP\_16 = 2 TMP\_17 = 1 not(TMP\_17) = 0 TMP\_18 = 1 not(TMP\_18) = 0 TMP\_19 = 1 not(TMP\_19) = 0 TMP\_20 = 0 not(TMP\_20) = 1 TMP\_21 = 3 TMP\_22 = 0 not(TMP\_22) = 1 TMP\_23 = 0 not(TMP\_23) = 1 TMP\_24 = 0 TMP\_25 = 1 not(TMP\_25) = 0 TMP\_26 = 1 not(TMP\_26) = 0 TMP\_27 = 2 TMP\_28 = 0 not(TMP\_28) = 1 TMP\_29 = 0 not(TMP\_29) = 1 TMP\_30 = 1 not(TMP\_30) = 0 TMP\_31 = 1 not(TMP\_31) = 0 TMP\_32 = 1 not(TMP\_32) = 0 TMP\_33 = 2 TMP\_34 = 1 not(TMP\_34) = 0 TMP\_35 = 1 not(TMP\_35) = 0 TMP\_36 = 0 not(TMP\_36) = 1 TMP\_37 = 1 not(TMP\_37) = 0 TMP\_38 = 3 TMP\_39 = 0 not(TMP\_39) = 1 TMP\_40 = 0 not(TMP\_40) = 1 TMP\_41 = 0 TMP\_42 = 1 not(TMP\_42) = 0 TMP\_43 = 1 not(TMP\_43) = 0 TMP\_44 = 2 TMP\_45 = 0 not(TMP\_45) = 1 TMP\_46 = 0 not(TMP\_46) = 1 TMP\_47 = 1 not(TMP\_47) = 0 TMP\_48 = 1 not(TMP\_48) = 0 TMP\_49 = 1 not(TMP\_49) = 0 TMP\_50 = 2 TMP\_51 = 0 not(TMP\_51) = 1 TMP\_52 = 1 not(TMP\_52) = 0 TMP\_53 = 1 not(TMP\_53) = 0 TMP\_54 = 0 not(TMP\_54) = 1 TMP\_55 = 2 TMP\_56 = 0 not(TMP\_56) = 1 TMP\_57 = 0 not(TMP\_57) = 1 TMP\_58 = 0 TMP\_59 = 1 not(TMP\_59) = 0 TMP\_60 = 1 not(TMP\_60) = 0 TMP\_61 = 2 TMP\_62 = 0 not(TMP\_62) = 1 TMP\_63 = 0 not(TMP\_63) = 1 TMP\_64 = 1 not(TMP\_64) = 0 TMP\_65 = 1 not(TMP\_65) = 0 TMP\_66 = 1 not(TMP\_66) = 0 TMP\_67 = 2 TMP\_68 = 1 not(TMP\_68) = 0 TMP\_69 = 1 not(TMP\_69) = 0 TMP\_70 = 0 not(TMP\_70) = 1 TMP\_71 = 1 not(TMP\_71) = 0 TMP\_72 = 3 TMP\_73 = 0 not(TMP\_73) = 1 TMP\_74 = 0 not(TMP\_74) = 1 TMP\_75 = 0 TMP\_76 = 1 not(TMP\_76) = 0 TMP\_77 = 1 not(TMP\_77) = 0 TMP\_78 = 2 TMP\_79 = 0 not(TMP\_79) = 1 TMP\_80 = 0 not(TMP\_80) = 1 TMP\_81 = 1 not(TMP\_81) = 0 TMP\_82 = 1 not(TMP\_82) = 0 TMP\_83 = 1 not(TMP\_83) = 0 TMP\_84 = 2 TMP\_85 = 1 not(TMP\_85) = 0 TMP\_86 = 1 not(TMP\_86) = 0 TMP\_87 = 1 not(TMP\_87) = 0 TMP\_88 = 0 not(TMP\_88) = 1 TMP\_89 = 3 TMP\_90 = 0 not(TMP\_90) = 1 TMP\_91 = 0 not(TMP\_91) = 1 TMP\_92 = 0 TMP\_93 = 1 not(TMP\_93) = 0 TMP\_94 = 1 not(TMP\_94) = 0 TMP\_95 = 2 TMP\_96 = 0 not(TMP\_96) = 1 TMP\_97 = 0 not(TMP\_97) = 1 TMP\_98 = 1 not(TMP\_98) = 0 TMP\_99 = 1 not(TMP\_99) = 0 TMP\_100 = 1 not(TMP\_100) = 0 TMP\_101 = 2 TMP\_102 = 0 not(TMP\_102) = 1 TMP\_103 = 1 not(TMP\_103) = 0 TMP\_104 = 1 not(TMP\_104) = 0 TMP\_105 = 1 not(TMP\_105) = 0 TMP\_106 = 3 TMP\_107 = 0 not(TMP\_107) = 1 TMP\_108 = 0 not(TMP\_108) = 1 TMP\_109 = 0 TMP\_110 = 1 not(TMP\_110) = 0 TMP\_111 = 1 not(TMP\_111) = 0 TMP\_112 = 2 TMP\_113 = 0 not(TMP\_113) = 1 TMP\_114 = 0 not(TMP\_114) = 1 TMP\_115 = 1 not(TMP\_115) = 0 TMP\_116 = 1 not(TMP\_116) = 0 TMP\_117 = 1 not(TMP\_117) = 0 TMP\_118 = 2 TMP\_119 = 1 not(TMP\_119) = 0 TMP\_120 = 1 not(TMP\_120) = 0 TMP\_121 = 0 not(TMP\_121) = 1 TMP\_122 = 1 not(TMP\_122) = 0 TMP\_123 = 3 TMP\_124 = 0 not(TMP\_124) = 1 TMP\_125 = 0 not(TMP\_125) = 1 TMP\_126 = 0 TMP\_127 = 1 not(TMP\_127) = 0 TMP\_128 = 1 not(TMP\_128) = 0 TMP\_129 = 2 TMP\_130 = 0 not(TMP\_130) = 1 TMP\_131 = 0 not(TMP\_131) = 1 TMP\_132 = 1 not(TMP\_132) = 0 TMP\_133 = 1 not(TMP\_133) = 0 TMP\_134 = 1 not(TMP\_134) = 0 TMP\_135 = 2 TMP\_136 = 1 not(TMP\_136) = 0 TMP\_137 = 0 not(TMP\_137) = 1 TMP\_138 = 1 not(TMP\_138) = 0 TMP\_139 = 1 not(TMP\_139) = 0 TMP\_140 = 3 TMP\_141 = 0 not(TMP\_141) = 1 TMP\_142 = 0 not(TMP\_142) = 1 TMP\_143 = 0 TMP\_144 = 1 not(TMP\_144) = 0 TMP\_145 = 1 not(TMP\_145) = 0 TMP\_146 = 2 TMP\_147 = 0 not(TMP\_147) = 1 TMP\_148 = 0 not(TMP\_148) = 1 TMP\_149 = 1 not(TMP\_149) = 0 TMP\_150 = 1 not(TMP\_150) = 0 TMP\_151 = 1 not(TMP\_151) = 0 TMP\_152 = 2 TMP\_153 = 1 not(TMP\_153) = 0 TMP\_154 = 0 not(TMP\_154) = 1 TMP\_155 = 0 not(TMP\_155) = 1 TMP\_156 = 1 not(TMP\_156) = 0 TMP\_157 = 2 TMP\_158 = 0 not(TMP\_158) = 1 TMP\_159 = 0 not(TMP\_159) = 1 TMP\_160 = 0 TMP\_161 = 1 not(TMP\_161) = 0 TMP\_162 = 1 not(TMP\_162) = 0 TMP\_163 = 2 TMP\_164 = 0 not(TMP\_164) = 1 TMP\_165 = 0 not(TMP\_165) = 1 TMP\_166 = 1 not(TMP\_166) = 0 TMP\_167 = 1 not(TMP\_167) = 0 TMP\_168 = 1 not(TMP\_168) = 0 TMP\_169 = 2 TMP\_170 = 1 not(TMP\_170) = 0 TMP\_171 = 0 not(TMP\_171) = 1 TMP\_172 = 0 not(TMP\_172) = 1 TMP\_173 = 1 not(TMP\_173) = 0 TMP\_174 = 2 TMP\_175 = 0 not(TMP\_175) = 1 TMP\_176 = 0 not(TMP\_176) = 1 TMP\_177 = 0 TMP\_178 = 1 not(TMP\_178) = 0 TMP\_179 = 1 not(TMP\_179) = 0 TMP\_180 = 2 TMP\_181 = 0 not(TMP\_181) = 1 TMP\_182 = 0 not(TMP\_182) = 1 TMP\_183 = 1 not(TMP\_183) = 0 TMP\_184 = 1 not(TMP\_184) = 0 TMP\_185 = 1 not(TMP\_185) = 0 TMP\_186 = 2 TMP\_187 = 1 not(TMP\_187) = 0 TMP\_188 = 0 not(TMP\_188) = 1 TMP\_189 = 0 not(TMP\_189) = 1 TMP\_190 = 1 not(TMP\_190) = 0 TMP\_191 = 2 TMP\_192 = 0 not(TMP\_192) = 1 TMP\_193 = 0 not(TMP\_193) = 1 TMP\_194 = 0 TMP\_195 = 1 not(TMP\_195) = 0 TMP\_196 = 1 not(TMP\_196) = 0 TMP\_197 = 2 TMP\_198 = 0 not(TMP\_198) = 1 TMP\_199 = 0 not(TMP\_199) = 1 TMP\_200 = 1 not(TMP\_200) = 0 TMP\_201 = 1 not(TMP\_201) = 0 TMP\_202 = 1 not(TMP\_202) = 0 TMP\_203 = 2 TMP\_204 = 1 not(TMP\_204) = 0 TMP\_205 = 0 not(TMP\_205) = 1 TMP\_206 = 1 not(TMP\_206) = 0 TMP\_207 = 1 not(TMP\_207) = 0 TMP\_208 = 3 TMP\_209 = 0 not(TMP\_209) = 1 TMP\_210 = 0 not(TMP\_210) = 1 TMP\_211 = 0 TMP\_212 = 1 not(TMP\_212) = 0 TMP\_213 = 1 not(TMP\_213) = 0 TMP\_214 = 2 TMP\_215 = 0 not(TMP\_215) = 1 TMP\_216 = 0 not(TMP\_216) = 1 TMP\_217 = 1 not(TMP\_217) = 0 TMP\_218 = 1 not(TMP\_218) = 0 TMP\_219 = 1 not(TMP\_219) = 0 TMP\_220 = 2 TMP\_221 = 1 not(TMP\_221) = 0 TMP\_222 = 1 not(TMP\_222) = 0 TMP\_223 = 0 not(TMP\_223) = 1 TMP\_224 = 1 not(TMP\_224) = 0 TMP\_225 = 3 TMP\_226 = 0 not(TMP\_226) = 1 TMP\_227 = 0 not(TMP\_227) = 1 TMP\_228 = 0 TMP\_229 = 1 not(TMP\_229) = 0 TMP\_230 = 1 not(TMP\_230) = 0 TMP\_231 = 2 TMP\_232 = 0 not(TMP\_232) = 1 TMP\_233 = 0 not(TMP\_233) = 1 TMP\_234 = 1 not(TMP\_234) = 0 TMP\_235 = 1 not(TMP\_235) = 0 TMP\_236 = 1 not(TMP\_236) = 0 TMP\_237 = 2 TMP\_238 = 0 not(TMP\_238) = 1 TMP\_239 = 1 not(TMP\_239) = 0 TMP\_240 = 1 not(TMP\_240) = 0 TMP\_241 = 1 not(TMP\_241) = 0 TMP\_242 = 3 TMP\_243 = 0 not(TMP\_243) = 1 TMP\_244 = 0 not(TMP\_244) = 1 TMP\_245 = 0 TMP\_246 = 1 not(TMP\_246) = 0 TMP\_247 = 1 not(TMP\_247) = 0 TMP\_248 = 2 TMP\_249 = 0 not(TMP\_249) = 1 TMP\_250 = 0 not(TMP\_250) = 1 TMP\_251 = 1 not(TMP\_251) = 0 TMP\_252 = 1 not(TMP\_252) = 0 TMP\_253 = 1 not(TMP\_253) = 0 TMP\_254 = 2 TMP\_255 = 0 not(TMP\_255) = 1 TMP\_256 = 1 not(TMP\_256) = 0 TMP\_257 = 1 not(TMP\_257) = 0 TMP\_258 = 0 not(TMP\_258) = 1 TMP\_259 = 2 TMP\_260 = 0 not(TMP\_260) = 1 TMP\_261 = 0 not(TMP\_261) = 1 TMP\_262 = 0 TMP\_263 = 1 not(TMP\_263) = 0 TMP\_264 = 1 not(TMP\_264) = 0 TMP\_265 = 2 TMP\_266 = 0 not(TMP\_266) = 1 TMP\_267 = 0 not(TMP\_267) = 1 TMP\_268 = 1 not(TMP\_268) = 0 TMP\_269 = 1 not(TMP\_269) = 0 TMP\_270 = 1 not(TMP\_270) = 0 TMP\_271 = 2 TMP\_272 = 0 not(TMP\_272) = 1 TMP\_273 = 1 not(TMP\_273) = 0 TMP\_274 = 1 not(TMP\_274) = 0 TMP\_275 = 1 not(TMP\_275) = 0 TMP\_276 = 3 TMP\_277 = 0 not(TMP\_277) = 1 TMP\_278 = 0 not(TMP\_278) = 1 TMP\_279 = 0 TMP\_280 = 1 not(TMP\_280) = 0 TMP\_281 = 1 not(TMP\_281) = 0 TMP\_282 = 2 TMP\_283 = 0 not(TMP\_283) = 1 TMP\_284 = 0 not(TMP\_284) = 1 TMP\_285 = 1 not(TMP\_285) = 0 TMP\_286 = 1 not(TMP\_286) = 0 TMP\_287 = 1 not(TMP\_287) = 0 TMP\_288 = 2 TMP\_289 = 1 not(TMP\_289) = 0 TMP\_290 = 1 not(TMP\_290) = 0 TMP\_291 = 1 not(TMP\_291) = 0 TMP\_292 = 0 not(TMP\_292) = 1 TMP\_293 = 3 TMP\_294 = 0 not(TMP\_294) = 1 TMP\_295 = 0 not(TMP\_295) = 1 TMP\_296 = 0 TMP\_297 = 1 not(TMP\_297) = 0 TMP\_298 = 1 not(TMP\_298) = 0 TMP\_299 = 2 TMP\_300 = 0 not(TMP\_300) = 1 TMP\_301 = 0 not(TMP\_301) = 1 TMP\_302 = 1 not(TMP\_302) = 0 TMP\_303 = 1 not(TMP\_303) = 0 TMP\_304 = 1 not(TMP\_304) = 0 TMP\_305 = 2 TMP\_306 = 0 not(TMP\_306) = 1 TMP\_307 = 1 not(TMP\_307) = 0 TMP\_308 = 1 not(TMP\_308) = 0 TMP\_309 = 0 not(TMP\_309) = 1 TMP\_310 = 2 TMP\_311 = 0 not(TMP\_311) = 1 TMP\_312 = 0 not(TMP\_312) = 1 TMP\_313 = 0 TMP\_314 = 1 not(TMP\_314) = 0 TMP\_315 = 1 not(TMP\_315) = 0 TMP\_316 = 2 TMP\_317 = 0 not(TMP\_317) = 1 TMP\_318 = 0 not(TMP\_318) = 1 TMP\_319 = 1 not(TMP\_319) = 0 TMP\_320 = 1 not(TMP\_320) = 0 TMP\_321 = 1 not(TMP\_321) = 0 TMP\_322 = 2 TMP\_323 = 1 not(TMP\_323) = 0 TMP\_324 = 1 not(TMP\_324) = 0 TMP\_325 = 1 not(TMP\_325) = 0 TMP\_326 = 0 not(TMP\_326) = 1 TMP\_327 = 3 TMP\_328 = 0 not(TMP\_328) = 1 TMP\_329 = 0 not(TMP\_329) = 1 TMP\_330 = 0 TMP\_331 = 1 not(TMP\_331) = 0 TMP\_332 = 1 not(TMP\_332) = 0 TMP\_333 = 2 TMP\_334 = 0 not(TMP\_334) = 1 TMP\_335 = 0 not(TMP\_335) = 1 TMP\_336 = 1 not(TMP\_336) = 0 TMP\_337 = 1 not(TMP\_337) = 0 TMP\_338 = 1 not(TMP\_338) = 0 TMP\_339 = 2 TMP\_340 = 0 not(TMP\_340) = 1 TMP\_341 = 1 not(TMP\_341) = 0 TMP\_342 = 1 not(TMP\_342) = 0 TMP\_343 = 1 not(TMP\_343) = 0 TMP\_344 = 3 TMP\_345 = 0 not(TMP\_345) = 1 TMP\_346 = 0 not(TMP\_346) = 1 TMP\_347 = 0 TMP\_348 = 1 not(TMP\_348) = 0 TMP\_349 = 1 not(TMP\_349) = 0 TMP\_350 = 2 TMP\_351 = 0 not(TMP\_351) = 1 TMP\_352 = 0 not(TMP\_352) = 1 TMP\_353 = 1 not(TMP\_353) = 0 TMP\_354 = 1 not(TMP\_354) = 0 TMP\_355 = 1 not(TMP\_355) = 0 TMP\_356 = 2 TMP\_357 = 1 not(TMP\_357) = 0 TMP\_358 = 1 not(TMP\_358) = 0 TMP\_359 = 0 not(TMP\_359) = 1 TMP\_360 = 1 not(TMP\_360) = 0 TMP\_361 = 3 TMP\_362 = 0 not(TMP\_362) = 1 TMP\_363 = 0 not(TMP\_363) = 1 TMP\_364 = 0 TMP\_365 = 1 not(TMP\_365) = 0 TMP\_366 = 1 not(TMP\_366) = 0 TMP\_367 = 2 TMP\_368 = 0 not(TMP\_368) = 1 TMP\_369 = 0 not(TMP\_369) = 1 TMP\_370 = 1 not(TMP\_370) = 0 TMP\_371 = 1 not(TMP\_371) = 0 TMP\_372 = 1 not(TMP\_372) = 0 TMP\_373 = 2 TMP\_374 = 0 not(TMP\_374) = 1 TMP\_375 = 1 not(TMP\_375) = 0 TMP\_376 = 1 not(TMP\_376) = 0 TMP\_377 = 1 not(TMP\_377) = 0 TMP\_378 = 3 TMP\_379 = 0 not(TMP\_379) = 1 TMP\_380 = 0 not(TMP\_380) = 1 TMP\_381 = 0 TMP\_382 = 1 not(TMP\_382) = 0 TMP\_383 = 1 not(TMP\_383) = 0 TMP\_384 = 2 TMP\_385 = 0 not(TMP\_385) = 1 TMP\_386 = 0 not(TMP\_386) = 1 TMP\_387 = 1 not(TMP\_387) = 0 TMP\_388 = 1 not(TMP\_388) = 0 TMP\_389 = 1 not(TMP\_389) = 0 TMP\_390 = 2 TMP\_391 = 1 not(TMP\_391) = 0 TMP\_392 = 1 not(TMP\_392) = 0 TMP\_393 = 0 not(TMP\_393) = 1 TMP\_394 = 1 not(TMP\_394) = 0 TMP\_395 = 3 TMP\_396 = 0 not(TMP\_396) = 1 TMP\_397 = 0 not(TMP\_397) = 1 TMP\_398 = 0 TMP\_399 = 1 not(TMP\_399) = 0 TMP\_400 = 1 not(TMP\_400) = 0 TMP\_401 = 2 TMP\_402 = 0 not(TMP\_402) = 1 TMP\_403 = 0 not(TMP\_403) = 1 TMP\_404 = 1 not(TMP\_404) = 0 TMP\_405 = 1 not(TMP\_405) = 0 TMP\_406 = 1 not(TMP\_406) = 0 TMP\_407 = 2 TMP\_408 = 1 not(TMP\_408) = 0 TMP\_409 = 1 not(TMP\_409) = 0 TMP\_410 = 0 not(TMP\_410) = 1 TMP\_411 = 1 not(TMP\_411) = 0 TMP\_412 = 3 TMP\_413 = 0 not(TMP\_413) = 1 TMP\_414 = 0 not(TMP\_414) = 1 TMP\_415 = 0 TMP\_416 = 1 not(TMP\_416) = 0 TMP\_417 = 1 not(TMP\_417) = 0 TMP\_418 = 2 TMP\_419 = 0 not(TMP\_419) = 1 TMP\_420 = 0 not(TMP\_420) = 1 TMP\_421 = 1 not(TMP\_421) = 0 TMP\_422 = 1 not(TMP\_422) = 0 TMP\_423 = 1 not(TMP\_423) = 0 TMP\_424 = 2 TMP\_425 = 0 not(TMP\_425) = 1 TMP\_426 = 1 not(TMP\_426) = 0 TMP\_427 = 1 not(TMP\_427) = 0 TMP\_428 = 1 not(TMP\_428) = 0 TMP\_429 = 3 TMP\_430 = 0 not(TMP\_430) = 1 TMP\_431 = 0 not(TMP\_431) = 1 TMP\_432 = 0 TMP\_433 = 1 not(TMP\_433) = 0 TMP\_434 = 1 not(TMP\_434) = 0 TMP\_435 = 2 TMP\_436 = 0 not(TMP\_436) = 1 TMP\_437 = 0 not(TMP\_437) = 1 TMP\_438 = 1 not(TMP\_438) = 0 TMP\_439 = 1 not(TMP\_439) = 0 TMP\_440 = 1 not(TMP\_440) = 0 TMP\_441 = 2 TMP\_442 = 1 not(TMP\_442) = 0 TMP\_443 = 1 not(TMP\_443) = 0 TMP\_444 = 0 not(TMP\_444) = 1 TMP\_445 = 1 not(TMP\_445) = 0 TMP\_446 = 3 TMP\_447 = 0 not(TMP\_447) = 1 TMP\_448 = 0 not(TMP\_448) = 1 TMP\_449 = 0 TMP\_450 = 1 not(TMP\_450) = 0 TMP\_451 = 1 not(TMP\_451) = 0 TMP\_452 = 2 TMP\_453 = 0 not(TMP\_453) = 1 TMP\_454 = 0 not(TMP\_454) = 1 TMP\_455 = 1 not(TMP\_455) = 0 TMP\_456 = 1 not(TMP\_456) = 0 TMP\_457 = 1 not(TMP\_457) = 0 TMP\_458 = 2 TMP\_459 = 0 not(TMP\_459) = 1 TMP\_460 = 1 not(TMP\_460) = 0 TMP\_461 = 0 not(TMP\_461) = 1 TMP\_462 = 1 not(TMP\_462) = 0 TMP\_463 = 2 TMP\_464 = 0 not(TMP\_464) = 1 TMP\_465 = 0 not(TMP\_465) = 1 TMP\_466 = 0 TMP\_467 = 1 not(TMP\_467) = 0 TMP\_468 = 1 not(TMP\_468) = 0 TMP\_469 = 2 TMP\_470 = 0 not(TMP\_470) = 1 TMP\_471 = 0 not(TMP\_471) = 1 TMP\_472 = 1 not(TMP\_472) = 0 TMP\_473 = 1 not(TMP\_473) = 0 TMP\_474 = 1 not(TMP\_474) = 0 TMP\_475 = 2 TMP\_476 = 1 not(TMP\_476) = 0 TMP\_477 = 1 not(TMP\_477) = 0 TMP\_478 = 0 not(TMP\_478) = 1 TMP\_479 = 1 not(TMP\_479) = 0 TMP\_480 = 3 TMP\_481 = 0 not(TMP\_481) = 1 TMP\_482 = 0 not(TMP\_482) = 1 TMP\_483 = 0 TMP\_484 = 1 not(TMP\_484) = 0 TMP\_485 = 1 not(TMP\_485) = 0 TMP\_486 = 2 TMP\_487 = 0 not(TMP\_487) = 1 TMP\_488 = 0 not(TMP\_488) = 1 TMP\_489 = 1 not(TMP\_489) = 0 TMP\_490 = 1 not(TMP\_490) = 0 TMP\_491 = 1 not(TMP\_491) = 0 TMP\_492 = 2 TMP\_493 = 1 not(TMP\_493) = 0 TMP\_494 = 1 not(TMP\_494) = 0 TMP\_495 = 1 not(TMP\_495) = 0 TMP\_496 = 0 not(TMP\_496) = 1 TMP\_497 = 3 TMP\_498 = 0 not(TMP\_498) = 1 TMP\_499 = 0 not(TMP\_499) = 1 TMP\_500 = 0 TMP\_501 = 1 not(TMP\_501) = 0 TMP\_502 = 1 not(TMP\_502) = 0 TMP\_503 = 2 TMP\_504 = 0 not(TMP\_504) = 1 TMP\_505 = 0 not(TMP\_505) = 1 TMP\_506 = 1 not(TMP\_506) = 0 TMP\_507 = 1 not(TMP\_507) = 0 TMP\_508 = 1 not(TMP\_508) = 0 TMP\_509 = 2 TMP\_510 = 1 not(TMP\_510) = 0 TMP\_511 = 0 not(TMP\_511) = 1 TMP\_512 = 1 not(TMP\_512) = 0 TMP\_513 = 1 not(TMP\_513) = 0 TMP\_514 = 3 TMP\_515 = 0 not(TMP\_515) = 1 TMP\_516 = 0 not(TMP\_516) = 1 TMP\_517 = 0 TMP\_518 = 1 not(TMP\_518) = 0 TMP\_519 = 1 not(TMP\_519) = 0 TMP\_520 = 2 TMP\_521 = 0 not(TMP\_521) = 1 TMP\_522 = 0 not(TMP\_522) = 1 TMP\_523 = 1 not(TMP\_523) = 0 TMP\_524 = 1 not(TMP\_524) = 0 TMP\_525 = 1 not(TMP\_525) = 0 TMP\_526 = 2 TMP\_527 = 1 not(TMP\_527) = 0 TMP\_528 = 0 not(TMP\_528) = 1 TMP\_529 = 1 not(TMP\_529) = 0 TMP\_530 = 1 not(TMP\_530) = 0 TMP\_531 = 3 TMP\_532 = 0 not(TMP\_532) = 1 TMP\_533 = 0 not(TMP\_533) = 1 TMP\_534 = 0 TMP\_535 = 1 not(TMP\_535) = 0 TMP\_536 = 1 not(TMP\_536) = 0 TMP\_537 = 2 TMP\_538 = 0 not(TMP\_538) = 1 TMP\_539 = 0 not(TMP\_539) = 1 TMP\_540 = 1 not(TMP\_540) = 0 TMP\_541 = 1 not(TMP\_541) = 0 TMP\_542 = 1 not(TMP\_542) = 0 TMP\_543 = 2 TMP\_544 = 1 not(TMP\_544) = 0 TMP\_545 = 1 not(TMP\_545) = 0 TMP\_546 = 1 not(TMP\_546) = 0 TMP\_547 = 0 not(TMP\_547) = 1 TMP\_548 = 3 TMP\_549 = 0 not(TMP\_549) = 1 TMP\_550 = 0 not(TMP\_550) = 1 TMP\_551 = 0 TMP\_552 = 1 not(TMP\_552) = 0 TMP\_553 = 1 not(TMP\_553) = 0 TMP\_554 = 2 TMP\_555 = 0 not(TMP\_555) = 1 TMP\_556 = 0 not(TMP\_556) = 1 TMP\_557 = 1 not(TMP\_557) = 0 TMP\_558 = 1 not(TMP\_558) = 0 TMP\_559 = 1 not(TMP\_559) = 0 TMP\_560 = 2 TMP\_561 = 1 not(TMP\_561) = 0 TMP\_562 = 0 not(TMP\_562) = 1 TMP\_563 = 1 not(TMP\_563) = 0 TMP\_564 = 1 not(TMP\_564) = 0 TMP\_565 = 3 TMP\_566 = 0 not(TMP\_566) = 1 TMP\_567 = 0 not(TMP\_567) = 1 TMP\_568 = 0 TMP\_569 = 1 not(TMP\_569) = 0 TMP\_570 = 1 not(TMP\_570) = 0 TMP\_571 = 2 TMP\_572 = 0 not(TMP\_572) = 1 TMP\_573 = 0 not(TMP\_573) = 1 TMP\_574 = 1 not(TMP\_574) = 0 TMP\_575 = 1 not(TMP\_575) = 0 TMP\_576 = 1 not(TMP\_576) = 0 TMP\_577 = 2 TMP\_578 = 1 not(TMP\_578) = 0 TMP\_579 = 0 not(TMP\_579) = 1 TMP\_580 = 1 not(TMP\_580) = 0 TMP\_581 = 0 not(TMP\_581) = 1 TMP\_582 = 2 TMP\_583 = 0 not(TMP\_583) = 1 TMP\_584 = 0 not(TMP\_584) = 1 TMP\_585 = 0 TMP\_586 = 1 not(TMP\_586) = 0 TMP\_587 = 1 not(TMP\_587) = 0 TMP\_588 = 2 TMP\_589 = 0 not(TMP\_589) = 1 TMP\_590 = 0 not(TMP\_590) = 1 TMP\_591 = 1 not(TMP\_591) = 0 TMP\_592 = 1 not(TMP\_592) = 0 TMP\_593 = 1 not(TMP\_593) = 0 TMP\_594 = 2 Area\_0 = 10000 Distance\_0\_Rule\_0 = 100 Distance\_1\_Rule\_0 = 100 Area\_1 = 5000 Distance\_0\_Rule\_1 = 50 Distance\_1\_Rule\_1 = 100 Area\_2 = 25000 Distance\_0\_Rule\_2 = 100 Distance\_1\_Rule\_2 = 250 Area\_3 = 20000 -(Rule\_3\_LB) = -50 Distance\_0\_Rule\_3 = 200 -(Rule\_3\_LB) = -300 Distance\_1\_Rule\_3 = 100 Area\_4 = 2500 -(Rule\_4\_LB) = 0 Distance\_0\_Rule\_4 = 25 -(Rule\_4\_LB) = -400 Distance\_1\_Rule\_4 = 100 Area\_5 = 30000 -(Rule\_5\_LB) = -150 Distance\_0\_Rule\_5 = 100 -(Rule\_5\_LB) = 0 Distance\_1\_Rule\_5 = 300 Area\_6 = 17500 -(Rule\_6\_LB) = -75 Distance\_0\_Rule\_6 = 175 -(Rule\_6\_LB) = -400 Distance\_1\_Rule\_6 = 100 Area\_7 = 15000 -(Rule\_7\_LB) = 0 Distance\_0\_Rule\_7 = 50 -(Rule\_7\_LB) = -100 Distance\_1\_Rule\_7 = 300 TMP\_595 = 125000 .

- Solution #19 found. 19 Solutions, Resolution 1.051s, 4710 Nodes (4,479.4 n/s), 9214 Backtracks, 4647 Fails, 0 Restarts

Rule\_3\_LB = 50 Rule\_3\_UB = 250 Rule\_3\_LB = 300 Rule\_3\_UB = 400 Rule\_4\_LB = 0 Rule\_4\_UB = 25 Rule\_4\_LB = 400 Rule\_4\_UB = 500 Rule\_5\_LB = 150 Rule\_5\_UB = 250 Rule\_5\_LB = 0 Rule\_5\_UB = 300 Rule\_6\_LB = 75 Rule\_6\_UB = 250 Rule\_6\_LB = 400 Rule\_6\_UB = 500 Rule\_7\_LB = 0 Rule\_7\_UB = 50 Rule\_7\_LB = 100 Rule\_7\_UB = 400 Overlaps\_0\_0 = 0 Overlaps\_0\_1 = 0 Overlaps\_0\_2 = 0 Overlaps\_0\_3 = 0 Overlaps\_0\_4 = 0 Overlaps\_0\_5 = 0 Overlaps\_0\_6 = 0 Overlaps\_0\_7 = 0 Overlaps\_1\_0 = 0 Overlaps\_1\_1 = 0 Overlaps\_1\_2 = 1 Overlaps\_1\_3 = 0 Overlaps\_1\_4 = 0 Overlaps\_1\_5 = 0 Overlaps\_1\_6 = 0 Overlaps\_1\_7 = 0 Overlaps\_2\_0 = 0 Overlaps\_2\_1 = 1 Overlaps\_2\_2 = 0 Overlaps\_2\_3 = 0 Overlaps\_2\_4 = 0 Overlaps\_2\_5 = 0 Overlaps\_2\_6 = 0 Overlaps\_2\_7 = 0 Overlaps\_3\_0 = 0 Overlaps\_3\_1 = 0 Overlaps\_3\_2 = 0 Overlaps\_3\_3 = 0 Overlaps\_3\_4 = 0 Overlaps\_3\_5 = 0 Overlaps\_3\_6 = 0 Overlaps\_3\_7 = 0 Overlaps\_4\_0 = 0 Overlaps\_4\_1 = 0 Overlaps\_4\_2 = 0 Overlaps\_4\_3 = 0 Overlaps\_4\_4 = 0 Overlaps\_4\_5 = 0 Overlaps\_4\_6 = 0 Overlaps\_4\_7 = 0 Overlaps\_5\_0 = 0 Overlaps\_5\_1 = 0 Overlaps\_5\_2 = 0 Overlaps\_5\_3 = 0 Overlaps\_5\_4 = 0 Overlaps\_5\_5 = 0 Overlaps\_5\_6 = 0 Overlaps\_5\_7 = 0 Overlaps\_6\_0 = 0 Overlaps\_6\_1 = 0 Overlaps\_6\_2 = 0 Overlaps\_6\_3 = 0 Overlaps\_6\_4 = 0 Overlaps\_6\_5 = 0 Overlaps\_6\_6 = 0 Overlaps\_6\_7 = 0 Overlaps\_7\_0 = 0 Overlaps\_7\_1 = 0 Overlaps\_7\_2 = 0 Overlaps\_7\_3 = 0 Overlaps\_7\_4 = 0 Overlaps\_7\_5 = 0 Overlaps\_7\_6 = 0 Overlaps\_7\_7 = 0 TMP\_0 = 1 not(TMP\_0) = 0 TMP\_1 = 1 not(TMP\_1) = 0 TMP\_2 = 0 not(TMP\_2) = 1 TMP\_3 = 1 not(TMP\_3) = 0 TMP\_4 = 3 TMP\_5 = 0 not(TMP\_5) = 1 TMP\_6 = 0 not(TMP\_6) = 1 TMP\_7 = 0 TMP\_8 = 1 not(TMP\_8) = 0 TMP\_9 = 1 not(TMP\_9) = 0 TMP\_10 = 2 TMP\_11 = 0 not(TMP\_11) = 1 TMP\_12 = 0 not(TMP\_12) = 1 TMP\_13 = 1 not(TMP\_13) = 0 TMP\_14 = 1 not(TMP\_14) = 0 TMP\_15 = 1 not(TMP\_15) = 0 TMP\_16 = 2 TMP\_17 = 1 not(TMP\_17) = 0 TMP\_18 = 1 not(TMP\_18) = 0 TMP\_19 = 1 not(TMP\_19) = 0 TMP\_20 = 0 not(TMP\_20) = 1 TMP\_21 = 3 TMP\_22 = 0 not(TMP\_22) = 1 TMP\_23 = 0 not(TMP\_23) = 1 TMP\_24 = 0 TMP\_25 = 1 not(TMP\_25) = 0 TMP\_26 = 1 not(TMP\_26) = 0 TMP\_27 = 2 TMP\_28 = 0 not(TMP\_28) = 1 TMP\_29 = 0 not(TMP\_29) = 1 TMP\_30 = 1 not(TMP\_30) = 0 TMP\_31 = 1 not(TMP\_31) = 0 TMP\_32 = 1 not(TMP\_32) = 0 TMP\_33 = 2 TMP\_34 = 1 not(TMP\_34) = 0 TMP\_35 = 1 not(TMP\_35) = 0 TMP\_36 = 0 not(TMP\_36) = 1 TMP\_37 = 1 not(TMP\_37) = 0 TMP\_38 = 3 TMP\_39 = 0 not(TMP\_39) = 1 TMP\_40 = 0 not(TMP\_40) = 1 TMP\_41 = 0 TMP\_42 = 1 not(TMP\_42) = 0 TMP\_43 = 1 not(TMP\_43) = 0 TMP\_44 = 2 TMP\_45 = 0 not(TMP\_45) = 1 TMP\_46 = 0 not(TMP\_46) = 1 TMP\_47 = 1 not(TMP\_47) = 0 TMP\_48 = 1 not(TMP\_48) = 0 TMP\_49 = 1 not(TMP\_49) = 0 TMP\_50 = 2 TMP\_51 = 0 not(TMP\_51) = 1 TMP\_52 = 1 not(TMP\_52) = 0 TMP\_53 = 1 not(TMP\_53) = 0 TMP\_54 = 0 not(TMP\_54) = 1 TMP\_55 = 2 TMP\_56 = 0 not(TMP\_56) = 1 TMP\_57 = 0 not(TMP\_57) = 1 TMP\_58 = 0 TMP\_59 = 1 not(TMP\_59) = 0 TMP\_60 = 1 not(TMP\_60) = 0 TMP\_61 = 2 TMP\_62 = 0 not(TMP\_62) = 1 TMP\_63 = 0 not(TMP\_63) = 1 TMP\_64 = 1 not(TMP\_64) = 0 TMP\_65 = 1 not(TMP\_65) = 0 TMP\_66 = 1 not(TMP\_66) = 0 TMP\_67 = 2 TMP\_68 = 1 not(TMP\_68) = 0 TMP\_69 = 1 not(TMP\_69) = 0 TMP\_70 = 0 not(TMP\_70) = 1 TMP\_71 = 1 not(TMP\_71) = 0 TMP\_72 = 3 TMP\_73 = 0 not(TMP\_73) = 1 TMP\_74 = 0 not(TMP\_74) = 1 TMP\_75 = 0 TMP\_76 = 1 not(TMP\_76) = 0 TMP\_77 = 1 not(TMP\_77) = 0 TMP\_78 = 2 TMP\_79 = 0 not(TMP\_79) = 1 TMP\_80 = 0 not(TMP\_80) = 1 TMP\_81 = 1 not(TMP\_81) = 0 TMP\_82 = 1 not(TMP\_82) = 0 TMP\_83 = 1 not(TMP\_83) = 0 TMP\_84 = 2 TMP\_85 = 1 not(TMP\_85) = 0 TMP\_86 = 1 not(TMP\_86) = 0 TMP\_87 = 1 not(TMP\_87) = 0 TMP\_88 = 0 not(TMP\_88) = 1 TMP\_89 = 3 TMP\_90 = 0 not(TMP\_90) = 1 TMP\_91 = 0 not(TMP\_91) = 1 TMP\_92 = 0 TMP\_93 = 1 not(TMP\_93) = 0 TMP\_94 = 1 not(TMP\_94) = 0 TMP\_95 = 2 TMP\_96 = 0 not(TMP\_96) = 1 TMP\_97 = 0 not(TMP\_97) = 1 TMP\_98 = 1 not(TMP\_98) = 0 TMP\_99 = 1 not(TMP\_99) = 0 TMP\_100 = 1 not(TMP\_100) = 0 TMP\_101 = 2 TMP\_102 = 0 not(TMP\_102) = 1 TMP\_103 = 1 not(TMP\_103) = 0 TMP\_104 = 1 not(TMP\_104) = 0 TMP\_105 = 1 not(TMP\_105) = 0 TMP\_106 = 3 TMP\_107 = 0 not(TMP\_107) = 1 TMP\_108 = 0 not(TMP\_108) = 1 TMP\_109 = 0 TMP\_110 = 1 not(TMP\_110) = 0 TMP\_111 = 1 not(TMP\_111) = 0 TMP\_112 = 2 TMP\_113 = 0 not(TMP\_113) = 1 TMP\_114 = 0 not(TMP\_114) = 1 TMP\_115 = 1 not(TMP\_115) = 0 TMP\_116 = 1 not(TMP\_116) = 0 TMP\_117 = 1 not(TMP\_117) = 0 TMP\_118 = 2 TMP\_119 = 1 not(TMP\_119) = 0 TMP\_120 = 1 not(TMP\_120) = 0 TMP\_121 = 0 not(TMP\_121) = 1 TMP\_122 = 1 not(TMP\_122) = 0 TMP\_123 = 3 TMP\_124 = 0 not(TMP\_124) = 1 TMP\_125 = 0 not(TMP\_125) = 1 TMP\_126 = 0 TMP\_127 = 1 not(TMP\_127) = 0 TMP\_128 = 1 not(TMP\_128) = 0 TMP\_129 = 2 TMP\_130 = 0 not(TMP\_130) = 1 TMP\_131 = 0 not(TMP\_131) = 1 TMP\_132 = 1 not(TMP\_132) = 0 TMP\_133 = 1 not(TMP\_133) = 0 TMP\_134 = 1 not(TMP\_134) = 0 TMP\_135 = 2 TMP\_136 = 1 not(TMP\_136) = 0 TMP\_137 = 0 not(TMP\_137) = 1 TMP\_138 = 1 not(TMP\_138) = 0 TMP\_139 = 1 not(TMP\_139) = 0 TMP\_140 = 3 TMP\_141 = 0 not(TMP\_141) = 1 TMP\_142 = 0 not(TMP\_142) = 1 TMP\_143 = 0 TMP\_144 = 1 not(TMP\_144) = 0 TMP\_145 = 1 not(TMP\_145) = 0 TMP\_146 = 2 TMP\_147 = 0 not(TMP\_147) = 1 TMP\_148 = 0 not(TMP\_148) = 1 TMP\_149 = 1 not(TMP\_149) = 0 TMP\_150 = 1 not(TMP\_150) = 0 TMP\_151 = 1 not(TMP\_151) = 0 TMP\_152 = 2 TMP\_153 = 1 not(TMP\_153) = 0 TMP\_154 = 0 not(TMP\_154) = 1 TMP\_155 = 0 not(TMP\_155) = 1 TMP\_156 = 1 not(TMP\_156) = 0 TMP\_157 = 2 TMP\_158 = 0 not(TMP\_158) = 1 TMP\_159 = 0 not(TMP\_159) = 1 TMP\_160 = 0 TMP\_161 = 1 not(TMP\_161) = 0 TMP\_162 = 1 not(TMP\_162) = 0 TMP\_163 = 2 TMP\_164 = 0 not(TMP\_164) = 1 TMP\_165 = 0 not(TMP\_165) = 1 TMP\_166 = 1 not(TMP\_166) = 0 TMP\_167 = 1 not(TMP\_167) = 0 TMP\_168 = 1 not(TMP\_168) = 0 TMP\_169 = 2 TMP\_170 = 1 not(TMP\_170) = 0 TMP\_171 = 0 not(TMP\_171) = 1 TMP\_172 = 0 not(TMP\_172) = 1 TMP\_173 = 1 not(TMP\_173) = 0 TMP\_174 = 2 TMP\_175 = 0 not(TMP\_175) = 1 TMP\_176 = 0 not(TMP\_176) = 1 TMP\_177 = 0 TMP\_178 = 1 not(TMP\_178) = 0 TMP\_179 = 1 not(TMP\_179) = 0 TMP\_180 = 2 TMP\_181 = 0 not(TMP\_181) = 1 TMP\_182 = 0 not(TMP\_182) = 1 TMP\_183 = 1 not(TMP\_183) = 0 TMP\_184 = 1 not(TMP\_184) = 0 TMP\_185 = 1 not(TMP\_185) = 0 TMP\_186 = 2 TMP\_187 = 1 not(TMP\_187) = 0 TMP\_188 = 0 not(TMP\_188) = 1 TMP\_189 = 0 not(TMP\_189) = 1 TMP\_190 = 1 not(TMP\_190) = 0 TMP\_191 = 2 TMP\_192 = 0 not(TMP\_192) = 1 TMP\_193 = 0 not(TMP\_193) = 1 TMP\_194 = 0 TMP\_195 = 1 not(TMP\_195) = 0 TMP\_196 = 1 not(TMP\_196) = 0 TMP\_197 = 2 TMP\_198 = 0 not(TMP\_198) = 1 TMP\_199 = 0 not(TMP\_199) = 1 TMP\_200 = 1 not(TMP\_200) = 0 TMP\_201 = 1 not(TMP\_201) = 0 TMP\_202 = 1 not(TMP\_202) = 0 TMP\_203 = 2 TMP\_204 = 1 not(TMP\_204) = 0 TMP\_205 = 0 not(TMP\_205) = 1 TMP\_206 = 1 not(TMP\_206) = 0 TMP\_207 = 1 not(TMP\_207) = 0 TMP\_208 = 3 TMP\_209 = 0 not(TMP\_209) = 1 TMP\_210 = 0 not(TMP\_210) = 1 TMP\_211 = 0 TMP\_212 = 1 not(TMP\_212) = 0 TMP\_213 = 1 not(TMP\_213) = 0 TMP\_214 = 2 TMP\_215 = 0 not(TMP\_215) = 1 TMP\_216 = 0 not(TMP\_216) = 1 TMP\_217 = 1 not(TMP\_217) = 0 TMP\_218 = 1 not(TMP\_218) = 0 TMP\_219 = 1 not(TMP\_219) = 0 TMP\_220 = 2 TMP\_221 = 1 not(TMP\_221) = 0 TMP\_222 = 1 not(TMP\_222) = 0 TMP\_223 = 0 not(TMP\_223) = 1 TMP\_224 = 1 not(TMP\_224) = 0 TMP\_225 = 3 TMP\_226 = 0 not(TMP\_226) = 1 TMP\_227 = 0 not(TMP\_227) = 1 TMP\_228 = 0 TMP\_229 = 1 not(TMP\_229) = 0 TMP\_230 = 1 not(TMP\_230) = 0 TMP\_231 = 2 TMP\_232 = 0 not(TMP\_232) = 1 TMP\_233 = 0 not(TMP\_233) = 1 TMP\_234 = 1 not(TMP\_234) = 0 TMP\_235 = 1 not(TMP\_235) = 0 TMP\_236 = 1 not(TMP\_236) = 0 TMP\_237 = 2 TMP\_238 = 0 not(TMP\_238) = 1 TMP\_239 = 1 not(TMP\_239) = 0 TMP\_240 = 1 not(TMP\_240) = 0 TMP\_241 = 1 not(TMP\_241) = 0 TMP\_242 = 3 TMP\_243 = 0 not(TMP\_243) = 1 TMP\_244 = 0 not(TMP\_244) = 1 TMP\_245 = 0 TMP\_246 = 1 not(TMP\_246) = 0 TMP\_247 = 1 not(TMP\_247) = 0 TMP\_248 = 2 TMP\_249 = 0 not(TMP\_249) = 1 TMP\_250 = 0 not(TMP\_250) = 1 TMP\_251 = 1 not(TMP\_251) = 0 TMP\_252 = 1 not(TMP\_252) = 0 TMP\_253 = 1 not(TMP\_253) = 0 TMP\_254 = 2 TMP\_255 = 0 not(TMP\_255) = 1 TMP\_256 = 1 not(TMP\_256) = 0 TMP\_257 = 1 not(TMP\_257) = 0 TMP\_258 = 0 not(TMP\_258) = 1 TMP\_259 = 2 TMP\_260 = 0 not(TMP\_260) = 1 TMP\_261 = 0 not(TMP\_261) = 1 TMP\_262 = 0 TMP\_263 = 1 not(TMP\_263) = 0 TMP\_264 = 1 not(TMP\_264) = 0 TMP\_265 = 2 TMP\_266 = 0 not(TMP\_266) = 1 TMP\_267 = 0 not(TMP\_267) = 1 TMP\_268 = 1 not(TMP\_268) = 0 TMP\_269 = 1 not(TMP\_269) = 0 TMP\_270 = 1 not(TMP\_270) = 0 TMP\_271 = 2 TMP\_272 = 0 not(TMP\_272) = 1 TMP\_273 = 1 not(TMP\_273) = 0 TMP\_274 = 1 not(TMP\_274) = 0 TMP\_275 = 1 not(TMP\_275) = 0 TMP\_276 = 3 TMP\_277 = 0 not(TMP\_277) = 1 TMP\_278 = 0 not(TMP\_278) = 1 TMP\_279 = 0 TMP\_280 = 1 not(TMP\_280) = 0 TMP\_281 = 1 not(TMP\_281) = 0 TMP\_282 = 2 TMP\_283 = 0 not(TMP\_283) = 1 TMP\_284 = 0 not(TMP\_284) = 1 TMP\_285 = 1 not(TMP\_285) = 0 TMP\_286 = 1 not(TMP\_286) = 0 TMP\_287 = 1 not(TMP\_287) = 0 TMP\_288 = 2 TMP\_289 = 1 not(TMP\_289) = 0 TMP\_290 = 1 not(TMP\_290) = 0 TMP\_291 = 1 not(TMP\_291) = 0 TMP\_292 = 0 not(TMP\_292) = 1 TMP\_293 = 3 TMP\_294 = 0 not(TMP\_294) = 1 TMP\_295 = 0 not(TMP\_295) = 1 TMP\_296 = 0 TMP\_297 = 1 not(TMP\_297) = 0 TMP\_298 = 1 not(TMP\_298) = 0 TMP\_299 = 2 TMP\_300 = 0 not(TMP\_300) = 1 TMP\_301 = 0 not(TMP\_301) = 1 TMP\_302 = 1 not(TMP\_302) = 0 TMP\_303 = 1 not(TMP\_303) = 0 TMP\_304 = 1 not(TMP\_304) = 0 TMP\_305 = 2 TMP\_306 = 0 not(TMP\_306) = 1 TMP\_307 = 1 not(TMP\_307) = 0 TMP\_308 = 1 not(TMP\_308) = 0 TMP\_309 = 0 not(TMP\_309) = 1 TMP\_310 = 2 TMP\_311 = 0 not(TMP\_311) = 1 TMP\_312 = 0 not(TMP\_312) = 1 TMP\_313 = 0 TMP\_314 = 1 not(TMP\_314) = 0 TMP\_315 = 1 not(TMP\_315) = 0 TMP\_316 = 2 TMP\_317 = 0 not(TMP\_317) = 1 TMP\_318 = 0 not(TMP\_318) = 1 TMP\_319 = 1 not(TMP\_319) = 0 TMP\_320 = 1 not(TMP\_320) = 0 TMP\_321 = 1 not(TMP\_321) = 0 TMP\_322 = 2 TMP\_323 = 1 not(TMP\_323) = 0 TMP\_324 = 1 not(TMP\_324) = 0 TMP\_325 = 1 not(TMP\_325) = 0 TMP\_326 = 0 not(TMP\_326) = 1 TMP\_327 = 3 TMP\_328 = 0 not(TMP\_328) = 1 TMP\_329 = 0 not(TMP\_329) = 1 TMP\_330 = 0 TMP\_331 = 1 not(TMP\_331) = 0 TMP\_332 = 1 not(TMP\_332) = 0 TMP\_333 = 2 TMP\_334 = 0 not(TMP\_334) = 1 TMP\_335 = 0 not(TMP\_335) = 1 TMP\_336 = 1 not(TMP\_336) = 0 TMP\_337 = 1 not(TMP\_337) = 0 TMP\_338 = 1 not(TMP\_338) = 0 TMP\_339 = 2 TMP\_340 = 0 not(TMP\_340) = 1 TMP\_341 = 1 not(TMP\_341) = 0 TMP\_342 = 1 not(TMP\_342) = 0 TMP\_343 = 1 not(TMP\_343) = 0 TMP\_344 = 3 TMP\_345 = 0 not(TMP\_345) = 1 TMP\_346 = 0 not(TMP\_346) = 1 TMP\_347 = 0 TMP\_348 = 1 not(TMP\_348) = 0 TMP\_349 = 1 not(TMP\_349) = 0 TMP\_350 = 2 TMP\_351 = 0 not(TMP\_351) = 1 TMP\_352 = 0 not(TMP\_352) = 1 TMP\_353 = 1 not(TMP\_353) = 0 TMP\_354 = 1 not(TMP\_354) = 0 TMP\_355 = 1 not(TMP\_355) = 0 TMP\_356 = 2 TMP\_357 = 1 not(TMP\_357) = 0 TMP\_358 = 1 not(TMP\_358) = 0 TMP\_359 = 0 not(TMP\_359) = 1 TMP\_360 = 1 not(TMP\_360) = 0 TMP\_361 = 3 TMP\_362 = 0 not(TMP\_362) = 1 TMP\_363 = 0 not(TMP\_363) = 1 TMP\_364 = 0 TMP\_365 = 1 not(TMP\_365) = 0 TMP\_366 = 1 not(TMP\_366) = 0 TMP\_367 = 2 TMP\_368 = 0 not(TMP\_368) = 1 TMP\_369 = 0 not(TMP\_369) = 1 TMP\_370 = 1 not(TMP\_370) = 0 TMP\_371 = 1 not(TMP\_371) = 0 TMP\_372 = 1 not(TMP\_372) = 0 TMP\_373 = 2 TMP\_374 = 0 not(TMP\_374) = 1 TMP\_375 = 1 not(TMP\_375) = 0 TMP\_376 = 1 not(TMP\_376) = 0 TMP\_377 = 1 not(TMP\_377) = 0 TMP\_378 = 3 TMP\_379 = 0 not(TMP\_379) = 1 TMP\_380 = 0 not(TMP\_380) = 1 TMP\_381 = 0 TMP\_382 = 1 not(TMP\_382) = 0 TMP\_383 = 1 not(TMP\_383) = 0 TMP\_384 = 2 TMP\_385 = 0 not(TMP\_385) = 1 TMP\_386 = 0 not(TMP\_386) = 1 TMP\_387 = 1 not(TMP\_387) = 0 TMP\_388 = 1 not(TMP\_388) = 0 TMP\_389 = 1 not(TMP\_389) = 0 TMP\_390 = 2 TMP\_391 = 1 not(TMP\_391) = 0 TMP\_392 = 1 not(TMP\_392) = 0 TMP\_393 = 0 not(TMP\_393) = 1 TMP\_394 = 1 not(TMP\_394) = 0 TMP\_395 = 3 TMP\_396 = 0 not(TMP\_396) = 1 TMP\_397 = 0 not(TMP\_397) = 1 TMP\_398 = 0 TMP\_399 = 1 not(TMP\_399) = 0 TMP\_400 = 1 not(TMP\_400) = 0 TMP\_401 = 2 TMP\_402 = 0 not(TMP\_402) = 1 TMP\_403 = 0 not(TMP\_403) = 1 TMP\_404 = 1 not(TMP\_404) = 0 TMP\_405 = 1 not(TMP\_405) = 0 TMP\_406 = 1 not(TMP\_406) = 0 TMP\_407 = 2 TMP\_408 = 1 not(TMP\_408) = 0 TMP\_409 = 1 not(TMP\_409) = 0 TMP\_410 = 0 not(TMP\_410) = 1 TMP\_411 = 1 not(TMP\_411) = 0 TMP\_412 = 3 TMP\_413 = 0 not(TMP\_413) = 1 TMP\_414 = 0 not(TMP\_414) = 1 TMP\_415 = 0 TMP\_416 = 1 not(TMP\_416) = 0 TMP\_417 = 1 not(TMP\_417) = 0 TMP\_418 = 2 TMP\_419 = 0 not(TMP\_419) = 1 TMP\_420 = 0 not(TMP\_420) = 1 TMP\_421 = 1 not(TMP\_421) = 0 TMP\_422 = 1 not(TMP\_422) = 0 TMP\_423 = 1 not(TMP\_423) = 0 TMP\_424 = 2 TMP\_425 = 0 not(TMP\_425) = 1 TMP\_426 = 1 not(TMP\_426) = 0 TMP\_427 = 1 not(TMP\_427) = 0 TMP\_428 = 1 not(TMP\_428) = 0 TMP\_429 = 3 TMP\_430 = 0 not(TMP\_430) = 1 TMP\_431 = 0 not(TMP\_431) = 1 TMP\_432 = 0 TMP\_433 = 1 not(TMP\_433) = 0 TMP\_434 = 1 not(TMP\_434) = 0 TMP\_435 = 2 TMP\_436 = 0 not(TMP\_436) = 1 TMP\_437 = 0 not(TMP\_437) = 1 TMP\_438 = 1 not(TMP\_438) = 0 TMP\_439 = 1 not(TMP\_439) = 0 TMP\_440 = 1 not(TMP\_440) = 0 TMP\_441 = 2 TMP\_442 = 1 not(TMP\_442) = 0 TMP\_443 = 1 not(TMP\_443) = 0 TMP\_444 = 0 not(TMP\_444) = 1 TMP\_445 = 1 not(TMP\_445) = 0 TMP\_446 = 3 TMP\_447 = 0 not(TMP\_447) = 1 TMP\_448 = 0 not(TMP\_448) = 1 TMP\_449 = 0 TMP\_450 = 1 not(TMP\_450) = 0 TMP\_451 = 1 not(TMP\_451) = 0 TMP\_452 = 2 TMP\_453 = 0 not(TMP\_453) = 1 TMP\_454 = 0 not(TMP\_454) = 1 TMP\_455 = 1 not(TMP\_455) = 0 TMP\_456 = 1 not(TMP\_456) = 0 TMP\_457 = 1 not(TMP\_457) = 0 TMP\_458 = 2 TMP\_459 = 0 not(TMP\_459) = 1 TMP\_460 = 1 not(TMP\_460) = 0 TMP\_461 = 0 not(TMP\_461) = 1 TMP\_462 = 1 not(TMP\_462) = 0 TMP\_463 = 2 TMP\_464 = 0 not(TMP\_464) = 1 TMP\_465 = 0 not(TMP\_465) = 1 TMP\_466 = 0 TMP\_467 = 1 not(TMP\_467) = 0 TMP\_468 = 1 not(TMP\_468) = 0 TMP\_469 = 2 TMP\_470 = 0 not(TMP\_470) = 1 TMP\_471 = 0 not(TMP\_471) = 1 TMP\_472 = 1 not(TMP\_472) = 0 TMP\_473 = 1 not(TMP\_473) = 0 TMP\_474 = 1 not(TMP\_474) = 0 TMP\_475 = 2 TMP\_476 = 1 not(TMP\_476) = 0 TMP\_477 = 1 not(TMP\_477) = 0 TMP\_478 = 0 not(TMP\_478) = 1 TMP\_479 = 1 not(TMP\_479) = 0 TMP\_480 = 3 TMP\_481 = 0 not(TMP\_481) = 1 TMP\_482 = 0 not(TMP\_482) = 1 TMP\_483 = 0 TMP\_484 = 1 not(TMP\_484) = 0 TMP\_485 = 1 not(TMP\_485) = 0 TMP\_486 = 2 TMP\_487 = 0 not(TMP\_487) = 1 TMP\_488 = 0 not(TMP\_488) = 1 TMP\_489 = 1 not(TMP\_489) = 0 TMP\_490 = 1 not(TMP\_490) = 0 TMP\_491 = 1 not(TMP\_491) = 0 TMP\_492 = 2 TMP\_493 = 1 not(TMP\_493) = 0 TMP\_494 = 1 not(TMP\_494) = 0 TMP\_495 = 1 not(TMP\_495) = 0 TMP\_496 = 0 not(TMP\_496) = 1 TMP\_497 = 3 TMP\_498 = 0 not(TMP\_498) = 1 TMP\_499 = 0 not(TMP\_499) = 1 TMP\_500 = 0 TMP\_501 = 1 not(TMP\_501) = 0 TMP\_502 = 1 not(TMP\_502) = 0 TMP\_503 = 2 TMP\_504 = 0 not(TMP\_504) = 1 TMP\_505 = 0 not(TMP\_505) = 1 TMP\_506 = 1 not(TMP\_506) = 0 TMP\_507 = 1 not(TMP\_507) = 0 TMP\_508 = 1 not(TMP\_508) = 0 TMP\_509 = 2 TMP\_510 = 1 not(TMP\_510) = 0 TMP\_511 = 0 not(TMP\_511) = 1 TMP\_512 = 1 not(TMP\_512) = 0 TMP\_513 = 1 not(TMP\_513) = 0 TMP\_514 = 3 TMP\_515 = 0 not(TMP\_515) = 1 TMP\_516 = 0 not(TMP\_516) = 1 TMP\_517 = 0 TMP\_518 = 1 not(TMP\_518) = 0 TMP\_519 = 1 not(TMP\_519) = 0 TMP\_520 = 2 TMP\_521 = 0 not(TMP\_521) = 1 TMP\_522 = 0 not(TMP\_522) = 1 TMP\_523 = 1 not(TMP\_523) = 0 TMP\_524 = 1 not(TMP\_524) = 0 TMP\_525 = 1 not(TMP\_525) = 0 TMP\_526 = 2 TMP\_527 = 1 not(TMP\_527) = 0 TMP\_528 = 0 not(TMP\_528) = 1 TMP\_529 = 1 not(TMP\_529) = 0 TMP\_530 = 1 not(TMP\_530) = 0 TMP\_531 = 3 TMP\_532 = 0 not(TMP\_532) = 1 TMP\_533 = 0 not(TMP\_533) = 1 TMP\_534 = 0 TMP\_535 = 1 not(TMP\_535) = 0 TMP\_536 = 1 not(TMP\_536) = 0 TMP\_537 = 2 TMP\_538 = 0 not(TMP\_538) = 1 TMP\_539 = 0 not(TMP\_539) = 1 TMP\_540 = 1 not(TMP\_540) = 0 TMP\_541 = 1 not(TMP\_541) = 0 TMP\_542 = 1 not(TMP\_542) = 0 TMP\_543 = 2 TMP\_544 = 1 not(TMP\_544) = 0 TMP\_545 = 1 not(TMP\_545) = 0 TMP\_546 = 1 not(TMP\_546) = 0 TMP\_547 = 0 not(TMP\_547) = 1 TMP\_548 = 3 TMP\_549 = 0 not(TMP\_549) = 1 TMP\_550 = 0 not(TMP\_550) = 1 TMP\_551 = 0 TMP\_552 = 1 not(TMP\_552) = 0 TMP\_553 = 1 not(TMP\_553) = 0 TMP\_554 = 2 TMP\_555 = 0 not(TMP\_555) = 1 TMP\_556 = 0 not(TMP\_556) = 1 TMP\_557 = 1 not(TMP\_557) = 0 TMP\_558 = 1 not(TMP\_558) = 0 TMP\_559 = 1 not(TMP\_559) = 0 TMP\_560 = 2 TMP\_561 = 1 not(TMP\_561) = 0 TMP\_562 = 0 not(TMP\_562) = 1 TMP\_563 = 1 not(TMP\_563) = 0 TMP\_564 = 1 not(TMP\_564) = 0 TMP\_565 = 3 TMP\_566 = 0 not(TMP\_566) = 1 TMP\_567 = 0 not(TMP\_567) = 1 TMP\_568 = 0 TMP\_569 = 1 not(TMP\_569) = 0 TMP\_570 = 1 not(TMP\_570) = 0 TMP\_571 = 2 TMP\_572 = 0 not(TMP\_572) = 1 TMP\_573 = 0 not(TMP\_573) = 1 TMP\_574 = 1 not(TMP\_574) = 0 TMP\_575 = 1 not(TMP\_575) = 0 TMP\_576 = 1 not(TMP\_576) = 0 TMP\_577 = 2 TMP\_578 = 1 not(TMP\_578) = 0 TMP\_579 = 0 not(TMP\_579) = 1 TMP\_580 = 1 not(TMP\_580) = 0 TMP\_581 = 0 not(TMP\_581) = 1 TMP\_582 = 2 TMP\_583 = 0 not(TMP\_583) = 1 TMP\_584 = 0 not(TMP\_584) = 1 TMP\_585 = 0 TMP\_586 = 1 not(TMP\_586) = 0 TMP\_587 = 1 not(TMP\_587) = 0 TMP\_588 = 2 TMP\_589 = 0 not(TMP\_589) = 1 TMP\_590 = 0 not(TMP\_590) = 1 TMP\_591 = 1 not(TMP\_591) = 0 TMP\_592 = 1 not(TMP\_592) = 0 TMP\_593 = 1 not(TMP\_593) = 0 TMP\_594 = 2 Area\_0 = 10000 Distance\_0\_Rule\_0 = 100 Distance\_1\_Rule\_0 = 100 Area\_1 = 5000 Distance\_0\_Rule\_1 = 50 Distance\_1\_Rule\_1 = 100 Area\_2 = 25000 Distance\_0\_Rule\_2 = 100 Distance\_1\_Rule\_2 = 250 Area\_3 = 20000 -(Rule\_3\_LB) = -50 Distance\_0\_Rule\_3 = 200 -(Rule\_3\_LB) = -300 Distance\_1\_Rule\_3 = 100 Area\_4 = 2500 -(Rule\_4\_LB) = 0 Distance\_0\_Rule\_4 = 25 -(Rule\_4\_LB) = -400 Distance\_1\_Rule\_4 = 100 Area\_5 = 30000 -(Rule\_5\_LB) = -150 Distance\_0\_Rule\_5 = 100 -(Rule\_5\_LB) = 0 Distance\_1\_Rule\_5 = 300 Area\_6 = 17500 -(Rule\_6\_LB) = -75 Distance\_0\_Rule\_6 = 175 -(Rule\_6\_LB) = -400 Distance\_1\_Rule\_6 = 100 Area\_7 = 15000 -(Rule\_7\_LB) = 0 Distance\_0\_Rule\_7 = 50 -(Rule\_7\_LB) = -100 Distance\_1\_Rule\_7 = 300 TMP\_595 = 125000 .

- Solution #20 found. 20 Solutions, Resolution 1.054s, 4711 Nodes (4,470.7 n/s), 9215 Backtracks, 4647 Fails, 0 Restarts

Rule\_3\_LB = 50 Rule\_3\_UB = 250 Rule\_3\_LB = 300 Rule\_3\_UB = 400 Rule\_4\_LB = 0 Rule\_4\_UB = 25 Rule\_4\_LB = 400 Rule\_4\_UB = 500 Rule\_5\_LB = 150 Rule\_5\_UB = 250 Rule\_5\_LB = 0 Rule\_5\_UB = 300 Rule\_6\_LB = 75 Rule\_6\_UB = 250 Rule\_6\_LB = 400 Rule\_6\_UB = 500 Rule\_7\_LB = 0 Rule\_7\_UB = 50 Rule\_7\_LB = 100 Rule\_7\_UB = 400 Overlaps\_0\_0 = 0 Overlaps\_0\_1 = 0 Overlaps\_0\_2 = 0 Overlaps\_0\_3 = 0 Overlaps\_0\_4 = 0 Overlaps\_0\_5 = 0 Overlaps\_0\_6 = 0 Overlaps\_0\_7 = 0 Overlaps\_1\_0 = 0 Overlaps\_1\_1 = 0 Overlaps\_1\_2 = 1 Overlaps\_1\_3 = 0 Overlaps\_1\_4 = 0 Overlaps\_1\_5 = 0 Overlaps\_1\_6 = 0 Overlaps\_1\_7 = 0 Overlaps\_2\_0 = 1 Overlaps\_2\_1 = 1 Overlaps\_2\_2 = 0 Overlaps\_2\_3 = 0 Overlaps\_2\_4 = 0 Overlaps\_2\_5 = 0 Overlaps\_2\_6 = 0 Overlaps\_2\_7 = 0 Overlaps\_3\_0 = 0 Overlaps\_3\_1 = 0 Overlaps\_3\_2 = 0 Overlaps\_3\_3 = 0 Overlaps\_3\_4 = 0 Overlaps\_3\_5 = 0 Overlaps\_3\_6 = 0 Overlaps\_3\_7 = 0 Overlaps\_4\_0 = 0 Overlaps\_4\_1 = 0 Overlaps\_4\_2 = 0 Overlaps\_4\_3 = 0 Overlaps\_4\_4 = 0 Overlaps\_4\_5 = 0 Overlaps\_4\_6 = 0 Overlaps\_4\_7 = 0 Overlaps\_5\_0 = 0 Overlaps\_5\_1 = 0 Overlaps\_5\_2 = 0 Overlaps\_5\_3 = 0 Overlaps\_5\_4 = 0 Overlaps\_5\_5 = 0 Overlaps\_5\_6 = 0 Overlaps\_5\_7 = 0 Overlaps\_6\_0 = 0 Overlaps\_6\_1 = 0 Overlaps\_6\_2 = 0 Overlaps\_6\_3 = 0 Overlaps\_6\_4 = 0 Overlaps\_6\_5 = 0 Overlaps\_6\_6 = 0 Overlaps\_6\_7 = 0 Overlaps\_7\_0 = 0 Overlaps\_7\_1 = 0 Overlaps\_7\_2 = 0 Overlaps\_7\_3 = 0 Overlaps\_7\_4 = 0 Overlaps\_7\_5 = 0 Overlaps\_7\_6 = 0 Overlaps\_7\_7 = 0 TMP\_0 = 1 not(TMP\_0) = 0 TMP\_1 = 1 not(TMP\_1) = 0 TMP\_2 = 0 not(TMP\_2) = 1 TMP\_3 = 1 not(TMP\_3) = 0 TMP\_4 = 3 TMP\_5 = 0 not(TMP\_5) = 1 TMP\_6 = 0 not(TMP\_6) = 1 TMP\_7 = 0 TMP\_8 = 1 not(TMP\_8) = 0 TMP\_9 = 1 not(TMP\_9) = 0 TMP\_10 = 2 TMP\_11 = 0 not(TMP\_11) = 1 TMP\_12 = 0 not(TMP\_12) = 1 TMP\_13 = 1 not(TMP\_13) = 0 TMP\_14 = 1 not(TMP\_14) = 0 TMP\_15 = 1 not(TMP\_15) = 0 TMP\_16 = 2 TMP\_17 = 1 not(TMP\_17) = 0 TMP\_18 = 1 not(TMP\_18) = 0 TMP\_19 = 1 not(TMP\_19) = 0 TMP\_20 = 0 not(TMP\_20) = 1 TMP\_21 = 3 TMP\_22 = 0 not(TMP\_22) = 1 TMP\_23 = 0 not(TMP\_23) = 1 TMP\_24 = 0 TMP\_25 = 1 not(TMP\_25) = 0 TMP\_26 = 1 not(TMP\_26) = 0 TMP\_27 = 2 TMP\_28 = 0 not(TMP\_28) = 1 TMP\_29 = 0 not(TMP\_29) = 1 TMP\_30 = 1 not(TMP\_30) = 0 TMP\_31 = 1 not(TMP\_31) = 0 TMP\_32 = 1 not(TMP\_32) = 0 TMP\_33 = 2 TMP\_34 = 1 not(TMP\_34) = 0 TMP\_35 = 1 not(TMP\_35) = 0 TMP\_36 = 0 not(TMP\_36) = 1 TMP\_37 = 1 not(TMP\_37) = 0 TMP\_38 = 3 TMP\_39 = 0 not(TMP\_39) = 1 TMP\_40 = 0 not(TMP\_40) = 1 TMP\_41 = 0 TMP\_42 = 1 not(TMP\_42) = 0 TMP\_43 = 1 not(TMP\_43) = 0 TMP\_44 = 2 TMP\_45 = 0 not(TMP\_45) = 1 TMP\_46 = 0 not(TMP\_46) = 1 TMP\_47 = 1 not(TMP\_47) = 0 TMP\_48 = 1 not(TMP\_48) = 0 TMP\_49 = 1 not(TMP\_49) = 0 TMP\_50 = 2 TMP\_51 = 0 not(TMP\_51) = 1 TMP\_52 = 1 not(TMP\_52) = 0 TMP\_53 = 1 not(TMP\_53) = 0 TMP\_54 = 0 not(TMP\_54) = 1 TMP\_55 = 2 TMP\_56 = 0 not(TMP\_56) = 1 TMP\_57 = 0 not(TMP\_57) = 1 TMP\_58 = 0 TMP\_59 = 1 not(TMP\_59) = 0 TMP\_60 = 1 not(TMP\_60) = 0 TMP\_61 = 2 TMP\_62 = 0 not(TMP\_62) = 1 TMP\_63 = 0 not(TMP\_63) = 1 TMP\_64 = 1 not(TMP\_64) = 0 TMP\_65 = 1 not(TMP\_65) = 0 TMP\_66 = 1 not(TMP\_66) = 0 TMP\_67 = 2 TMP\_68 = 1 not(TMP\_68) = 0 TMP\_69 = 1 not(TMP\_69) = 0 TMP\_70 = 0 not(TMP\_70) = 1 TMP\_71 = 1 not(TMP\_71) = 0 TMP\_72 = 3 TMP\_73 = 0 not(TMP\_73) = 1 TMP\_74 = 0 not(TMP\_74) = 1 TMP\_75 = 0 TMP\_76 = 1 not(TMP\_76) = 0 TMP\_77 = 1 not(TMP\_77) = 0 TMP\_78 = 2 TMP\_79 = 0 not(TMP\_79) = 1 TMP\_80 = 0 not(TMP\_80) = 1 TMP\_81 = 1 not(TMP\_81) = 0 TMP\_82 = 1 not(TMP\_82) = 0 TMP\_83 = 1 not(TMP\_83) = 0 TMP\_84 = 2 TMP\_85 = 1 not(TMP\_85) = 0 TMP\_86 = 1 not(TMP\_86) = 0 TMP\_87 = 1 not(TMP\_87) = 0 TMP\_88 = 0 not(TMP\_88) = 1 TMP\_89 = 3 TMP\_90 = 0 not(TMP\_90) = 1 TMP\_91 = 0 not(TMP\_91) = 1 TMP\_92 = 0 TMP\_93 = 1 not(TMP\_93) = 0 TMP\_94 = 1 not(TMP\_94) = 0 TMP\_95 = 2 TMP\_96 = 0 not(TMP\_96) = 1 TMP\_97 = 0 not(TMP\_97) = 1 TMP\_98 = 1 not(TMP\_98) = 0 TMP\_99 = 1 not(TMP\_99) = 0 TMP\_100 = 1 not(TMP\_100) = 0 TMP\_101 = 2 TMP\_102 = 0 not(TMP\_102) = 1 TMP\_103 = 1 not(TMP\_103) = 0 TMP\_104 = 1 not(TMP\_104) = 0 TMP\_105 = 1 not(TMP\_105) = 0 TMP\_106 = 3 TMP\_107 = 0 not(TMP\_107) = 1 TMP\_108 = 0 not(TMP\_108) = 1 TMP\_109 = 0 TMP\_110 = 1 not(TMP\_110) = 0 TMP\_111 = 1 not(TMP\_111) = 0 TMP\_112 = 2 TMP\_113 = 0 not(TMP\_113) = 1 TMP\_114 = 0 not(TMP\_114) = 1 TMP\_115 = 1 not(TMP\_115) = 0 TMP\_116 = 1 not(TMP\_116) = 0 TMP\_117 = 1 not(TMP\_117) = 0 TMP\_118 = 2 TMP\_119 = 1 not(TMP\_119) = 0 TMP\_120 = 1 not(TMP\_120) = 0 TMP\_121 = 0 not(TMP\_121) = 1 TMP\_122 = 1 not(TMP\_122) = 0 TMP\_123 = 3 TMP\_124 = 0 not(TMP\_124) = 1 TMP\_125 = 0 not(TMP\_125) = 1 TMP\_126 = 0 TMP\_127 = 1 not(TMP\_127) = 0 TMP\_128 = 1 not(TMP\_128) = 0 TMP\_129 = 2 TMP\_130 = 0 not(TMP\_130) = 1 TMP\_131 = 0 not(TMP\_131) = 1 TMP\_132 = 1 not(TMP\_132) = 0 TMP\_133 = 1 not(TMP\_133) = 0 TMP\_134 = 1 not(TMP\_134) = 0 TMP\_135 = 2 TMP\_136 = 1 not(TMP\_136) = 0 TMP\_137 = 0 not(TMP\_137) = 1 TMP\_138 = 1 not(TMP\_138) = 0 TMP\_139 = 1 not(TMP\_139) = 0 TMP\_140 = 3 TMP\_141 = 0 not(TMP\_141) = 1 TMP\_142 = 0 not(TMP\_142) = 1 TMP\_143 = 0 TMP\_144 = 1 not(TMP\_144) = 0 TMP\_145 = 1 not(TMP\_145) = 0 TMP\_146 = 2 TMP\_147 = 0 not(TMP\_147) = 1 TMP\_148 = 0 not(TMP\_148) = 1 TMP\_149 = 1 not(TMP\_149) = 0 TMP\_150 = 1 not(TMP\_150) = 0 TMP\_151 = 1 not(TMP\_151) = 0 TMP\_152 = 2 TMP\_153 = 1 not(TMP\_153) = 0 TMP\_154 = 0 not(TMP\_154) = 1 TMP\_155 = 0 not(TMP\_155) = 1 TMP\_156 = 1 not(TMP\_156) = 0 TMP\_157 = 2 TMP\_158 = 0 not(TMP\_158) = 1 TMP\_159 = 0 not(TMP\_159) = 1 TMP\_160 = 0 TMP\_161 = 1 not(TMP\_161) = 0 TMP\_162 = 1 not(TMP\_162) = 0 TMP\_163 = 2 TMP\_164 = 0 not(TMP\_164) = 1 TMP\_165 = 0 not(TMP\_165) = 1 TMP\_166 = 1 not(TMP\_166) = 0 TMP\_167 = 1 not(TMP\_167) = 0 TMP\_168 = 1 not(TMP\_168) = 0 TMP\_169 = 2 TMP\_170 = 1 not(TMP\_170) = 0 TMP\_171 = 0 not(TMP\_171) = 1 TMP\_172 = 0 not(TMP\_172) = 1 TMP\_173 = 1 not(TMP\_173) = 0 TMP\_174 = 2 TMP\_175 = 0 not(TMP\_175) = 1 TMP\_176 = 0 not(TMP\_176) = 1 TMP\_177 = 0 TMP\_178 = 1 not(TMP\_178) = 0 TMP\_179 = 1 not(TMP\_179) = 0 TMP\_180 = 2 TMP\_181 = 0 not(TMP\_181) = 1 TMP\_182 = 0 not(TMP\_182) = 1 TMP\_183 = 1 not(TMP\_183) = 0 TMP\_184 = 1 not(TMP\_184) = 0 TMP\_185 = 1 not(TMP\_185) = 0 TMP\_186 = 2 TMP\_187 = 1 not(TMP\_187) = 0 TMP\_188 = 0 not(TMP\_188) = 1 TMP\_189 = 0 not(TMP\_189) = 1 TMP\_190 = 1 not(TMP\_190) = 0 TMP\_191 = 2 TMP\_192 = 0 not(TMP\_192) = 1 TMP\_193 = 0 not(TMP\_193) = 1 TMP\_194 = 0 TMP\_195 = 1 not(TMP\_195) = 0 TMP\_196 = 1 not(TMP\_196) = 0 TMP\_197 = 2 TMP\_198 = 0 not(TMP\_198) = 1 TMP\_199 = 0 not(TMP\_199) = 1 TMP\_200 = 1 not(TMP\_200) = 0 TMP\_201 = 1 not(TMP\_201) = 0 TMP\_202 = 1 not(TMP\_202) = 0 TMP\_203 = 2 TMP\_204 = 1 not(TMP\_204) = 0 TMP\_205 = 0 not(TMP\_205) = 1 TMP\_206 = 1 not(TMP\_206) = 0 TMP\_207 = 1 not(TMP\_207) = 0 TMP\_208 = 3 TMP\_209 = 0 not(TMP\_209) = 1 TMP\_210 = 0 not(TMP\_210) = 1 TMP\_211 = 0 TMP\_212 = 1 not(TMP\_212) = 0 TMP\_213 = 1 not(TMP\_213) = 0 TMP\_214 = 2 TMP\_215 = 0 not(TMP\_215) = 1 TMP\_216 = 0 not(TMP\_216) = 1 TMP\_217 = 1 not(TMP\_217) = 0 TMP\_218 = 1 not(TMP\_218) = 0 TMP\_219 = 1 not(TMP\_219) = 0 TMP\_220 = 2 TMP\_221 = 1 not(TMP\_221) = 0 TMP\_222 = 1 not(TMP\_222) = 0 TMP\_223 = 0 not(TMP\_223) = 1 TMP\_224 = 1 not(TMP\_224) = 0 TMP\_225 = 3 TMP\_226 = 0 not(TMP\_226) = 1 TMP\_227 = 0 not(TMP\_227) = 1 TMP\_228 = 0 TMP\_229 = 1 not(TMP\_229) = 0 TMP\_230 = 1 not(TMP\_230) = 0 TMP\_231 = 2 TMP\_232 = 0 not(TMP\_232) = 1 TMP\_233 = 0 not(TMP\_233) = 1 TMP\_234 = 1 not(TMP\_234) = 0 TMP\_235 = 1 not(TMP\_235) = 0 TMP\_236 = 1 not(TMP\_236) = 0 TMP\_237 = 2 TMP\_238 = 0 not(TMP\_238) = 1 TMP\_239 = 1 not(TMP\_239) = 0 TMP\_240 = 1 not(TMP\_240) = 0 TMP\_241 = 1 not(TMP\_241) = 0 TMP\_242 = 3 TMP\_243 = 0 not(TMP\_243) = 1 TMP\_244 = 0 not(TMP\_244) = 1 TMP\_245 = 0 TMP\_246 = 1 not(TMP\_246) = 0 TMP\_247 = 1 not(TMP\_247) = 0 TMP\_248 = 2 TMP\_249 = 0 not(TMP\_249) = 1 TMP\_250 = 0 not(TMP\_250) = 1 TMP\_251 = 1 not(TMP\_251) = 0 TMP\_252 = 1 not(TMP\_252) = 0 TMP\_253 = 1 not(TMP\_253) = 0 TMP\_254 = 2 TMP\_255 = 0 not(TMP\_255) = 1 TMP\_256 = 1 not(TMP\_256) = 0 TMP\_257 = 1 not(TMP\_257) = 0 TMP\_258 = 0 not(TMP\_258) = 1 TMP\_259 = 2 TMP\_260 = 0 not(TMP\_260) = 1 TMP\_261 = 0 not(TMP\_261) = 1 TMP\_262 = 0 TMP\_263 = 1 not(TMP\_263) = 0 TMP\_264 = 1 not(TMP\_264) = 0 TMP\_265 = 2 TMP\_266 = 0 not(TMP\_266) = 1 TMP\_267 = 0 not(TMP\_267) = 1 TMP\_268 = 1 not(TMP\_268) = 0 TMP\_269 = 1 not(TMP\_269) = 0 TMP\_270 = 1 not(TMP\_270) = 0 TMP\_271 = 2 TMP\_272 = 0 not(TMP\_272) = 1 TMP\_273 = 1 not(TMP\_273) = 0 TMP\_274 = 1 not(TMP\_274) = 0 TMP\_275 = 1 not(TMP\_275) = 0 TMP\_276 = 3 TMP\_277 = 0 not(TMP\_277) = 1 TMP\_278 = 0 not(TMP\_278) = 1 TMP\_279 = 0 TMP\_280 = 1 not(TMP\_280) = 0 TMP\_281 = 1 not(TMP\_281) = 0 TMP\_282 = 2 TMP\_283 = 0 not(TMP\_283) = 1 TMP\_284 = 0 not(TMP\_284) = 1 TMP\_285 = 1 not(TMP\_285) = 0 TMP\_286 = 1 not(TMP\_286) = 0 TMP\_287 = 1 not(TMP\_287) = 0 TMP\_288 = 2 TMP\_289 = 1 not(TMP\_289) = 0 TMP\_290 = 1 not(TMP\_290) = 0 TMP\_291 = 1 not(TMP\_291) = 0 TMP\_292 = 0 not(TMP\_292) = 1 TMP\_293 = 3 TMP\_294 = 0 not(TMP\_294) = 1 TMP\_295 = 0 not(TMP\_295) = 1 TMP\_296 = 0 TMP\_297 = 1 not(TMP\_297) = 0 TMP\_298 = 1 not(TMP\_298) = 0 TMP\_299 = 2 TMP\_300 = 0 not(TMP\_300) = 1 TMP\_301 = 0 not(TMP\_301) = 1 TMP\_302 = 1 not(TMP\_302) = 0 TMP\_303 = 1 not(TMP\_303) = 0 TMP\_304 = 1 not(TMP\_304) = 0 TMP\_305 = 2 TMP\_306 = 0 not(TMP\_306) = 1 TMP\_307 = 1 not(TMP\_307) = 0 TMP\_308 = 1 not(TMP\_308) = 0 TMP\_309 = 0 not(TMP\_309) = 1 TMP\_310 = 2 TMP\_311 = 0 not(TMP\_311) = 1 TMP\_312 = 0 not(TMP\_312) = 1 TMP\_313 = 0 TMP\_314 = 1 not(TMP\_314) = 0 TMP\_315 = 1 not(TMP\_315) = 0 TMP\_316 = 2 TMP\_317 = 0 not(TMP\_317) = 1 TMP\_318 = 0 not(TMP\_318) = 1 TMP\_319 = 1 not(TMP\_319) = 0 TMP\_320 = 1 not(TMP\_320) = 0 TMP\_321 = 1 not(TMP\_321) = 0 TMP\_322 = 2 TMP\_323 = 1 not(TMP\_323) = 0 TMP\_324 = 1 not(TMP\_324) = 0 TMP\_325 = 1 not(TMP\_325) = 0 TMP\_326 = 0 not(TMP\_326) = 1 TMP\_327 = 3 TMP\_328 = 0 not(TMP\_328) = 1 TMP\_329 = 0 not(TMP\_329) = 1 TMP\_330 = 0 TMP\_331 = 1 not(TMP\_331) = 0 TMP\_332 = 1 not(TMP\_332) = 0 TMP\_333 = 2 TMP\_334 = 0 not(TMP\_334) = 1 TMP\_335 = 0 not(TMP\_335) = 1 TMP\_336 = 1 not(TMP\_336) = 0 TMP\_337 = 1 not(TMP\_337) = 0 TMP\_338 = 1 not(TMP\_338) = 0 TMP\_339 = 2 TMP\_340 = 0 not(TMP\_340) = 1 TMP\_341 = 1 not(TMP\_341) = 0 TMP\_342 = 1 not(TMP\_342) = 0 TMP\_343 = 1 not(TMP\_343) = 0 TMP\_344 = 3 TMP\_345 = 0 not(TMP\_345) = 1 TMP\_346 = 0 not(TMP\_346) = 1 TMP\_347 = 0 TMP\_348 = 1 not(TMP\_348) = 0 TMP\_349 = 1 not(TMP\_349) = 0 TMP\_350 = 2 TMP\_351 = 0 not(TMP\_351) = 1 TMP\_352 = 0 not(TMP\_352) = 1 TMP\_353 = 1 not(TMP\_353) = 0 TMP\_354 = 1 not(TMP\_354) = 0 TMP\_355 = 1 not(TMP\_355) = 0 TMP\_356 = 2 TMP\_357 = 1 not(TMP\_357) = 0 TMP\_358 = 1 not(TMP\_358) = 0 TMP\_359 = 0 not(TMP\_359) = 1 TMP\_360 = 1 not(TMP\_360) = 0 TMP\_361 = 3 TMP\_362 = 0 not(TMP\_362) = 1 TMP\_363 = 0 not(TMP\_363) = 1 TMP\_364 = 0 TMP\_365 = 1 not(TMP\_365) = 0 TMP\_366 = 1 not(TMP\_366) = 0 TMP\_367 = 2 TMP\_368 = 0 not(TMP\_368) = 1 TMP\_369 = 0 not(TMP\_369) = 1 TMP\_370 = 1 not(TMP\_370) = 0 TMP\_371 = 1 not(TMP\_371) = 0 TMP\_372 = 1 not(TMP\_372) = 0 TMP\_373 = 2 TMP\_374 = 0 not(TMP\_374) = 1 TMP\_375 = 1 not(TMP\_375) = 0 TMP\_376 = 1 not(TMP\_376) = 0 TMP\_377 = 1 not(TMP\_377) = 0 TMP\_378 = 3 TMP\_379 = 0 not(TMP\_379) = 1 TMP\_380 = 0 not(TMP\_380) = 1 TMP\_381 = 0 TMP\_382 = 1 not(TMP\_382) = 0 TMP\_383 = 1 not(TMP\_383) = 0 TMP\_384 = 2 TMP\_385 = 0 not(TMP\_385) = 1 TMP\_386 = 0 not(TMP\_386) = 1 TMP\_387 = 1 not(TMP\_387) = 0 TMP\_388 = 1 not(TMP\_388) = 0 TMP\_389 = 1 not(TMP\_389) = 0 TMP\_390 = 2 TMP\_391 = 1 not(TMP\_391) = 0 TMP\_392 = 1 not(TMP\_392) = 0 TMP\_393 = 0 not(TMP\_393) = 1 TMP\_394 = 1 not(TMP\_394) = 0 TMP\_395 = 3 TMP\_396 = 0 not(TMP\_396) = 1 TMP\_397 = 0 not(TMP\_397) = 1 TMP\_398 = 0 TMP\_399 = 1 not(TMP\_399) = 0 TMP\_400 = 1 not(TMP\_400) = 0 TMP\_401 = 2 TMP\_402 = 0 not(TMP\_402) = 1 TMP\_403 = 0 not(TMP\_403) = 1 TMP\_404 = 1 not(TMP\_404) = 0 TMP\_405 = 1 not(TMP\_405) = 0 TMP\_406 = 1 not(TMP\_406) = 0 TMP\_407 = 2 TMP\_408 = 1 not(TMP\_408) = 0 TMP\_409 = 1 not(TMP\_409) = 0 TMP\_410 = 0 not(TMP\_410) = 1 TMP\_411 = 1 not(TMP\_411) = 0 TMP\_412 = 3 TMP\_413 = 0 not(TMP\_413) = 1 TMP\_414 = 0 not(TMP\_414) = 1 TMP\_415 = 0 TMP\_416 = 1 not(TMP\_416) = 0 TMP\_417 = 1 not(TMP\_417) = 0 TMP\_418 = 2 TMP\_419 = 0 not(TMP\_419) = 1 TMP\_420 = 0 not(TMP\_420) = 1 TMP\_421 = 1 not(TMP\_421) = 0 TMP\_422 = 1 not(TMP\_422) = 0 TMP\_423 = 1 not(TMP\_423) = 0 TMP\_424 = 2 TMP\_425 = 0 not(TMP\_425) = 1 TMP\_426 = 1 not(TMP\_426) = 0 TMP\_427 = 1 not(TMP\_427) = 0 TMP\_428 = 1 not(TMP\_428) = 0 TMP\_429 = 3 TMP\_430 = 0 not(TMP\_430) = 1 TMP\_431 = 0 not(TMP\_431) = 1 TMP\_432 = 0 TMP\_433 = 1 not(TMP\_433) = 0 TMP\_434 = 1 not(TMP\_434) = 0 TMP\_435 = 2 TMP\_436 = 0 not(TMP\_436) = 1 TMP\_437 = 0 not(TMP\_437) = 1 TMP\_438 = 1 not(TMP\_438) = 0 TMP\_439 = 1 not(TMP\_439) = 0 TMP\_440 = 1 not(TMP\_440) = 0 TMP\_441 = 2 TMP\_442 = 1 not(TMP\_442) = 0 TMP\_443 = 1 not(TMP\_443) = 0 TMP\_444 = 0 not(TMP\_444) = 1 TMP\_445 = 1 not(TMP\_445) = 0 TMP\_446 = 3 TMP\_447 = 0 not(TMP\_447) = 1 TMP\_448 = 0 not(TMP\_448) = 1 TMP\_449 = 0 TMP\_450 = 1 not(TMP\_450) = 0 TMP\_451 = 1 not(TMP\_451) = 0 TMP\_452 = 2 TMP\_453 = 0 not(TMP\_453) = 1 TMP\_454 = 0 not(TMP\_454) = 1 TMP\_455 = 1 not(TMP\_455) = 0 TMP\_456 = 1 not(TMP\_456) = 0 TMP\_457 = 1 not(TMP\_457) = 0 TMP\_458 = 2 TMP\_459 = 0 not(TMP\_459) = 1 TMP\_460 = 1 not(TMP\_460) = 0 TMP\_461 = 0 not(TMP\_461) = 1 TMP\_462 = 1 not(TMP\_462) = 0 TMP\_463 = 2 TMP\_464 = 0 not(TMP\_464) = 1 TMP\_465 = 0 not(TMP\_465) = 1 TMP\_466 = 0 TMP\_467 = 1 not(TMP\_467) = 0 TMP\_468 = 1 not(TMP\_468) = 0 TMP\_469 = 2 TMP\_470 = 0 not(TMP\_470) = 1 TMP\_471 = 0 not(TMP\_471) = 1 TMP\_472 = 1 not(TMP\_472) = 0 TMP\_473 = 1 not(TMP\_473) = 0 TMP\_474 = 1 not(TMP\_474) = 0 TMP\_475 = 2 TMP\_476 = 1 not(TMP\_476) = 0 TMP\_477 = 1 not(TMP\_477) = 0 TMP\_478 = 0 not(TMP\_478) = 1 TMP\_479 = 1 not(TMP\_479) = 0 TMP\_480 = 3 TMP\_481 = 0 not(TMP\_481) = 1 TMP\_482 = 0 not(TMP\_482) = 1 TMP\_483 = 0 TMP\_484 = 1 not(TMP\_484) = 0 TMP\_485 = 1 not(TMP\_485) = 0 TMP\_486 = 2 TMP\_487 = 0 not(TMP\_487) = 1 TMP\_488 = 0 not(TMP\_488) = 1 TMP\_489 = 1 not(TMP\_489) = 0 TMP\_490 = 1 not(TMP\_490) = 0 TMP\_491 = 1 not(TMP\_491) = 0 TMP\_492 = 2 TMP\_493 = 1 not(TMP\_493) = 0 TMP\_494 = 1 not(TMP\_494) = 0 TMP\_495 = 1 not(TMP\_495) = 0 TMP\_496 = 0 not(TMP\_496) = 1 TMP\_497 = 3 TMP\_498 = 0 not(TMP\_498) = 1 TMP\_499 = 0 not(TMP\_499) = 1 TMP\_500 = 0 TMP\_501 = 1 not(TMP\_501) = 0 TMP\_502 = 1 not(TMP\_502) = 0 TMP\_503 = 2 TMP\_504 = 0 not(TMP\_504) = 1 TMP\_505 = 0 not(TMP\_505) = 1 TMP\_506 = 1 not(TMP\_506) = 0 TMP\_507 = 1 not(TMP\_507) = 0 TMP\_508 = 1 not(TMP\_508) = 0 TMP\_509 = 2 TMP\_510 = 1 not(TMP\_510) = 0 TMP\_511 = 0 not(TMP\_511) = 1 TMP\_512 = 1 not(TMP\_512) = 0 TMP\_513 = 1 not(TMP\_513) = 0 TMP\_514 = 3 TMP\_515 = 0 not(TMP\_515) = 1 TMP\_516 = 0 not(TMP\_516) = 1 TMP\_517 = 0 TMP\_518 = 1 not(TMP\_518) = 0 TMP\_519 = 1 not(TMP\_519) = 0 TMP\_520 = 2 TMP\_521 = 0 not(TMP\_521) = 1 TMP\_522 = 0 not(TMP\_522) = 1 TMP\_523 = 1 not(TMP\_523) = 0 TMP\_524 = 1 not(TMP\_524) = 0 TMP\_525 = 1 not(TMP\_525) = 0 TMP\_526 = 2 TMP\_527 = 1 not(TMP\_527) = 0 TMP\_528 = 0 not(TMP\_528) = 1 TMP\_529 = 1 not(TMP\_529) = 0 TMP\_530 = 1 not(TMP\_530) = 0 TMP\_531 = 3 TMP\_532 = 0 not(TMP\_532) = 1 TMP\_533 = 0 not(TMP\_533) = 1 TMP\_534 = 0 TMP\_535 = 1 not(TMP\_535) = 0 TMP\_536 = 1 not(TMP\_536) = 0 TMP\_537 = 2 TMP\_538 = 0 not(TMP\_538) = 1 TMP\_539 = 0 not(TMP\_539) = 1 TMP\_540 = 1 not(TMP\_540) = 0 TMP\_541 = 1 not(TMP\_541) = 0 TMP\_542 = 1 not(TMP\_542) = 0 TMP\_543 = 2 TMP\_544 = 1 not(TMP\_544) = 0 TMP\_545 = 1 not(TMP\_545) = 0 TMP\_546 = 1 not(TMP\_546) = 0 TMP\_547 = 0 not(TMP\_547) = 1 TMP\_548 = 3 TMP\_549 = 0 not(TMP\_549) = 1 TMP\_550 = 0 not(TMP\_550) = 1 TMP\_551 = 0 TMP\_552 = 1 not(TMP\_552) = 0 TMP\_553 = 1 not(TMP\_553) = 0 TMP\_554 = 2 TMP\_555 = 0 not(TMP\_555) = 1 TMP\_556 = 0 not(TMP\_556) = 1 TMP\_557 = 1 not(TMP\_557) = 0 TMP\_558 = 1 not(TMP\_558) = 0 TMP\_559 = 1 not(TMP\_559) = 0 TMP\_560 = 2 TMP\_561 = 1 not(TMP\_561) = 0 TMP\_562 = 0 not(TMP\_562) = 1 TMP\_563 = 1 not(TMP\_563) = 0 TMP\_564 = 1 not(TMP\_564) = 0 TMP\_565 = 3 TMP\_566 = 0 not(TMP\_566) = 1 TMP\_567 = 0 not(TMP\_567) = 1 TMP\_568 = 0 TMP\_569 = 1 not(TMP\_569) = 0 TMP\_570 = 1 not(TMP\_570) = 0 TMP\_571 = 2 TMP\_572 = 0 not(TMP\_572) = 1 TMP\_573 = 0 not(TMP\_573) = 1 TMP\_574 = 1 not(TMP\_574) = 0 TMP\_575 = 1 not(TMP\_575) = 0 TMP\_576 = 1 not(TMP\_576) = 0 TMP\_577 = 2 TMP\_578 = 1 not(TMP\_578) = 0 TMP\_579 = 0 not(TMP\_579) = 1 TMP\_580 = 1 not(TMP\_580) = 0 TMP\_581 = 0 not(TMP\_581) = 1 TMP\_582 = 2 TMP\_583 = 0 not(TMP\_583) = 1 TMP\_584 = 0 not(TMP\_584) = 1 TMP\_585 = 0 TMP\_586 = 1 not(TMP\_586) = 0 TMP\_587 = 1 not(TMP\_587) = 0 TMP\_588 = 2 TMP\_589 = 0 not(TMP\_589) = 1 TMP\_590 = 0 not(TMP\_590) = 1 TMP\_591 = 1 not(TMP\_591) = 0 TMP\_592 = 1 not(TMP\_592) = 0 TMP\_593 = 1 not(TMP\_593) = 0 TMP\_594 = 2 Area\_0 = 10000 Distance\_0\_Rule\_0 = 100 Distance\_1\_Rule\_0 = 100 Area\_1 = 5000 Distance\_0\_Rule\_1 = 50 Distance\_1\_Rule\_1 = 100 Area\_2 = 25000 Distance\_0\_Rule\_2 = 100 Distance\_1\_Rule\_2 = 250 Area\_3 = 20000 -(Rule\_3\_LB) = -50 Distance\_0\_Rule\_3 = 200 -(Rule\_3\_LB) = -300 Distance\_1\_Rule\_3 = 100 Area\_4 = 2500 -(Rule\_4\_LB) = 0 Distance\_0\_Rule\_4 = 25 -(Rule\_4\_LB) = -400 Distance\_1\_Rule\_4 = 100 Area\_5 = 30000 -(Rule\_5\_LB) = -150 Distance\_0\_Rule\_5 = 100 -(Rule\_5\_LB) = 0 Distance\_1\_Rule\_5 = 300 Area\_6 = 17500 -(Rule\_6\_LB) = -75 Distance\_0\_Rule\_6 = 175 -(Rule\_6\_LB) = -400 Distance\_1\_Rule\_6 = 100 Area\_7 = 15000 -(Rule\_7\_LB) = 0 Distance\_0\_Rule\_7 = 50 -(Rule\_7\_LB) = -100 Distance\_1\_Rule\_7 = 300 TMP\_595 = 125000 .

- Incomplete search - Limit reached.

Solutions: 20

Building time : 0.107s

Initialisation : 0.000s

Initial propagation : 0.030s

Resolution : 1.055s

Nodes: 4,711 (4,463.7 n/s)

Backtracks: 9,215

Fails: 4,647

Restarts: 0

Max depth: 379

Memory: -16mb

Variables: 1,190

Constraints: 1,221

# Risk Rating

## Rules = 1 - Missing Rules = 2

- Solution #1 found. 1 Solutions, Resolution 0.019s, 5 Nodes (264.7 n/s), 0 Backtracks, 0 Fails, 0 Restarts

Rule\_1\_LB = 60 Rule\_1\_UB = 120 Rule\_1\_LB = 1 Rule\_1\_UB = 2 Rule\_2\_LB = 0 Rule\_2\_UB = 60 Rule\_2\_LB = 0 Rule\_2\_UB = 2 Overlaps\_0\_0 = 0 Overlaps\_0\_1 = 0 Overlaps\_0\_2 = 0 Overlaps\_1\_0 = 0 Overlaps\_1\_1 = 0 Overlaps\_1\_2 = 0 Overlaps\_2\_0 = 0 Overlaps\_2\_1 = 0 Overlaps\_2\_2 = 0 TMP\_0 = 1 not(TMP\_0) = 0 TMP\_1 = 1 not(TMP\_1) = 0 TMP\_2 = 1 not(TMP\_2) = 0 TMP\_3 = 0 not(TMP\_3) = 1 TMP\_4 = 3 TMP\_5 = 0 not(TMP\_5) = 1 TMP\_6 = 0 not(TMP\_6) = 1 TMP\_7 = 0 TMP\_8 = 1 not(TMP\_8) = 0 TMP\_9 = 1 not(TMP\_9) = 0 TMP\_10 = 2 TMP\_11 = 0 not(TMP\_11) = 1 TMP\_12 = 0 not(TMP\_12) = 1 TMP\_13 = 1 not(TMP\_13) = 0 TMP\_14 = 1 not(TMP\_14) = 0 TMP\_15 = 1 not(TMP\_15) = 0 TMP\_16 = 2 TMP\_17 = 0 not(TMP\_17) = 1 TMP\_18 = 1 not(TMP\_18) = 0 TMP\_19 = 1 not(TMP\_19) = 0 TMP\_20 = 1 not(TMP\_20) = 0 TMP\_21 = 3 TMP\_22 = 0 not(TMP\_22) = 1 TMP\_23 = 0 not(TMP\_23) = 1 TMP\_24 = 0 TMP\_25 = 1 not(TMP\_25) = 0 TMP\_26 = 1 not(TMP\_26) = 0 TMP\_27 = 2 TMP\_28 = 0 not(TMP\_28) = 1 TMP\_29 = 0 not(TMP\_29) = 1 TMP\_30 = 1 not(TMP\_30) = 0 TMP\_31 = 1 not(TMP\_31) = 0 TMP\_32 = 1 not(TMP\_32) = 0 TMP\_33 = 2 TMP\_34 = 1 not(TMP\_34) = 0 TMP\_35 = 1 not(TMP\_35) = 0 TMP\_36 = 0 not(TMP\_36) = 1 TMP\_37 = 1 not(TMP\_37) = 0 TMP\_38 = 3 TMP\_39 = 0 not(TMP\_39) = 1 TMP\_40 = 0 not(TMP\_40) = 1 TMP\_41 = 0 TMP\_42 = 1 not(TMP\_42) = 0 TMP\_43 = 1 not(TMP\_43) = 0 TMP\_44 = 2 TMP\_45 = 0 not(TMP\_45) = 1 TMP\_46 = 0 not(TMP\_46) = 1 TMP\_47 = 1 not(TMP\_47) = 0 TMP\_48 = 1 not(TMP\_48) = 0 TMP\_49 = 1 not(TMP\_49) = 0 TMP\_50 = 2 TMP\_51 = 0 not(TMP\_51) = 1 TMP\_52 = 1 not(TMP\_52) = 0 TMP\_53 = 1 not(TMP\_53) = 0 TMP\_54 = 1 not(TMP\_54) = 0 TMP\_55 = 3 TMP\_56 = 0 not(TMP\_56) = 1 TMP\_57 = 0 not(TMP\_57) = 1 TMP\_58 = 0 TMP\_59 = 1 not(TMP\_59) = 0 TMP\_60 = 1 not(TMP\_60) = 0 TMP\_61 = 2 TMP\_62 = 0 not(TMP\_62) = 1 TMP\_63 = 0 not(TMP\_63) = 1 TMP\_64 = 1 not(TMP\_64) = 0 TMP\_65 = 1 not(TMP\_65) = 0 TMP\_66 = 1 not(TMP\_66) = 0 TMP\_67 = 2 TMP\_68 = 1 not(TMP\_68) = 0 TMP\_69 = 0 not(TMP\_69) = 1 TMP\_70 = 1 not(TMP\_70) = 0 TMP\_71 = 1 not(TMP\_71) = 0 TMP\_72 = 3 TMP\_73 = 0 not(TMP\_73) = 1 TMP\_74 = 0 not(TMP\_74) = 1 TMP\_75 = 0 TMP\_76 = 1 not(TMP\_76) = 0 TMP\_77 = 1 not(TMP\_77) = 0 TMP\_78 = 2 TMP\_79 = 0 not(TMP\_79) = 1 TMP\_80 = 0 not(TMP\_80) = 1 TMP\_81 = 1 not(TMP\_81) = 0 TMP\_82 = 1 not(TMP\_82) = 0 TMP\_83 = 1 not(TMP\_83) = 0 TMP\_84 = 2 TMP\_85 = 1 not(TMP\_85) = 0 TMP\_86 = 0 not(TMP\_86) = 1 TMP\_87 = 1 not(TMP\_87) = 0 TMP\_88 = 1 not(TMP\_88) = 0 TMP\_89 = 3 TMP\_90 = 0 not(TMP\_90) = 1 TMP\_91 = 0 not(TMP\_91) = 1 TMP\_92 = 0 TMP\_93 = 1 not(TMP\_93) = 0 TMP\_94 = 1 not(TMP\_94) = 0 TMP\_95 = 2 TMP\_96 = 0 not(TMP\_96) = 1 TMP\_97 = 0 not(TMP\_97) = 1 TMP\_98 = 1 not(TMP\_98) = 0 TMP\_99 = 1 not(TMP\_99) = 0 TMP\_100 = 1 not(TMP\_100) = 0 TMP\_101 = 2 Area\_0 = 60 Distance\_0\_Rule\_0 = 60 Distance\_1\_Rule\_0 = 1 Area\_1 = 60 -(Rule\_1\_LB) = -60 Distance\_0\_Rule\_1 = 60 -(Rule\_1\_LB) = -1 Distance\_1\_Rule\_1 = 1 Area\_2 = 120 -(Rule\_2\_LB) = 0 Distance\_0\_Rule\_2 = 60 -(Rule\_2\_LB) = 0 Distance\_1\_Rule\_2 = 2 TMP\_102 = 240 .

- Solution #2 found. 2 Solutions, Resolution 0.025s, 6 Nodes (244.6 n/s), 3 Backtracks, 1 Fails, 0 Restarts

Rule\_1\_LB = 0 Rule\_1\_UB = 120 Rule\_1\_LB = 1 Rule\_1\_UB = 2 Rule\_2\_LB = 0 Rule\_2\_UB = 60 Rule\_2\_LB = 0 Rule\_2\_UB = 1 Overlaps\_0\_0 = 0 Overlaps\_0\_1 = 0 Overlaps\_0\_2 = 0 Overlaps\_1\_0 = 0 Overlaps\_1\_1 = 0 Overlaps\_1\_2 = 0 Overlaps\_2\_0 = 0 Overlaps\_2\_1 = 0 Overlaps\_2\_2 = 0 TMP\_0 = 1 not(TMP\_0) = 0 TMP\_1 = 1 not(TMP\_1) = 0 TMP\_2 = 1 not(TMP\_2) = 0 TMP\_3 = 0 not(TMP\_3) = 1 TMP\_4 = 3 TMP\_5 = 0 not(TMP\_5) = 1 TMP\_6 = 0 not(TMP\_6) = 1 TMP\_7 = 0 TMP\_8 = 1 not(TMP\_8) = 0 TMP\_9 = 1 not(TMP\_9) = 0 TMP\_10 = 2 TMP\_11 = 0 not(TMP\_11) = 1 TMP\_12 = 0 not(TMP\_12) = 1 TMP\_13 = 1 not(TMP\_13) = 0 TMP\_14 = 1 not(TMP\_14) = 0 TMP\_15 = 1 not(TMP\_15) = 0 TMP\_16 = 2 TMP\_17 = 0 not(TMP\_17) = 1 TMP\_18 = 1 not(TMP\_18) = 0 TMP\_19 = 1 not(TMP\_19) = 0 TMP\_20 = 1 not(TMP\_20) = 0 TMP\_21 = 3 TMP\_22 = 0 not(TMP\_22) = 1 TMP\_23 = 0 not(TMP\_23) = 1 TMP\_24 = 0 TMP\_25 = 1 not(TMP\_25) = 0 TMP\_26 = 1 not(TMP\_26) = 0 TMP\_27 = 2 TMP\_28 = 0 not(TMP\_28) = 1 TMP\_29 = 0 not(TMP\_29) = 1 TMP\_30 = 1 not(TMP\_30) = 0 TMP\_31 = 1 not(TMP\_31) = 0 TMP\_32 = 1 not(TMP\_32) = 0 TMP\_33 = 2 TMP\_34 = 1 not(TMP\_34) = 0 TMP\_35 = 1 not(TMP\_35) = 0 TMP\_36 = 0 not(TMP\_36) = 1 TMP\_37 = 1 not(TMP\_37) = 0 TMP\_38 = 3 TMP\_39 = 0 not(TMP\_39) = 1 TMP\_40 = 0 not(TMP\_40) = 1 TMP\_41 = 0 TMP\_42 = 1 not(TMP\_42) = 0 TMP\_43 = 1 not(TMP\_43) = 0 TMP\_44 = 2 TMP\_45 = 0 not(TMP\_45) = 1 TMP\_46 = 0 not(TMP\_46) = 1 TMP\_47 = 1 not(TMP\_47) = 0 TMP\_48 = 1 not(TMP\_48) = 0 TMP\_49 = 1 not(TMP\_49) = 0 TMP\_50 = 2 TMP\_51 = 1 not(TMP\_51) = 0 TMP\_52 = 1 not(TMP\_52) = 0 TMP\_53 = 0 not(TMP\_53) = 1 TMP\_54 = 1 not(TMP\_54) = 0 TMP\_55 = 3 TMP\_56 = 0 not(TMP\_56) = 1 TMP\_57 = 0 not(TMP\_57) = 1 TMP\_58 = 0 TMP\_59 = 1 not(TMP\_59) = 0 TMP\_60 = 1 not(TMP\_60) = 0 TMP\_61 = 2 TMP\_62 = 0 not(TMP\_62) = 1 TMP\_63 = 0 not(TMP\_63) = 1 TMP\_64 = 1 not(TMP\_64) = 0 TMP\_65 = 1 not(TMP\_65) = 0 TMP\_66 = 1 not(TMP\_66) = 0 TMP\_67 = 2 TMP\_68 = 1 not(TMP\_68) = 0 TMP\_69 = 0 not(TMP\_69) = 1 TMP\_70 = 1 not(TMP\_70) = 0 TMP\_71 = 1 not(TMP\_71) = 0 TMP\_72 = 3 TMP\_73 = 0 not(TMP\_73) = 1 TMP\_74 = 0 not(TMP\_74) = 1 TMP\_75 = 0 TMP\_76 = 1 not(TMP\_76) = 0 TMP\_77 = 1 not(TMP\_77) = 0 TMP\_78 = 2 TMP\_79 = 0 not(TMP\_79) = 1 TMP\_80 = 0 not(TMP\_80) = 1 TMP\_81 = 1 not(TMP\_81) = 0 TMP\_82 = 1 not(TMP\_82) = 0 TMP\_83 = 1 not(TMP\_83) = 0 TMP\_84 = 2 TMP\_85 = 1 not(TMP\_85) = 0 TMP\_86 = 1 not(TMP\_86) = 0 TMP\_87 = 1 not(TMP\_87) = 0 TMP\_88 = 0 not(TMP\_88) = 1 TMP\_89 = 3 TMP\_90 = 0 not(TMP\_90) = 1 TMP\_91 = 0 not(TMP\_91) = 1 TMP\_92 = 0 TMP\_93 = 1 not(TMP\_93) = 0 TMP\_94 = 1 not(TMP\_94) = 0 TMP\_95 = 2 TMP\_96 = 0 not(TMP\_96) = 1 TMP\_97 = 0 not(TMP\_97) = 1 TMP\_98 = 1 not(TMP\_98) = 0 TMP\_99 = 1 not(TMP\_99) = 0 TMP\_100 = 1 not(TMP\_100) = 0 TMP\_101 = 2 Area\_0 = 60 Distance\_0\_Rule\_0 = 60 Distance\_1\_Rule\_0 = 1 Area\_1 = 120 -(Rule\_1\_LB) = 0 Distance\_0\_Rule\_1 = 120 -(Rule\_1\_LB) = -1 Distance\_1\_Rule\_1 = 1 Area\_2 = 60 -(Rule\_2\_LB) = 0 Distance\_0\_Rule\_2 = 60 -(Rule\_2\_LB) = 0 Distance\_1\_Rule\_2 = 1 TMP\_102 = 240 .

- Solution #3 found. 3 Solutions, Resolution 0.030s, 9 Nodes (299.4 n/s), 8 Backtracks, 3 Fails, 0 Restarts

Rule\_1\_LB = 0 Rule\_1\_UB = 60 Rule\_1\_LB = 0 Rule\_1\_UB = 2 Rule\_2\_LB = 60 Rule\_2\_UB = 120 Rule\_2\_LB = 1 Rule\_2\_UB = 2 Overlaps\_0\_0 = 0 Overlaps\_0\_1 = 0 Overlaps\_0\_2 = 0 Overlaps\_1\_0 = 0 Overlaps\_1\_1 = 0 Overlaps\_1\_2 = 0 Overlaps\_2\_0 = 0 Overlaps\_2\_1 = 0 Overlaps\_2\_2 = 0 TMP\_0 = 0 not(TMP\_0) = 1 TMP\_1 = 1 not(TMP\_1) = 0 TMP\_2 = 1 not(TMP\_2) = 0 TMP\_3 = 1 not(TMP\_3) = 0 TMP\_4 = 3 TMP\_5 = 0 not(TMP\_5) = 1 TMP\_6 = 0 not(TMP\_6) = 1 TMP\_7 = 0 TMP\_8 = 1 not(TMP\_8) = 0 TMP\_9 = 1 not(TMP\_9) = 0 TMP\_10 = 2 TMP\_11 = 0 not(TMP\_11) = 1 TMP\_12 = 0 not(TMP\_12) = 1 TMP\_13 = 1 not(TMP\_13) = 0 TMP\_14 = 1 not(TMP\_14) = 0 TMP\_15 = 1 not(TMP\_15) = 0 TMP\_16 = 2 TMP\_17 = 1 not(TMP\_17) = 0 TMP\_18 = 1 not(TMP\_18) = 0 TMP\_19 = 1 not(TMP\_19) = 0 TMP\_20 = 0 not(TMP\_20) = 1 TMP\_21 = 3 TMP\_22 = 0 not(TMP\_22) = 1 TMP\_23 = 0 not(TMP\_23) = 1 TMP\_24 = 0 TMP\_25 = 1 not(TMP\_25) = 0 TMP\_26 = 1 not(TMP\_26) = 0 TMP\_27 = 2 TMP\_28 = 0 not(TMP\_28) = 1 TMP\_29 = 0 not(TMP\_29) = 1 TMP\_30 = 1 not(TMP\_30) = 0 TMP\_31 = 1 not(TMP\_31) = 0 TMP\_32 = 1 not(TMP\_32) = 0 TMP\_33 = 2 TMP\_34 = 1 not(TMP\_34) = 0 TMP\_35 = 0 not(TMP\_35) = 1 TMP\_36 = 1 not(TMP\_36) = 0 TMP\_37 = 1 not(TMP\_37) = 0 TMP\_38 = 3 TMP\_39 = 0 not(TMP\_39) = 1 TMP\_40 = 0 not(TMP\_40) = 1 TMP\_41 = 0 TMP\_42 = 1 not(TMP\_42) = 0 TMP\_43 = 1 not(TMP\_43) = 0 TMP\_44 = 2 TMP\_45 = 0 not(TMP\_45) = 1 TMP\_46 = 0 not(TMP\_46) = 1 TMP\_47 = 1 not(TMP\_47) = 0 TMP\_48 = 1 not(TMP\_48) = 0 TMP\_49 = 1 not(TMP\_49) = 0 TMP\_50 = 2 TMP\_51 = 1 not(TMP\_51) = 0 TMP\_52 = 0 not(TMP\_52) = 1 TMP\_53 = 1 not(TMP\_53) = 0 TMP\_54 = 1 not(TMP\_54) = 0 TMP\_55 = 3 TMP\_56 = 0 not(TMP\_56) = 1 TMP\_57 = 0 not(TMP\_57) = 1 TMP\_58 = 0 TMP\_59 = 1 not(TMP\_59) = 0 TMP\_60 = 1 not(TMP\_60) = 0 TMP\_61 = 2 TMP\_62 = 0 not(TMP\_62) = 1 TMP\_63 = 0 not(TMP\_63) = 1 TMP\_64 = 1 not(TMP\_64) = 0 TMP\_65 = 1 not(TMP\_65) = 0 TMP\_66 = 1 not(TMP\_66) = 0 TMP\_67 = 2 TMP\_68 = 1 not(TMP\_68) = 0 TMP\_69 = 1 not(TMP\_69) = 0 TMP\_70 = 0 not(TMP\_70) = 1 TMP\_71 = 1 not(TMP\_71) = 0 TMP\_72 = 3 TMP\_73 = 0 not(TMP\_73) = 1 TMP\_74 = 0 not(TMP\_74) = 1 TMP\_75 = 0 TMP\_76 = 1 not(TMP\_76) = 0 TMP\_77 = 1 not(TMP\_77) = 0 TMP\_78 = 2 TMP\_79 = 0 not(TMP\_79) = 1 TMP\_80 = 0 not(TMP\_80) = 1 TMP\_81 = 1 not(TMP\_81) = 0 TMP\_82 = 1 not(TMP\_82) = 0 TMP\_83 = 1 not(TMP\_83) = 0 TMP\_84 = 2 TMP\_85 = 0 not(TMP\_85) = 1 TMP\_86 = 1 not(TMP\_86) = 0 TMP\_87 = 1 not(TMP\_87) = 0 TMP\_88 = 1 not(TMP\_88) = 0 TMP\_89 = 3 TMP\_90 = 0 not(TMP\_90) = 1 TMP\_91 = 0 not(TMP\_91) = 1 TMP\_92 = 0 TMP\_93 = 1 not(TMP\_93) = 0 TMP\_94 = 1 not(TMP\_94) = 0 TMP\_95 = 2 TMP\_96 = 0 not(TMP\_96) = 1 TMP\_97 = 0 not(TMP\_97) = 1 TMP\_98 = 1 not(TMP\_98) = 0 TMP\_99 = 1 not(TMP\_99) = 0 TMP\_100 = 1 not(TMP\_100) = 0 TMP\_101 = 2 Area\_0 = 60 Distance\_0\_Rule\_0 = 60 Distance\_1\_Rule\_0 = 1 Area\_1 = 120 -(Rule\_1\_LB) = 0 Distance\_0\_Rule\_1 = 60 -(Rule\_1\_LB) = 0 Distance\_1\_Rule\_1 = 2 Area\_2 = 60 -(Rule\_2\_LB) = -60 Distance\_0\_Rule\_2 = 60 -(Rule\_2\_LB) = -1 Distance\_1\_Rule\_2 = 1 TMP\_102 = 240 .

- Solution #4 found. 4 Solutions, Resolution 0.032s, 10 Nodes (310.8 n/s), 10 Backtracks, 3 Fails, 0 Restarts

Rule\_1\_LB = 0 Rule\_1\_UB = 60 Rule\_1\_LB = 0 Rule\_1\_UB = 1 Rule\_2\_LB = 0 Rule\_2\_UB = 120 Rule\_2\_LB = 1 Rule\_2\_UB = 2 Overlaps\_0\_0 = 0 Overlaps\_0\_1 = 0 Overlaps\_0\_2 = 0 Overlaps\_1\_0 = 0 Overlaps\_1\_1 = 0 Overlaps\_1\_2 = 0 Overlaps\_2\_0 = 0 Overlaps\_2\_1 = 0 Overlaps\_2\_2 = 0 TMP\_0 = 0 not(TMP\_0) = 1 TMP\_1 = 1 not(TMP\_1) = 0 TMP\_2 = 1 not(TMP\_2) = 0 TMP\_3 = 1 not(TMP\_3) = 0 TMP\_4 = 3 TMP\_5 = 0 not(TMP\_5) = 1 TMP\_6 = 0 not(TMP\_6) = 1 TMP\_7 = 0 TMP\_8 = 1 not(TMP\_8) = 0 TMP\_9 = 1 not(TMP\_9) = 0 TMP\_10 = 2 TMP\_11 = 0 not(TMP\_11) = 1 TMP\_12 = 0 not(TMP\_12) = 1 TMP\_13 = 1 not(TMP\_13) = 0 TMP\_14 = 1 not(TMP\_14) = 0 TMP\_15 = 1 not(TMP\_15) = 0 TMP\_16 = 2 TMP\_17 = 1 not(TMP\_17) = 0 TMP\_18 = 1 not(TMP\_18) = 0 TMP\_19 = 1 not(TMP\_19) = 0 TMP\_20 = 0 not(TMP\_20) = 1 TMP\_21 = 3 TMP\_22 = 0 not(TMP\_22) = 1 TMP\_23 = 0 not(TMP\_23) = 1 TMP\_24 = 0 TMP\_25 = 1 not(TMP\_25) = 0 TMP\_26 = 1 not(TMP\_26) = 0 TMP\_27 = 2 TMP\_28 = 0 not(TMP\_28) = 1 TMP\_29 = 0 not(TMP\_29) = 1 TMP\_30 = 1 not(TMP\_30) = 0 TMP\_31 = 1 not(TMP\_31) = 0 TMP\_32 = 1 not(TMP\_32) = 0 TMP\_33 = 2 TMP\_34 = 1 not(TMP\_34) = 0 TMP\_35 = 0 not(TMP\_35) = 1 TMP\_36 = 1 not(TMP\_36) = 0 TMP\_37 = 1 not(TMP\_37) = 0 TMP\_38 = 3 TMP\_39 = 0 not(TMP\_39) = 1 TMP\_40 = 0 not(TMP\_40) = 1 TMP\_41 = 0 TMP\_42 = 1 not(TMP\_42) = 0 TMP\_43 = 1 not(TMP\_43) = 0 TMP\_44 = 2 TMP\_45 = 0 not(TMP\_45) = 1 TMP\_46 = 0 not(TMP\_46) = 1 TMP\_47 = 1 not(TMP\_47) = 0 TMP\_48 = 1 not(TMP\_48) = 0 TMP\_49 = 1 not(TMP\_49) = 0 TMP\_50 = 2 TMP\_51 = 1 not(TMP\_51) = 0 TMP\_52 = 1 not(TMP\_52) = 0 TMP\_53 = 1 not(TMP\_53) = 0 TMP\_54 = 0 not(TMP\_54) = 1 TMP\_55 = 3 TMP\_56 = 0 not(TMP\_56) = 1 TMP\_57 = 0 not(TMP\_57) = 1 TMP\_58 = 0 TMP\_59 = 1 not(TMP\_59) = 0 TMP\_60 = 1 not(TMP\_60) = 0 TMP\_61 = 2 TMP\_62 = 0 not(TMP\_62) = 1 TMP\_63 = 0 not(TMP\_63) = 1 TMP\_64 = 1 not(TMP\_64) = 0 TMP\_65 = 1 not(TMP\_65) = 0 TMP\_66 = 1 not(TMP\_66) = 0 TMP\_67 = 2 TMP\_68 = 1 not(TMP\_68) = 0 TMP\_69 = 1 not(TMP\_69) = 0 TMP\_70 = 0 not(TMP\_70) = 1 TMP\_71 = 1 not(TMP\_71) = 0 TMP\_72 = 3 TMP\_73 = 0 not(TMP\_73) = 1 TMP\_74 = 0 not(TMP\_74) = 1 TMP\_75 = 0 TMP\_76 = 1 not(TMP\_76) = 0 TMP\_77 = 1 not(TMP\_77) = 0 TMP\_78 = 2 TMP\_79 = 0 not(TMP\_79) = 1 TMP\_80 = 0 not(TMP\_80) = 1 TMP\_81 = 1 not(TMP\_81) = 0 TMP\_82 = 1 not(TMP\_82) = 0 TMP\_83 = 1 not(TMP\_83) = 0 TMP\_84 = 2 TMP\_85 = 1 not(TMP\_85) = 0 TMP\_86 = 1 not(TMP\_86) = 0 TMP\_87 = 0 not(TMP\_87) = 1 TMP\_88 = 1 not(TMP\_88) = 0 TMP\_89 = 3 TMP\_90 = 0 not(TMP\_90) = 1 TMP\_91 = 0 not(TMP\_91) = 1 TMP\_92 = 0 TMP\_93 = 1 not(TMP\_93) = 0 TMP\_94 = 1 not(TMP\_94) = 0 TMP\_95 = 2 TMP\_96 = 0 not(TMP\_96) = 1 TMP\_97 = 0 not(TMP\_97) = 1 TMP\_98 = 1 not(TMP\_98) = 0 TMP\_99 = 1 not(TMP\_99) = 0 TMP\_100 = 1 not(TMP\_100) = 0 TMP\_101 = 2 Area\_0 = 60 Distance\_0\_Rule\_0 = 60 Distance\_1\_Rule\_0 = 1 Area\_1 = 60 -(Rule\_1\_LB) = 0 Distance\_0\_Rule\_1 = 60 -(Rule\_1\_LB) = 0 Distance\_1\_Rule\_1 = 1 Area\_2 = 120 -(Rule\_2\_LB) = 0 Distance\_0\_Rule\_2 = 120 -(Rule\_2\_LB) = -1 Distance\_1\_Rule\_2 = 1 TMP\_102 = 240 .

- Complete search - 4 solution(s) found.

Solutions: 4

Building time : 0.077s

Initialisation : 0.000s

Initial propagation : 0.011s

Resolution : 0.034s

Nodes: 10 (294.6 n/s)

Backtracks: 13

Fails: 3

Restarts: 0

Max depth: 4

Memory: -2mb

Variables: 220

Constraints: 224

## Rules = 2 - Missing Rules = 2

- Solution #1 found. 1 Solutions, Resolution 0.022s, 2 Nodes (92.8 n/s), 0 Backtracks, 0 Fails, 0 Restarts

Rule\_2\_LB = 60 Rule\_2\_UB = 120 Rule\_2\_LB = 1 Rule\_2\_UB = 2 Rule\_3\_LB = 0 Rule\_3\_UB = 25 Rule\_3\_LB = 0 Rule\_3\_UB = 2 Overlaps\_0\_0 = 0 Overlaps\_0\_1 = 0 Overlaps\_0\_2 = 0 Overlaps\_0\_3 = 0 Overlaps\_1\_0 = 0 Overlaps\_1\_1 = 0 Overlaps\_1\_2 = 0 Overlaps\_1\_3 = 0 Overlaps\_2\_0 = 0 Overlaps\_2\_1 = 0 Overlaps\_2\_2 = 0 Overlaps\_2\_3 = 0 Overlaps\_3\_0 = 0 Overlaps\_3\_1 = 0 Overlaps\_3\_2 = 0 Overlaps\_3\_3 = 0 TMP\_0 = 0 not(TMP\_0) = 1 TMP\_1 = 1 not(TMP\_1) = 0 TMP\_2 = 1 not(TMP\_2) = 0 TMP\_3 = 1 not(TMP\_3) = 0 TMP\_4 = 3 TMP\_5 = 0 not(TMP\_5) = 1 TMP\_6 = 0 not(TMP\_6) = 1 TMP\_7 = 0 TMP\_8 = 1 not(TMP\_8) = 0 TMP\_9 = 1 not(TMP\_9) = 0 TMP\_10 = 2 TMP\_11 = 0 not(TMP\_11) = 1 TMP\_12 = 0 not(TMP\_12) = 1 TMP\_13 = 1 not(TMP\_13) = 0 TMP\_14 = 1 not(TMP\_14) = 0 TMP\_15 = 1 not(TMP\_15) = 0 TMP\_16 = 2 TMP\_17 = 1 not(TMP\_17) = 0 TMP\_18 = 1 not(TMP\_18) = 0 TMP\_19 = 1 not(TMP\_19) = 0 TMP\_20 = 0 not(TMP\_20) = 1 TMP\_21 = 3 TMP\_22 = 0 not(TMP\_22) = 1 TMP\_23 = 0 not(TMP\_23) = 1 TMP\_24 = 0 TMP\_25 = 1 not(TMP\_25) = 0 TMP\_26 = 1 not(TMP\_26) = 0 TMP\_27 = 2 TMP\_28 = 0 not(TMP\_28) = 1 TMP\_29 = 0 not(TMP\_29) = 1 TMP\_30 = 1 not(TMP\_30) = 0 TMP\_31 = 1 not(TMP\_31) = 0 TMP\_32 = 1 not(TMP\_32) = 0 TMP\_33 = 2 TMP\_34 = 0 not(TMP\_34) = 1 TMP\_35 = 1 not(TMP\_35) = 0 TMP\_36 = 1 not(TMP\_36) = 0 TMP\_37 = 1 not(TMP\_37) = 0 TMP\_38 = 3 TMP\_39 = 0 not(TMP\_39) = 1 TMP\_40 = 0 not(TMP\_40) = 1 TMP\_41 = 0 TMP\_42 = 1 not(TMP\_42) = 0 TMP\_43 = 1 not(TMP\_43) = 0 TMP\_44 = 2 TMP\_45 = 0 not(TMP\_45) = 1 TMP\_46 = 0 not(TMP\_46) = 1 TMP\_47 = 1 not(TMP\_47) = 0 TMP\_48 = 1 not(TMP\_48) = 0 TMP\_49 = 1 not(TMP\_49) = 0 TMP\_50 = 2 TMP\_51 = 1 not(TMP\_51) = 0 TMP\_52 = 0 not(TMP\_52) = 1 TMP\_53 = 1 not(TMP\_53) = 0 TMP\_54 = 1 not(TMP\_54) = 0 TMP\_55 = 3 TMP\_56 = 0 not(TMP\_56) = 1 TMP\_57 = 0 not(TMP\_57) = 1 TMP\_58 = 0 TMP\_59 = 1 not(TMP\_59) = 0 TMP\_60 = 1 not(TMP\_60) = 0 TMP\_61 = 2 TMP\_62 = 0 not(TMP\_62) = 1 TMP\_63 = 0 not(TMP\_63) = 1 TMP\_64 = 1 not(TMP\_64) = 0 TMP\_65 = 1 not(TMP\_65) = 0 TMP\_66 = 1 not(TMP\_66) = 0 TMP\_67 = 2 TMP\_68 = 1 not(TMP\_68) = 0 TMP\_69 = 0 not(TMP\_69) = 1 TMP\_70 = 1 not(TMP\_70) = 0 TMP\_71 = 1 not(TMP\_71) = 0 TMP\_72 = 3 TMP\_73 = 0 not(TMP\_73) = 1 TMP\_74 = 0 not(TMP\_74) = 1 TMP\_75 = 0 TMP\_76 = 1 not(TMP\_76) = 0 TMP\_77 = 1 not(TMP\_77) = 0 TMP\_78 = 2 TMP\_79 = 0 not(TMP\_79) = 1 TMP\_80 = 0 not(TMP\_80) = 1 TMP\_81 = 1 not(TMP\_81) = 0 TMP\_82 = 1 not(TMP\_82) = 0 TMP\_83 = 1 not(TMP\_83) = 0 TMP\_84 = 2 TMP\_85 = 0 not(TMP\_85) = 1 TMP\_86 = 1 not(TMP\_86) = 0 TMP\_87 = 1 not(TMP\_87) = 0 TMP\_88 = 1 not(TMP\_88) = 0 TMP\_89 = 3 TMP\_90 = 0 not(TMP\_90) = 1 TMP\_91 = 0 not(TMP\_91) = 1 TMP\_92 = 0 TMP\_93 = 1 not(TMP\_93) = 0 TMP\_94 = 1 not(TMP\_94) = 0 TMP\_95 = 2 TMP\_96 = 0 not(TMP\_96) = 1 TMP\_97 = 0 not(TMP\_97) = 1 TMP\_98 = 1 not(TMP\_98) = 0 TMP\_99 = 1 not(TMP\_99) = 0 TMP\_100 = 1 not(TMP\_100) = 0 TMP\_101 = 2 TMP\_102 = 1 not(TMP\_102) = 0 TMP\_103 = 1 not(TMP\_103) = 0 TMP\_104 = 0 not(TMP\_104) = 1 TMP\_105 = 1 not(TMP\_105) = 0 TMP\_106 = 3 TMP\_107 = 0 not(TMP\_107) = 1 TMP\_108 = 0 not(TMP\_108) = 1 TMP\_109 = 0 TMP\_110 = 1 not(TMP\_110) = 0 TMP\_111 = 1 not(TMP\_111) = 0 TMP\_112 = 2 TMP\_113 = 0 not(TMP\_113) = 1 TMP\_114 = 0 not(TMP\_114) = 1 TMP\_115 = 1 not(TMP\_115) = 0 TMP\_116 = 1 not(TMP\_116) = 0 TMP\_117 = 1 not(TMP\_117) = 0 TMP\_118 = 2 TMP\_119 = 0 not(TMP\_119) = 1 TMP\_120 = 1 not(TMP\_120) = 0 TMP\_121 = 1 not(TMP\_121) = 0 TMP\_122 = 1 not(TMP\_122) = 0 TMP\_123 = 3 TMP\_124 = 0 not(TMP\_124) = 1 TMP\_125 = 0 not(TMP\_125) = 1 TMP\_126 = 0 TMP\_127 = 1 not(TMP\_127) = 0 TMP\_128 = 1 not(TMP\_128) = 0 TMP\_129 = 2 TMP\_130 = 0 not(TMP\_130) = 1 TMP\_131 = 0 not(TMP\_131) = 1 TMP\_132 = 1 not(TMP\_132) = 0 TMP\_133 = 1 not(TMP\_133) = 0 TMP\_134 = 1 not(TMP\_134) = 0 TMP\_135 = 2 TMP\_136 = 0 not(TMP\_136) = 1 TMP\_137 = 1 not(TMP\_137) = 0 TMP\_138 = 1 not(TMP\_138) = 0 TMP\_139 = 1 not(TMP\_139) = 0 TMP\_140 = 3 TMP\_141 = 0 not(TMP\_141) = 1 TMP\_142 = 0 not(TMP\_142) = 1 TMP\_143 = 0 TMP\_144 = 1 not(TMP\_144) = 0 TMP\_145 = 1 not(TMP\_145) = 0 TMP\_146 = 2 TMP\_147 = 0 not(TMP\_147) = 1 TMP\_148 = 0 not(TMP\_148) = 1 TMP\_149 = 1 not(TMP\_149) = 0 TMP\_150 = 1 not(TMP\_150) = 0 TMP\_151 = 1 not(TMP\_151) = 0 TMP\_152 = 2 TMP\_153 = 1 not(TMP\_153) = 0 TMP\_154 = 0 not(TMP\_154) = 1 TMP\_155 = 1 not(TMP\_155) = 0 TMP\_156 = 1 not(TMP\_156) = 0 TMP\_157 = 3 TMP\_158 = 0 not(TMP\_158) = 1 TMP\_159 = 0 not(TMP\_159) = 1 TMP\_160 = 0 TMP\_161 = 1 not(TMP\_161) = 0 TMP\_162 = 1 not(TMP\_162) = 0 TMP\_163 = 2 TMP\_164 = 0 not(TMP\_164) = 1 TMP\_165 = 0 not(TMP\_165) = 1 TMP\_166 = 1 not(TMP\_166) = 0 TMP\_167 = 1 not(TMP\_167) = 0 TMP\_168 = 1 not(TMP\_168) = 0 TMP\_169 = 2 TMP\_170 = 1 not(TMP\_170) = 0 TMP\_171 = 0 not(TMP\_171) = 1 TMP\_172 = 1 not(TMP\_172) = 0 TMP\_173 = 1 not(TMP\_173) = 0 TMP\_174 = 3 TMP\_175 = 0 not(TMP\_175) = 1 TMP\_176 = 0 not(TMP\_176) = 1 TMP\_177 = 0 TMP\_178 = 1 not(TMP\_178) = 0 TMP\_179 = 1 not(TMP\_179) = 0 TMP\_180 = 2 TMP\_181 = 0 not(TMP\_181) = 1 TMP\_182 = 0 not(TMP\_182) = 1 TMP\_183 = 1 not(TMP\_183) = 0 TMP\_184 = 1 not(TMP\_184) = 0 TMP\_185 = 1 not(TMP\_185) = 0 TMP\_186 = 2 TMP\_187 = 1 not(TMP\_187) = 0 TMP\_188 = 0 not(TMP\_188) = 1 TMP\_189 = 1 not(TMP\_189) = 0 TMP\_190 = 1 not(TMP\_190) = 0 TMP\_191 = 3 TMP\_192 = 0 not(TMP\_192) = 1 TMP\_193 = 0 not(TMP\_193) = 1 TMP\_194 = 0 TMP\_195 = 1 not(TMP\_195) = 0 TMP\_196 = 1 not(TMP\_196) = 0 TMP\_197 = 2 TMP\_198 = 0 not(TMP\_198) = 1 TMP\_199 = 0 not(TMP\_199) = 1 TMP\_200 = 1 not(TMP\_200) = 0 TMP\_201 = 1 not(TMP\_201) = 0 TMP\_202 = 1 not(TMP\_202) = 0 TMP\_203 = 2 Area\_0 = 60 Distance\_0\_Rule\_0 = 60 Distance\_1\_Rule\_0 = 1 Area\_1 = 70 Distance\_0\_Rule\_1 = 35 Distance\_1\_Rule\_1 = 2 Area\_2 = 60 -(Rule\_2\_LB) = -60 Distance\_0\_Rule\_2 = 60 -(Rule\_2\_LB) = -1 Distance\_1\_Rule\_2 = 1 Area\_3 = 50 -(Rule\_3\_LB) = 0 Distance\_0\_Rule\_3 = 25 -(Rule\_3\_LB) = 0 Distance\_1\_Rule\_3 = 2 TMP\_204 = 240 .

- Solution #2 found. 2 Solutions, Resolution 0.030s, 4 Nodes (132.9 n/s), 2 Backtracks, 1 Fails, 0 Restarts

Rule\_2\_LB = 0 Rule\_2\_UB = 25 Rule\_2\_LB = 0 Rule\_2\_UB = 2 Rule\_3\_LB = 60 Rule\_3\_UB = 120 Rule\_3\_LB = 1 Rule\_3\_UB = 2 Overlaps\_0\_0 = 0 Overlaps\_0\_1 = 0 Overlaps\_0\_2 = 0 Overlaps\_0\_3 = 0 Overlaps\_1\_0 = 0 Overlaps\_1\_1 = 0 Overlaps\_1\_2 = 0 Overlaps\_1\_3 = 0 Overlaps\_2\_0 = 0 Overlaps\_2\_1 = 0 Overlaps\_2\_2 = 0 Overlaps\_2\_3 = 0 Overlaps\_3\_0 = 0 Overlaps\_3\_1 = 0 Overlaps\_3\_2 = 0 Overlaps\_3\_3 = 0 TMP\_0 = 0 not(TMP\_0) = 1 TMP\_1 = 1 not(TMP\_1) = 0 TMP\_2 = 1 not(TMP\_2) = 0 TMP\_3 = 1 not(TMP\_3) = 0 TMP\_4 = 3 TMP\_5 = 0 not(TMP\_5) = 1 TMP\_6 = 0 not(TMP\_6) = 1 TMP\_7 = 0 TMP\_8 = 1 not(TMP\_8) = 0 TMP\_9 = 1 not(TMP\_9) = 0 TMP\_10 = 2 TMP\_11 = 0 not(TMP\_11) = 1 TMP\_12 = 0 not(TMP\_12) = 1 TMP\_13 = 1 not(TMP\_13) = 0 TMP\_14 = 1 not(TMP\_14) = 0 TMP\_15 = 1 not(TMP\_15) = 0 TMP\_16 = 2 TMP\_17 = 0 not(TMP\_17) = 1 TMP\_18 = 1 not(TMP\_18) = 0 TMP\_19 = 1 not(TMP\_19) = 0 TMP\_20 = 1 not(TMP\_20) = 0 TMP\_21 = 3 TMP\_22 = 0 not(TMP\_22) = 1 TMP\_23 = 0 not(TMP\_23) = 1 TMP\_24 = 0 TMP\_25 = 1 not(TMP\_25) = 0 TMP\_26 = 1 not(TMP\_26) = 0 TMP\_27 = 2 TMP\_28 = 0 not(TMP\_28) = 1 TMP\_29 = 0 not(TMP\_29) = 1 TMP\_30 = 1 not(TMP\_30) = 0 TMP\_31 = 1 not(TMP\_31) = 0 TMP\_32 = 1 not(TMP\_32) = 0 TMP\_33 = 2 TMP\_34 = 1 not(TMP\_34) = 0 TMP\_35 = 1 not(TMP\_35) = 0 TMP\_36 = 1 not(TMP\_36) = 0 TMP\_37 = 0 not(TMP\_37) = 1 TMP\_38 = 3 TMP\_39 = 0 not(TMP\_39) = 1 TMP\_40 = 0 not(TMP\_40) = 1 TMP\_41 = 0 TMP\_42 = 1 not(TMP\_42) = 0 TMP\_43 = 1 not(TMP\_43) = 0 TMP\_44 = 2 TMP\_45 = 0 not(TMP\_45) = 1 TMP\_46 = 0 not(TMP\_46) = 1 TMP\_47 = 1 not(TMP\_47) = 0 TMP\_48 = 1 not(TMP\_48) = 0 TMP\_49 = 1 not(TMP\_49) = 0 TMP\_50 = 2 TMP\_51 = 1 not(TMP\_51) = 0 TMP\_52 = 0 not(TMP\_52) = 1 TMP\_53 = 1 not(TMP\_53) = 0 TMP\_54 = 1 not(TMP\_54) = 0 TMP\_55 = 3 TMP\_56 = 0 not(TMP\_56) = 1 TMP\_57 = 0 not(TMP\_57) = 1 TMP\_58 = 0 TMP\_59 = 1 not(TMP\_59) = 0 TMP\_60 = 1 not(TMP\_60) = 0 TMP\_61 = 2 TMP\_62 = 0 not(TMP\_62) = 1 TMP\_63 = 0 not(TMP\_63) = 1 TMP\_64 = 1 not(TMP\_64) = 0 TMP\_65 = 1 not(TMP\_65) = 0 TMP\_66 = 1 not(TMP\_66) = 0 TMP\_67 = 2 TMP\_68 = 0 not(TMP\_68) = 1 TMP\_69 = 1 not(TMP\_69) = 0 TMP\_70 = 1 not(TMP\_70) = 0 TMP\_71 = 1 not(TMP\_71) = 0 TMP\_72 = 3 TMP\_73 = 0 not(TMP\_73) = 1 TMP\_74 = 0 not(TMP\_74) = 1 TMP\_75 = 0 TMP\_76 = 1 not(TMP\_76) = 0 TMP\_77 = 1 not(TMP\_77) = 0 TMP\_78 = 2 TMP\_79 = 0 not(TMP\_79) = 1 TMP\_80 = 0 not(TMP\_80) = 1 TMP\_81 = 1 not(TMP\_81) = 0 TMP\_82 = 1 not(TMP\_82) = 0 TMP\_83 = 1 not(TMP\_83) = 0 TMP\_84 = 2 TMP\_85 = 1 not(TMP\_85) = 0 TMP\_86 = 0 not(TMP\_86) = 1 TMP\_87 = 1 not(TMP\_87) = 0 TMP\_88 = 1 not(TMP\_88) = 0 TMP\_89 = 3 TMP\_90 = 0 not(TMP\_90) = 1 TMP\_91 = 0 not(TMP\_91) = 1 TMP\_92 = 0 TMP\_93 = 1 not(TMP\_93) = 0 TMP\_94 = 1 not(TMP\_94) = 0 TMP\_95 = 2 TMP\_96 = 0 not(TMP\_96) = 1 TMP\_97 = 0 not(TMP\_97) = 1 TMP\_98 = 1 not(TMP\_98) = 0 TMP\_99 = 1 not(TMP\_99) = 0 TMP\_100 = 1 not(TMP\_100) = 0 TMP\_101 = 2 TMP\_102 = 1 not(TMP\_102) = 0 TMP\_103 = 0 not(TMP\_103) = 1 TMP\_104 = 1 not(TMP\_104) = 0 TMP\_105 = 1 not(TMP\_105) = 0 TMP\_106 = 3 TMP\_107 = 0 not(TMP\_107) = 1 TMP\_108 = 0 not(TMP\_108) = 1 TMP\_109 = 0 TMP\_110 = 1 not(TMP\_110) = 0 TMP\_111 = 1 not(TMP\_111) = 0 TMP\_112 = 2 TMP\_113 = 0 not(TMP\_113) = 1 TMP\_114 = 0 not(TMP\_114) = 1 TMP\_115 = 1 not(TMP\_115) = 0 TMP\_116 = 1 not(TMP\_116) = 0 TMP\_117 = 1 not(TMP\_117) = 0 TMP\_118 = 2 TMP\_119 = 1 not(TMP\_119) = 0 TMP\_120 = 0 not(TMP\_120) = 1 TMP\_121 = 1 not(TMP\_121) = 0 TMP\_122 = 1 not(TMP\_122) = 0 TMP\_123 = 3 TMP\_124 = 0 not(TMP\_124) = 1 TMP\_125 = 0 not(TMP\_125) = 1 TMP\_126 = 0 TMP\_127 = 1 not(TMP\_127) = 0 TMP\_128 = 1 not(TMP\_128) = 0 TMP\_129 = 2 TMP\_130 = 0 not(TMP\_130) = 1 TMP\_131 = 0 not(TMP\_131) = 1 TMP\_132 = 1 not(TMP\_132) = 0 TMP\_133 = 1 not(TMP\_133) = 0 TMP\_134 = 1 not(TMP\_134) = 0 TMP\_135 = 2 TMP\_136 = 1 not(TMP\_136) = 0 TMP\_137 = 0 not(TMP\_137) = 1 TMP\_138 = 1 not(TMP\_138) = 0 TMP\_139 = 1 not(TMP\_139) = 0 TMP\_140 = 3 TMP\_141 = 0 not(TMP\_141) = 1 TMP\_142 = 0 not(TMP\_142) = 1 TMP\_143 = 0 TMP\_144 = 1 not(TMP\_144) = 0 TMP\_145 = 1 not(TMP\_145) = 0 TMP\_146 = 2 TMP\_147 = 0 not(TMP\_147) = 1 TMP\_148 = 0 not(TMP\_148) = 1 TMP\_149 = 1 not(TMP\_149) = 0 TMP\_150 = 1 not(TMP\_150) = 0 TMP\_151 = 1 not(TMP\_151) = 0 TMP\_152 = 2 TMP\_153 = 1 not(TMP\_153) = 0 TMP\_154 = 1 not(TMP\_154) = 0 TMP\_155 = 0 not(TMP\_155) = 1 TMP\_156 = 1 not(TMP\_156) = 0 TMP\_157 = 3 TMP\_158 = 0 not(TMP\_158) = 1 TMP\_159 = 0 not(TMP\_159) = 1 TMP\_160 = 0 TMP\_161 = 1 not(TMP\_161) = 0 TMP\_162 = 1 not(TMP\_162) = 0 TMP\_163 = 2 TMP\_164 = 0 not(TMP\_164) = 1 TMP\_165 = 0 not(TMP\_165) = 1 TMP\_166 = 1 not(TMP\_166) = 0 TMP\_167 = 1 not(TMP\_167) = 0 TMP\_168 = 1 not(TMP\_168) = 0 TMP\_169 = 2 TMP\_170 = 0 not(TMP\_170) = 1 TMP\_171 = 1 not(TMP\_171) = 0 TMP\_172 = 1 not(TMP\_172) = 0 TMP\_173 = 1 not(TMP\_173) = 0 TMP\_174 = 3 TMP\_175 = 0 not(TMP\_175) = 1 TMP\_176 = 0 not(TMP\_176) = 1 TMP\_177 = 0 TMP\_178 = 1 not(TMP\_178) = 0 TMP\_179 = 1 not(TMP\_179) = 0 TMP\_180 = 2 TMP\_181 = 0 not(TMP\_181) = 1 TMP\_182 = 0 not(TMP\_182) = 1 TMP\_183 = 1 not(TMP\_183) = 0 TMP\_184 = 1 not(TMP\_184) = 0 TMP\_185 = 1 not(TMP\_185) = 0 TMP\_186 = 2 TMP\_187 = 0 not(TMP\_187) = 1 TMP\_188 = 1 not(TMP\_188) = 0 TMP\_189 = 1 not(TMP\_189) = 0 TMP\_190 = 1 not(TMP\_190) = 0 TMP\_191 = 3 TMP\_192 = 0 not(TMP\_192) = 1 TMP\_193 = 0 not(TMP\_193) = 1 TMP\_194 = 0 TMP\_195 = 1 not(TMP\_195) = 0 TMP\_196 = 1 not(TMP\_196) = 0 TMP\_197 = 2 TMP\_198 = 0 not(TMP\_198) = 1 TMP\_199 = 0 not(TMP\_199) = 1 TMP\_200 = 1 not(TMP\_200) = 0 TMP\_201 = 1 not(TMP\_201) = 0 TMP\_202 = 1 not(TMP\_202) = 0 TMP\_203 = 2 Area\_0 = 60 Distance\_0\_Rule\_0 = 60 Distance\_1\_Rule\_0 = 1 Area\_1 = 70 Distance\_0\_Rule\_1 = 35 Distance\_1\_Rule\_1 = 2 Area\_2 = 50 -(Rule\_2\_LB) = 0 Distance\_0\_Rule\_2 = 25 -(Rule\_2\_LB) = 0 Distance\_1\_Rule\_2 = 2 Area\_3 = 60 -(Rule\_3\_LB) = -60 Distance\_0\_Rule\_3 = 60 -(Rule\_3\_LB) = -1 Distance\_1\_Rule\_3 = 1 TMP\_204 = 240 .

- Complete search - 2 solution(s) found.

Solutions: 2

Building time : 0.081s

Initialisation : 0.000s

Initial propagation : 0.014s

Resolution : 0.033s

Nodes: 4 (121.9 n/s)

Backtracks: 5

Fails: 1

Restarts: 0

Max depth: 2

Memory: -1mb

Variables: 416

Constraints: 430

## Rules = 3 - Missing Rules = 2

- Solution #1 found. 1 Solutions, Resolution 0.023s, 16 Nodes (707.9 n/s), 11 Backtracks, 6 Fails, 0 Restarts

Rule\_3\_LB = 60 Rule\_3\_UB = 120 Rule\_3\_LB = 1 Rule\_3\_UB = 2 Rule\_4\_LB = 0 Rule\_4\_UB = 20 Rule\_4\_LB = 0 Rule\_4\_UB = 1 Overlaps\_0\_0 = 0 Overlaps\_0\_1 = 0 Overlaps\_0\_2 = 0 Overlaps\_0\_3 = 0 Overlaps\_0\_4 = 0 Overlaps\_1\_0 = 0 Overlaps\_1\_1 = 0 Overlaps\_1\_2 = 0 Overlaps\_1\_3 = 0 Overlaps\_1\_4 = 0 Overlaps\_2\_0 = 0 Overlaps\_2\_1 = 0 Overlaps\_2\_2 = 0 Overlaps\_2\_3 = 0 Overlaps\_2\_4 = 0 Overlaps\_3\_0 = 0 Overlaps\_3\_1 = 0 Overlaps\_3\_2 = 0 Overlaps\_3\_3 = 0 Overlaps\_3\_4 = 0 Overlaps\_4\_0 = 0 Overlaps\_4\_1 = 0 Overlaps\_4\_2 = 0 Overlaps\_4\_3 = 0 Overlaps\_4\_4 = 0 TMP\_0 = 1 not(TMP\_0) = 0 TMP\_1 = 1 not(TMP\_1) = 0 TMP\_2 = 0 not(TMP\_2) = 1 TMP\_3 = 1 not(TMP\_3) = 0 TMP\_4 = 3 TMP\_5 = 0 not(TMP\_5) = 1 TMP\_6 = 0 not(TMP\_6) = 1 TMP\_7 = 0 TMP\_8 = 1 not(TMP\_8) = 0 TMP\_9 = 1 not(TMP\_9) = 0 TMP\_10 = 2 TMP\_11 = 0 not(TMP\_11) = 1 TMP\_12 = 0 not(TMP\_12) = 1 TMP\_13 = 1 not(TMP\_13) = 0 TMP\_14 = 1 not(TMP\_14) = 0 TMP\_15 = 1 not(TMP\_15) = 0 TMP\_16 = 2 TMP\_17 = 0 not(TMP\_17) = 1 TMP\_18 = 1 not(TMP\_18) = 0 TMP\_19 = 1 not(TMP\_19) = 0 TMP\_20 = 1 not(TMP\_20) = 0 TMP\_21 = 3 TMP\_22 = 0 not(TMP\_22) = 1 TMP\_23 = 0 not(TMP\_23) = 1 TMP\_24 = 0 TMP\_25 = 1 not(TMP\_25) = 0 TMP\_26 = 1 not(TMP\_26) = 0 TMP\_27 = 2 TMP\_28 = 0 not(TMP\_28) = 1 TMP\_29 = 0 not(TMP\_29) = 1 TMP\_30 = 1 not(TMP\_30) = 0 TMP\_31 = 1 not(TMP\_31) = 0 TMP\_32 = 1 not(TMP\_32) = 0 TMP\_33 = 2 TMP\_34 = 0 not(TMP\_34) = 1 TMP\_35 = 1 not(TMP\_35) = 0 TMP\_36 = 1 not(TMP\_36) = 0 TMP\_37 = 1 not(TMP\_37) = 0 TMP\_38 = 3 TMP\_39 = 0 not(TMP\_39) = 1 TMP\_40 = 0 not(TMP\_40) = 1 TMP\_41 = 0 TMP\_42 = 1 not(TMP\_42) = 0 TMP\_43 = 1 not(TMP\_43) = 0 TMP\_44 = 2 TMP\_45 = 0 not(TMP\_45) = 1 TMP\_46 = 0 not(TMP\_46) = 1 TMP\_47 = 1 not(TMP\_47) = 0 TMP\_48 = 1 not(TMP\_48) = 0 TMP\_49 = 1 not(TMP\_49) = 0 TMP\_50 = 2 TMP\_51 = 0 not(TMP\_51) = 1 TMP\_52 = 1 not(TMP\_52) = 0 TMP\_53 = 0 not(TMP\_53) = 1 TMP\_54 = 1 not(TMP\_54) = 0 TMP\_55 = 2 TMP\_56 = 0 not(TMP\_56) = 1 TMP\_57 = 0 not(TMP\_57) = 1 TMP\_58 = 0 TMP\_59 = 1 not(TMP\_59) = 0 TMP\_60 = 1 not(TMP\_60) = 0 TMP\_61 = 2 TMP\_62 = 0 not(TMP\_62) = 1 TMP\_63 = 0 not(TMP\_63) = 1 TMP\_64 = 1 not(TMP\_64) = 0 TMP\_65 = 1 not(TMP\_65) = 0 TMP\_66 = 1 not(TMP\_66) = 0 TMP\_67 = 2 TMP\_68 = 1 not(TMP\_68) = 0 TMP\_69 = 0 not(TMP\_69) = 1 TMP\_70 = 1 not(TMP\_70) = 0 TMP\_71 = 1 not(TMP\_71) = 0 TMP\_72 = 3 TMP\_73 = 0 not(TMP\_73) = 1 TMP\_74 = 0 not(TMP\_74) = 1 TMP\_75 = 0 TMP\_76 = 1 not(TMP\_76) = 0 TMP\_77 = 1 not(TMP\_77) = 0 TMP\_78 = 2 TMP\_79 = 0 not(TMP\_79) = 1 TMP\_80 = 0 not(TMP\_80) = 1 TMP\_81 = 1 not(TMP\_81) = 0 TMP\_82 = 1 not(TMP\_82) = 0 TMP\_83 = 1 not(TMP\_83) = 0 TMP\_84 = 2 TMP\_85 = 1 not(TMP\_85) = 0 TMP\_86 = 0 not(TMP\_86) = 1 TMP\_87 = 1 not(TMP\_87) = 0 TMP\_88 = 1 not(TMP\_88) = 0 TMP\_89 = 3 TMP\_90 = 0 not(TMP\_90) = 1 TMP\_91 = 0 not(TMP\_91) = 1 TMP\_92 = 0 TMP\_93 = 1 not(TMP\_93) = 0 TMP\_94 = 1 not(TMP\_94) = 0 TMP\_95 = 2 TMP\_96 = 0 not(TMP\_96) = 1 TMP\_97 = 0 not(TMP\_97) = 1 TMP\_98 = 1 not(TMP\_98) = 0 TMP\_99 = 1 not(TMP\_99) = 0 TMP\_100 = 1 not(TMP\_100) = 0 TMP\_101 = 2 TMP\_102 = 1 not(TMP\_102) = 0 TMP\_103 = 1 not(TMP\_103) = 0 TMP\_104 = 1 not(TMP\_104) = 0 TMP\_105 = 0 not(TMP\_105) = 1 TMP\_106 = 3 TMP\_107 = 0 not(TMP\_107) = 1 TMP\_108 = 0 not(TMP\_108) = 1 TMP\_109 = 0 TMP\_110 = 1 not(TMP\_110) = 0 TMP\_111 = 1 not(TMP\_111) = 0 TMP\_112 = 2 TMP\_113 = 0 not(TMP\_113) = 1 TMP\_114 = 0 not(TMP\_114) = 1 TMP\_115 = 1 not(TMP\_115) = 0 TMP\_116 = 1 not(TMP\_116) = 0 TMP\_117 = 1 not(TMP\_117) = 0 TMP\_118 = 2 TMP\_119 = 1 not(TMP\_119) = 0 TMP\_120 = 0 not(TMP\_120) = 1 TMP\_121 = 1 not(TMP\_121) = 0 TMP\_122 = 0 not(TMP\_122) = 1 TMP\_123 = 2 TMP\_124 = 0 not(TMP\_124) = 1 TMP\_125 = 0 not(TMP\_125) = 1 TMP\_126 = 0 TMP\_127 = 1 not(TMP\_127) = 0 TMP\_128 = 1 not(TMP\_128) = 0 TMP\_129 = 2 TMP\_130 = 0 not(TMP\_130) = 1 TMP\_131 = 0 not(TMP\_131) = 1 TMP\_132 = 1 not(TMP\_132) = 0 TMP\_133 = 1 not(TMP\_133) = 0 TMP\_134 = 1 not(TMP\_134) = 0 TMP\_135 = 2 Area\_0 = 60 Distance\_0\_Rule\_0 = 60 Distance\_1\_Rule\_0 = 1 Area\_1 = 70 Distance\_0\_Rule\_1 = 35 Distance\_1\_Rule\_1 = 2 Area\_2 = 30 Distance\_0\_Rule\_2 = 30 Distance\_1\_Rule\_2 = 1 Area\_3 = 60 -(Rule\_3\_LB) = -60 Distance\_0\_Rule\_3 = 60 -(Rule\_3\_LB) = -1 Distance\_1\_Rule\_3 = 1 Area\_4 = 20 -(Rule\_4\_LB) = 0 Distance\_0\_Rule\_4 = 20 -(Rule\_4\_LB) = 0 Distance\_1\_Rule\_4 = 1 TMP\_136 = 240 .

- Solution #2 found. 2 Solutions, Resolution 0.028s, 17 Nodes (615.0 n/s), 12 Backtracks, 6 Fails, 0 Restarts

Rule\_3\_LB = 60 Rule\_3\_UB = 120 Rule\_3\_LB = 1 Rule\_3\_UB = 2 Rule\_4\_LB = 0 Rule\_4\_UB = 20 Rule\_4\_LB = 0 Rule\_4\_UB = 1 Overlaps\_0\_0 = 0 Overlaps\_0\_1 = 0 Overlaps\_0\_2 = 1 Overlaps\_0\_3 = 0 Overlaps\_0\_4 = 0 Overlaps\_1\_0 = 0 Overlaps\_1\_1 = 0 Overlaps\_1\_2 = 0 Overlaps\_1\_3 = 0 Overlaps\_1\_4 = 0 Overlaps\_2\_0 = 0 Overlaps\_2\_1 = 0 Overlaps\_2\_2 = 0 Overlaps\_2\_3 = 0 Overlaps\_2\_4 = 0 Overlaps\_3\_0 = 0 Overlaps\_3\_1 = 0 Overlaps\_3\_2 = 0 Overlaps\_3\_3 = 0 Overlaps\_3\_4 = 0 Overlaps\_4\_0 = 0 Overlaps\_4\_1 = 0 Overlaps\_4\_2 = 0 Overlaps\_4\_3 = 0 Overlaps\_4\_4 = 0 TMP\_0 = 1 not(TMP\_0) = 0 TMP\_1 = 1 not(TMP\_1) = 0 TMP\_2 = 0 not(TMP\_2) = 1 TMP\_3 = 1 not(TMP\_3) = 0 TMP\_4 = 3 TMP\_5 = 0 not(TMP\_5) = 1 TMP\_6 = 0 not(TMP\_6) = 1 TMP\_7 = 0 TMP\_8 = 1 not(TMP\_8) = 0 TMP\_9 = 1 not(TMP\_9) = 0 TMP\_10 = 2 TMP\_11 = 0 not(TMP\_11) = 1 TMP\_12 = 0 not(TMP\_12) = 1 TMP\_13 = 1 not(TMP\_13) = 0 TMP\_14 = 1 not(TMP\_14) = 0 TMP\_15 = 1 not(TMP\_15) = 0 TMP\_16 = 2 TMP\_17 = 0 not(TMP\_17) = 1 TMP\_18 = 1 not(TMP\_18) = 0 TMP\_19 = 1 not(TMP\_19) = 0 TMP\_20 = 1 not(TMP\_20) = 0 TMP\_21 = 3 TMP\_22 = 0 not(TMP\_22) = 1 TMP\_23 = 0 not(TMP\_23) = 1 TMP\_24 = 0 TMP\_25 = 1 not(TMP\_25) = 0 TMP\_26 = 1 not(TMP\_26) = 0 TMP\_27 = 2 TMP\_28 = 0 not(TMP\_28) = 1 TMP\_29 = 0 not(TMP\_29) = 1 TMP\_30 = 1 not(TMP\_30) = 0 TMP\_31 = 1 not(TMP\_31) = 0 TMP\_32 = 1 not(TMP\_32) = 0 TMP\_33 = 2 TMP\_34 = 0 not(TMP\_34) = 1 TMP\_35 = 1 not(TMP\_35) = 0 TMP\_36 = 1 not(TMP\_36) = 0 TMP\_37 = 1 not(TMP\_37) = 0 TMP\_38 = 3 TMP\_39 = 0 not(TMP\_39) = 1 TMP\_40 = 0 not(TMP\_40) = 1 TMP\_41 = 0 TMP\_42 = 1 not(TMP\_42) = 0 TMP\_43 = 1 not(TMP\_43) = 0 TMP\_44 = 2 TMP\_45 = 0 not(TMP\_45) = 1 TMP\_46 = 0 not(TMP\_46) = 1 TMP\_47 = 1 not(TMP\_47) = 0 TMP\_48 = 1 not(TMP\_48) = 0 TMP\_49 = 1 not(TMP\_49) = 0 TMP\_50 = 2 TMP\_51 = 0 not(TMP\_51) = 1 TMP\_52 = 1 not(TMP\_52) = 0 TMP\_53 = 0 not(TMP\_53) = 1 TMP\_54 = 1 not(TMP\_54) = 0 TMP\_55 = 2 TMP\_56 = 0 not(TMP\_56) = 1 TMP\_57 = 0 not(TMP\_57) = 1 TMP\_58 = 0 TMP\_59 = 1 not(TMP\_59) = 0 TMP\_60 = 1 not(TMP\_60) = 0 TMP\_61 = 2 TMP\_62 = 0 not(TMP\_62) = 1 TMP\_63 = 0 not(TMP\_63) = 1 TMP\_64 = 1 not(TMP\_64) = 0 TMP\_65 = 1 not(TMP\_65) = 0 TMP\_66 = 1 not(TMP\_66) = 0 TMP\_67 = 2 TMP\_68 = 1 not(TMP\_68) = 0 TMP\_69 = 0 not(TMP\_69) = 1 TMP\_70 = 1 not(TMP\_70) = 0 TMP\_71 = 1 not(TMP\_71) = 0 TMP\_72 = 3 TMP\_73 = 0 not(TMP\_73) = 1 TMP\_74 = 0 not(TMP\_74) = 1 TMP\_75 = 0 TMP\_76 = 1 not(TMP\_76) = 0 TMP\_77 = 1 not(TMP\_77) = 0 TMP\_78 = 2 TMP\_79 = 0 not(TMP\_79) = 1 TMP\_80 = 0 not(TMP\_80) = 1 TMP\_81 = 1 not(TMP\_81) = 0 TMP\_82 = 1 not(TMP\_82) = 0 TMP\_83 = 1 not(TMP\_83) = 0 TMP\_84 = 2 TMP\_85 = 1 not(TMP\_85) = 0 TMP\_86 = 0 not(TMP\_86) = 1 TMP\_87 = 1 not(TMP\_87) = 0 TMP\_88 = 1 not(TMP\_88) = 0 TMP\_89 = 3 TMP\_90 = 0 not(TMP\_90) = 1 TMP\_91 = 0 not(TMP\_91) = 1 TMP\_92 = 0 TMP\_93 = 1 not(TMP\_93) = 0 TMP\_94 = 1 not(TMP\_94) = 0 TMP\_95 = 2 TMP\_96 = 0 not(TMP\_96) = 1 TMP\_97 = 0 not(TMP\_97) = 1 TMP\_98 = 1 not(TMP\_98) = 0 TMP\_99 = 1 not(TMP\_99) = 0 TMP\_100 = 1 not(TMP\_100) = 0 TMP\_101 = 2 TMP\_102 = 1 not(TMP\_102) = 0 TMP\_103 = 1 not(TMP\_103) = 0 TMP\_104 = 1 not(TMP\_104) = 0 TMP\_105 = 0 not(TMP\_105) = 1 TMP\_106 = 3 TMP\_107 = 0 not(TMP\_107) = 1 TMP\_108 = 0 not(TMP\_108) = 1 TMP\_109 = 0 TMP\_110 = 1 not(TMP\_110) = 0 TMP\_111 = 1 not(TMP\_111) = 0 TMP\_112 = 2 TMP\_113 = 0 not(TMP\_113) = 1 TMP\_114 = 0 not(TMP\_114) = 1 TMP\_115 = 1 not(TMP\_115) = 0 TMP\_116 = 1 not(TMP\_116) = 0 TMP\_117 = 1 not(TMP\_117) = 0 TMP\_118 = 2 TMP\_119 = 1 not(TMP\_119) = 0 TMP\_120 = 0 not(TMP\_120) = 1 TMP\_121 = 1 not(TMP\_121) = 0 TMP\_122 = 0 not(TMP\_122) = 1 TMP\_123 = 2 TMP\_124 = 0 not(TMP\_124) = 1 TMP\_125 = 0 not(TMP\_125) = 1 TMP\_126 = 0 TMP\_127 = 1 not(TMP\_127) = 0 TMP\_128 = 1 not(TMP\_128) = 0 TMP\_129 = 2 TMP\_130 = 0 not(TMP\_130) = 1 TMP\_131 = 0 not(TMP\_131) = 1 TMP\_132 = 1 not(TMP\_132) = 0 TMP\_133 = 1 not(TMP\_133) = 0 TMP\_134 = 1 not(TMP\_134) = 0 TMP\_135 = 2 Area\_0 = 60 Distance\_0\_Rule\_0 = 60 Distance\_1\_Rule\_0 = 1 Area\_1 = 70 Distance\_0\_Rule\_1 = 35 Distance\_1\_Rule\_1 = 2 Area\_2 = 30 Distance\_0\_Rule\_2 = 30 Distance\_1\_Rule\_2 = 1 Area\_3 = 60 -(Rule\_3\_LB) = -60 Distance\_0\_Rule\_3 = 60 -(Rule\_3\_LB) = -1 Distance\_1\_Rule\_3 = 1 Area\_4 = 20 -(Rule\_4\_LB) = 0 Distance\_0\_Rule\_4 = 20 -(Rule\_4\_LB) = 0 Distance\_1\_Rule\_4 = 1 TMP\_136 = 240 .

- Solution #3 found. 3 Solutions, Resolution 0.030s, 19 Nodes (638.2 n/s), 14 Backtracks, 6 Fails, 0 Restarts

Rule\_3\_LB = 60 Rule\_3\_UB = 120 Rule\_3\_LB = 1 Rule\_3\_UB = 2 Rule\_4\_LB = 0 Rule\_4\_UB = 20 Rule\_4\_LB = 0 Rule\_4\_UB = 1 Overlaps\_0\_0 = 0 Overlaps\_0\_1 = 1 Overlaps\_0\_2 = 0 Overlaps\_0\_3 = 0 Overlaps\_0\_4 = 0 Overlaps\_1\_0 = 0 Overlaps\_1\_1 = 0 Overlaps\_1\_2 = 0 Overlaps\_1\_3 = 0 Overlaps\_1\_4 = 0 Overlaps\_2\_0 = 0 Overlaps\_2\_1 = 0 Overlaps\_2\_2 = 0 Overlaps\_2\_3 = 0 Overlaps\_2\_4 = 0 Overlaps\_3\_0 = 0 Overlaps\_3\_1 = 0 Overlaps\_3\_2 = 0 Overlaps\_3\_3 = 0 Overlaps\_3\_4 = 0 Overlaps\_4\_0 = 0 Overlaps\_4\_1 = 0 Overlaps\_4\_2 = 0 Overlaps\_4\_3 = 0 Overlaps\_4\_4 = 0 TMP\_0 = 1 not(TMP\_0) = 0 TMP\_1 = 1 not(TMP\_1) = 0 TMP\_2 = 0 not(TMP\_2) = 1 TMP\_3 = 1 not(TMP\_3) = 0 TMP\_4 = 3 TMP\_5 = 0 not(TMP\_5) = 1 TMP\_6 = 0 not(TMP\_6) = 1 TMP\_7 = 0 TMP\_8 = 1 not(TMP\_8) = 0 TMP\_9 = 1 not(TMP\_9) = 0 TMP\_10 = 2 TMP\_11 = 0 not(TMP\_11) = 1 TMP\_12 = 0 not(TMP\_12) = 1 TMP\_13 = 1 not(TMP\_13) = 0 TMP\_14 = 1 not(TMP\_14) = 0 TMP\_15 = 1 not(TMP\_15) = 0 TMP\_16 = 2 TMP\_17 = 0 not(TMP\_17) = 1 TMP\_18 = 1 not(TMP\_18) = 0 TMP\_19 = 1 not(TMP\_19) = 0 TMP\_20 = 1 not(TMP\_20) = 0 TMP\_21 = 3 TMP\_22 = 0 not(TMP\_22) = 1 TMP\_23 = 0 not(TMP\_23) = 1 TMP\_24 = 0 TMP\_25 = 1 not(TMP\_25) = 0 TMP\_26 = 1 not(TMP\_26) = 0 TMP\_27 = 2 TMP\_28 = 0 not(TMP\_28) = 1 TMP\_29 = 0 not(TMP\_29) = 1 TMP\_30 = 1 not(TMP\_30) = 0 TMP\_31 = 1 not(TMP\_31) = 0 TMP\_32 = 1 not(TMP\_32) = 0 TMP\_33 = 2 TMP\_34 = 0 not(TMP\_34) = 1 TMP\_35 = 1 not(TMP\_35) = 0 TMP\_36 = 1 not(TMP\_36) = 0 TMP\_37 = 1 not(TMP\_37) = 0 TMP\_38 = 3 TMP\_39 = 0 not(TMP\_39) = 1 TMP\_40 = 0 not(TMP\_40) = 1 TMP\_41 = 0 TMP\_42 = 1 not(TMP\_42) = 0 TMP\_43 = 1 not(TMP\_43) = 0 TMP\_44 = 2 TMP\_45 = 0 not(TMP\_45) = 1 TMP\_46 = 0 not(TMP\_46) = 1 TMP\_47 = 1 not(TMP\_47) = 0 TMP\_48 = 1 not(TMP\_48) = 0 TMP\_49 = 1 not(TMP\_49) = 0 TMP\_50 = 2 TMP\_51 = 0 not(TMP\_51) = 1 TMP\_52 = 1 not(TMP\_52) = 0 TMP\_53 = 0 not(TMP\_53) = 1 TMP\_54 = 1 not(TMP\_54) = 0 TMP\_55 = 2 TMP\_56 = 0 not(TMP\_56) = 1 TMP\_57 = 0 not(TMP\_57) = 1 TMP\_58 = 0 TMP\_59 = 1 not(TMP\_59) = 0 TMP\_60 = 1 not(TMP\_60) = 0 TMP\_61 = 2 TMP\_62 = 0 not(TMP\_62) = 1 TMP\_63 = 0 not(TMP\_63) = 1 TMP\_64 = 1 not(TMP\_64) = 0 TMP\_65 = 1 not(TMP\_65) = 0 TMP\_66 = 1 not(TMP\_66) = 0 TMP\_67 = 2 TMP\_68 = 1 not(TMP\_68) = 0 TMP\_69 = 0 not(TMP\_69) = 1 TMP\_70 = 1 not(TMP\_70) = 0 TMP\_71 = 1 not(TMP\_71) = 0 TMP\_72 = 3 TMP\_73 = 0 not(TMP\_73) = 1 TMP\_74 = 0 not(TMP\_74) = 1 TMP\_75 = 0 TMP\_76 = 1 not(TMP\_76) = 0 TMP\_77 = 1 not(TMP\_77) = 0 TMP\_78 = 2 TMP\_79 = 0 not(TMP\_79) = 1 TMP\_80 = 0 not(TMP\_80) = 1 TMP\_81 = 1 not(TMP\_81) = 0 TMP\_82 = 1 not(TMP\_82) = 0 TMP\_83 = 1 not(TMP\_83) = 0 TMP\_84 = 2 TMP\_85 = 1 not(TMP\_85) = 0 TMP\_86 = 0 not(TMP\_86) = 1 TMP\_87 = 1 not(TMP\_87) = 0 TMP\_88 = 1 not(TMP\_88) = 0 TMP\_89 = 3 TMP\_90 = 0 not(TMP\_90) = 1 TMP\_91 = 0 not(TMP\_91) = 1 TMP\_92 = 0 TMP\_93 = 1 not(TMP\_93) = 0 TMP\_94 = 1 not(TMP\_94) = 0 TMP\_95 = 2 TMP\_96 = 0 not(TMP\_96) = 1 TMP\_97 = 0 not(TMP\_97) = 1 TMP\_98 = 1 not(TMP\_98) = 0 TMP\_99 = 1 not(TMP\_99) = 0 TMP\_100 = 1 not(TMP\_100) = 0 TMP\_101 = 2 TMP\_102 = 1 not(TMP\_102) = 0 TMP\_103 = 1 not(TMP\_103) = 0 TMP\_104 = 1 not(TMP\_104) = 0 TMP\_105 = 0 not(TMP\_105) = 1 TMP\_106 = 3 TMP\_107 = 0 not(TMP\_107) = 1 TMP\_108 = 0 not(TMP\_108) = 1 TMP\_109 = 0 TMP\_110 = 1 not(TMP\_110) = 0 TMP\_111 = 1 not(TMP\_111) = 0 TMP\_112 = 2 TMP\_113 = 0 not(TMP\_113) = 1 TMP\_114 = 0 not(TMP\_114) = 1 TMP\_115 = 1 not(TMP\_115) = 0 TMP\_116 = 1 not(TMP\_116) = 0 TMP\_117 = 1 not(TMP\_117) = 0 TMP\_118 = 2 TMP\_119 = 1 not(TMP\_119) = 0 TMP\_120 = 0 not(TMP\_120) = 1 TMP\_121 = 1 not(TMP\_121) = 0 TMP\_122 = 0 not(TMP\_122) = 1 TMP\_123 = 2 TMP\_124 = 0 not(TMP\_124) = 1 TMP\_125 = 0 not(TMP\_125) = 1 TMP\_126 = 0 TMP\_127 = 1 not(TMP\_127) = 0 TMP\_128 = 1 not(TMP\_128) = 0 TMP\_129 = 2 TMP\_130 = 0 not(TMP\_130) = 1 TMP\_131 = 0 not(TMP\_131) = 1 TMP\_132 = 1 not(TMP\_132) = 0 TMP\_133 = 1 not(TMP\_133) = 0 TMP\_134 = 1 not(TMP\_134) = 0 TMP\_135 = 2 Area\_0 = 60 Distance\_0\_Rule\_0 = 60 Distance\_1\_Rule\_0 = 1 Area\_1 = 70 Distance\_0\_Rule\_1 = 35 Distance\_1\_Rule\_1 = 2 Area\_2 = 30 Distance\_0\_Rule\_2 = 30 Distance\_1\_Rule\_2 = 1 Area\_3 = 60 -(Rule\_3\_LB) = -60 Distance\_0\_Rule\_3 = 60 -(Rule\_3\_LB) = -1 Distance\_1\_Rule\_3 = 1 Area\_4 = 20 -(Rule\_4\_LB) = 0 Distance\_0\_Rule\_4 = 20 -(Rule\_4\_LB) = 0 Distance\_1\_Rule\_4 = 1 TMP\_136 = 240 .

- Solution #4 found. 4 Solutions, Resolution 0.032s, 20 Nodes (632.5 n/s), 15 Backtracks, 6 Fails, 0 Restarts

Rule\_3\_LB = 60 Rule\_3\_UB = 120 Rule\_3\_LB = 1 Rule\_3\_UB = 2 Rule\_4\_LB = 0 Rule\_4\_UB = 20 Rule\_4\_LB = 0 Rule\_4\_UB = 1 Overlaps\_0\_0 = 0 Overlaps\_0\_1 = 1 Overlaps\_0\_2 = 1 Overlaps\_0\_3 = 0 Overlaps\_0\_4 = 0 Overlaps\_1\_0 = 0 Overlaps\_1\_1 = 0 Overlaps\_1\_2 = 0 Overlaps\_1\_3 = 0 Overlaps\_1\_4 = 0 Overlaps\_2\_0 = 0 Overlaps\_2\_1 = 0 Overlaps\_2\_2 = 0 Overlaps\_2\_3 = 0 Overlaps\_2\_4 = 0 Overlaps\_3\_0 = 0 Overlaps\_3\_1 = 0 Overlaps\_3\_2 = 0 Overlaps\_3\_3 = 0 Overlaps\_3\_4 = 0 Overlaps\_4\_0 = 0 Overlaps\_4\_1 = 0 Overlaps\_4\_2 = 0 Overlaps\_4\_3 = 0 Overlaps\_4\_4 = 0 TMP\_0 = 1 not(TMP\_0) = 0 TMP\_1 = 1 not(TMP\_1) = 0 TMP\_2 = 0 not(TMP\_2) = 1 TMP\_3 = 1 not(TMP\_3) = 0 TMP\_4 = 3 TMP\_5 = 0 not(TMP\_5) = 1 TMP\_6 = 0 not(TMP\_6) = 1 TMP\_7 = 0 TMP\_8 = 1 not(TMP\_8) = 0 TMP\_9 = 1 not(TMP\_9) = 0 TMP\_10 = 2 TMP\_11 = 0 not(TMP\_11) = 1 TMP\_12 = 0 not(TMP\_12) = 1 TMP\_13 = 1 not(TMP\_13) = 0 TMP\_14 = 1 not(TMP\_14) = 0 TMP\_15 = 1 not(TMP\_15) = 0 TMP\_16 = 2 TMP\_17 = 0 not(TMP\_17) = 1 TMP\_18 = 1 not(TMP\_18) = 0 TMP\_19 = 1 not(TMP\_19) = 0 TMP\_20 = 1 not(TMP\_20) = 0 TMP\_21 = 3 TMP\_22 = 0 not(TMP\_22) = 1 TMP\_23 = 0 not(TMP\_23) = 1 TMP\_24 = 0 TMP\_25 = 1 not(TMP\_25) = 0 TMP\_26 = 1 not(TMP\_26) = 0 TMP\_27 = 2 TMP\_28 = 0 not(TMP\_28) = 1 TMP\_29 = 0 not(TMP\_29) = 1 TMP\_30 = 1 not(TMP\_30) = 0 TMP\_31 = 1 not(TMP\_31) = 0 TMP\_32 = 1 not(TMP\_32) = 0 TMP\_33 = 2 TMP\_34 = 0 not(TMP\_34) = 1 TMP\_35 = 1 not(TMP\_35) = 0 TMP\_36 = 1 not(TMP\_36) = 0 TMP\_37 = 1 not(TMP\_37) = 0 TMP\_38 = 3 TMP\_39 = 0 not(TMP\_39) = 1 TMP\_40 = 0 not(TMP\_40) = 1 TMP\_41 = 0 TMP\_42 = 1 not(TMP\_42) = 0 TMP\_43 = 1 not(TMP\_43) = 0 TMP\_44 = 2 TMP\_45 = 0 not(TMP\_45) = 1 TMP\_46 = 0 not(TMP\_46) = 1 TMP\_47 = 1 not(TMP\_47) = 0 TMP\_48 = 1 not(TMP\_48) = 0 TMP\_49 = 1 not(TMP\_49) = 0 TMP\_50 = 2 TMP\_51 = 0 not(TMP\_51) = 1 TMP\_52 = 1 not(TMP\_52) = 0 TMP\_53 = 0 not(TMP\_53) = 1 TMP\_54 = 1 not(TMP\_54) = 0 TMP\_55 = 2 TMP\_56 = 0 not(TMP\_56) = 1 TMP\_57 = 0 not(TMP\_57) = 1 TMP\_58 = 0 TMP\_59 = 1 not(TMP\_59) = 0 TMP\_60 = 1 not(TMP\_60) = 0 TMP\_61 = 2 TMP\_62 = 0 not(TMP\_62) = 1 TMP\_63 = 0 not(TMP\_63) = 1 TMP\_64 = 1 not(TMP\_64) = 0 TMP\_65 = 1 not(TMP\_65) = 0 TMP\_66 = 1 not(TMP\_66) = 0 TMP\_67 = 2 TMP\_68 = 1 not(TMP\_68) = 0 TMP\_69 = 0 not(TMP\_69) = 1 TMP\_70 = 1 not(TMP\_70) = 0 TMP\_71 = 1 not(TMP\_71) = 0 TMP\_72 = 3 TMP\_73 = 0 not(TMP\_73) = 1 TMP\_74 = 0 not(TMP\_74) = 1 TMP\_75 = 0 TMP\_76 = 1 not(TMP\_76) = 0 TMP\_77 = 1 not(TMP\_77) = 0 TMP\_78 = 2 TMP\_79 = 0 not(TMP\_79) = 1 TMP\_80 = 0 not(TMP\_80) = 1 TMP\_81 = 1 not(TMP\_81) = 0 TMP\_82 = 1 not(TMP\_82) = 0 TMP\_83 = 1 not(TMP\_83) = 0 TMP\_84 = 2 TMP\_85 = 1 not(TMP\_85) = 0 TMP\_86 = 0 not(TMP\_86) = 1 TMP\_87 = 1 not(TMP\_87) = 0 TMP\_88 = 1 not(TMP\_88) = 0 TMP\_89 = 3 TMP\_90 = 0 not(TMP\_90) = 1 TMP\_91 = 0 not(TMP\_91) = 1 TMP\_92 = 0 TMP\_93 = 1 not(TMP\_93) = 0 TMP\_94 = 1 not(TMP\_94) = 0 TMP\_95 = 2 TMP\_96 = 0 not(TMP\_96) = 1 TMP\_97 = 0 not(TMP\_97) = 1 TMP\_98 = 1 not(TMP\_98) = 0 TMP\_99 = 1 not(TMP\_99) = 0 TMP\_100 = 1 not(TMP\_100) = 0 TMP\_101 = 2 TMP\_102 = 1 not(TMP\_102) = 0 TMP\_103 = 1 not(TMP\_103) = 0 TMP\_104 = 1 not(TMP\_104) = 0 TMP\_105 = 0 not(TMP\_105) = 1 TMP\_106 = 3 TMP\_107 = 0 not(TMP\_107) = 1 TMP\_108 = 0 not(TMP\_108) = 1 TMP\_109 = 0 TMP\_110 = 1 not(TMP\_110) = 0 TMP\_111 = 1 not(TMP\_111) = 0 TMP\_112 = 2 TMP\_113 = 0 not(TMP\_113) = 1 TMP\_114 = 0 not(TMP\_114) = 1 TMP\_115 = 1 not(TMP\_115) = 0 TMP\_116 = 1 not(TMP\_116) = 0 TMP\_117 = 1 not(TMP\_117) = 0 TMP\_118 = 2 TMP\_119 = 1 not(TMP\_119) = 0 TMP\_120 = 0 not(TMP\_120) = 1 TMP\_121 = 1 not(TMP\_121) = 0 TMP\_122 = 0 not(TMP\_122) = 1 TMP\_123 = 2 TMP\_124 = 0 not(TMP\_124) = 1 TMP\_125 = 0 not(TMP\_125) = 1 TMP\_126 = 0 TMP\_127 = 1 not(TMP\_127) = 0 TMP\_128 = 1 not(TMP\_128) = 0 TMP\_129 = 2 TMP\_130 = 0 not(TMP\_130) = 1 TMP\_131 = 0 not(TMP\_131) = 1 TMP\_132 = 1 not(TMP\_132) = 0 TMP\_133 = 1 not(TMP\_133) = 0 TMP\_134 = 1 not(TMP\_134) = 0 TMP\_135 = 2 Area\_0 = 60 Distance\_0\_Rule\_0 = 60 Distance\_1\_Rule\_0 = 1 Area\_1 = 70 Distance\_0\_Rule\_1 = 35 Distance\_1\_Rule\_1 = 2 Area\_2 = 30 Distance\_0\_Rule\_2 = 30 Distance\_1\_Rule\_2 = 1 Area\_3 = 60 -(Rule\_3\_LB) = -60 Distance\_0\_Rule\_3 = 60 -(Rule\_3\_LB) = -1 Distance\_1\_Rule\_3 = 1 Area\_4 = 20 -(Rule\_4\_LB) = 0 Distance\_0\_Rule\_4 = 20 -(Rule\_4\_LB) = 0 Distance\_1\_Rule\_4 = 1 TMP\_136 = 240 .

- Solution #5 found. 5 Solutions, Resolution 0.034s, 23 Nodes (683.0 n/s), 18 Backtracks, 6 Fails, 0 Restarts

Rule\_3\_LB = 60 Rule\_3\_UB = 120 Rule\_3\_LB = 1 Rule\_3\_UB = 2 Rule\_4\_LB = 0 Rule\_4\_UB = 20 Rule\_4\_LB = 0 Rule\_4\_UB = 1 Overlaps\_0\_0 = 0 Overlaps\_0\_1 = 0 Overlaps\_0\_2 = 0 Overlaps\_0\_3 = 0 Overlaps\_0\_4 = 0 Overlaps\_1\_0 = 1 Overlaps\_1\_1 = 0 Overlaps\_1\_2 = 0 Overlaps\_1\_3 = 0 Overlaps\_1\_4 = 0 Overlaps\_2\_0 = 0 Overlaps\_2\_1 = 0 Overlaps\_2\_2 = 0 Overlaps\_2\_3 = 0 Overlaps\_2\_4 = 0 Overlaps\_3\_0 = 0 Overlaps\_3\_1 = 0 Overlaps\_3\_2 = 0 Overlaps\_3\_3 = 0 Overlaps\_3\_4 = 0 Overlaps\_4\_0 = 0 Overlaps\_4\_1 = 0 Overlaps\_4\_2 = 0 Overlaps\_4\_3 = 0 Overlaps\_4\_4 = 0 TMP\_0 = 1 not(TMP\_0) = 0 TMP\_1 = 1 not(TMP\_1) = 0 TMP\_2 = 0 not(TMP\_2) = 1 TMP\_3 = 1 not(TMP\_3) = 0 TMP\_4 = 3 TMP\_5 = 0 not(TMP\_5) = 1 TMP\_6 = 0 not(TMP\_6) = 1 TMP\_7 = 0 TMP\_8 = 1 not(TMP\_8) = 0 TMP\_9 = 1 not(TMP\_9) = 0 TMP\_10 = 2 TMP\_11 = 0 not(TMP\_11) = 1 TMP\_12 = 0 not(TMP\_12) = 1 TMP\_13 = 1 not(TMP\_13) = 0 TMP\_14 = 1 not(TMP\_14) = 0 TMP\_15 = 1 not(TMP\_15) = 0 TMP\_16 = 2 TMP\_17 = 0 not(TMP\_17) = 1 TMP\_18 = 1 not(TMP\_18) = 0 TMP\_19 = 1 not(TMP\_19) = 0 TMP\_20 = 1 not(TMP\_20) = 0 TMP\_21 = 3 TMP\_22 = 0 not(TMP\_22) = 1 TMP\_23 = 0 not(TMP\_23) = 1 TMP\_24 = 0 TMP\_25 = 1 not(TMP\_25) = 0 TMP\_26 = 1 not(TMP\_26) = 0 TMP\_27 = 2 TMP\_28 = 0 not(TMP\_28) = 1 TMP\_29 = 0 not(TMP\_29) = 1 TMP\_30 = 1 not(TMP\_30) = 0 TMP\_31 = 1 not(TMP\_31) = 0 TMP\_32 = 1 not(TMP\_32) = 0 TMP\_33 = 2 TMP\_34 = 0 not(TMP\_34) = 1 TMP\_35 = 1 not(TMP\_35) = 0 TMP\_36 = 1 not(TMP\_36) = 0 TMP\_37 = 1 not(TMP\_37) = 0 TMP\_38 = 3 TMP\_39 = 0 not(TMP\_39) = 1 TMP\_40 = 0 not(TMP\_40) = 1 TMP\_41 = 0 TMP\_42 = 1 not(TMP\_42) = 0 TMP\_43 = 1 not(TMP\_43) = 0 TMP\_44 = 2 TMP\_45 = 0 not(TMP\_45) = 1 TMP\_46 = 0 not(TMP\_46) = 1 TMP\_47 = 1 not(TMP\_47) = 0 TMP\_48 = 1 not(TMP\_48) = 0 TMP\_49 = 1 not(TMP\_49) = 0 TMP\_50 = 2 TMP\_51 = 0 not(TMP\_51) = 1 TMP\_52 = 1 not(TMP\_52) = 0 TMP\_53 = 0 not(TMP\_53) = 1 TMP\_54 = 1 not(TMP\_54) = 0 TMP\_55 = 2 TMP\_56 = 0 not(TMP\_56) = 1 TMP\_57 = 0 not(TMP\_57) = 1 TMP\_58 = 0 TMP\_59 = 1 not(TMP\_59) = 0 TMP\_60 = 1 not(TMP\_60) = 0 TMP\_61 = 2 TMP\_62 = 0 not(TMP\_62) = 1 TMP\_63 = 0 not(TMP\_63) = 1 TMP\_64 = 1 not(TMP\_64) = 0 TMP\_65 = 1 not(TMP\_65) = 0 TMP\_66 = 1 not(TMP\_66) = 0 TMP\_67 = 2 TMP\_68 = 1 not(TMP\_68) = 0 TMP\_69 = 0 not(TMP\_69) = 1 TMP\_70 = 1 not(TMP\_70) = 0 TMP\_71 = 1 not(TMP\_71) = 0 TMP\_72 = 3 TMP\_73 = 0 not(TMP\_73) = 1 TMP\_74 = 0 not(TMP\_74) = 1 TMP\_75 = 0 TMP\_76 = 1 not(TMP\_76) = 0 TMP\_77 = 1 not(TMP\_77) = 0 TMP\_78 = 2 TMP\_79 = 0 not(TMP\_79) = 1 TMP\_80 = 0 not(TMP\_80) = 1 TMP\_81 = 1 not(TMP\_81) = 0 TMP\_82 = 1 not(TMP\_82) = 0 TMP\_83 = 1 not(TMP\_83) = 0 TMP\_84 = 2 TMP\_85 = 1 not(TMP\_85) = 0 TMP\_86 = 0 not(TMP\_86) = 1 TMP\_87 = 1 not(TMP\_87) = 0 TMP\_88 = 1 not(TMP\_88) = 0 TMP\_89 = 3 TMP\_90 = 0 not(TMP\_90) = 1 TMP\_91 = 0 not(TMP\_91) = 1 TMP\_92 = 0 TMP\_93 = 1 not(TMP\_93) = 0 TMP\_94 = 1 not(TMP\_94) = 0 TMP\_95 = 2 TMP\_96 = 0 not(TMP\_96) = 1 TMP\_97 = 0 not(TMP\_97) = 1 TMP\_98 = 1 not(TMP\_98) = 0 TMP\_99 = 1 not(TMP\_99) = 0 TMP\_100 = 1 not(TMP\_100) = 0 TMP\_101 = 2 TMP\_102 = 1 not(TMP\_102) = 0 TMP\_103 = 1 not(TMP\_103) = 0 TMP\_104 = 1 not(TMP\_104) = 0 TMP\_105 = 0 not(TMP\_105) = 1 TMP\_106 = 3 TMP\_107 = 0 not(TMP\_107) = 1 TMP\_108 = 0 not(TMP\_108) = 1 TMP\_109 = 0 TMP\_110 = 1 not(TMP\_110) = 0 TMP\_111 = 1 not(TMP\_111) = 0 TMP\_112 = 2 TMP\_113 = 0 not(TMP\_113) = 1 TMP\_114 = 0 not(TMP\_114) = 1 TMP\_115 = 1 not(TMP\_115) = 0 TMP\_116 = 1 not(TMP\_116) = 0 TMP\_117 = 1 not(TMP\_117) = 0 TMP\_118 = 2 TMP\_119 = 1 not(TMP\_119) = 0 TMP\_120 = 0 not(TMP\_120) = 1 TMP\_121 = 1 not(TMP\_121) = 0 TMP\_122 = 0 not(TMP\_122) = 1 TMP\_123 = 2 TMP\_124 = 0 not(TMP\_124) = 1 TMP\_125 = 0 not(TMP\_125) = 1 TMP\_126 = 0 TMP\_127 = 1 not(TMP\_127) = 0 TMP\_128 = 1 not(TMP\_128) = 0 TMP\_129 = 2 TMP\_130 = 0 not(TMP\_130) = 1 TMP\_131 = 0 not(TMP\_131) = 1 TMP\_132 = 1 not(TMP\_132) = 0 TMP\_133 = 1 not(TMP\_133) = 0 TMP\_134 = 1 not(TMP\_134) = 0 TMP\_135 = 2 Area\_0 = 60 Distance\_0\_Rule\_0 = 60 Distance\_1\_Rule\_0 = 1 Area\_1 = 70 Distance\_0\_Rule\_1 = 35 Distance\_1\_Rule\_1 = 2 Area\_2 = 30 Distance\_0\_Rule\_2 = 30 Distance\_1\_Rule\_2 = 1 Area\_3 = 60 -(Rule\_3\_LB) = -60 Distance\_0\_Rule\_3 = 60 -(Rule\_3\_LB) = -1 Distance\_1\_Rule\_3 = 1 Area\_4 = 20 -(Rule\_4\_LB) = 0 Distance\_0\_Rule\_4 = 20 -(Rule\_4\_LB) = 0 Distance\_1\_Rule\_4 = 1 TMP\_136 = 240 .

- Solution #6 found. 6 Solutions, Resolution 0.035s, 24 Nodes (680.9 n/s), 19 Backtracks, 6 Fails, 0 Restarts

Rule\_3\_LB = 60 Rule\_3\_UB = 120 Rule\_3\_LB = 1 Rule\_3\_UB = 2 Rule\_4\_LB = 0 Rule\_4\_UB = 20 Rule\_4\_LB = 0 Rule\_4\_UB = 1 Overlaps\_0\_0 = 0 Overlaps\_0\_1 = 1 Overlaps\_0\_2 = 0 Overlaps\_0\_3 = 0 Overlaps\_0\_4 = 0 Overlaps\_1\_0 = 1 Overlaps\_1\_1 = 0 Overlaps\_1\_2 = 0 Overlaps\_1\_3 = 0 Overlaps\_1\_4 = 0 Overlaps\_2\_0 = 0 Overlaps\_2\_1 = 0 Overlaps\_2\_2 = 0 Overlaps\_2\_3 = 0 Overlaps\_2\_4 = 0 Overlaps\_3\_0 = 0 Overlaps\_3\_1 = 0 Overlaps\_3\_2 = 0 Overlaps\_3\_3 = 0 Overlaps\_3\_4 = 0 Overlaps\_4\_0 = 0 Overlaps\_4\_1 = 0 Overlaps\_4\_2 = 0 Overlaps\_4\_3 = 0 Overlaps\_4\_4 = 0 TMP\_0 = 1 not(TMP\_0) = 0 TMP\_1 = 1 not(TMP\_1) = 0 TMP\_2 = 0 not(TMP\_2) = 1 TMP\_3 = 1 not(TMP\_3) = 0 TMP\_4 = 3 TMP\_5 = 0 not(TMP\_5) = 1 TMP\_6 = 0 not(TMP\_6) = 1 TMP\_7 = 0 TMP\_8 = 1 not(TMP\_8) = 0 TMP\_9 = 1 not(TMP\_9) = 0 TMP\_10 = 2 TMP\_11 = 0 not(TMP\_11) = 1 TMP\_12 = 0 not(TMP\_12) = 1 TMP\_13 = 1 not(TMP\_13) = 0 TMP\_14 = 1 not(TMP\_14) = 0 TMP\_15 = 1 not(TMP\_15) = 0 TMP\_16 = 2 TMP\_17 = 0 not(TMP\_17) = 1 TMP\_18 = 1 not(TMP\_18) = 0 TMP\_19 = 1 not(TMP\_19) = 0 TMP\_20 = 1 not(TMP\_20) = 0 TMP\_21 = 3 TMP\_22 = 0 not(TMP\_22) = 1 TMP\_23 = 0 not(TMP\_23) = 1 TMP\_24 = 0 TMP\_25 = 1 not(TMP\_25) = 0 TMP\_26 = 1 not(TMP\_26) = 0 TMP\_27 = 2 TMP\_28 = 0 not(TMP\_28) = 1 TMP\_29 = 0 not(TMP\_29) = 1 TMP\_30 = 1 not(TMP\_30) = 0 TMP\_31 = 1 not(TMP\_31) = 0 TMP\_32 = 1 not(TMP\_32) = 0 TMP\_33 = 2 TMP\_34 = 0 not(TMP\_34) = 1 TMP\_35 = 1 not(TMP\_35) = 0 TMP\_36 = 1 not(TMP\_36) = 0 TMP\_37 = 1 not(TMP\_37) = 0 TMP\_38 = 3 TMP\_39 = 0 not(TMP\_39) = 1 TMP\_40 = 0 not(TMP\_40) = 1 TMP\_41 = 0 TMP\_42 = 1 not(TMP\_42) = 0 TMP\_43 = 1 not(TMP\_43) = 0 TMP\_44 = 2 TMP\_45 = 0 not(TMP\_45) = 1 TMP\_46 = 0 not(TMP\_46) = 1 TMP\_47 = 1 not(TMP\_47) = 0 TMP\_48 = 1 not(TMP\_48) = 0 TMP\_49 = 1 not(TMP\_49) = 0 TMP\_50 = 2 TMP\_51 = 0 not(TMP\_51) = 1 TMP\_52 = 1 not(TMP\_52) = 0 TMP\_53 = 0 not(TMP\_53) = 1 TMP\_54 = 1 not(TMP\_54) = 0 TMP\_55 = 2 TMP\_56 = 0 not(TMP\_56) = 1 TMP\_57 = 0 not(TMP\_57) = 1 TMP\_58 = 0 TMP\_59 = 1 not(TMP\_59) = 0 TMP\_60 = 1 not(TMP\_60) = 0 TMP\_61 = 2 TMP\_62 = 0 not(TMP\_62) = 1 TMP\_63 = 0 not(TMP\_63) = 1 TMP\_64 = 1 not(TMP\_64) = 0 TMP\_65 = 1 not(TMP\_65) = 0 TMP\_66 = 1 not(TMP\_66) = 0 TMP\_67 = 2 TMP\_68 = 1 not(TMP\_68) = 0 TMP\_69 = 0 not(TMP\_69) = 1 TMP\_70 = 1 not(TMP\_70) = 0 TMP\_71 = 1 not(TMP\_71) = 0 TMP\_72 = 3 TMP\_73 = 0 not(TMP\_73) = 1 TMP\_74 = 0 not(TMP\_74) = 1 TMP\_75 = 0 TMP\_76 = 1 not(TMP\_76) = 0 TMP\_77 = 1 not(TMP\_77) = 0 TMP\_78 = 2 TMP\_79 = 0 not(TMP\_79) = 1 TMP\_80 = 0 not(TMP\_80) = 1 TMP\_81 = 1 not(TMP\_81) = 0 TMP\_82 = 1 not(TMP\_82) = 0 TMP\_83 = 1 not(TMP\_83) = 0 TMP\_84 = 2 TMP\_85 = 1 not(TMP\_85) = 0 TMP\_86 = 0 not(TMP\_86) = 1 TMP\_87 = 1 not(TMP\_87) = 0 TMP\_88 = 1 not(TMP\_88) = 0 TMP\_89 = 3 TMP\_90 = 0 not(TMP\_90) = 1 TMP\_91 = 0 not(TMP\_91) = 1 TMP\_92 = 0 TMP\_93 = 1 not(TMP\_93) = 0 TMP\_94 = 1 not(TMP\_94) = 0 TMP\_95 = 2 TMP\_96 = 0 not(TMP\_96) = 1 TMP\_97 = 0 not(TMP\_97) = 1 TMP\_98 = 1 not(TMP\_98) = 0 TMP\_99 = 1 not(TMP\_99) = 0 TMP\_100 = 1 not(TMP\_100) = 0 TMP\_101 = 2 TMP\_102 = 1 not(TMP\_102) = 0 TMP\_103 = 1 not(TMP\_103) = 0 TMP\_104 = 1 not(TMP\_104) = 0 TMP\_105 = 0 not(TMP\_105) = 1 TMP\_106 = 3 TMP\_107 = 0 not(TMP\_107) = 1 TMP\_108 = 0 not(TMP\_108) = 1 TMP\_109 = 0 TMP\_110 = 1 not(TMP\_110) = 0 TMP\_111 = 1 not(TMP\_111) = 0 TMP\_112 = 2 TMP\_113 = 0 not(TMP\_113) = 1 TMP\_114 = 0 not(TMP\_114) = 1 TMP\_115 = 1 not(TMP\_115) = 0 TMP\_116 = 1 not(TMP\_116) = 0 TMP\_117 = 1 not(TMP\_117) = 0 TMP\_118 = 2 TMP\_119 = 1 not(TMP\_119) = 0 TMP\_120 = 0 not(TMP\_120) = 1 TMP\_121 = 1 not(TMP\_121) = 0 TMP\_122 = 0 not(TMP\_122) = 1 TMP\_123 = 2 TMP\_124 = 0 not(TMP\_124) = 1 TMP\_125 = 0 not(TMP\_125) = 1 TMP\_126 = 0 TMP\_127 = 1 not(TMP\_127) = 0 TMP\_128 = 1 not(TMP\_128) = 0 TMP\_129 = 2 TMP\_130 = 0 not(TMP\_130) = 1 TMP\_131 = 0 not(TMP\_131) = 1 TMP\_132 = 1 not(TMP\_132) = 0 TMP\_133 = 1 not(TMP\_133) = 0 TMP\_134 = 1 not(TMP\_134) = 0 TMP\_135 = 2 Area\_0 = 60 Distance\_0\_Rule\_0 = 60 Distance\_1\_Rule\_0 = 1 Area\_1 = 70 Distance\_0\_Rule\_1 = 35 Distance\_1\_Rule\_1 = 2 Area\_2 = 30 Distance\_0\_Rule\_2 = 30 Distance\_1\_Rule\_2 = 1 Area\_3 = 60 -(Rule\_3\_LB) = -60 Distance\_0\_Rule\_3 = 60 -(Rule\_3\_LB) = -1 Distance\_1\_Rule\_3 = 1 Area\_4 = 20 -(Rule\_4\_LB) = 0 Distance\_0\_Rule\_4 = 20 -(Rule\_4\_LB) = 0 Distance\_1\_Rule\_4 = 1 TMP\_136 = 240 .

- Solution #7 found. 7 Solutions, Resolution 0.038s, 26 Nodes (691.7 n/s), 21 Backtracks, 6 Fails, 0 Restarts

Rule\_3\_LB = 60 Rule\_3\_UB = 120 Rule\_3\_LB = 1 Rule\_3\_UB = 2 Rule\_4\_LB = 0 Rule\_4\_UB = 20 Rule\_4\_LB = 0 Rule\_4\_UB = 1 Overlaps\_0\_0 = 0 Overlaps\_0\_1 = 0 Overlaps\_0\_2 = 1 Overlaps\_0\_3 = 0 Overlaps\_0\_4 = 0 Overlaps\_1\_0 = 1 Overlaps\_1\_1 = 0 Overlaps\_1\_2 = 0 Overlaps\_1\_3 = 0 Overlaps\_1\_4 = 0 Overlaps\_2\_0 = 0 Overlaps\_2\_1 = 0 Overlaps\_2\_2 = 0 Overlaps\_2\_3 = 0 Overlaps\_2\_4 = 0 Overlaps\_3\_0 = 0 Overlaps\_3\_1 = 0 Overlaps\_3\_2 = 0 Overlaps\_3\_3 = 0 Overlaps\_3\_4 = 0 Overlaps\_4\_0 = 0 Overlaps\_4\_1 = 0 Overlaps\_4\_2 = 0 Overlaps\_4\_3 = 0 Overlaps\_4\_4 = 0 TMP\_0 = 1 not(TMP\_0) = 0 TMP\_1 = 1 not(TMP\_1) = 0 TMP\_2 = 0 not(TMP\_2) = 1 TMP\_3 = 1 not(TMP\_3) = 0 TMP\_4 = 3 TMP\_5 = 0 not(TMP\_5) = 1 TMP\_6 = 0 not(TMP\_6) = 1 TMP\_7 = 0 TMP\_8 = 1 not(TMP\_8) = 0 TMP\_9 = 1 not(TMP\_9) = 0 TMP\_10 = 2 TMP\_11 = 0 not(TMP\_11) = 1 TMP\_12 = 0 not(TMP\_12) = 1 TMP\_13 = 1 not(TMP\_13) = 0 TMP\_14 = 1 not(TMP\_14) = 0 TMP\_15 = 1 not(TMP\_15) = 0 TMP\_16 = 2 TMP\_17 = 0 not(TMP\_17) = 1 TMP\_18 = 1 not(TMP\_18) = 0 TMP\_19 = 1 not(TMP\_19) = 0 TMP\_20 = 1 not(TMP\_20) = 0 TMP\_21 = 3 TMP\_22 = 0 not(TMP\_22) = 1 TMP\_23 = 0 not(TMP\_23) = 1 TMP\_24 = 0 TMP\_25 = 1 not(TMP\_25) = 0 TMP\_26 = 1 not(TMP\_26) = 0 TMP\_27 = 2 TMP\_28 = 0 not(TMP\_28) = 1 TMP\_29 = 0 not(TMP\_29) = 1 TMP\_30 = 1 not(TMP\_30) = 0 TMP\_31 = 1 not(TMP\_31) = 0 TMP\_32 = 1 not(TMP\_32) = 0 TMP\_33 = 2 TMP\_34 = 0 not(TMP\_34) = 1 TMP\_35 = 1 not(TMP\_35) = 0 TMP\_36 = 1 not(TMP\_36) = 0 TMP\_37 = 1 not(TMP\_37) = 0 TMP\_38 = 3 TMP\_39 = 0 not(TMP\_39) = 1 TMP\_40 = 0 not(TMP\_40) = 1 TMP\_41 = 0 TMP\_42 = 1 not(TMP\_42) = 0 TMP\_43 = 1 not(TMP\_43) = 0 TMP\_44 = 2 TMP\_45 = 0 not(TMP\_45) = 1 TMP\_46 = 0 not(TMP\_46) = 1 TMP\_47 = 1 not(TMP\_47) = 0 TMP\_48 = 1 not(TMP\_48) = 0 TMP\_49 = 1 not(TMP\_49) = 0 TMP\_50 = 2 TMP\_51 = 0 not(TMP\_51) = 1 TMP\_52 = 1 not(TMP\_52) = 0 TMP\_53 = 0 not(TMP\_53) = 1 TMP\_54 = 1 not(TMP\_54) = 0 TMP\_55 = 2 TMP\_56 = 0 not(TMP\_56) = 1 TMP\_57 = 0 not(TMP\_57) = 1 TMP\_58 = 0 TMP\_59 = 1 not(TMP\_59) = 0 TMP\_60 = 1 not(TMP\_60) = 0 TMP\_61 = 2 TMP\_62 = 0 not(TMP\_62) = 1 TMP\_63 = 0 not(TMP\_63) = 1 TMP\_64 = 1 not(TMP\_64) = 0 TMP\_65 = 1 not(TMP\_65) = 0 TMP\_66 = 1 not(TMP\_66) = 0 TMP\_67 = 2 TMP\_68 = 1 not(TMP\_68) = 0 TMP\_69 = 0 not(TMP\_69) = 1 TMP\_70 = 1 not(TMP\_70) = 0 TMP\_71 = 1 not(TMP\_71) = 0 TMP\_72 = 3 TMP\_73 = 0 not(TMP\_73) = 1 TMP\_74 = 0 not(TMP\_74) = 1 TMP\_75 = 0 TMP\_76 = 1 not(TMP\_76) = 0 TMP\_77 = 1 not(TMP\_77) = 0 TMP\_78 = 2 TMP\_79 = 0 not(TMP\_79) = 1 TMP\_80 = 0 not(TMP\_80) = 1 TMP\_81 = 1 not(TMP\_81) = 0 TMP\_82 = 1 not(TMP\_82) = 0 TMP\_83 = 1 not(TMP\_83) = 0 TMP\_84 = 2 TMP\_85 = 1 not(TMP\_85) = 0 TMP\_86 = 0 not(TMP\_86) = 1 TMP\_87 = 1 not(TMP\_87) = 0 TMP\_88 = 1 not(TMP\_88) = 0 TMP\_89 = 3 TMP\_90 = 0 not(TMP\_90) = 1 TMP\_91 = 0 not(TMP\_91) = 1 TMP\_92 = 0 TMP\_93 = 1 not(TMP\_93) = 0 TMP\_94 = 1 not(TMP\_94) = 0 TMP\_95 = 2 TMP\_96 = 0 not(TMP\_96) = 1 TMP\_97 = 0 not(TMP\_97) = 1 TMP\_98 = 1 not(TMP\_98) = 0 TMP\_99 = 1 not(TMP\_99) = 0 TMP\_100 = 1 not(TMP\_100) = 0 TMP\_101 = 2 TMP\_102 = 1 not(TMP\_102) = 0 TMP\_103 = 1 not(TMP\_103) = 0 TMP\_104 = 1 not(TMP\_104) = 0 TMP\_105 = 0 not(TMP\_105) = 1 TMP\_106 = 3 TMP\_107 = 0 not(TMP\_107) = 1 TMP\_108 = 0 not(TMP\_108) = 1 TMP\_109 = 0 TMP\_110 = 1 not(TMP\_110) = 0 TMP\_111 = 1 not(TMP\_111) = 0 TMP\_112 = 2 TMP\_113 = 0 not(TMP\_113) = 1 TMP\_114 = 0 not(TMP\_114) = 1 TMP\_115 = 1 not(TMP\_115) = 0 TMP\_116 = 1 not(TMP\_116) = 0 TMP\_117 = 1 not(TMP\_117) = 0 TMP\_118 = 2 TMP\_119 = 1 not(TMP\_119) = 0 TMP\_120 = 0 not(TMP\_120) = 1 TMP\_121 = 1 not(TMP\_121) = 0 TMP\_122 = 0 not(TMP\_122) = 1 TMP\_123 = 2 TMP\_124 = 0 not(TMP\_124) = 1 TMP\_125 = 0 not(TMP\_125) = 1 TMP\_126 = 0 TMP\_127 = 1 not(TMP\_127) = 0 TMP\_128 = 1 not(TMP\_128) = 0 TMP\_129 = 2 TMP\_130 = 0 not(TMP\_130) = 1 TMP\_131 = 0 not(TMP\_131) = 1 TMP\_132 = 1 not(TMP\_132) = 0 TMP\_133 = 1 not(TMP\_133) = 0 TMP\_134 = 1 not(TMP\_134) = 0 TMP\_135 = 2 Area\_0 = 60 Distance\_0\_Rule\_0 = 60 Distance\_1\_Rule\_0 = 1 Area\_1 = 70 Distance\_0\_Rule\_1 = 35 Distance\_1\_Rule\_1 = 2 Area\_2 = 30 Distance\_0\_Rule\_2 = 30 Distance\_1\_Rule\_2 = 1 Area\_3 = 60 -(Rule\_3\_LB) = -60 Distance\_0\_Rule\_3 = 60 -(Rule\_3\_LB) = -1 Distance\_1\_Rule\_3 = 1 Area\_4 = 20 -(Rule\_4\_LB) = 0 Distance\_0\_Rule\_4 = 20 -(Rule\_4\_LB) = 0 Distance\_1\_Rule\_4 = 1 TMP\_136 = 240 .

- Solution #8 found. 8 Solutions, Resolution 0.039s, 27 Nodes (685.4 n/s), 22 Backtracks, 6 Fails, 0 Restarts

Rule\_3\_LB = 60 Rule\_3\_UB = 120 Rule\_3\_LB = 1 Rule\_3\_UB = 2 Rule\_4\_LB = 0 Rule\_4\_UB = 20 Rule\_4\_LB = 0 Rule\_4\_UB = 1 Overlaps\_0\_0 = 0 Overlaps\_0\_1 = 1 Overlaps\_0\_2 = 1 Overlaps\_0\_3 = 0 Overlaps\_0\_4 = 0 Overlaps\_1\_0 = 1 Overlaps\_1\_1 = 0 Overlaps\_1\_2 = 0 Overlaps\_1\_3 = 0 Overlaps\_1\_4 = 0 Overlaps\_2\_0 = 0 Overlaps\_2\_1 = 0 Overlaps\_2\_2 = 0 Overlaps\_2\_3 = 0 Overlaps\_2\_4 = 0 Overlaps\_3\_0 = 0 Overlaps\_3\_1 = 0 Overlaps\_3\_2 = 0 Overlaps\_3\_3 = 0 Overlaps\_3\_4 = 0 Overlaps\_4\_0 = 0 Overlaps\_4\_1 = 0 Overlaps\_4\_2 = 0 Overlaps\_4\_3 = 0 Overlaps\_4\_4 = 0 TMP\_0 = 1 not(TMP\_0) = 0 TMP\_1 = 1 not(TMP\_1) = 0 TMP\_2 = 0 not(TMP\_2) = 1 TMP\_3 = 1 not(TMP\_3) = 0 TMP\_4 = 3 TMP\_5 = 0 not(TMP\_5) = 1 TMP\_6 = 0 not(TMP\_6) = 1 TMP\_7 = 0 TMP\_8 = 1 not(TMP\_8) = 0 TMP\_9 = 1 not(TMP\_9) = 0 TMP\_10 = 2 TMP\_11 = 0 not(TMP\_11) = 1 TMP\_12 = 0 not(TMP\_12) = 1 TMP\_13 = 1 not(TMP\_13) = 0 TMP\_14 = 1 not(TMP\_14) = 0 TMP\_15 = 1 not(TMP\_15) = 0 TMP\_16 = 2 TMP\_17 = 0 not(TMP\_17) = 1 TMP\_18 = 1 not(TMP\_18) = 0 TMP\_19 = 1 not(TMP\_19) = 0 TMP\_20 = 1 not(TMP\_20) = 0 TMP\_21 = 3 TMP\_22 = 0 not(TMP\_22) = 1 TMP\_23 = 0 not(TMP\_23) = 1 TMP\_24 = 0 TMP\_25 = 1 not(TMP\_25) = 0 TMP\_26 = 1 not(TMP\_26) = 0 TMP\_27 = 2 TMP\_28 = 0 not(TMP\_28) = 1 TMP\_29 = 0 not(TMP\_29) = 1 TMP\_30 = 1 not(TMP\_30) = 0 TMP\_31 = 1 not(TMP\_31) = 0 TMP\_32 = 1 not(TMP\_32) = 0 TMP\_33 = 2 TMP\_34 = 0 not(TMP\_34) = 1 TMP\_35 = 1 not(TMP\_35) = 0 TMP\_36 = 1 not(TMP\_36) = 0 TMP\_37 = 1 not(TMP\_37) = 0 TMP\_38 = 3 TMP\_39 = 0 not(TMP\_39) = 1 TMP\_40 = 0 not(TMP\_40) = 1 TMP\_41 = 0 TMP\_42 = 1 not(TMP\_42) = 0 TMP\_43 = 1 not(TMP\_43) = 0 TMP\_44 = 2 TMP\_45 = 0 not(TMP\_45) = 1 TMP\_46 = 0 not(TMP\_46) = 1 TMP\_47 = 1 not(TMP\_47) = 0 TMP\_48 = 1 not(TMP\_48) = 0 TMP\_49 = 1 not(TMP\_49) = 0 TMP\_50 = 2 TMP\_51 = 0 not(TMP\_51) = 1 TMP\_52 = 1 not(TMP\_52) = 0 TMP\_53 = 0 not(TMP\_53) = 1 TMP\_54 = 1 not(TMP\_54) = 0 TMP\_55 = 2 TMP\_56 = 0 not(TMP\_56) = 1 TMP\_57 = 0 not(TMP\_57) = 1 TMP\_58 = 0 TMP\_59 = 1 not(TMP\_59) = 0 TMP\_60 = 1 not(TMP\_60) = 0 TMP\_61 = 2 TMP\_62 = 0 not(TMP\_62) = 1 TMP\_63 = 0 not(TMP\_63) = 1 TMP\_64 = 1 not(TMP\_64) = 0 TMP\_65 = 1 not(TMP\_65) = 0 TMP\_66 = 1 not(TMP\_66) = 0 TMP\_67 = 2 TMP\_68 = 1 not(TMP\_68) = 0 TMP\_69 = 0 not(TMP\_69) = 1 TMP\_70 = 1 not(TMP\_70) = 0 TMP\_71 = 1 not(TMP\_71) = 0 TMP\_72 = 3 TMP\_73 = 0 not(TMP\_73) = 1 TMP\_74 = 0 not(TMP\_74) = 1 TMP\_75 = 0 TMP\_76 = 1 not(TMP\_76) = 0 TMP\_77 = 1 not(TMP\_77) = 0 TMP\_78 = 2 TMP\_79 = 0 not(TMP\_79) = 1 TMP\_80 = 0 not(TMP\_80) = 1 TMP\_81 = 1 not(TMP\_81) = 0 TMP\_82 = 1 not(TMP\_82) = 0 TMP\_83 = 1 not(TMP\_83) = 0 TMP\_84 = 2 TMP\_85 = 1 not(TMP\_85) = 0 TMP\_86 = 0 not(TMP\_86) = 1 TMP\_87 = 1 not(TMP\_87) = 0 TMP\_88 = 1 not(TMP\_88) = 0 TMP\_89 = 3 TMP\_90 = 0 not(TMP\_90) = 1 TMP\_91 = 0 not(TMP\_91) = 1 TMP\_92 = 0 TMP\_93 = 1 not(TMP\_93) = 0 TMP\_94 = 1 not(TMP\_94) = 0 TMP\_95 = 2 TMP\_96 = 0 not(TMP\_96) = 1 TMP\_97 = 0 not(TMP\_97) = 1 TMP\_98 = 1 not(TMP\_98) = 0 TMP\_99 = 1 not(TMP\_99) = 0 TMP\_100 = 1 not(TMP\_100) = 0 TMP\_101 = 2 TMP\_102 = 1 not(TMP\_102) = 0 TMP\_103 = 1 not(TMP\_103) = 0 TMP\_104 = 1 not(TMP\_104) = 0 TMP\_105 = 0 not(TMP\_105) = 1 TMP\_106 = 3 TMP\_107 = 0 not(TMP\_107) = 1 TMP\_108 = 0 not(TMP\_108) = 1 TMP\_109 = 0 TMP\_110 = 1 not(TMP\_110) = 0 TMP\_111 = 1 not(TMP\_111) = 0 TMP\_112 = 2 TMP\_113 = 0 not(TMP\_113) = 1 TMP\_114 = 0 not(TMP\_114) = 1 TMP\_115 = 1 not(TMP\_115) = 0 TMP\_116 = 1 not(TMP\_116) = 0 TMP\_117 = 1 not(TMP\_117) = 0 TMP\_118 = 2 TMP\_119 = 1 not(TMP\_119) = 0 TMP\_120 = 0 not(TMP\_120) = 1 TMP\_121 = 1 not(TMP\_121) = 0 TMP\_122 = 0 not(TMP\_122) = 1 TMP\_123 = 2 TMP\_124 = 0 not(TMP\_124) = 1 TMP\_125 = 0 not(TMP\_125) = 1 TMP\_126 = 0 TMP\_127 = 1 not(TMP\_127) = 0 TMP\_128 = 1 not(TMP\_128) = 0 TMP\_129 = 2 TMP\_130 = 0 not(TMP\_130) = 1 TMP\_131 = 0 not(TMP\_131) = 1 TMP\_132 = 1 not(TMP\_132) = 0 TMP\_133 = 1 not(TMP\_133) = 0 TMP\_134 = 1 not(TMP\_134) = 0 TMP\_135 = 2 Area\_0 = 60 Distance\_0\_Rule\_0 = 60 Distance\_1\_Rule\_0 = 1 Area\_1 = 70 Distance\_0\_Rule\_1 = 35 Distance\_1\_Rule\_1 = 2 Area\_2 = 30 Distance\_0\_Rule\_2 = 30 Distance\_1\_Rule\_2 = 1 Area\_3 = 60 -(Rule\_3\_LB) = -60 Distance\_0\_Rule\_3 = 60 -(Rule\_3\_LB) = -1 Distance\_1\_Rule\_3 = 1 Area\_4 = 20 -(Rule\_4\_LB) = 0 Distance\_0\_Rule\_4 = 20 -(Rule\_4\_LB) = 0 Distance\_1\_Rule\_4 = 1 TMP\_136 = 240 .

- Solution #9 found. 9 Solutions, Resolution 0.041s, 31 Nodes (757.7 n/s), 26 Backtracks, 6 Fails, 0 Restarts

Rule\_3\_LB = 60 Rule\_3\_UB = 120 Rule\_3\_LB = 1 Rule\_3\_UB = 2 Rule\_4\_LB = 0 Rule\_4\_UB = 20 Rule\_4\_LB = 0 Rule\_4\_UB = 1 Overlaps\_0\_0 = 0 Overlaps\_0\_1 = 0 Overlaps\_0\_2 = 0 Overlaps\_0\_3 = 0 Overlaps\_0\_4 = 0 Overlaps\_1\_0 = 0 Overlaps\_1\_1 = 0 Overlaps\_1\_2 = 0 Overlaps\_1\_3 = 0 Overlaps\_1\_4 = 0 Overlaps\_2\_0 = 1 Overlaps\_2\_1 = 0 Overlaps\_2\_2 = 0 Overlaps\_2\_3 = 0 Overlaps\_2\_4 = 0 Overlaps\_3\_0 = 0 Overlaps\_3\_1 = 0 Overlaps\_3\_2 = 0 Overlaps\_3\_3 = 0 Overlaps\_3\_4 = 0 Overlaps\_4\_0 = 0 Overlaps\_4\_1 = 0 Overlaps\_4\_2 = 0 Overlaps\_4\_3 = 0 Overlaps\_4\_4 = 0 TMP\_0 = 1 not(TMP\_0) = 0 TMP\_1 = 1 not(TMP\_1) = 0 TMP\_2 = 0 not(TMP\_2) = 1 TMP\_3 = 1 not(TMP\_3) = 0 TMP\_4 = 3 TMP\_5 = 0 not(TMP\_5) = 1 TMP\_6 = 0 not(TMP\_6) = 1 TMP\_7 = 0 TMP\_8 = 1 not(TMP\_8) = 0 TMP\_9 = 1 not(TMP\_9) = 0 TMP\_10 = 2 TMP\_11 = 0 not(TMP\_11) = 1 TMP\_12 = 0 not(TMP\_12) = 1 TMP\_13 = 1 not(TMP\_13) = 0 TMP\_14 = 1 not(TMP\_14) = 0 TMP\_15 = 1 not(TMP\_15) = 0 TMP\_16 = 2 TMP\_17 = 0 not(TMP\_17) = 1 TMP\_18 = 1 not(TMP\_18) = 0 TMP\_19 = 1 not(TMP\_19) = 0 TMP\_20 = 1 not(TMP\_20) = 0 TMP\_21 = 3 TMP\_22 = 0 not(TMP\_22) = 1 TMP\_23 = 0 not(TMP\_23) = 1 TMP\_24 = 0 TMP\_25 = 1 not(TMP\_25) = 0 TMP\_26 = 1 not(TMP\_26) = 0 TMP\_27 = 2 TMP\_28 = 0 not(TMP\_28) = 1 TMP\_29 = 0 not(TMP\_29) = 1 TMP\_30 = 1 not(TMP\_30) = 0 TMP\_31 = 1 not(TMP\_31) = 0 TMP\_32 = 1 not(TMP\_32) = 0 TMP\_33 = 2 TMP\_34 = 0 not(TMP\_34) = 1 TMP\_35 = 1 not(TMP\_35) = 0 TMP\_36 = 1 not(TMP\_36) = 0 TMP\_37 = 1 not(TMP\_37) = 0 TMP\_38 = 3 TMP\_39 = 0 not(TMP\_39) = 1 TMP\_40 = 0 not(TMP\_40) = 1 TMP\_41 = 0 TMP\_42 = 1 not(TMP\_42) = 0 TMP\_43 = 1 not(TMP\_43) = 0 TMP\_44 = 2 TMP\_45 = 0 not(TMP\_45) = 1 TMP\_46 = 0 not(TMP\_46) = 1 TMP\_47 = 1 not(TMP\_47) = 0 TMP\_48 = 1 not(TMP\_48) = 0 TMP\_49 = 1 not(TMP\_49) = 0 TMP\_50 = 2 TMP\_51 = 0 not(TMP\_51) = 1 TMP\_52 = 1 not(TMP\_52) = 0 TMP\_53 = 0 not(TMP\_53) = 1 TMP\_54 = 1 not(TMP\_54) = 0 TMP\_55 = 2 TMP\_56 = 0 not(TMP\_56) = 1 TMP\_57 = 0 not(TMP\_57) = 1 TMP\_58 = 0 TMP\_59 = 1 not(TMP\_59) = 0 TMP\_60 = 1 not(TMP\_60) = 0 TMP\_61 = 2 TMP\_62 = 0 not(TMP\_62) = 1 TMP\_63 = 0 not(TMP\_63) = 1 TMP\_64 = 1 not(TMP\_64) = 0 TMP\_65 = 1 not(TMP\_65) = 0 TMP\_66 = 1 not(TMP\_66) = 0 TMP\_67 = 2 TMP\_68 = 1 not(TMP\_68) = 0 TMP\_69 = 0 not(TMP\_69) = 1 TMP\_70 = 1 not(TMP\_70) = 0 TMP\_71 = 1 not(TMP\_71) = 0 TMP\_72 = 3 TMP\_73 = 0 not(TMP\_73) = 1 TMP\_74 = 0 not(TMP\_74) = 1 TMP\_75 = 0 TMP\_76 = 1 not(TMP\_76) = 0 TMP\_77 = 1 not(TMP\_77) = 0 TMP\_78 = 2 TMP\_79 = 0 not(TMP\_79) = 1 TMP\_80 = 0 not(TMP\_80) = 1 TMP\_81 = 1 not(TMP\_81) = 0 TMP\_82 = 1 not(TMP\_82) = 0 TMP\_83 = 1 not(TMP\_83) = 0 TMP\_84 = 2 TMP\_85 = 1 not(TMP\_85) = 0 TMP\_86 = 0 not(TMP\_86) = 1 TMP\_87 = 1 not(TMP\_87) = 0 TMP\_88 = 1 not(TMP\_88) = 0 TMP\_89 = 3 TMP\_90 = 0 not(TMP\_90) = 1 TMP\_91 = 0 not(TMP\_91) = 1 TMP\_92 = 0 TMP\_93 = 1 not(TMP\_93) = 0 TMP\_94 = 1 not(TMP\_94) = 0 TMP\_95 = 2 TMP\_96 = 0 not(TMP\_96) = 1 TMP\_97 = 0 not(TMP\_97) = 1 TMP\_98 = 1 not(TMP\_98) = 0 TMP\_99 = 1 not(TMP\_99) = 0 TMP\_100 = 1 not(TMP\_100) = 0 TMP\_101 = 2 TMP\_102 = 1 not(TMP\_102) = 0 TMP\_103 = 1 not(TMP\_103) = 0 TMP\_104 = 1 not(TMP\_104) = 0 TMP\_105 = 0 not(TMP\_105) = 1 TMP\_106 = 3 TMP\_107 = 0 not(TMP\_107) = 1 TMP\_108 = 0 not(TMP\_108) = 1 TMP\_109 = 0 TMP\_110 = 1 not(TMP\_110) = 0 TMP\_111 = 1 not(TMP\_111) = 0 TMP\_112 = 2 TMP\_113 = 0 not(TMP\_113) = 1 TMP\_114 = 0 not(TMP\_114) = 1 TMP\_115 = 1 not(TMP\_115) = 0 TMP\_116 = 1 not(TMP\_116) = 0 TMP\_117 = 1 not(TMP\_117) = 0 TMP\_118 = 2 TMP\_119 = 1 not(TMP\_119) = 0 TMP\_120 = 0 not(TMP\_120) = 1 TMP\_121 = 1 not(TMP\_121) = 0 TMP\_122 = 0 not(TMP\_122) = 1 TMP\_123 = 2 TMP\_124 = 0 not(TMP\_124) = 1 TMP\_125 = 0 not(TMP\_125) = 1 TMP\_126 = 0 TMP\_127 = 1 not(TMP\_127) = 0 TMP\_128 = 1 not(TMP\_128) = 0 TMP\_129 = 2 TMP\_130 = 0 not(TMP\_130) = 1 TMP\_131 = 0 not(TMP\_131) = 1 TMP\_132 = 1 not(TMP\_132) = 0 TMP\_133 = 1 not(TMP\_133) = 0 TMP\_134 = 1 not(TMP\_134) = 0 TMP\_135 = 2 Area\_0 = 60 Distance\_0\_Rule\_0 = 60 Distance\_1\_Rule\_0 = 1 Area\_1 = 70 Distance\_0\_Rule\_1 = 35 Distance\_1\_Rule\_1 = 2 Area\_2 = 30 Distance\_0\_Rule\_2 = 30 Distance\_1\_Rule\_2 = 1 Area\_3 = 60 -(Rule\_3\_LB) = -60 Distance\_0\_Rule\_3 = 60 -(Rule\_3\_LB) = -1 Distance\_1\_Rule\_3 = 1 Area\_4 = 20 -(Rule\_4\_LB) = 0 Distance\_0\_Rule\_4 = 20 -(Rule\_4\_LB) = 0 Distance\_1\_Rule\_4 = 1 TMP\_136 = 240 .

- Solution #10 found. 10 Solutions, Resolution 0.042s, 32 Nodes (755.5 n/s), 27 Backtracks, 6 Fails, 0 Restarts

Rule\_3\_LB = 60 Rule\_3\_UB = 120 Rule\_3\_LB = 1 Rule\_3\_UB = 2 Rule\_4\_LB = 0 Rule\_4\_UB = 20 Rule\_4\_LB = 0 Rule\_4\_UB = 1 Overlaps\_0\_0 = 0 Overlaps\_0\_1 = 0 Overlaps\_0\_2 = 1 Overlaps\_0\_3 = 0 Overlaps\_0\_4 = 0 Overlaps\_1\_0 = 0 Overlaps\_1\_1 = 0 Overlaps\_1\_2 = 0 Overlaps\_1\_3 = 0 Overlaps\_1\_4 = 0 Overlaps\_2\_0 = 1 Overlaps\_2\_1 = 0 Overlaps\_2\_2 = 0 Overlaps\_2\_3 = 0 Overlaps\_2\_4 = 0 Overlaps\_3\_0 = 0 Overlaps\_3\_1 = 0 Overlaps\_3\_2 = 0 Overlaps\_3\_3 = 0 Overlaps\_3\_4 = 0 Overlaps\_4\_0 = 0 Overlaps\_4\_1 = 0 Overlaps\_4\_2 = 0 Overlaps\_4\_3 = 0 Overlaps\_4\_4 = 0 TMP\_0 = 1 not(TMP\_0) = 0 TMP\_1 = 1 not(TMP\_1) = 0 TMP\_2 = 0 not(TMP\_2) = 1 TMP\_3 = 1 not(TMP\_3) = 0 TMP\_4 = 3 TMP\_5 = 0 not(TMP\_5) = 1 TMP\_6 = 0 not(TMP\_6) = 1 TMP\_7 = 0 TMP\_8 = 1 not(TMP\_8) = 0 TMP\_9 = 1 not(TMP\_9) = 0 TMP\_10 = 2 TMP\_11 = 0 not(TMP\_11) = 1 TMP\_12 = 0 not(TMP\_12) = 1 TMP\_13 = 1 not(TMP\_13) = 0 TMP\_14 = 1 not(TMP\_14) = 0 TMP\_15 = 1 not(TMP\_15) = 0 TMP\_16 = 2 TMP\_17 = 0 not(TMP\_17) = 1 TMP\_18 = 1 not(TMP\_18) = 0 TMP\_19 = 1 not(TMP\_19) = 0 TMP\_20 = 1 not(TMP\_20) = 0 TMP\_21 = 3 TMP\_22 = 0 not(TMP\_22) = 1 TMP\_23 = 0 not(TMP\_23) = 1 TMP\_24 = 0 TMP\_25 = 1 not(TMP\_25) = 0 TMP\_26 = 1 not(TMP\_26) = 0 TMP\_27 = 2 TMP\_28 = 0 not(TMP\_28) = 1 TMP\_29 = 0 not(TMP\_29) = 1 TMP\_30 = 1 not(TMP\_30) = 0 TMP\_31 = 1 not(TMP\_31) = 0 TMP\_32 = 1 not(TMP\_32) = 0 TMP\_33 = 2 TMP\_34 = 0 not(TMP\_34) = 1 TMP\_35 = 1 not(TMP\_35) = 0 TMP\_36 = 1 not(TMP\_36) = 0 TMP\_37 = 1 not(TMP\_37) = 0 TMP\_38 = 3 TMP\_39 = 0 not(TMP\_39) = 1 TMP\_40 = 0 not(TMP\_40) = 1 TMP\_41 = 0 TMP\_42 = 1 not(TMP\_42) = 0 TMP\_43 = 1 not(TMP\_43) = 0 TMP\_44 = 2 TMP\_45 = 0 not(TMP\_45) = 1 TMP\_46 = 0 not(TMP\_46) = 1 TMP\_47 = 1 not(TMP\_47) = 0 TMP\_48 = 1 not(TMP\_48) = 0 TMP\_49 = 1 not(TMP\_49) = 0 TMP\_50 = 2 TMP\_51 = 0 not(TMP\_51) = 1 TMP\_52 = 1 not(TMP\_52) = 0 TMP\_53 = 0 not(TMP\_53) = 1 TMP\_54 = 1 not(TMP\_54) = 0 TMP\_55 = 2 TMP\_56 = 0 not(TMP\_56) = 1 TMP\_57 = 0 not(TMP\_57) = 1 TMP\_58 = 0 TMP\_59 = 1 not(TMP\_59) = 0 TMP\_60 = 1 not(TMP\_60) = 0 TMP\_61 = 2 TMP\_62 = 0 not(TMP\_62) = 1 TMP\_63 = 0 not(TMP\_63) = 1 TMP\_64 = 1 not(TMP\_64) = 0 TMP\_65 = 1 not(TMP\_65) = 0 TMP\_66 = 1 not(TMP\_66) = 0 TMP\_67 = 2 TMP\_68 = 1 not(TMP\_68) = 0 TMP\_69 = 0 not(TMP\_69) = 1 TMP\_70 = 1 not(TMP\_70) = 0 TMP\_71 = 1 not(TMP\_71) = 0 TMP\_72 = 3 TMP\_73 = 0 not(TMP\_73) = 1 TMP\_74 = 0 not(TMP\_74) = 1 TMP\_75 = 0 TMP\_76 = 1 not(TMP\_76) = 0 TMP\_77 = 1 not(TMP\_77) = 0 TMP\_78 = 2 TMP\_79 = 0 not(TMP\_79) = 1 TMP\_80 = 0 not(TMP\_80) = 1 TMP\_81 = 1 not(TMP\_81) = 0 TMP\_82 = 1 not(TMP\_82) = 0 TMP\_83 = 1 not(TMP\_83) = 0 TMP\_84 = 2 TMP\_85 = 1 not(TMP\_85) = 0 TMP\_86 = 0 not(TMP\_86) = 1 TMP\_87 = 1 not(TMP\_87) = 0 TMP\_88 = 1 not(TMP\_88) = 0 TMP\_89 = 3 TMP\_90 = 0 not(TMP\_90) = 1 TMP\_91 = 0 not(TMP\_91) = 1 TMP\_92 = 0 TMP\_93 = 1 not(TMP\_93) = 0 TMP\_94 = 1 not(TMP\_94) = 0 TMP\_95 = 2 TMP\_96 = 0 not(TMP\_96) = 1 TMP\_97 = 0 not(TMP\_97) = 1 TMP\_98 = 1 not(TMP\_98) = 0 TMP\_99 = 1 not(TMP\_99) = 0 TMP\_100 = 1 not(TMP\_100) = 0 TMP\_101 = 2 TMP\_102 = 1 not(TMP\_102) = 0 TMP\_103 = 1 not(TMP\_103) = 0 TMP\_104 = 1 not(TMP\_104) = 0 TMP\_105 = 0 not(TMP\_105) = 1 TMP\_106 = 3 TMP\_107 = 0 not(TMP\_107) = 1 TMP\_108 = 0 not(TMP\_108) = 1 TMP\_109 = 0 TMP\_110 = 1 not(TMP\_110) = 0 TMP\_111 = 1 not(TMP\_111) = 0 TMP\_112 = 2 TMP\_113 = 0 not(TMP\_113) = 1 TMP\_114 = 0 not(TMP\_114) = 1 TMP\_115 = 1 not(TMP\_115) = 0 TMP\_116 = 1 not(TMP\_116) = 0 TMP\_117 = 1 not(TMP\_117) = 0 TMP\_118 = 2 TMP\_119 = 1 not(TMP\_119) = 0 TMP\_120 = 0 not(TMP\_120) = 1 TMP\_121 = 1 not(TMP\_121) = 0 TMP\_122 = 0 not(TMP\_122) = 1 TMP\_123 = 2 TMP\_124 = 0 not(TMP\_124) = 1 TMP\_125 = 0 not(TMP\_125) = 1 TMP\_126 = 0 TMP\_127 = 1 not(TMP\_127) = 0 TMP\_128 = 1 not(TMP\_128) = 0 TMP\_129 = 2 TMP\_130 = 0 not(TMP\_130) = 1 TMP\_131 = 0 not(TMP\_131) = 1 TMP\_132 = 1 not(TMP\_132) = 0 TMP\_133 = 1 not(TMP\_133) = 0 TMP\_134 = 1 not(TMP\_134) = 0 TMP\_135 = 2 Area\_0 = 60 Distance\_0\_Rule\_0 = 60 Distance\_1\_Rule\_0 = 1 Area\_1 = 70 Distance\_0\_Rule\_1 = 35 Distance\_1\_Rule\_1 = 2 Area\_2 = 30 Distance\_0\_Rule\_2 = 30 Distance\_1\_Rule\_2 = 1 Area\_3 = 60 -(Rule\_3\_LB) = -60 Distance\_0\_Rule\_3 = 60 -(Rule\_3\_LB) = -1 Distance\_1\_Rule\_3 = 1 Area\_4 = 20 -(Rule\_4\_LB) = 0 Distance\_0\_Rule\_4 = 20 -(Rule\_4\_LB) = 0 Distance\_1\_Rule\_4 = 1 TMP\_136 = 240 .

- Solution #11 found. 11 Solutions, Resolution 0.045s, 34 Nodes (761.0 n/s), 29 Backtracks, 6 Fails, 0 Restarts

Rule\_3\_LB = 60 Rule\_3\_UB = 120 Rule\_3\_LB = 1 Rule\_3\_UB = 2 Rule\_4\_LB = 0 Rule\_4\_UB = 20 Rule\_4\_LB = 0 Rule\_4\_UB = 1 Overlaps\_0\_0 = 0 Overlaps\_0\_1 = 0 Overlaps\_0\_2 = 0 Overlaps\_0\_3 = 0 Overlaps\_0\_4 = 0 Overlaps\_1\_0 = 1 Overlaps\_1\_1 = 0 Overlaps\_1\_2 = 0 Overlaps\_1\_3 = 0 Overlaps\_1\_4 = 0 Overlaps\_2\_0 = 1 Overlaps\_2\_1 = 0 Overlaps\_2\_2 = 0 Overlaps\_2\_3 = 0 Overlaps\_2\_4 = 0 Overlaps\_3\_0 = 0 Overlaps\_3\_1 = 0 Overlaps\_3\_2 = 0 Overlaps\_3\_3 = 0 Overlaps\_3\_4 = 0 Overlaps\_4\_0 = 0 Overlaps\_4\_1 = 0 Overlaps\_4\_2 = 0 Overlaps\_4\_3 = 0 Overlaps\_4\_4 = 0 TMP\_0 = 1 not(TMP\_0) = 0 TMP\_1 = 1 not(TMP\_1) = 0 TMP\_2 = 0 not(TMP\_2) = 1 TMP\_3 = 1 not(TMP\_3) = 0 TMP\_4 = 3 TMP\_5 = 0 not(TMP\_5) = 1 TMP\_6 = 0 not(TMP\_6) = 1 TMP\_7 = 0 TMP\_8 = 1 not(TMP\_8) = 0 TMP\_9 = 1 not(TMP\_9) = 0 TMP\_10 = 2 TMP\_11 = 0 not(TMP\_11) = 1 TMP\_12 = 0 not(TMP\_12) = 1 TMP\_13 = 1 not(TMP\_13) = 0 TMP\_14 = 1 not(TMP\_14) = 0 TMP\_15 = 1 not(TMP\_15) = 0 TMP\_16 = 2 TMP\_17 = 0 not(TMP\_17) = 1 TMP\_18 = 1 not(TMP\_18) = 0 TMP\_19 = 1 not(TMP\_19) = 0 TMP\_20 = 1 not(TMP\_20) = 0 TMP\_21 = 3 TMP\_22 = 0 not(TMP\_22) = 1 TMP\_23 = 0 not(TMP\_23) = 1 TMP\_24 = 0 TMP\_25 = 1 not(TMP\_25) = 0 TMP\_26 = 1 not(TMP\_26) = 0 TMP\_27 = 2 TMP\_28 = 0 not(TMP\_28) = 1 TMP\_29 = 0 not(TMP\_29) = 1 TMP\_30 = 1 not(TMP\_30) = 0 TMP\_31 = 1 not(TMP\_31) = 0 TMP\_32 = 1 not(TMP\_32) = 0 TMP\_33 = 2 TMP\_34 = 0 not(TMP\_34) = 1 TMP\_35 = 1 not(TMP\_35) = 0 TMP\_36 = 1 not(TMP\_36) = 0 TMP\_37 = 1 not(TMP\_37) = 0 TMP\_38 = 3 TMP\_39 = 0 not(TMP\_39) = 1 TMP\_40 = 0 not(TMP\_40) = 1 TMP\_41 = 0 TMP\_42 = 1 not(TMP\_42) = 0 TMP\_43 = 1 not(TMP\_43) = 0 TMP\_44 = 2 TMP\_45 = 0 not(TMP\_45) = 1 TMP\_46 = 0 not(TMP\_46) = 1 TMP\_47 = 1 not(TMP\_47) = 0 TMP\_48 = 1 not(TMP\_48) = 0 TMP\_49 = 1 not(TMP\_49) = 0 TMP\_50 = 2 TMP\_51 = 0 not(TMP\_51) = 1 TMP\_52 = 1 not(TMP\_52) = 0 TMP\_53 = 0 not(TMP\_53) = 1 TMP\_54 = 1 not(TMP\_54) = 0 TMP\_55 = 2 TMP\_56 = 0 not(TMP\_56) = 1 TMP\_57 = 0 not(TMP\_57) = 1 TMP\_58 = 0 TMP\_59 = 1 not(TMP\_59) = 0 TMP\_60 = 1 not(TMP\_60) = 0 TMP\_61 = 2 TMP\_62 = 0 not(TMP\_62) = 1 TMP\_63 = 0 not(TMP\_63) = 1 TMP\_64 = 1 not(TMP\_64) = 0 TMP\_65 = 1 not(TMP\_65) = 0 TMP\_66 = 1 not(TMP\_66) = 0 TMP\_67 = 2 TMP\_68 = 1 not(TMP\_68) = 0 TMP\_69 = 0 not(TMP\_69) = 1 TMP\_70 = 1 not(TMP\_70) = 0 TMP\_71 = 1 not(TMP\_71) = 0 TMP\_72 = 3 TMP\_73 = 0 not(TMP\_73) = 1 TMP\_74 = 0 not(TMP\_74) = 1 TMP\_75 = 0 TMP\_76 = 1 not(TMP\_76) = 0 TMP\_77 = 1 not(TMP\_77) = 0 TMP\_78 = 2 TMP\_79 = 0 not(TMP\_79) = 1 TMP\_80 = 0 not(TMP\_80) = 1 TMP\_81 = 1 not(TMP\_81) = 0 TMP\_82 = 1 not(TMP\_82) = 0 TMP\_83 = 1 not(TMP\_83) = 0 TMP\_84 = 2 TMP\_85 = 1 not(TMP\_85) = 0 TMP\_86 = 0 not(TMP\_86) = 1 TMP\_87 = 1 not(TMP\_87) = 0 TMP\_88 = 1 not(TMP\_88) = 0 TMP\_89 = 3 TMP\_90 = 0 not(TMP\_90) = 1 TMP\_91 = 0 not(TMP\_91) = 1 TMP\_92 = 0 TMP\_93 = 1 not(TMP\_93) = 0 TMP\_94 = 1 not(TMP\_94) = 0 TMP\_95 = 2 TMP\_96 = 0 not(TMP\_96) = 1 TMP\_97 = 0 not(TMP\_97) = 1 TMP\_98 = 1 not(TMP\_98) = 0 TMP\_99 = 1 not(TMP\_99) = 0 TMP\_100 = 1 not(TMP\_100) = 0 TMP\_101 = 2 TMP\_102 = 1 not(TMP\_102) = 0 TMP\_103 = 1 not(TMP\_103) = 0 TMP\_104 = 1 not(TMP\_104) = 0 TMP\_105 = 0 not(TMP\_105) = 1 TMP\_106 = 3 TMP\_107 = 0 not(TMP\_107) = 1 TMP\_108 = 0 not(TMP\_108) = 1 TMP\_109 = 0 TMP\_110 = 1 not(TMP\_110) = 0 TMP\_111 = 1 not(TMP\_111) = 0 TMP\_112 = 2 TMP\_113 = 0 not(TMP\_113) = 1 TMP\_114 = 0 not(TMP\_114) = 1 TMP\_115 = 1 not(TMP\_115) = 0 TMP\_116 = 1 not(TMP\_116) = 0 TMP\_117 = 1 not(TMP\_117) = 0 TMP\_118 = 2 TMP\_119 = 1 not(TMP\_119) = 0 TMP\_120 = 0 not(TMP\_120) = 1 TMP\_121 = 1 not(TMP\_121) = 0 TMP\_122 = 0 not(TMP\_122) = 1 TMP\_123 = 2 TMP\_124 = 0 not(TMP\_124) = 1 TMP\_125 = 0 not(TMP\_125) = 1 TMP\_126 = 0 TMP\_127 = 1 not(TMP\_127) = 0 TMP\_128 = 1 not(TMP\_128) = 0 TMP\_129 = 2 TMP\_130 = 0 not(TMP\_130) = 1 TMP\_131 = 0 not(TMP\_131) = 1 TMP\_132 = 1 not(TMP\_132) = 0 TMP\_133 = 1 not(TMP\_133) = 0 TMP\_134 = 1 not(TMP\_134) = 0 TMP\_135 = 2 Area\_0 = 60 Distance\_0\_Rule\_0 = 60 Distance\_1\_Rule\_0 = 1 Area\_1 = 70 Distance\_0\_Rule\_1 = 35 Distance\_1\_Rule\_1 = 2 Area\_2 = 30 Distance\_0\_Rule\_2 = 30 Distance\_1\_Rule\_2 = 1 Area\_3 = 60 -(Rule\_3\_LB) = -60 Distance\_0\_Rule\_3 = 60 -(Rule\_3\_LB) = -1 Distance\_1\_Rule\_3 = 1 Area\_4 = 20 -(Rule\_4\_LB) = 0 Distance\_0\_Rule\_4 = 20 -(Rule\_4\_LB) = 0 Distance\_1\_Rule\_4 = 1 TMP\_136 = 240 .

- Solution #12 found. 12 Solutions, Resolution 0.047s, 35 Nodes (743.6 n/s), 30 Backtracks, 6 Fails, 0 Restarts

Rule\_3\_LB = 60 Rule\_3\_UB = 120 Rule\_3\_LB = 1 Rule\_3\_UB = 2 Rule\_4\_LB = 0 Rule\_4\_UB = 20 Rule\_4\_LB = 0 Rule\_4\_UB = 1 Overlaps\_0\_0 = 0 Overlaps\_0\_1 = 0 Overlaps\_0\_2 = 1 Overlaps\_0\_3 = 0 Overlaps\_0\_4 = 0 Overlaps\_1\_0 = 1 Overlaps\_1\_1 = 0 Overlaps\_1\_2 = 0 Overlaps\_1\_3 = 0 Overlaps\_1\_4 = 0 Overlaps\_2\_0 = 1 Overlaps\_2\_1 = 0 Overlaps\_2\_2 = 0 Overlaps\_2\_3 = 0 Overlaps\_2\_4 = 0 Overlaps\_3\_0 = 0 Overlaps\_3\_1 = 0 Overlaps\_3\_2 = 0 Overlaps\_3\_3 = 0 Overlaps\_3\_4 = 0 Overlaps\_4\_0 = 0 Overlaps\_4\_1 = 0 Overlaps\_4\_2 = 0 Overlaps\_4\_3 = 0 Overlaps\_4\_4 = 0 TMP\_0 = 1 not(TMP\_0) = 0 TMP\_1 = 1 not(TMP\_1) = 0 TMP\_2 = 0 not(TMP\_2) = 1 TMP\_3 = 1 not(TMP\_3) = 0 TMP\_4 = 3 TMP\_5 = 0 not(TMP\_5) = 1 TMP\_6 = 0 not(TMP\_6) = 1 TMP\_7 = 0 TMP\_8 = 1 not(TMP\_8) = 0 TMP\_9 = 1 not(TMP\_9) = 0 TMP\_10 = 2 TMP\_11 = 0 not(TMP\_11) = 1 TMP\_12 = 0 not(TMP\_12) = 1 TMP\_13 = 1 not(TMP\_13) = 0 TMP\_14 = 1 not(TMP\_14) = 0 TMP\_15 = 1 not(TMP\_15) = 0 TMP\_16 = 2 TMP\_17 = 0 not(TMP\_17) = 1 TMP\_18 = 1 not(TMP\_18) = 0 TMP\_19 = 1 not(TMP\_19) = 0 TMP\_20 = 1 not(TMP\_20) = 0 TMP\_21 = 3 TMP\_22 = 0 not(TMP\_22) = 1 TMP\_23 = 0 not(TMP\_23) = 1 TMP\_24 = 0 TMP\_25 = 1 not(TMP\_25) = 0 TMP\_26 = 1 not(TMP\_26) = 0 TMP\_27 = 2 TMP\_28 = 0 not(TMP\_28) = 1 TMP\_29 = 0 not(TMP\_29) = 1 TMP\_30 = 1 not(TMP\_30) = 0 TMP\_31 = 1 not(TMP\_31) = 0 TMP\_32 = 1 not(TMP\_32) = 0 TMP\_33 = 2 TMP\_34 = 0 not(TMP\_34) = 1 TMP\_35 = 1 not(TMP\_35) = 0 TMP\_36 = 1 not(TMP\_36) = 0 TMP\_37 = 1 not(TMP\_37) = 0 TMP\_38 = 3 TMP\_39 = 0 not(TMP\_39) = 1 TMP\_40 = 0 not(TMP\_40) = 1 TMP\_41 = 0 TMP\_42 = 1 not(TMP\_42) = 0 TMP\_43 = 1 not(TMP\_43) = 0 TMP\_44 = 2 TMP\_45 = 0 not(TMP\_45) = 1 TMP\_46 = 0 not(TMP\_46) = 1 TMP\_47 = 1 not(TMP\_47) = 0 TMP\_48 = 1 not(TMP\_48) = 0 TMP\_49 = 1 not(TMP\_49) = 0 TMP\_50 = 2 TMP\_51 = 0 not(TMP\_51) = 1 TMP\_52 = 1 not(TMP\_52) = 0 TMP\_53 = 0 not(TMP\_53) = 1 TMP\_54 = 1 not(TMP\_54) = 0 TMP\_55 = 2 TMP\_56 = 0 not(TMP\_56) = 1 TMP\_57 = 0 not(TMP\_57) = 1 TMP\_58 = 0 TMP\_59 = 1 not(TMP\_59) = 0 TMP\_60 = 1 not(TMP\_60) = 0 TMP\_61 = 2 TMP\_62 = 0 not(TMP\_62) = 1 TMP\_63 = 0 not(TMP\_63) = 1 TMP\_64 = 1 not(TMP\_64) = 0 TMP\_65 = 1 not(TMP\_65) = 0 TMP\_66 = 1 not(TMP\_66) = 0 TMP\_67 = 2 TMP\_68 = 1 not(TMP\_68) = 0 TMP\_69 = 0 not(TMP\_69) = 1 TMP\_70 = 1 not(TMP\_70) = 0 TMP\_71 = 1 not(TMP\_71) = 0 TMP\_72 = 3 TMP\_73 = 0 not(TMP\_73) = 1 TMP\_74 = 0 not(TMP\_74) = 1 TMP\_75 = 0 TMP\_76 = 1 not(TMP\_76) = 0 TMP\_77 = 1 not(TMP\_77) = 0 TMP\_78 = 2 TMP\_79 = 0 not(TMP\_79) = 1 TMP\_80 = 0 not(TMP\_80) = 1 TMP\_81 = 1 not(TMP\_81) = 0 TMP\_82 = 1 not(TMP\_82) = 0 TMP\_83 = 1 not(TMP\_83) = 0 TMP\_84 = 2 TMP\_85 = 1 not(TMP\_85) = 0 TMP\_86 = 0 not(TMP\_86) = 1 TMP\_87 = 1 not(TMP\_87) = 0 TMP\_88 = 1 not(TMP\_88) = 0 TMP\_89 = 3 TMP\_90 = 0 not(TMP\_90) = 1 TMP\_91 = 0 not(TMP\_91) = 1 TMP\_92 = 0 TMP\_93 = 1 not(TMP\_93) = 0 TMP\_94 = 1 not(TMP\_94) = 0 TMP\_95 = 2 TMP\_96 = 0 not(TMP\_96) = 1 TMP\_97 = 0 not(TMP\_97) = 1 TMP\_98 = 1 not(TMP\_98) = 0 TMP\_99 = 1 not(TMP\_99) = 0 TMP\_100 = 1 not(TMP\_100) = 0 TMP\_101 = 2 TMP\_102 = 1 not(TMP\_102) = 0 TMP\_103 = 1 not(TMP\_103) = 0 TMP\_104 = 1 not(TMP\_104) = 0 TMP\_105 = 0 not(TMP\_105) = 1 TMP\_106 = 3 TMP\_107 = 0 not(TMP\_107) = 1 TMP\_108 = 0 not(TMP\_108) = 1 TMP\_109 = 0 TMP\_110 = 1 not(TMP\_110) = 0 TMP\_111 = 1 not(TMP\_111) = 0 TMP\_112 = 2 TMP\_113 = 0 not(TMP\_113) = 1 TMP\_114 = 0 not(TMP\_114) = 1 TMP\_115 = 1 not(TMP\_115) = 0 TMP\_116 = 1 not(TMP\_116) = 0 TMP\_117 = 1 not(TMP\_117) = 0 TMP\_118 = 2 TMP\_119 = 1 not(TMP\_119) = 0 TMP\_120 = 0 not(TMP\_120) = 1 TMP\_121 = 1 not(TMP\_121) = 0 TMP\_122 = 0 not(TMP\_122) = 1 TMP\_123 = 2 TMP\_124 = 0 not(TMP\_124) = 1 TMP\_125 = 0 not(TMP\_125) = 1 TMP\_126 = 0 TMP\_127 = 1 not(TMP\_127) = 0 TMP\_128 = 1 not(TMP\_128) = 0 TMP\_129 = 2 TMP\_130 = 0 not(TMP\_130) = 1 TMP\_131 = 0 not(TMP\_131) = 1 TMP\_132 = 1 not(TMP\_132) = 0 TMP\_133 = 1 not(TMP\_133) = 0 TMP\_134 = 1 not(TMP\_134) = 0 TMP\_135 = 2 Area\_0 = 60 Distance\_0\_Rule\_0 = 60 Distance\_1\_Rule\_0 = 1 Area\_1 = 70 Distance\_0\_Rule\_1 = 35 Distance\_1\_Rule\_1 = 2 Area\_2 = 30 Distance\_0\_Rule\_2 = 30 Distance\_1\_Rule\_2 = 1 Area\_3 = 60 -(Rule\_3\_LB) = -60 Distance\_0\_Rule\_3 = 60 -(Rule\_3\_LB) = -1 Distance\_1\_Rule\_3 = 1 Area\_4 = 20 -(Rule\_4\_LB) = 0 Distance\_0\_Rule\_4 = 20 -(Rule\_4\_LB) = 0 Distance\_1\_Rule\_4 = 1 TMP\_136 = 240 .

- Solution #13 found. 13 Solutions, Resolution 0.050s, 38 Nodes (766.3 n/s), 33 Backtracks, 6 Fails, 0 Restarts

Rule\_3\_LB = 60 Rule\_3\_UB = 120 Rule\_3\_LB = 1 Rule\_3\_UB = 2 Rule\_4\_LB = 0 Rule\_4\_UB = 20 Rule\_4\_LB = 0 Rule\_4\_UB = 1 Overlaps\_0\_0 = 0 Overlaps\_0\_1 = 1 Overlaps\_0\_2 = 0 Overlaps\_0\_3 = 0 Overlaps\_0\_4 = 0 Overlaps\_1\_0 = 0 Overlaps\_1\_1 = 0 Overlaps\_1\_2 = 0 Overlaps\_1\_3 = 0 Overlaps\_1\_4 = 0 Overlaps\_2\_0 = 1 Overlaps\_2\_1 = 0 Overlaps\_2\_2 = 0 Overlaps\_2\_3 = 0 Overlaps\_2\_4 = 0 Overlaps\_3\_0 = 0 Overlaps\_3\_1 = 0 Overlaps\_3\_2 = 0 Overlaps\_3\_3 = 0 Overlaps\_3\_4 = 0 Overlaps\_4\_0 = 0 Overlaps\_4\_1 = 0 Overlaps\_4\_2 = 0 Overlaps\_4\_3 = 0 Overlaps\_4\_4 = 0 TMP\_0 = 1 not(TMP\_0) = 0 TMP\_1 = 1 not(TMP\_1) = 0 TMP\_2 = 0 not(TMP\_2) = 1 TMP\_3 = 1 not(TMP\_3) = 0 TMP\_4 = 3 TMP\_5 = 0 not(TMP\_5) = 1 TMP\_6 = 0 not(TMP\_6) = 1 TMP\_7 = 0 TMP\_8 = 1 not(TMP\_8) = 0 TMP\_9 = 1 not(TMP\_9) = 0 TMP\_10 = 2 TMP\_11 = 0 not(TMP\_11) = 1 TMP\_12 = 0 not(TMP\_12) = 1 TMP\_13 = 1 not(TMP\_13) = 0 TMP\_14 = 1 not(TMP\_14) = 0 TMP\_15 = 1 not(TMP\_15) = 0 TMP\_16 = 2 TMP\_17 = 0 not(TMP\_17) = 1 TMP\_18 = 1 not(TMP\_18) = 0 TMP\_19 = 1 not(TMP\_19) = 0 TMP\_20 = 1 not(TMP\_20) = 0 TMP\_21 = 3 TMP\_22 = 0 not(TMP\_22) = 1 TMP\_23 = 0 not(TMP\_23) = 1 TMP\_24 = 0 TMP\_25 = 1 not(TMP\_25) = 0 TMP\_26 = 1 not(TMP\_26) = 0 TMP\_27 = 2 TMP\_28 = 0 not(TMP\_28) = 1 TMP\_29 = 0 not(TMP\_29) = 1 TMP\_30 = 1 not(TMP\_30) = 0 TMP\_31 = 1 not(TMP\_31) = 0 TMP\_32 = 1 not(TMP\_32) = 0 TMP\_33 = 2 TMP\_34 = 0 not(TMP\_34) = 1 TMP\_35 = 1 not(TMP\_35) = 0 TMP\_36 = 1 not(TMP\_36) = 0 TMP\_37 = 1 not(TMP\_37) = 0 TMP\_38 = 3 TMP\_39 = 0 not(TMP\_39) = 1 TMP\_40 = 0 not(TMP\_40) = 1 TMP\_41 = 0 TMP\_42 = 1 not(TMP\_42) = 0 TMP\_43 = 1 not(TMP\_43) = 0 TMP\_44 = 2 TMP\_45 = 0 not(TMP\_45) = 1 TMP\_46 = 0 not(TMP\_46) = 1 TMP\_47 = 1 not(TMP\_47) = 0 TMP\_48 = 1 not(TMP\_48) = 0 TMP\_49 = 1 not(TMP\_49) = 0 TMP\_50 = 2 TMP\_51 = 0 not(TMP\_51) = 1 TMP\_52 = 1 not(TMP\_52) = 0 TMP\_53 = 0 not(TMP\_53) = 1 TMP\_54 = 1 not(TMP\_54) = 0 TMP\_55 = 2 TMP\_56 = 0 not(TMP\_56) = 1 TMP\_57 = 0 not(TMP\_57) = 1 TMP\_58 = 0 TMP\_59 = 1 not(TMP\_59) = 0 TMP\_60 = 1 not(TMP\_60) = 0 TMP\_61 = 2 TMP\_62 = 0 not(TMP\_62) = 1 TMP\_63 = 0 not(TMP\_63) = 1 TMP\_64 = 1 not(TMP\_64) = 0 TMP\_65 = 1 not(TMP\_65) = 0 TMP\_66 = 1 not(TMP\_66) = 0 TMP\_67 = 2 TMP\_68 = 1 not(TMP\_68) = 0 TMP\_69 = 0 not(TMP\_69) = 1 TMP\_70 = 1 not(TMP\_70) = 0 TMP\_71 = 1 not(TMP\_71) = 0 TMP\_72 = 3 TMP\_73 = 0 not(TMP\_73) = 1 TMP\_74 = 0 not(TMP\_74) = 1 TMP\_75 = 0 TMP\_76 = 1 not(TMP\_76) = 0 TMP\_77 = 1 not(TMP\_77) = 0 TMP\_78 = 2 TMP\_79 = 0 not(TMP\_79) = 1 TMP\_80 = 0 not(TMP\_80) = 1 TMP\_81 = 1 not(TMP\_81) = 0 TMP\_82 = 1 not(TMP\_82) = 0 TMP\_83 = 1 not(TMP\_83) = 0 TMP\_84 = 2 TMP\_85 = 1 not(TMP\_85) = 0 TMP\_86 = 0 not(TMP\_86) = 1 TMP\_87 = 1 not(TMP\_87) = 0 TMP\_88 = 1 not(TMP\_88) = 0 TMP\_89 = 3 TMP\_90 = 0 not(TMP\_90) = 1 TMP\_91 = 0 not(TMP\_91) = 1 TMP\_92 = 0 TMP\_93 = 1 not(TMP\_93) = 0 TMP\_94 = 1 not(TMP\_94) = 0 TMP\_95 = 2 TMP\_96 = 0 not(TMP\_96) = 1 TMP\_97 = 0 not(TMP\_97) = 1 TMP\_98 = 1 not(TMP\_98) = 0 TMP\_99 = 1 not(TMP\_99) = 0 TMP\_100 = 1 not(TMP\_100) = 0 TMP\_101 = 2 TMP\_102 = 1 not(TMP\_102) = 0 TMP\_103 = 1 not(TMP\_103) = 0 TMP\_104 = 1 not(TMP\_104) = 0 TMP\_105 = 0 not(TMP\_105) = 1 TMP\_106 = 3 TMP\_107 = 0 not(TMP\_107) = 1 TMP\_108 = 0 not(TMP\_108) = 1 TMP\_109 = 0 TMP\_110 = 1 not(TMP\_110) = 0 TMP\_111 = 1 not(TMP\_111) = 0 TMP\_112 = 2 TMP\_113 = 0 not(TMP\_113) = 1 TMP\_114 = 0 not(TMP\_114) = 1 TMP\_115 = 1 not(TMP\_115) = 0 TMP\_116 = 1 not(TMP\_116) = 0 TMP\_117 = 1 not(TMP\_117) = 0 TMP\_118 = 2 TMP\_119 = 1 not(TMP\_119) = 0 TMP\_120 = 0 not(TMP\_120) = 1 TMP\_121 = 1 not(TMP\_121) = 0 TMP\_122 = 0 not(TMP\_122) = 1 TMP\_123 = 2 TMP\_124 = 0 not(TMP\_124) = 1 TMP\_125 = 0 not(TMP\_125) = 1 TMP\_126 = 0 TMP\_127 = 1 not(TMP\_127) = 0 TMP\_128 = 1 not(TMP\_128) = 0 TMP\_129 = 2 TMP\_130 = 0 not(TMP\_130) = 1 TMP\_131 = 0 not(TMP\_131) = 1 TMP\_132 = 1 not(TMP\_132) = 0 TMP\_133 = 1 not(TMP\_133) = 0 TMP\_134 = 1 not(TMP\_134) = 0 TMP\_135 = 2 Area\_0 = 60 Distance\_0\_Rule\_0 = 60 Distance\_1\_Rule\_0 = 1 Area\_1 = 70 Distance\_0\_Rule\_1 = 35 Distance\_1\_Rule\_1 = 2 Area\_2 = 30 Distance\_0\_Rule\_2 = 30 Distance\_1\_Rule\_2 = 1 Area\_3 = 60 -(Rule\_3\_LB) = -60 Distance\_0\_Rule\_3 = 60 -(Rule\_3\_LB) = -1 Distance\_1\_Rule\_3 = 1 Area\_4 = 20 -(Rule\_4\_LB) = 0 Distance\_0\_Rule\_4 = 20 -(Rule\_4\_LB) = 0 Distance\_1\_Rule\_4 = 1 TMP\_136 = 240 .

- Solution #14 found. 14 Solutions, Resolution 0.052s, 39 Nodes (743.3 n/s), 34 Backtracks, 6 Fails, 0 Restarts

Rule\_3\_LB = 60 Rule\_3\_UB = 120 Rule\_3\_LB = 1 Rule\_3\_UB = 2 Rule\_4\_LB = 0 Rule\_4\_UB = 20 Rule\_4\_LB = 0 Rule\_4\_UB = 1 Overlaps\_0\_0 = 0 Overlaps\_0\_1 = 1 Overlaps\_0\_2 = 0 Overlaps\_0\_3 = 0 Overlaps\_0\_4 = 0 Overlaps\_1\_0 = 1 Overlaps\_1\_1 = 0 Overlaps\_1\_2 = 0 Overlaps\_1\_3 = 0 Overlaps\_1\_4 = 0 Overlaps\_2\_0 = 1 Overlaps\_2\_1 = 0 Overlaps\_2\_2 = 0 Overlaps\_2\_3 = 0 Overlaps\_2\_4 = 0 Overlaps\_3\_0 = 0 Overlaps\_3\_1 = 0 Overlaps\_3\_2 = 0 Overlaps\_3\_3 = 0 Overlaps\_3\_4 = 0 Overlaps\_4\_0 = 0 Overlaps\_4\_1 = 0 Overlaps\_4\_2 = 0 Overlaps\_4\_3 = 0 Overlaps\_4\_4 = 0 TMP\_0 = 1 not(TMP\_0) = 0 TMP\_1 = 1 not(TMP\_1) = 0 TMP\_2 = 0 not(TMP\_2) = 1 TMP\_3 = 1 not(TMP\_3) = 0 TMP\_4 = 3 TMP\_5 = 0 not(TMP\_5) = 1 TMP\_6 = 0 not(TMP\_6) = 1 TMP\_7 = 0 TMP\_8 = 1 not(TMP\_8) = 0 TMP\_9 = 1 not(TMP\_9) = 0 TMP\_10 = 2 TMP\_11 = 0 not(TMP\_11) = 1 TMP\_12 = 0 not(TMP\_12) = 1 TMP\_13 = 1 not(TMP\_13) = 0 TMP\_14 = 1 not(TMP\_14) = 0 TMP\_15 = 1 not(TMP\_15) = 0 TMP\_16 = 2 TMP\_17 = 0 not(TMP\_17) = 1 TMP\_18 = 1 not(TMP\_18) = 0 TMP\_19 = 1 not(TMP\_19) = 0 TMP\_20 = 1 not(TMP\_20) = 0 TMP\_21 = 3 TMP\_22 = 0 not(TMP\_22) = 1 TMP\_23 = 0 not(TMP\_23) = 1 TMP\_24 = 0 TMP\_25 = 1 not(TMP\_25) = 0 TMP\_26 = 1 not(TMP\_26) = 0 TMP\_27 = 2 TMP\_28 = 0 not(TMP\_28) = 1 TMP\_29 = 0 not(TMP\_29) = 1 TMP\_30 = 1 not(TMP\_30) = 0 TMP\_31 = 1 not(TMP\_31) = 0 TMP\_32 = 1 not(TMP\_32) = 0 TMP\_33 = 2 TMP\_34 = 0 not(TMP\_34) = 1 TMP\_35 = 1 not(TMP\_35) = 0 TMP\_36 = 1 not(TMP\_36) = 0 TMP\_37 = 1 not(TMP\_37) = 0 TMP\_38 = 3 TMP\_39 = 0 not(TMP\_39) = 1 TMP\_40 = 0 not(TMP\_40) = 1 TMP\_41 = 0 TMP\_42 = 1 not(TMP\_42) = 0 TMP\_43 = 1 not(TMP\_43) = 0 TMP\_44 = 2 TMP\_45 = 0 not(TMP\_45) = 1 TMP\_46 = 0 not(TMP\_46) = 1 TMP\_47 = 1 not(TMP\_47) = 0 TMP\_48 = 1 not(TMP\_48) = 0 TMP\_49 = 1 not(TMP\_49) = 0 TMP\_50 = 2 TMP\_51 = 0 not(TMP\_51) = 1 TMP\_52 = 1 not(TMP\_52) = 0 TMP\_53 = 0 not(TMP\_53) = 1 TMP\_54 = 1 not(TMP\_54) = 0 TMP\_55 = 2 TMP\_56 = 0 not(TMP\_56) = 1 TMP\_57 = 0 not(TMP\_57) = 1 TMP\_58 = 0 TMP\_59 = 1 not(TMP\_59) = 0 TMP\_60 = 1 not(TMP\_60) = 0 TMP\_61 = 2 TMP\_62 = 0 not(TMP\_62) = 1 TMP\_63 = 0 not(TMP\_63) = 1 TMP\_64 = 1 not(TMP\_64) = 0 TMP\_65 = 1 not(TMP\_65) = 0 TMP\_66 = 1 not(TMP\_66) = 0 TMP\_67 = 2 TMP\_68 = 1 not(TMP\_68) = 0 TMP\_69 = 0 not(TMP\_69) = 1 TMP\_70 = 1 not(TMP\_70) = 0 TMP\_71 = 1 not(TMP\_71) = 0 TMP\_72 = 3 TMP\_73 = 0 not(TMP\_73) = 1 TMP\_74 = 0 not(TMP\_74) = 1 TMP\_75 = 0 TMP\_76 = 1 not(TMP\_76) = 0 TMP\_77 = 1 not(TMP\_77) = 0 TMP\_78 = 2 TMP\_79 = 0 not(TMP\_79) = 1 TMP\_80 = 0 not(TMP\_80) = 1 TMP\_81 = 1 not(TMP\_81) = 0 TMP\_82 = 1 not(TMP\_82) = 0 TMP\_83 = 1 not(TMP\_83) = 0 TMP\_84 = 2 TMP\_85 = 1 not(TMP\_85) = 0 TMP\_86 = 0 not(TMP\_86) = 1 TMP\_87 = 1 not(TMP\_87) = 0 TMP\_88 = 1 not(TMP\_88) = 0 TMP\_89 = 3 TMP\_90 = 0 not(TMP\_90) = 1 TMP\_91 = 0 not(TMP\_91) = 1 TMP\_92 = 0 TMP\_93 = 1 not(TMP\_93) = 0 TMP\_94 = 1 not(TMP\_94) = 0 TMP\_95 = 2 TMP\_96 = 0 not(TMP\_96) = 1 TMP\_97 = 0 not(TMP\_97) = 1 TMP\_98 = 1 not(TMP\_98) = 0 TMP\_99 = 1 not(TMP\_99) = 0 TMP\_100 = 1 not(TMP\_100) = 0 TMP\_101 = 2 TMP\_102 = 1 not(TMP\_102) = 0 TMP\_103 = 1 not(TMP\_103) = 0 TMP\_104 = 1 not(TMP\_104) = 0 TMP\_105 = 0 not(TMP\_105) = 1 TMP\_106 = 3 TMP\_107 = 0 not(TMP\_107) = 1 TMP\_108 = 0 not(TMP\_108) = 1 TMP\_109 = 0 TMP\_110 = 1 not(TMP\_110) = 0 TMP\_111 = 1 not(TMP\_111) = 0 TMP\_112 = 2 TMP\_113 = 0 not(TMP\_113) = 1 TMP\_114 = 0 not(TMP\_114) = 1 TMP\_115 = 1 not(TMP\_115) = 0 TMP\_116 = 1 not(TMP\_116) = 0 TMP\_117 = 1 not(TMP\_117) = 0 TMP\_118 = 2 TMP\_119 = 1 not(TMP\_119) = 0 TMP\_120 = 0 not(TMP\_120) = 1 TMP\_121 = 1 not(TMP\_121) = 0 TMP\_122 = 0 not(TMP\_122) = 1 TMP\_123 = 2 TMP\_124 = 0 not(TMP\_124) = 1 TMP\_125 = 0 not(TMP\_125) = 1 TMP\_126 = 0 TMP\_127 = 1 not(TMP\_127) = 0 TMP\_128 = 1 not(TMP\_128) = 0 TMP\_129 = 2 TMP\_130 = 0 not(TMP\_130) = 1 TMP\_131 = 0 not(TMP\_131) = 1 TMP\_132 = 1 not(TMP\_132) = 0 TMP\_133 = 1 not(TMP\_133) = 0 TMP\_134 = 1 not(TMP\_134) = 0 TMP\_135 = 2 Area\_0 = 60 Distance\_0\_Rule\_0 = 60 Distance\_1\_Rule\_0 = 1 Area\_1 = 70 Distance\_0\_Rule\_1 = 35 Distance\_1\_Rule\_1 = 2 Area\_2 = 30 Distance\_0\_Rule\_2 = 30 Distance\_1\_Rule\_2 = 1 Area\_3 = 60 -(Rule\_3\_LB) = -60 Distance\_0\_Rule\_3 = 60 -(Rule\_3\_LB) = -1 Distance\_1\_Rule\_3 = 1 Area\_4 = 20 -(Rule\_4\_LB) = 0 Distance\_0\_Rule\_4 = 20 -(Rule\_4\_LB) = 0 Distance\_1\_Rule\_4 = 1 TMP\_136 = 240 .

- Solution #15 found. 15 Solutions, Resolution 0.056s, 41 Nodes (732.2 n/s), 36 Backtracks, 6 Fails, 0 Restarts

Rule\_3\_LB = 60 Rule\_3\_UB = 120 Rule\_3\_LB = 1 Rule\_3\_UB = 2 Rule\_4\_LB = 0 Rule\_4\_UB = 20 Rule\_4\_LB = 0 Rule\_4\_UB = 1 Overlaps\_0\_0 = 0 Overlaps\_0\_1 = 1 Overlaps\_0\_2 = 1 Overlaps\_0\_3 = 0 Overlaps\_0\_4 = 0 Overlaps\_1\_0 = 0 Overlaps\_1\_1 = 0 Overlaps\_1\_2 = 0 Overlaps\_1\_3 = 0 Overlaps\_1\_4 = 0 Overlaps\_2\_0 = 1 Overlaps\_2\_1 = 0 Overlaps\_2\_2 = 0 Overlaps\_2\_3 = 0 Overlaps\_2\_4 = 0 Overlaps\_3\_0 = 0 Overlaps\_3\_1 = 0 Overlaps\_3\_2 = 0 Overlaps\_3\_3 = 0 Overlaps\_3\_4 = 0 Overlaps\_4\_0 = 0 Overlaps\_4\_1 = 0 Overlaps\_4\_2 = 0 Overlaps\_4\_3 = 0 Overlaps\_4\_4 = 0 TMP\_0 = 1 not(TMP\_0) = 0 TMP\_1 = 1 not(TMP\_1) = 0 TMP\_2 = 0 not(TMP\_2) = 1 TMP\_3 = 1 not(TMP\_3) = 0 TMP\_4 = 3 TMP\_5 = 0 not(TMP\_5) = 1 TMP\_6 = 0 not(TMP\_6) = 1 TMP\_7 = 0 TMP\_8 = 1 not(TMP\_8) = 0 TMP\_9 = 1 not(TMP\_9) = 0 TMP\_10 = 2 TMP\_11 = 0 not(TMP\_11) = 1 TMP\_12 = 0 not(TMP\_12) = 1 TMP\_13 = 1 not(TMP\_13) = 0 TMP\_14 = 1 not(TMP\_14) = 0 TMP\_15 = 1 not(TMP\_15) = 0 TMP\_16 = 2 TMP\_17 = 0 not(TMP\_17) = 1 TMP\_18 = 1 not(TMP\_18) = 0 TMP\_19 = 1 not(TMP\_19) = 0 TMP\_20 = 1 not(TMP\_20) = 0 TMP\_21 = 3 TMP\_22 = 0 not(TMP\_22) = 1 TMP\_23 = 0 not(TMP\_23) = 1 TMP\_24 = 0 TMP\_25 = 1 not(TMP\_25) = 0 TMP\_26 = 1 not(TMP\_26) = 0 TMP\_27 = 2 TMP\_28 = 0 not(TMP\_28) = 1 TMP\_29 = 0 not(TMP\_29) = 1 TMP\_30 = 1 not(TMP\_30) = 0 TMP\_31 = 1 not(TMP\_31) = 0 TMP\_32 = 1 not(TMP\_32) = 0 TMP\_33 = 2 TMP\_34 = 0 not(TMP\_34) = 1 TMP\_35 = 1 not(TMP\_35) = 0 TMP\_36 = 1 not(TMP\_36) = 0 TMP\_37 = 1 not(TMP\_37) = 0 TMP\_38 = 3 TMP\_39 = 0 not(TMP\_39) = 1 TMP\_40 = 0 not(TMP\_40) = 1 TMP\_41 = 0 TMP\_42 = 1 not(TMP\_42) = 0 TMP\_43 = 1 not(TMP\_43) = 0 TMP\_44 = 2 TMP\_45 = 0 not(TMP\_45) = 1 TMP\_46 = 0 not(TMP\_46) = 1 TMP\_47 = 1 not(TMP\_47) = 0 TMP\_48 = 1 not(TMP\_48) = 0 TMP\_49 = 1 not(TMP\_49) = 0 TMP\_50 = 2 TMP\_51 = 0 not(TMP\_51) = 1 TMP\_52 = 1 not(TMP\_52) = 0 TMP\_53 = 0 not(TMP\_53) = 1 TMP\_54 = 1 not(TMP\_54) = 0 TMP\_55 = 2 TMP\_56 = 0 not(TMP\_56) = 1 TMP\_57 = 0 not(TMP\_57) = 1 TMP\_58 = 0 TMP\_59 = 1 not(TMP\_59) = 0 TMP\_60 = 1 not(TMP\_60) = 0 TMP\_61 = 2 TMP\_62 = 0 not(TMP\_62) = 1 TMP\_63 = 0 not(TMP\_63) = 1 TMP\_64 = 1 not(TMP\_64) = 0 TMP\_65 = 1 not(TMP\_65) = 0 TMP\_66 = 1 not(TMP\_66) = 0 TMP\_67 = 2 TMP\_68 = 1 not(TMP\_68) = 0 TMP\_69 = 0 not(TMP\_69) = 1 TMP\_70 = 1 not(TMP\_70) = 0 TMP\_71 = 1 not(TMP\_71) = 0 TMP\_72 = 3 TMP\_73 = 0 not(TMP\_73) = 1 TMP\_74 = 0 not(TMP\_74) = 1 TMP\_75 = 0 TMP\_76 = 1 not(TMP\_76) = 0 TMP\_77 = 1 not(TMP\_77) = 0 TMP\_78 = 2 TMP\_79 = 0 not(TMP\_79) = 1 TMP\_80 = 0 not(TMP\_80) = 1 TMP\_81 = 1 not(TMP\_81) = 0 TMP\_82 = 1 not(TMP\_82) = 0 TMP\_83 = 1 not(TMP\_83) = 0 TMP\_84 = 2 TMP\_85 = 1 not(TMP\_85) = 0 TMP\_86 = 0 not(TMP\_86) = 1 TMP\_87 = 1 not(TMP\_87) = 0 TMP\_88 = 1 not(TMP\_88) = 0 TMP\_89 = 3 TMP\_90 = 0 not(TMP\_90) = 1 TMP\_91 = 0 not(TMP\_91) = 1 TMP\_92 = 0 TMP\_93 = 1 not(TMP\_93) = 0 TMP\_94 = 1 not(TMP\_94) = 0 TMP\_95 = 2 TMP\_96 = 0 not(TMP\_96) = 1 TMP\_97 = 0 not(TMP\_97) = 1 TMP\_98 = 1 not(TMP\_98) = 0 TMP\_99 = 1 not(TMP\_99) = 0 TMP\_100 = 1 not(TMP\_100) = 0 TMP\_101 = 2 TMP\_102 = 1 not(TMP\_102) = 0 TMP\_103 = 1 not(TMP\_103) = 0 TMP\_104 = 1 not(TMP\_104) = 0 TMP\_105 = 0 not(TMP\_105) = 1 TMP\_106 = 3 TMP\_107 = 0 not(TMP\_107) = 1 TMP\_108 = 0 not(TMP\_108) = 1 TMP\_109 = 0 TMP\_110 = 1 not(TMP\_110) = 0 TMP\_111 = 1 not(TMP\_111) = 0 TMP\_112 = 2 TMP\_113 = 0 not(TMP\_113) = 1 TMP\_114 = 0 not(TMP\_114) = 1 TMP\_115 = 1 not(TMP\_115) = 0 TMP\_116 = 1 not(TMP\_116) = 0 TMP\_117 = 1 not(TMP\_117) = 0 TMP\_118 = 2 TMP\_119 = 1 not(TMP\_119) = 0 TMP\_120 = 0 not(TMP\_120) = 1 TMP\_121 = 1 not(TMP\_121) = 0 TMP\_122 = 0 not(TMP\_122) = 1 TMP\_123 = 2 TMP\_124 = 0 not(TMP\_124) = 1 TMP\_125 = 0 not(TMP\_125) = 1 TMP\_126 = 0 TMP\_127 = 1 not(TMP\_127) = 0 TMP\_128 = 1 not(TMP\_128) = 0 TMP\_129 = 2 TMP\_130 = 0 not(TMP\_130) = 1 TMP\_131 = 0 not(TMP\_131) = 1 TMP\_132 = 1 not(TMP\_132) = 0 TMP\_133 = 1 not(TMP\_133) = 0 TMP\_134 = 1 not(TMP\_134) = 0 TMP\_135 = 2 Area\_0 = 60 Distance\_0\_Rule\_0 = 60 Distance\_1\_Rule\_0 = 1 Area\_1 = 70 Distance\_0\_Rule\_1 = 35 Distance\_1\_Rule\_1 = 2 Area\_2 = 30 Distance\_0\_Rule\_2 = 30 Distance\_1\_Rule\_2 = 1 Area\_3 = 60 -(Rule\_3\_LB) = -60 Distance\_0\_Rule\_3 = 60 -(Rule\_3\_LB) = -1 Distance\_1\_Rule\_3 = 1 Area\_4 = 20 -(Rule\_4\_LB) = 0 Distance\_0\_Rule\_4 = 20 -(Rule\_4\_LB) = 0 Distance\_1\_Rule\_4 = 1 TMP\_136 = 240 .

- Solution #16 found. 16 Solutions, Resolution 0.060s, 42 Nodes (696.2 n/s), 37 Backtracks, 6 Fails, 0 Restarts

Rule\_3\_LB = 60 Rule\_3\_UB = 120 Rule\_3\_LB = 1 Rule\_3\_UB = 2 Rule\_4\_LB = 0 Rule\_4\_UB = 20 Rule\_4\_LB = 0 Rule\_4\_UB = 1 Overlaps\_0\_0 = 0 Overlaps\_0\_1 = 1 Overlaps\_0\_2 = 1 Overlaps\_0\_3 = 0 Overlaps\_0\_4 = 0 Overlaps\_1\_0 = 1 Overlaps\_1\_1 = 0 Overlaps\_1\_2 = 0 Overlaps\_1\_3 = 0 Overlaps\_1\_4 = 0 Overlaps\_2\_0 = 1 Overlaps\_2\_1 = 0 Overlaps\_2\_2 = 0 Overlaps\_2\_3 = 0 Overlaps\_2\_4 = 0 Overlaps\_3\_0 = 0 Overlaps\_3\_1 = 0 Overlaps\_3\_2 = 0 Overlaps\_3\_3 = 0 Overlaps\_3\_4 = 0 Overlaps\_4\_0 = 0 Overlaps\_4\_1 = 0 Overlaps\_4\_2 = 0 Overlaps\_4\_3 = 0 Overlaps\_4\_4 = 0 TMP\_0 = 1 not(TMP\_0) = 0 TMP\_1 = 1 not(TMP\_1) = 0 TMP\_2 = 0 not(TMP\_2) = 1 TMP\_3 = 1 not(TMP\_3) = 0 TMP\_4 = 3 TMP\_5 = 0 not(TMP\_5) = 1 TMP\_6 = 0 not(TMP\_6) = 1 TMP\_7 = 0 TMP\_8 = 1 not(TMP\_8) = 0 TMP\_9 = 1 not(TMP\_9) = 0 TMP\_10 = 2 TMP\_11 = 0 not(TMP\_11) = 1 TMP\_12 = 0 not(TMP\_12) = 1 TMP\_13 = 1 not(TMP\_13) = 0 TMP\_14 = 1 not(TMP\_14) = 0 TMP\_15 = 1 not(TMP\_15) = 0 TMP\_16 = 2 TMP\_17 = 0 not(TMP\_17) = 1 TMP\_18 = 1 not(TMP\_18) = 0 TMP\_19 = 1 not(TMP\_19) = 0 TMP\_20 = 1 not(TMP\_20) = 0 TMP\_21 = 3 TMP\_22 = 0 not(TMP\_22) = 1 TMP\_23 = 0 not(TMP\_23) = 1 TMP\_24 = 0 TMP\_25 = 1 not(TMP\_25) = 0 TMP\_26 = 1 not(TMP\_26) = 0 TMP\_27 = 2 TMP\_28 = 0 not(TMP\_28) = 1 TMP\_29 = 0 not(TMP\_29) = 1 TMP\_30 = 1 not(TMP\_30) = 0 TMP\_31 = 1 not(TMP\_31) = 0 TMP\_32 = 1 not(TMP\_32) = 0 TMP\_33 = 2 TMP\_34 = 0 not(TMP\_34) = 1 TMP\_35 = 1 not(TMP\_35) = 0 TMP\_36 = 1 not(TMP\_36) = 0 TMP\_37 = 1 not(TMP\_37) = 0 TMP\_38 = 3 TMP\_39 = 0 not(TMP\_39) = 1 TMP\_40 = 0 not(TMP\_40) = 1 TMP\_41 = 0 TMP\_42 = 1 not(TMP\_42) = 0 TMP\_43 = 1 not(TMP\_43) = 0 TMP\_44 = 2 TMP\_45 = 0 not(TMP\_45) = 1 TMP\_46 = 0 not(TMP\_46) = 1 TMP\_47 = 1 not(TMP\_47) = 0 TMP\_48 = 1 not(TMP\_48) = 0 TMP\_49 = 1 not(TMP\_49) = 0 TMP\_50 = 2 TMP\_51 = 0 not(TMP\_51) = 1 TMP\_52 = 1 not(TMP\_52) = 0 TMP\_53 = 0 not(TMP\_53) = 1 TMP\_54 = 1 not(TMP\_54) = 0 TMP\_55 = 2 TMP\_56 = 0 not(TMP\_56) = 1 TMP\_57 = 0 not(TMP\_57) = 1 TMP\_58 = 0 TMP\_59 = 1 not(TMP\_59) = 0 TMP\_60 = 1 not(TMP\_60) = 0 TMP\_61 = 2 TMP\_62 = 0 not(TMP\_62) = 1 TMP\_63 = 0 not(TMP\_63) = 1 TMP\_64 = 1 not(TMP\_64) = 0 TMP\_65 = 1 not(TMP\_65) = 0 TMP\_66 = 1 not(TMP\_66) = 0 TMP\_67 = 2 TMP\_68 = 1 not(TMP\_68) = 0 TMP\_69 = 0 not(TMP\_69) = 1 TMP\_70 = 1 not(TMP\_70) = 0 TMP\_71 = 1 not(TMP\_71) = 0 TMP\_72 = 3 TMP\_73 = 0 not(TMP\_73) = 1 TMP\_74 = 0 not(TMP\_74) = 1 TMP\_75 = 0 TMP\_76 = 1 not(TMP\_76) = 0 TMP\_77 = 1 not(TMP\_77) = 0 TMP\_78 = 2 TMP\_79 = 0 not(TMP\_79) = 1 TMP\_80 = 0 not(TMP\_80) = 1 TMP\_81 = 1 not(TMP\_81) = 0 TMP\_82 = 1 not(TMP\_82) = 0 TMP\_83 = 1 not(TMP\_83) = 0 TMP\_84 = 2 TMP\_85 = 1 not(TMP\_85) = 0 TMP\_86 = 0 not(TMP\_86) = 1 TMP\_87 = 1 not(TMP\_87) = 0 TMP\_88 = 1 not(TMP\_88) = 0 TMP\_89 = 3 TMP\_90 = 0 not(TMP\_90) = 1 TMP\_91 = 0 not(TMP\_91) = 1 TMP\_92 = 0 TMP\_93 = 1 not(TMP\_93) = 0 TMP\_94 = 1 not(TMP\_94) = 0 TMP\_95 = 2 TMP\_96 = 0 not(TMP\_96) = 1 TMP\_97 = 0 not(TMP\_97) = 1 TMP\_98 = 1 not(TMP\_98) = 0 TMP\_99 = 1 not(TMP\_99) = 0 TMP\_100 = 1 not(TMP\_100) = 0 TMP\_101 = 2 TMP\_102 = 1 not(TMP\_102) = 0 TMP\_103 = 1 not(TMP\_103) = 0 TMP\_104 = 1 not(TMP\_104) = 0 TMP\_105 = 0 not(TMP\_105) = 1 TMP\_106 = 3 TMP\_107 = 0 not(TMP\_107) = 1 TMP\_108 = 0 not(TMP\_108) = 1 TMP\_109 = 0 TMP\_110 = 1 not(TMP\_110) = 0 TMP\_111 = 1 not(TMP\_111) = 0 TMP\_112 = 2 TMP\_113 = 0 not(TMP\_113) = 1 TMP\_114 = 0 not(TMP\_114) = 1 TMP\_115 = 1 not(TMP\_115) = 0 TMP\_116 = 1 not(TMP\_116) = 0 TMP\_117 = 1 not(TMP\_117) = 0 TMP\_118 = 2 TMP\_119 = 1 not(TMP\_119) = 0 TMP\_120 = 0 not(TMP\_120) = 1 TMP\_121 = 1 not(TMP\_121) = 0 TMP\_122 = 0 not(TMP\_122) = 1 TMP\_123 = 2 TMP\_124 = 0 not(TMP\_124) = 1 TMP\_125 = 0 not(TMP\_125) = 1 TMP\_126 = 0 TMP\_127 = 1 not(TMP\_127) = 0 TMP\_128 = 1 not(TMP\_128) = 0 TMP\_129 = 2 TMP\_130 = 0 not(TMP\_130) = 1 TMP\_131 = 0 not(TMP\_131) = 1 TMP\_132 = 1 not(TMP\_132) = 0 TMP\_133 = 1 not(TMP\_133) = 0 TMP\_134 = 1 not(TMP\_134) = 0 TMP\_135 = 2 Area\_0 = 60 Distance\_0\_Rule\_0 = 60 Distance\_1\_Rule\_0 = 1 Area\_1 = 70 Distance\_0\_Rule\_1 = 35 Distance\_1\_Rule\_1 = 2 Area\_2 = 30 Distance\_0\_Rule\_2 = 30 Distance\_1\_Rule\_2 = 1 Area\_3 = 60 -(Rule\_3\_LB) = -60 Distance\_0\_Rule\_3 = 60 -(Rule\_3\_LB) = -1 Distance\_1\_Rule\_3 = 1 Area\_4 = 20 -(Rule\_4\_LB) = 0 Distance\_0\_Rule\_4 = 20 -(Rule\_4\_LB) = 0 Distance\_1\_Rule\_4 = 1 TMP\_136 = 240 .

- Solution #17 found. 17 Solutions, Resolution 0.062s, 47 Nodes (758.4 n/s), 42 Backtracks, 6 Fails, 0 Restarts

Rule\_3\_LB = 60 Rule\_3\_UB = 120 Rule\_3\_LB = 1 Rule\_3\_UB = 2 Rule\_4\_LB = 0 Rule\_4\_UB = 20 Rule\_4\_LB = 0 Rule\_4\_UB = 1 Overlaps\_0\_0 = 0 Overlaps\_0\_1 = 0 Overlaps\_0\_2 = 0 Overlaps\_0\_3 = 0 Overlaps\_0\_4 = 0 Overlaps\_1\_0 = 0 Overlaps\_1\_1 = 0 Overlaps\_1\_2 = 0 Overlaps\_1\_3 = 0 Overlaps\_1\_4 = 0 Overlaps\_2\_0 = 0 Overlaps\_2\_1 = 1 Overlaps\_2\_2 = 0 Overlaps\_2\_3 = 0 Overlaps\_2\_4 = 0 Overlaps\_3\_0 = 0 Overlaps\_3\_1 = 0 Overlaps\_3\_2 = 0 Overlaps\_3\_3 = 0 Overlaps\_3\_4 = 0 Overlaps\_4\_0 = 0 Overlaps\_4\_1 = 0 Overlaps\_4\_2 = 0 Overlaps\_4\_3 = 0 Overlaps\_4\_4 = 0 TMP\_0 = 1 not(TMP\_0) = 0 TMP\_1 = 1 not(TMP\_1) = 0 TMP\_2 = 0 not(TMP\_2) = 1 TMP\_3 = 1 not(TMP\_3) = 0 TMP\_4 = 3 TMP\_5 = 0 not(TMP\_5) = 1 TMP\_6 = 0 not(TMP\_6) = 1 TMP\_7 = 0 TMP\_8 = 1 not(TMP\_8) = 0 TMP\_9 = 1 not(TMP\_9) = 0 TMP\_10 = 2 TMP\_11 = 0 not(TMP\_11) = 1 TMP\_12 = 0 not(TMP\_12) = 1 TMP\_13 = 1 not(TMP\_13) = 0 TMP\_14 = 1 not(TMP\_14) = 0 TMP\_15 = 1 not(TMP\_15) = 0 TMP\_16 = 2 TMP\_17 = 0 not(TMP\_17) = 1 TMP\_18 = 1 not(TMP\_18) = 0 TMP\_19 = 1 not(TMP\_19) = 0 TMP\_20 = 1 not(TMP\_20) = 0 TMP\_21 = 3 TMP\_22 = 0 not(TMP\_22) = 1 TMP\_23 = 0 not(TMP\_23) = 1 TMP\_24 = 0 TMP\_25 = 1 not(TMP\_25) = 0 TMP\_26 = 1 not(TMP\_26) = 0 TMP\_27 = 2 TMP\_28 = 0 not(TMP\_28) = 1 TMP\_29 = 0 not(TMP\_29) = 1 TMP\_30 = 1 not(TMP\_30) = 0 TMP\_31 = 1 not(TMP\_31) = 0 TMP\_32 = 1 not(TMP\_32) = 0 TMP\_33 = 2 TMP\_34 = 0 not(TMP\_34) = 1 TMP\_35 = 1 not(TMP\_35) = 0 TMP\_36 = 1 not(TMP\_36) = 0 TMP\_37 = 1 not(TMP\_37) = 0 TMP\_38 = 3 TMP\_39 = 0 not(TMP\_39) = 1 TMP\_40 = 0 not(TMP\_40) = 1 TMP\_41 = 0 TMP\_42 = 1 not(TMP\_42) = 0 TMP\_43 = 1 not(TMP\_43) = 0 TMP\_44 = 2 TMP\_45 = 0 not(TMP\_45) = 1 TMP\_46 = 0 not(TMP\_46) = 1 TMP\_47 = 1 not(TMP\_47) = 0 TMP\_48 = 1 not(TMP\_48) = 0 TMP\_49 = 1 not(TMP\_49) = 0 TMP\_50 = 2 TMP\_51 = 0 not(TMP\_51) = 1 TMP\_52 = 1 not(TMP\_52) = 0 TMP\_53 = 0 not(TMP\_53) = 1 TMP\_54 = 1 not(TMP\_54) = 0 TMP\_55 = 2 TMP\_56 = 0 not(TMP\_56) = 1 TMP\_57 = 0 not(TMP\_57) = 1 TMP\_58 = 0 TMP\_59 = 1 not(TMP\_59) = 0 TMP\_60 = 1 not(TMP\_60) = 0 TMP\_61 = 2 TMP\_62 = 0 not(TMP\_62) = 1 TMP\_63 = 0 not(TMP\_63) = 1 TMP\_64 = 1 not(TMP\_64) = 0 TMP\_65 = 1 not(TMP\_65) = 0 TMP\_66 = 1 not(TMP\_66) = 0 TMP\_67 = 2 TMP\_68 = 1 not(TMP\_68) = 0 TMP\_69 = 0 not(TMP\_69) = 1 TMP\_70 = 1 not(TMP\_70) = 0 TMP\_71 = 1 not(TMP\_71) = 0 TMP\_72 = 3 TMP\_73 = 0 not(TMP\_73) = 1 TMP\_74 = 0 not(TMP\_74) = 1 TMP\_75 = 0 TMP\_76 = 1 not(TMP\_76) = 0 TMP\_77 = 1 not(TMP\_77) = 0 TMP\_78 = 2 TMP\_79 = 0 not(TMP\_79) = 1 TMP\_80 = 0 not(TMP\_80) = 1 TMP\_81 = 1 not(TMP\_81) = 0 TMP\_82 = 1 not(TMP\_82) = 0 TMP\_83 = 1 not(TMP\_83) = 0 TMP\_84 = 2 TMP\_85 = 1 not(TMP\_85) = 0 TMP\_86 = 0 not(TMP\_86) = 1 TMP\_87 = 1 not(TMP\_87) = 0 TMP\_88 = 1 not(TMP\_88) = 0 TMP\_89 = 3 TMP\_90 = 0 not(TMP\_90) = 1 TMP\_91 = 0 not(TMP\_91) = 1 TMP\_92 = 0 TMP\_93 = 1 not(TMP\_93) = 0 TMP\_94 = 1 not(TMP\_94) = 0 TMP\_95 = 2 TMP\_96 = 0 not(TMP\_96) = 1 TMP\_97 = 0 not(TMP\_97) = 1 TMP\_98 = 1 not(TMP\_98) = 0 TMP\_99 = 1 not(TMP\_99) = 0 TMP\_100 = 1 not(TMP\_100) = 0 TMP\_101 = 2 TMP\_102 = 1 not(TMP\_102) = 0 TMP\_103 = 1 not(TMP\_103) = 0 TMP\_104 = 1 not(TMP\_104) = 0 TMP\_105 = 0 not(TMP\_105) = 1 TMP\_106 = 3 TMP\_107 = 0 not(TMP\_107) = 1 TMP\_108 = 0 not(TMP\_108) = 1 TMP\_109 = 0 TMP\_110 = 1 not(TMP\_110) = 0 TMP\_111 = 1 not(TMP\_111) = 0 TMP\_112 = 2 TMP\_113 = 0 not(TMP\_113) = 1 TMP\_114 = 0 not(TMP\_114) = 1 TMP\_115 = 1 not(TMP\_115) = 0 TMP\_116 = 1 not(TMP\_116) = 0 TMP\_117 = 1 not(TMP\_117) = 0 TMP\_118 = 2 TMP\_119 = 1 not(TMP\_119) = 0 TMP\_120 = 0 not(TMP\_120) = 1 TMP\_121 = 1 not(TMP\_121) = 0 TMP\_122 = 0 not(TMP\_122) = 1 TMP\_123 = 2 TMP\_124 = 0 not(TMP\_124) = 1 TMP\_125 = 0 not(TMP\_125) = 1 TMP\_126 = 0 TMP\_127 = 1 not(TMP\_127) = 0 TMP\_128 = 1 not(TMP\_128) = 0 TMP\_129 = 2 TMP\_130 = 0 not(TMP\_130) = 1 TMP\_131 = 0 not(TMP\_131) = 1 TMP\_132 = 1 not(TMP\_132) = 0 TMP\_133 = 1 not(TMP\_133) = 0 TMP\_134 = 1 not(TMP\_134) = 0 TMP\_135 = 2 Area\_0 = 60 Distance\_0\_Rule\_0 = 60 Distance\_1\_Rule\_0 = 1 Area\_1 = 70 Distance\_0\_Rule\_1 = 35 Distance\_1\_Rule\_1 = 2 Area\_2 = 30 Distance\_0\_Rule\_2 = 30 Distance\_1\_Rule\_2 = 1 Area\_3 = 60 -(Rule\_3\_LB) = -60 Distance\_0\_Rule\_3 = 60 -(Rule\_3\_LB) = -1 Distance\_1\_Rule\_3 = 1 Area\_4 = 20 -(Rule\_4\_LB) = 0 Distance\_0\_Rule\_4 = 20 -(Rule\_4\_LB) = 0 Distance\_1\_Rule\_4 = 1 TMP\_136 = 240 .

- Solution #18 found. 18 Solutions, Resolution 0.064s, 48 Nodes (755.1 n/s), 43 Backtracks, 6 Fails, 0 Restarts

Rule\_3\_LB = 60 Rule\_3\_UB = 120 Rule\_3\_LB = 1 Rule\_3\_UB = 2 Rule\_4\_LB = 0 Rule\_4\_UB = 20 Rule\_4\_LB = 0 Rule\_4\_UB = 1 Overlaps\_0\_0 = 0 Overlaps\_0\_1 = 0 Overlaps\_0\_2 = 0 Overlaps\_0\_3 = 0 Overlaps\_0\_4 = 0 Overlaps\_1\_0 = 0 Overlaps\_1\_1 = 0 Overlaps\_1\_2 = 0 Overlaps\_1\_3 = 0 Overlaps\_1\_4 = 0 Overlaps\_2\_0 = 1 Overlaps\_2\_1 = 1 Overlaps\_2\_2 = 0 Overlaps\_2\_3 = 0 Overlaps\_2\_4 = 0 Overlaps\_3\_0 = 0 Overlaps\_3\_1 = 0 Overlaps\_3\_2 = 0 Overlaps\_3\_3 = 0 Overlaps\_3\_4 = 0 Overlaps\_4\_0 = 0 Overlaps\_4\_1 = 0 Overlaps\_4\_2 = 0 Overlaps\_4\_3 = 0 Overlaps\_4\_4 = 0 TMP\_0 = 1 not(TMP\_0) = 0 TMP\_1 = 1 not(TMP\_1) = 0 TMP\_2 = 0 not(TMP\_2) = 1 TMP\_3 = 1 not(TMP\_3) = 0 TMP\_4 = 3 TMP\_5 = 0 not(TMP\_5) = 1 TMP\_6 = 0 not(TMP\_6) = 1 TMP\_7 = 0 TMP\_8 = 1 not(TMP\_8) = 0 TMP\_9 = 1 not(TMP\_9) = 0 TMP\_10 = 2 TMP\_11 = 0 not(TMP\_11) = 1 TMP\_12 = 0 not(TMP\_12) = 1 TMP\_13 = 1 not(TMP\_13) = 0 TMP\_14 = 1 not(TMP\_14) = 0 TMP\_15 = 1 not(TMP\_15) = 0 TMP\_16 = 2 TMP\_17 = 0 not(TMP\_17) = 1 TMP\_18 = 1 not(TMP\_18) = 0 TMP\_19 = 1 not(TMP\_19) = 0 TMP\_20 = 1 not(TMP\_20) = 0 TMP\_21 = 3 TMP\_22 = 0 not(TMP\_22) = 1 TMP\_23 = 0 not(TMP\_23) = 1 TMP\_24 = 0 TMP\_25 = 1 not(TMP\_25) = 0 TMP\_26 = 1 not(TMP\_26) = 0 TMP\_27 = 2 TMP\_28 = 0 not(TMP\_28) = 1 TMP\_29 = 0 not(TMP\_29) = 1 TMP\_30 = 1 not(TMP\_30) = 0 TMP\_31 = 1 not(TMP\_31) = 0 TMP\_32 = 1 not(TMP\_32) = 0 TMP\_33 = 2 TMP\_34 = 0 not(TMP\_34) = 1 TMP\_35 = 1 not(TMP\_35) = 0 TMP\_36 = 1 not(TMP\_36) = 0 TMP\_37 = 1 not(TMP\_37) = 0 TMP\_38 = 3 TMP\_39 = 0 not(TMP\_39) = 1 TMP\_40 = 0 not(TMP\_40) = 1 TMP\_41 = 0 TMP\_42 = 1 not(TMP\_42) = 0 TMP\_43 = 1 not(TMP\_43) = 0 TMP\_44 = 2 TMP\_45 = 0 not(TMP\_45) = 1 TMP\_46 = 0 not(TMP\_46) = 1 TMP\_47 = 1 not(TMP\_47) = 0 TMP\_48 = 1 not(TMP\_48) = 0 TMP\_49 = 1 not(TMP\_49) = 0 TMP\_50 = 2 TMP\_51 = 0 not(TMP\_51) = 1 TMP\_52 = 1 not(TMP\_52) = 0 TMP\_53 = 0 not(TMP\_53) = 1 TMP\_54 = 1 not(TMP\_54) = 0 TMP\_55 = 2 TMP\_56 = 0 not(TMP\_56) = 1 TMP\_57 = 0 not(TMP\_57) = 1 TMP\_58 = 0 TMP\_59 = 1 not(TMP\_59) = 0 TMP\_60 = 1 not(TMP\_60) = 0 TMP\_61 = 2 TMP\_62 = 0 not(TMP\_62) = 1 TMP\_63 = 0 not(TMP\_63) = 1 TMP\_64 = 1 not(TMP\_64) = 0 TMP\_65 = 1 not(TMP\_65) = 0 TMP\_66 = 1 not(TMP\_66) = 0 TMP\_67 = 2 TMP\_68 = 1 not(TMP\_68) = 0 TMP\_69 = 0 not(TMP\_69) = 1 TMP\_70 = 1 not(TMP\_70) = 0 TMP\_71 = 1 not(TMP\_71) = 0 TMP\_72 = 3 TMP\_73 = 0 not(TMP\_73) = 1 TMP\_74 = 0 not(TMP\_74) = 1 TMP\_75 = 0 TMP\_76 = 1 not(TMP\_76) = 0 TMP\_77 = 1 not(TMP\_77) = 0 TMP\_78 = 2 TMP\_79 = 0 not(TMP\_79) = 1 TMP\_80 = 0 not(TMP\_80) = 1 TMP\_81 = 1 not(TMP\_81) = 0 TMP\_82 = 1 not(TMP\_82) = 0 TMP\_83 = 1 not(TMP\_83) = 0 TMP\_84 = 2 TMP\_85 = 1 not(TMP\_85) = 0 TMP\_86 = 0 not(TMP\_86) = 1 TMP\_87 = 1 not(TMP\_87) = 0 TMP\_88 = 1 not(TMP\_88) = 0 TMP\_89 = 3 TMP\_90 = 0 not(TMP\_90) = 1 TMP\_91 = 0 not(TMP\_91) = 1 TMP\_92 = 0 TMP\_93 = 1 not(TMP\_93) = 0 TMP\_94 = 1 not(TMP\_94) = 0 TMP\_95 = 2 TMP\_96 = 0 not(TMP\_96) = 1 TMP\_97 = 0 not(TMP\_97) = 1 TMP\_98 = 1 not(TMP\_98) = 0 TMP\_99 = 1 not(TMP\_99) = 0 TMP\_100 = 1 not(TMP\_100) = 0 TMP\_101 = 2 TMP\_102 = 1 not(TMP\_102) = 0 TMP\_103 = 1 not(TMP\_103) = 0 TMP\_104 = 1 not(TMP\_104) = 0 TMP\_105 = 0 not(TMP\_105) = 1 TMP\_106 = 3 TMP\_107 = 0 not(TMP\_107) = 1 TMP\_108 = 0 not(TMP\_108) = 1 TMP\_109 = 0 TMP\_110 = 1 not(TMP\_110) = 0 TMP\_111 = 1 not(TMP\_111) = 0 TMP\_112 = 2 TMP\_113 = 0 not(TMP\_113) = 1 TMP\_114 = 0 not(TMP\_114) = 1 TMP\_115 = 1 not(TMP\_115) = 0 TMP\_116 = 1 not(TMP\_116) = 0 TMP\_117 = 1 not(TMP\_117) = 0 TMP\_118 = 2 TMP\_119 = 1 not(TMP\_119) = 0 TMP\_120 = 0 not(TMP\_120) = 1 TMP\_121 = 1 not(TMP\_121) = 0 TMP\_122 = 0 not(TMP\_122) = 1 TMP\_123 = 2 TMP\_124 = 0 not(TMP\_124) = 1 TMP\_125 = 0 not(TMP\_125) = 1 TMP\_126 = 0 TMP\_127 = 1 not(TMP\_127) = 0 TMP\_128 = 1 not(TMP\_128) = 0 TMP\_129 = 2 TMP\_130 = 0 not(TMP\_130) = 1 TMP\_131 = 0 not(TMP\_131) = 1 TMP\_132 = 1 not(TMP\_132) = 0 TMP\_133 = 1 not(TMP\_133) = 0 TMP\_134 = 1 not(TMP\_134) = 0 TMP\_135 = 2 Area\_0 = 60 Distance\_0\_Rule\_0 = 60 Distance\_1\_Rule\_0 = 1 Area\_1 = 70 Distance\_0\_Rule\_1 = 35 Distance\_1\_Rule\_1 = 2 Area\_2 = 30 Distance\_0\_Rule\_2 = 30 Distance\_1\_Rule\_2 = 1 Area\_3 = 60 -(Rule\_3\_LB) = -60 Distance\_0\_Rule\_3 = 60 -(Rule\_3\_LB) = -1 Distance\_1\_Rule\_3 = 1 Area\_4 = 20 -(Rule\_4\_LB) = 0 Distance\_0\_Rule\_4 = 20 -(Rule\_4\_LB) = 0 Distance\_1\_Rule\_4 = 1 TMP\_136 = 240 .

- Solution #19 found. 19 Solutions, Resolution 0.065s, 50 Nodes (771.2 n/s), 45 Backtracks, 6 Fails, 0 Restarts

Rule\_3\_LB = 60 Rule\_3\_UB = 120 Rule\_3\_LB = 1 Rule\_3\_UB = 2 Rule\_4\_LB = 0 Rule\_4\_UB = 20 Rule\_4\_LB = 0 Rule\_4\_UB = 1 Overlaps\_0\_0 = 0 Overlaps\_0\_1 = 0 Overlaps\_0\_2 = 1 Overlaps\_0\_3 = 0 Overlaps\_0\_4 = 0 Overlaps\_1\_0 = 0 Overlaps\_1\_1 = 0 Overlaps\_1\_2 = 0 Overlaps\_1\_3 = 0 Overlaps\_1\_4 = 0 Overlaps\_2\_0 = 0 Overlaps\_2\_1 = 1 Overlaps\_2\_2 = 0 Overlaps\_2\_3 = 0 Overlaps\_2\_4 = 0 Overlaps\_3\_0 = 0 Overlaps\_3\_1 = 0 Overlaps\_3\_2 = 0 Overlaps\_3\_3 = 0 Overlaps\_3\_4 = 0 Overlaps\_4\_0 = 0 Overlaps\_4\_1 = 0 Overlaps\_4\_2 = 0 Overlaps\_4\_3 = 0 Overlaps\_4\_4 = 0 TMP\_0 = 1 not(TMP\_0) = 0 TMP\_1 = 1 not(TMP\_1) = 0 TMP\_2 = 0 not(TMP\_2) = 1 TMP\_3 = 1 not(TMP\_3) = 0 TMP\_4 = 3 TMP\_5 = 0 not(TMP\_5) = 1 TMP\_6 = 0 not(TMP\_6) = 1 TMP\_7 = 0 TMP\_8 = 1 not(TMP\_8) = 0 TMP\_9 = 1 not(TMP\_9) = 0 TMP\_10 = 2 TMP\_11 = 0 not(TMP\_11) = 1 TMP\_12 = 0 not(TMP\_12) = 1 TMP\_13 = 1 not(TMP\_13) = 0 TMP\_14 = 1 not(TMP\_14) = 0 TMP\_15 = 1 not(TMP\_15) = 0 TMP\_16 = 2 TMP\_17 = 0 not(TMP\_17) = 1 TMP\_18 = 1 not(TMP\_18) = 0 TMP\_19 = 1 not(TMP\_19) = 0 TMP\_20 = 1 not(TMP\_20) = 0 TMP\_21 = 3 TMP\_22 = 0 not(TMP\_22) = 1 TMP\_23 = 0 not(TMP\_23) = 1 TMP\_24 = 0 TMP\_25 = 1 not(TMP\_25) = 0 TMP\_26 = 1 not(TMP\_26) = 0 TMP\_27 = 2 TMP\_28 = 0 not(TMP\_28) = 1 TMP\_29 = 0 not(TMP\_29) = 1 TMP\_30 = 1 not(TMP\_30) = 0 TMP\_31 = 1 not(TMP\_31) = 0 TMP\_32 = 1 not(TMP\_32) = 0 TMP\_33 = 2 TMP\_34 = 0 not(TMP\_34) = 1 TMP\_35 = 1 not(TMP\_35) = 0 TMP\_36 = 1 not(TMP\_36) = 0 TMP\_37 = 1 not(TMP\_37) = 0 TMP\_38 = 3 TMP\_39 = 0 not(TMP\_39) = 1 TMP\_40 = 0 not(TMP\_40) = 1 TMP\_41 = 0 TMP\_42 = 1 not(TMP\_42) = 0 TMP\_43 = 1 not(TMP\_43) = 0 TMP\_44 = 2 TMP\_45 = 0 not(TMP\_45) = 1 TMP\_46 = 0 not(TMP\_46) = 1 TMP\_47 = 1 not(TMP\_47) = 0 TMP\_48 = 1 not(TMP\_48) = 0 TMP\_49 = 1 not(TMP\_49) = 0 TMP\_50 = 2 TMP\_51 = 0 not(TMP\_51) = 1 TMP\_52 = 1 not(TMP\_52) = 0 TMP\_53 = 0 not(TMP\_53) = 1 TMP\_54 = 1 not(TMP\_54) = 0 TMP\_55 = 2 TMP\_56 = 0 not(TMP\_56) = 1 TMP\_57 = 0 not(TMP\_57) = 1 TMP\_58 = 0 TMP\_59 = 1 not(TMP\_59) = 0 TMP\_60 = 1 not(TMP\_60) = 0 TMP\_61 = 2 TMP\_62 = 0 not(TMP\_62) = 1 TMP\_63 = 0 not(TMP\_63) = 1 TMP\_64 = 1 not(TMP\_64) = 0 TMP\_65 = 1 not(TMP\_65) = 0 TMP\_66 = 1 not(TMP\_66) = 0 TMP\_67 = 2 TMP\_68 = 1 not(TMP\_68) = 0 TMP\_69 = 0 not(TMP\_69) = 1 TMP\_70 = 1 not(TMP\_70) = 0 TMP\_71 = 1 not(TMP\_71) = 0 TMP\_72 = 3 TMP\_73 = 0 not(TMP\_73) = 1 TMP\_74 = 0 not(TMP\_74) = 1 TMP\_75 = 0 TMP\_76 = 1 not(TMP\_76) = 0 TMP\_77 = 1 not(TMP\_77) = 0 TMP\_78 = 2 TMP\_79 = 0 not(TMP\_79) = 1 TMP\_80 = 0 not(TMP\_80) = 1 TMP\_81 = 1 not(TMP\_81) = 0 TMP\_82 = 1 not(TMP\_82) = 0 TMP\_83 = 1 not(TMP\_83) = 0 TMP\_84 = 2 TMP\_85 = 1 not(TMP\_85) = 0 TMP\_86 = 0 not(TMP\_86) = 1 TMP\_87 = 1 not(TMP\_87) = 0 TMP\_88 = 1 not(TMP\_88) = 0 TMP\_89 = 3 TMP\_90 = 0 not(TMP\_90) = 1 TMP\_91 = 0 not(TMP\_91) = 1 TMP\_92 = 0 TMP\_93 = 1 not(TMP\_93) = 0 TMP\_94 = 1 not(TMP\_94) = 0 TMP\_95 = 2 TMP\_96 = 0 not(TMP\_96) = 1 TMP\_97 = 0 not(TMP\_97) = 1 TMP\_98 = 1 not(TMP\_98) = 0 TMP\_99 = 1 not(TMP\_99) = 0 TMP\_100 = 1 not(TMP\_100) = 0 TMP\_101 = 2 TMP\_102 = 1 not(TMP\_102) = 0 TMP\_103 = 1 not(TMP\_103) = 0 TMP\_104 = 1 not(TMP\_104) = 0 TMP\_105 = 0 not(TMP\_105) = 1 TMP\_106 = 3 TMP\_107 = 0 not(TMP\_107) = 1 TMP\_108 = 0 not(TMP\_108) = 1 TMP\_109 = 0 TMP\_110 = 1 not(TMP\_110) = 0 TMP\_111 = 1 not(TMP\_111) = 0 TMP\_112 = 2 TMP\_113 = 0 not(TMP\_113) = 1 TMP\_114 = 0 not(TMP\_114) = 1 TMP\_115 = 1 not(TMP\_115) = 0 TMP\_116 = 1 not(TMP\_116) = 0 TMP\_117 = 1 not(TMP\_117) = 0 TMP\_118 = 2 TMP\_119 = 1 not(TMP\_119) = 0 TMP\_120 = 0 not(TMP\_120) = 1 TMP\_121 = 1 not(TMP\_121) = 0 TMP\_122 = 0 not(TMP\_122) = 1 TMP\_123 = 2 TMP\_124 = 0 not(TMP\_124) = 1 TMP\_125 = 0 not(TMP\_125) = 1 TMP\_126 = 0 TMP\_127 = 1 not(TMP\_127) = 0 TMP\_128 = 1 not(TMP\_128) = 0 TMP\_129 = 2 TMP\_130 = 0 not(TMP\_130) = 1 TMP\_131 = 0 not(TMP\_131) = 1 TMP\_132 = 1 not(TMP\_132) = 0 TMP\_133 = 1 not(TMP\_133) = 0 TMP\_134 = 1 not(TMP\_134) = 0 TMP\_135 = 2 Area\_0 = 60 Distance\_0\_Rule\_0 = 60 Distance\_1\_Rule\_0 = 1 Area\_1 = 70 Distance\_0\_Rule\_1 = 35 Distance\_1\_Rule\_1 = 2 Area\_2 = 30 Distance\_0\_Rule\_2 = 30 Distance\_1\_Rule\_2 = 1 Area\_3 = 60 -(Rule\_3\_LB) = -60 Distance\_0\_Rule\_3 = 60 -(Rule\_3\_LB) = -1 Distance\_1\_Rule\_3 = 1 Area\_4 = 20 -(Rule\_4\_LB) = 0 Distance\_0\_Rule\_4 = 20 -(Rule\_4\_LB) = 0 Distance\_1\_Rule\_4 = 1 TMP\_136 = 240 .

- Solution #20 found. 20 Solutions, Resolution 0.066s, 51 Nodes (774.3 n/s), 46 Backtracks, 6 Fails, 0 Restarts

Rule\_3\_LB = 60 Rule\_3\_UB = 120 Rule\_3\_LB = 1 Rule\_3\_UB = 2 Rule\_4\_LB = 0 Rule\_4\_UB = 20 Rule\_4\_LB = 0 Rule\_4\_UB = 1 Overlaps\_0\_0 = 0 Overlaps\_0\_1 = 0 Overlaps\_0\_2 = 1 Overlaps\_0\_3 = 0 Overlaps\_0\_4 = 0 Overlaps\_1\_0 = 0 Overlaps\_1\_1 = 0 Overlaps\_1\_2 = 0 Overlaps\_1\_3 = 0 Overlaps\_1\_4 = 0 Overlaps\_2\_0 = 1 Overlaps\_2\_1 = 1 Overlaps\_2\_2 = 0 Overlaps\_2\_3 = 0 Overlaps\_2\_4 = 0 Overlaps\_3\_0 = 0 Overlaps\_3\_1 = 0 Overlaps\_3\_2 = 0 Overlaps\_3\_3 = 0 Overlaps\_3\_4 = 0 Overlaps\_4\_0 = 0 Overlaps\_4\_1 = 0 Overlaps\_4\_2 = 0 Overlaps\_4\_3 = 0 Overlaps\_4\_4 = 0 TMP\_0 = 1 not(TMP\_0) = 0 TMP\_1 = 1 not(TMP\_1) = 0 TMP\_2 = 0 not(TMP\_2) = 1 TMP\_3 = 1 not(TMP\_3) = 0 TMP\_4 = 3 TMP\_5 = 0 not(TMP\_5) = 1 TMP\_6 = 0 not(TMP\_6) = 1 TMP\_7 = 0 TMP\_8 = 1 not(TMP\_8) = 0 TMP\_9 = 1 not(TMP\_9) = 0 TMP\_10 = 2 TMP\_11 = 0 not(TMP\_11) = 1 TMP\_12 = 0 not(TMP\_12) = 1 TMP\_13 = 1 not(TMP\_13) = 0 TMP\_14 = 1 not(TMP\_14) = 0 TMP\_15 = 1 not(TMP\_15) = 0 TMP\_16 = 2 TMP\_17 = 0 not(TMP\_17) = 1 TMP\_18 = 1 not(TMP\_18) = 0 TMP\_19 = 1 not(TMP\_19) = 0 TMP\_20 = 1 not(TMP\_20) = 0 TMP\_21 = 3 TMP\_22 = 0 not(TMP\_22) = 1 TMP\_23 = 0 not(TMP\_23) = 1 TMP\_24 = 0 TMP\_25 = 1 not(TMP\_25) = 0 TMP\_26 = 1 not(TMP\_26) = 0 TMP\_27 = 2 TMP\_28 = 0 not(TMP\_28) = 1 TMP\_29 = 0 not(TMP\_29) = 1 TMP\_30 = 1 not(TMP\_30) = 0 TMP\_31 = 1 not(TMP\_31) = 0 TMP\_32 = 1 not(TMP\_32) = 0 TMP\_33 = 2 TMP\_34 = 0 not(TMP\_34) = 1 TMP\_35 = 1 not(TMP\_35) = 0 TMP\_36 = 1 not(TMP\_36) = 0 TMP\_37 = 1 not(TMP\_37) = 0 TMP\_38 = 3 TMP\_39 = 0 not(TMP\_39) = 1 TMP\_40 = 0 not(TMP\_40) = 1 TMP\_41 = 0 TMP\_42 = 1 not(TMP\_42) = 0 TMP\_43 = 1 not(TMP\_43) = 0 TMP\_44 = 2 TMP\_45 = 0 not(TMP\_45) = 1 TMP\_46 = 0 not(TMP\_46) = 1 TMP\_47 = 1 not(TMP\_47) = 0 TMP\_48 = 1 not(TMP\_48) = 0 TMP\_49 = 1 not(TMP\_49) = 0 TMP\_50 = 2 TMP\_51 = 0 not(TMP\_51) = 1 TMP\_52 = 1 not(TMP\_52) = 0 TMP\_53 = 0 not(TMP\_53) = 1 TMP\_54 = 1 not(TMP\_54) = 0 TMP\_55 = 2 TMP\_56 = 0 not(TMP\_56) = 1 TMP\_57 = 0 not(TMP\_57) = 1 TMP\_58 = 0 TMP\_59 = 1 not(TMP\_59) = 0 TMP\_60 = 1 not(TMP\_60) = 0 TMP\_61 = 2 TMP\_62 = 0 not(TMP\_62) = 1 TMP\_63 = 0 not(TMP\_63) = 1 TMP\_64 = 1 not(TMP\_64) = 0 TMP\_65 = 1 not(TMP\_65) = 0 TMP\_66 = 1 not(TMP\_66) = 0 TMP\_67 = 2 TMP\_68 = 1 not(TMP\_68) = 0 TMP\_69 = 0 not(TMP\_69) = 1 TMP\_70 = 1 not(TMP\_70) = 0 TMP\_71 = 1 not(TMP\_71) = 0 TMP\_72 = 3 TMP\_73 = 0 not(TMP\_73) = 1 TMP\_74 = 0 not(TMP\_74) = 1 TMP\_75 = 0 TMP\_76 = 1 not(TMP\_76) = 0 TMP\_77 = 1 not(TMP\_77) = 0 TMP\_78 = 2 TMP\_79 = 0 not(TMP\_79) = 1 TMP\_80 = 0 not(TMP\_80) = 1 TMP\_81 = 1 not(TMP\_81) = 0 TMP\_82 = 1 not(TMP\_82) = 0 TMP\_83 = 1 not(TMP\_83) = 0 TMP\_84 = 2 TMP\_85 = 1 not(TMP\_85) = 0 TMP\_86 = 0 not(TMP\_86) = 1 TMP\_87 = 1 not(TMP\_87) = 0 TMP\_88 = 1 not(TMP\_88) = 0 TMP\_89 = 3 TMP\_90 = 0 not(TMP\_90) = 1 TMP\_91 = 0 not(TMP\_91) = 1 TMP\_92 = 0 TMP\_93 = 1 not(TMP\_93) = 0 TMP\_94 = 1 not(TMP\_94) = 0 TMP\_95 = 2 TMP\_96 = 0 not(TMP\_96) = 1 TMP\_97 = 0 not(TMP\_97) = 1 TMP\_98 = 1 not(TMP\_98) = 0 TMP\_99 = 1 not(TMP\_99) = 0 TMP\_100 = 1 not(TMP\_100) = 0 TMP\_101 = 2 TMP\_102 = 1 not(TMP\_102) = 0 TMP\_103 = 1 not(TMP\_103) = 0 TMP\_104 = 1 not(TMP\_104) = 0 TMP\_105 = 0 not(TMP\_105) = 1 TMP\_106 = 3 TMP\_107 = 0 not(TMP\_107) = 1 TMP\_108 = 0 not(TMP\_108) = 1 TMP\_109 = 0 TMP\_110 = 1 not(TMP\_110) = 0 TMP\_111 = 1 not(TMP\_111) = 0 TMP\_112 = 2 TMP\_113 = 0 not(TMP\_113) = 1 TMP\_114 = 0 not(TMP\_114) = 1 TMP\_115 = 1 not(TMP\_115) = 0 TMP\_116 = 1 not(TMP\_116) = 0 TMP\_117 = 1 not(TMP\_117) = 0 TMP\_118 = 2 TMP\_119 = 1 not(TMP\_119) = 0 TMP\_120 = 0 not(TMP\_120) = 1 TMP\_121 = 1 not(TMP\_121) = 0 TMP\_122 = 0 not(TMP\_122) = 1 TMP\_123 = 2 TMP\_124 = 0 not(TMP\_124) = 1 TMP\_125 = 0 not(TMP\_125) = 1 TMP\_126 = 0 TMP\_127 = 1 not(TMP\_127) = 0 TMP\_128 = 1 not(TMP\_128) = 0 TMP\_129 = 2 TMP\_130 = 0 not(TMP\_130) = 1 TMP\_131 = 0 not(TMP\_131) = 1 TMP\_132 = 1 not(TMP\_132) = 0 TMP\_133 = 1 not(TMP\_133) = 0 TMP\_134 = 1 not(TMP\_134) = 0 TMP\_135 = 2 Area\_0 = 60 Distance\_0\_Rule\_0 = 60 Distance\_1\_Rule\_0 = 1 Area\_1 = 70 Distance\_0\_Rule\_1 = 35 Distance\_1\_Rule\_1 = 2 Area\_2 = 30 Distance\_0\_Rule\_2 = 30 Distance\_1\_Rule\_2 = 1 Area\_3 = 60 -(Rule\_3\_LB) = -60 Distance\_0\_Rule\_3 = 60 -(Rule\_3\_LB) = -1 Distance\_1\_Rule\_3 = 1 Area\_4 = 20 -(Rule\_4\_LB) = 0 Distance\_0\_Rule\_4 = 20 -(Rule\_4\_LB) = 0 Distance\_1\_Rule\_4 = 1 TMP\_136 = 240 .

- Incomplete search - Limit reached.

Solutions: 20

Building time : 0.088s

Initialisation : 0.000s

Initial propagation : 0.013s

Resolution : 0.067s

Nodes: 51 (764.2 n/s)

Backtracks: 46

Fails: 6

Restarts: 0

Max depth: 10

Memory: -3mb

Variables: 314

Constraints: 306

# Discount 1

## Rules = 1 - Missing Rules = 1

- Solution #1 found. 1 Solutions, Resolution 0.010s, 1 Nodes (102.6 n/s), 0 Backtracks, 0 Fails, 0 Restarts

Rule\_1\_LB = 30 Rule\_1\_UB = 120 Rule\_1\_LB = 0 Rule\_1\_UB = 2 Overlaps\_0\_0 = 0 Overlaps\_0\_1 = 0 Overlaps\_1\_0 = 0 Overlaps\_1\_1 = 0 TMP\_0 = 0 not(TMP\_0) = 1 TMP\_1 = 1 not(TMP\_1) = 0 TMP\_2 = 1 not(TMP\_2) = 0 TMP\_3 = 1 not(TMP\_3) = 0 TMP\_4 = 3 TMP\_5 = 0 not(TMP\_5) = 1 TMP\_6 = 0 not(TMP\_6) = 1 TMP\_7 = 0 TMP\_8 = 1 not(TMP\_8) = 0 TMP\_9 = 1 not(TMP\_9) = 0 TMP\_10 = 2 TMP\_11 = 0 not(TMP\_11) = 1 TMP\_12 = 0 not(TMP\_12) = 1 TMP\_13 = 1 not(TMP\_13) = 0 TMP\_14 = 1 not(TMP\_14) = 0 TMP\_15 = 1 not(TMP\_15) = 0 TMP\_16 = 2 Area\_0 = 60 Distance\_0\_Rule\_0 = 30 Distance\_1\_Rule\_0 = 2 Area\_1 = 180 -(Rule\_1\_LB) = -30 Distance\_0\_Rule\_1 = 90 -(Rule\_1\_LB) = 0 Distance\_1\_Rule\_1 = 2 .

- Complete search - 1 solution found.

Solutions: 1

Building time : 0.105s

Initialisation : 0.000s

Initial propagation : 0.010s

Resolution : 0.013s

Nodes: 1 (76.2 n/s)

Backtracks: 1

Fails: 0

Restarts: 0

Max depth: 0

Memory: -1mb

Variables: 55

Constraints: 50

## Rules = 2 - Missing Rules = 2

- Solution #1 found. 1 Solutions, Resolution 0.039s, 8 Nodes (207.3 n/s), 4 Backtracks, 3 Fails, 0 Restarts

Rule\_2\_LB = 30 Rule\_2\_UB = 60 Rule\_2\_LB = 0 Rule\_2\_UB = 1 Rule\_3\_LB = 60 Rule\_3\_UB = 120 Rule\_3\_LB = 0 Rule\_3\_UB = 2 Overlaps\_0\_0 = 0 Overlaps\_0\_1 = 0 Overlaps\_0\_2 = 0 Overlaps\_0\_3 = 0 Overlaps\_1\_0 = 0 Overlaps\_1\_1 = 0 Overlaps\_1\_2 = 0 Overlaps\_1\_3 = 0 Overlaps\_2\_0 = 0 Overlaps\_2\_1 = 0 Overlaps\_2\_2 = 0 Overlaps\_2\_3 = 0 Overlaps\_3\_0 = 0 Overlaps\_3\_1 = 0 Overlaps\_3\_2 = 0 Overlaps\_3\_3 = 0 TMP\_0 = 0 not(TMP\_0) = 1 TMP\_1 = 1 not(TMP\_1) = 0 TMP\_2 = 1 not(TMP\_2) = 0 TMP\_3 = 1 not(TMP\_3) = 0 TMP\_4 = 3 TMP\_5 = 0 not(TMP\_5) = 1 TMP\_6 = 0 not(TMP\_6) = 1 TMP\_7 = 0 TMP\_8 = 1 not(TMP\_8) = 0 TMP\_9 = 1 not(TMP\_9) = 0 TMP\_10 = 2 TMP\_11 = 0 not(TMP\_11) = 1 TMP\_12 = 0 not(TMP\_12) = 1 TMP\_13 = 1 not(TMP\_13) = 0 TMP\_14 = 1 not(TMP\_14) = 0 TMP\_15 = 1 not(TMP\_15) = 0 TMP\_16 = 2 TMP\_17 = 1 not(TMP\_17) = 0 TMP\_18 = 1 not(TMP\_18) = 0 TMP\_19 = 1 not(TMP\_19) = 0 TMP\_20 = 0 not(TMP\_20) = 1 TMP\_21 = 3 TMP\_22 = 0 not(TMP\_22) = 1 TMP\_23 = 0 not(TMP\_23) = 1 TMP\_24 = 0 TMP\_25 = 1 not(TMP\_25) = 0 TMP\_26 = 1 not(TMP\_26) = 0 TMP\_27 = 2 TMP\_28 = 0 not(TMP\_28) = 1 TMP\_29 = 0 not(TMP\_29) = 1 TMP\_30 = 1 not(TMP\_30) = 0 TMP\_31 = 1 not(TMP\_31) = 0 TMP\_32 = 1 not(TMP\_32) = 0 TMP\_33 = 2 TMP\_34 = 1 not(TMP\_34) = 0 TMP\_35 = 0 not(TMP\_35) = 1 TMP\_36 = 1 not(TMP\_36) = 0 TMP\_37 = 1 not(TMP\_37) = 0 TMP\_38 = 3 TMP\_39 = 0 not(TMP\_39) = 1 TMP\_40 = 0 not(TMP\_40) = 1 TMP\_41 = 0 TMP\_42 = 1 not(TMP\_42) = 0 TMP\_43 = 1 not(TMP\_43) = 0 TMP\_44 = 2 TMP\_45 = 0 not(TMP\_45) = 1 TMP\_46 = 0 not(TMP\_46) = 1 TMP\_47 = 1 not(TMP\_47) = 0 TMP\_48 = 1 not(TMP\_48) = 0 TMP\_49 = 1 not(TMP\_49) = 0 TMP\_50 = 2 TMP\_51 = 0 not(TMP\_51) = 1 TMP\_52 = 1 not(TMP\_52) = 0 TMP\_53 = 1 not(TMP\_53) = 0 TMP\_54 = 1 not(TMP\_54) = 0 TMP\_55 = 3 TMP\_56 = 0 not(TMP\_56) = 1 TMP\_57 = 0 not(TMP\_57) = 1 TMP\_58 = 0 TMP\_59 = 1 not(TMP\_59) = 0 TMP\_60 = 1 not(TMP\_60) = 0 TMP\_61 = 2 TMP\_62 = 0 not(TMP\_62) = 1 TMP\_63 = 0 not(TMP\_63) = 1 TMP\_64 = 1 not(TMP\_64) = 0 TMP\_65 = 1 not(TMP\_65) = 0 TMP\_66 = 1 not(TMP\_66) = 0 TMP\_67 = 2 TMP\_68 = 0 not(TMP\_68) = 1 TMP\_69 = 1 not(TMP\_69) = 0 TMP\_70 = 1 not(TMP\_70) = 0 TMP\_71 = 1 not(TMP\_71) = 0 TMP\_72 = 3 TMP\_73 = 0 not(TMP\_73) = 1 TMP\_74 = 0 not(TMP\_74) = 1 TMP\_75 = 0 TMP\_76 = 1 not(TMP\_76) = 0 TMP\_77 = 1 not(TMP\_77) = 0 TMP\_78 = 2 TMP\_79 = 0 not(TMP\_79) = 1 TMP\_80 = 0 not(TMP\_80) = 1 TMP\_81 = 1 not(TMP\_81) = 0 TMP\_82 = 1 not(TMP\_82) = 0 TMP\_83 = 1 not(TMP\_83) = 0 TMP\_84 = 2 TMP\_85 = 0 not(TMP\_85) = 1 TMP\_86 = 1 not(TMP\_86) = 0 TMP\_87 = 1 not(TMP\_87) = 0 TMP\_88 = 1 not(TMP\_88) = 0 TMP\_89 = 3 TMP\_90 = 0 not(TMP\_90) = 1 TMP\_91 = 0 not(TMP\_91) = 1 TMP\_92 = 0 TMP\_93 = 1 not(TMP\_93) = 0 TMP\_94 = 1 not(TMP\_94) = 0 TMP\_95 = 2 TMP\_96 = 0 not(TMP\_96) = 1 TMP\_97 = 0 not(TMP\_97) = 1 TMP\_98 = 1 not(TMP\_98) = 0 TMP\_99 = 1 not(TMP\_99) = 0 TMP\_100 = 1 not(TMP\_100) = 0 TMP\_101 = 2 Area\_0 = 60 Distance\_0\_Rule\_0 = 30 Distance\_1\_Rule\_0 = 2 Area\_1 = 30 Distance\_0\_Rule\_1 = 30 Distance\_1\_Rule\_1 = 1 Area\_2 = 30 -(Rule\_2\_LB) = -30 Distance\_0\_Rule\_2 = 30 -(Rule\_2\_LB) = 0 Distance\_1\_Rule\_2 = 1 Area\_3 = 120 -(Rule\_3\_LB) = -60 Distance\_0\_Rule\_3 = 60 -(Rule\_3\_LB) = 0 Distance\_1\_Rule\_3 = 2 TMP\_102 = 240 .

- Solution #2 found. 2 Solutions, Resolution 0.048s, 9 Nodes (188.8 n/s), 5 Backtracks, 3 Fails, 0 Restarts

Rule\_2\_LB = 30 Rule\_2\_UB = 60 Rule\_2\_LB = 0 Rule\_2\_UB = 1 Rule\_3\_LB = 60 Rule\_3\_UB = 120 Rule\_3\_LB = 0 Rule\_3\_UB = 2 Overlaps\_0\_0 = 0 Overlaps\_0\_1 = 0 Overlaps\_0\_2 = 0 Overlaps\_0\_3 = 0 Overlaps\_1\_0 = 1 Overlaps\_1\_1 = 0 Overlaps\_1\_2 = 0 Overlaps\_1\_3 = 0 Overlaps\_2\_0 = 0 Overlaps\_2\_1 = 0 Overlaps\_2\_2 = 0 Overlaps\_2\_3 = 0 Overlaps\_3\_0 = 0 Overlaps\_3\_1 = 0 Overlaps\_3\_2 = 0 Overlaps\_3\_3 = 0 TMP\_0 = 0 not(TMP\_0) = 1 TMP\_1 = 1 not(TMP\_1) = 0 TMP\_2 = 1 not(TMP\_2) = 0 TMP\_3 = 1 not(TMP\_3) = 0 TMP\_4 = 3 TMP\_5 = 0 not(TMP\_5) = 1 TMP\_6 = 0 not(TMP\_6) = 1 TMP\_7 = 0 TMP\_8 = 1 not(TMP\_8) = 0 TMP\_9 = 1 not(TMP\_9) = 0 TMP\_10 = 2 TMP\_11 = 0 not(TMP\_11) = 1 TMP\_12 = 0 not(TMP\_12) = 1 TMP\_13 = 1 not(TMP\_13) = 0 TMP\_14 = 1 not(TMP\_14) = 0 TMP\_15 = 1 not(TMP\_15) = 0 TMP\_16 = 2 TMP\_17 = 1 not(TMP\_17) = 0 TMP\_18 = 1 not(TMP\_18) = 0 TMP\_19 = 1 not(TMP\_19) = 0 TMP\_20 = 0 not(TMP\_20) = 1 TMP\_21 = 3 TMP\_22 = 0 not(TMP\_22) = 1 TMP\_23 = 0 not(TMP\_23) = 1 TMP\_24 = 0 TMP\_25 = 1 not(TMP\_25) = 0 TMP\_26 = 1 not(TMP\_26) = 0 TMP\_27 = 2 TMP\_28 = 0 not(TMP\_28) = 1 TMP\_29 = 0 not(TMP\_29) = 1 TMP\_30 = 1 not(TMP\_30) = 0 TMP\_31 = 1 not(TMP\_31) = 0 TMP\_32 = 1 not(TMP\_32) = 0 TMP\_33 = 2 TMP\_34 = 1 not(TMP\_34) = 0 TMP\_35 = 0 not(TMP\_35) = 1 TMP\_36 = 1 not(TMP\_36) = 0 TMP\_37 = 1 not(TMP\_37) = 0 TMP\_38 = 3 TMP\_39 = 0 not(TMP\_39) = 1 TMP\_40 = 0 not(TMP\_40) = 1 TMP\_41 = 0 TMP\_42 = 1 not(TMP\_42) = 0 TMP\_43 = 1 not(TMP\_43) = 0 TMP\_44 = 2 TMP\_45 = 0 not(TMP\_45) = 1 TMP\_46 = 0 not(TMP\_46) = 1 TMP\_47 = 1 not(TMP\_47) = 0 TMP\_48 = 1 not(TMP\_48) = 0 TMP\_49 = 1 not(TMP\_49) = 0 TMP\_50 = 2 TMP\_51 = 0 not(TMP\_51) = 1 TMP\_52 = 1 not(TMP\_52) = 0 TMP\_53 = 1 not(TMP\_53) = 0 TMP\_54 = 1 not(TMP\_54) = 0 TMP\_55 = 3 TMP\_56 = 0 not(TMP\_56) = 1 TMP\_57 = 0 not(TMP\_57) = 1 TMP\_58 = 0 TMP\_59 = 1 not(TMP\_59) = 0 TMP\_60 = 1 not(TMP\_60) = 0 TMP\_61 = 2 TMP\_62 = 0 not(TMP\_62) = 1 TMP\_63 = 0 not(TMP\_63) = 1 TMP\_64 = 1 not(TMP\_64) = 0 TMP\_65 = 1 not(TMP\_65) = 0 TMP\_66 = 1 not(TMP\_66) = 0 TMP\_67 = 2 TMP\_68 = 0 not(TMP\_68) = 1 TMP\_69 = 1 not(TMP\_69) = 0 TMP\_70 = 1 not(TMP\_70) = 0 TMP\_71 = 1 not(TMP\_71) = 0 TMP\_72 = 3 TMP\_73 = 0 not(TMP\_73) = 1 TMP\_74 = 0 not(TMP\_74) = 1 TMP\_75 = 0 TMP\_76 = 1 not(TMP\_76) = 0 TMP\_77 = 1 not(TMP\_77) = 0 TMP\_78 = 2 TMP\_79 = 0 not(TMP\_79) = 1 TMP\_80 = 0 not(TMP\_80) = 1 TMP\_81 = 1 not(TMP\_81) = 0 TMP\_82 = 1 not(TMP\_82) = 0 TMP\_83 = 1 not(TMP\_83) = 0 TMP\_84 = 2 TMP\_85 = 0 not(TMP\_85) = 1 TMP\_86 = 1 not(TMP\_86) = 0 TMP\_87 = 1 not(TMP\_87) = 0 TMP\_88 = 1 not(TMP\_88) = 0 TMP\_89 = 3 TMP\_90 = 0 not(TMP\_90) = 1 TMP\_91 = 0 not(TMP\_91) = 1 TMP\_92 = 0 TMP\_93 = 1 not(TMP\_93) = 0 TMP\_94 = 1 not(TMP\_94) = 0 TMP\_95 = 2 TMP\_96 = 0 not(TMP\_96) = 1 TMP\_97 = 0 not(TMP\_97) = 1 TMP\_98 = 1 not(TMP\_98) = 0 TMP\_99 = 1 not(TMP\_99) = 0 TMP\_100 = 1 not(TMP\_100) = 0 TMP\_101 = 2 Area\_0 = 60 Distance\_0\_Rule\_0 = 30 Distance\_1\_Rule\_0 = 2 Area\_1 = 30 Distance\_0\_Rule\_1 = 30 Distance\_1\_Rule\_1 = 1 Area\_2 = 30 -(Rule\_2\_LB) = -30 Distance\_0\_Rule\_2 = 30 -(Rule\_2\_LB) = 0 Distance\_1\_Rule\_2 = 1 Area\_3 = 120 -(Rule\_3\_LB) = -60 Distance\_0\_Rule\_3 = 60 -(Rule\_3\_LB) = 0 Distance\_1\_Rule\_3 = 2 TMP\_102 = 240 .

- Solution #3 found. 3 Solutions, Resolution 0.053s, 11 Nodes (208.2 n/s), 7 Backtracks, 3 Fails, 0 Restarts

Rule\_2\_LB = 30 Rule\_2\_UB = 60 Rule\_2\_LB = 0 Rule\_2\_UB = 1 Rule\_3\_LB = 60 Rule\_3\_UB = 120 Rule\_3\_LB = 0 Rule\_3\_UB = 2 Overlaps\_0\_0 = 0 Overlaps\_0\_1 = 1 Overlaps\_0\_2 = 0 Overlaps\_0\_3 = 0 Overlaps\_1\_0 = 0 Overlaps\_1\_1 = 0 Overlaps\_1\_2 = 0 Overlaps\_1\_3 = 0 Overlaps\_2\_0 = 0 Overlaps\_2\_1 = 0 Overlaps\_2\_2 = 0 Overlaps\_2\_3 = 0 Overlaps\_3\_0 = 0 Overlaps\_3\_1 = 0 Overlaps\_3\_2 = 0 Overlaps\_3\_3 = 0 TMP\_0 = 0 not(TMP\_0) = 1 TMP\_1 = 1 not(TMP\_1) = 0 TMP\_2 = 1 not(TMP\_2) = 0 TMP\_3 = 1 not(TMP\_3) = 0 TMP\_4 = 3 TMP\_5 = 0 not(TMP\_5) = 1 TMP\_6 = 0 not(TMP\_6) = 1 TMP\_7 = 0 TMP\_8 = 1 not(TMP\_8) = 0 TMP\_9 = 1 not(TMP\_9) = 0 TMP\_10 = 2 TMP\_11 = 0 not(TMP\_11) = 1 TMP\_12 = 0 not(TMP\_12) = 1 TMP\_13 = 1 not(TMP\_13) = 0 TMP\_14 = 1 not(TMP\_14) = 0 TMP\_15 = 1 not(TMP\_15) = 0 TMP\_16 = 2 TMP\_17 = 1 not(TMP\_17) = 0 TMP\_18 = 1 not(TMP\_18) = 0 TMP\_19 = 1 not(TMP\_19) = 0 TMP\_20 = 0 not(TMP\_20) = 1 TMP\_21 = 3 TMP\_22 = 0 not(TMP\_22) = 1 TMP\_23 = 0 not(TMP\_23) = 1 TMP\_24 = 0 TMP\_25 = 1 not(TMP\_25) = 0 TMP\_26 = 1 not(TMP\_26) = 0 TMP\_27 = 2 TMP\_28 = 0 not(TMP\_28) = 1 TMP\_29 = 0 not(TMP\_29) = 1 TMP\_30 = 1 not(TMP\_30) = 0 TMP\_31 = 1 not(TMP\_31) = 0 TMP\_32 = 1 not(TMP\_32) = 0 TMP\_33 = 2 TMP\_34 = 1 not(TMP\_34) = 0 TMP\_35 = 0 not(TMP\_35) = 1 TMP\_36 = 1 not(TMP\_36) = 0 TMP\_37 = 1 not(TMP\_37) = 0 TMP\_38 = 3 TMP\_39 = 0 not(TMP\_39) = 1 TMP\_40 = 0 not(TMP\_40) = 1 TMP\_41 = 0 TMP\_42 = 1 not(TMP\_42) = 0 TMP\_43 = 1 not(TMP\_43) = 0 TMP\_44 = 2 TMP\_45 = 0 not(TMP\_45) = 1 TMP\_46 = 0 not(TMP\_46) = 1 TMP\_47 = 1 not(TMP\_47) = 0 TMP\_48 = 1 not(TMP\_48) = 0 TMP\_49 = 1 not(TMP\_49) = 0 TMP\_50 = 2 TMP\_51 = 0 not(TMP\_51) = 1 TMP\_52 = 1 not(TMP\_52) = 0 TMP\_53 = 1 not(TMP\_53) = 0 TMP\_54 = 1 not(TMP\_54) = 0 TMP\_55 = 3 TMP\_56 = 0 not(TMP\_56) = 1 TMP\_57 = 0 not(TMP\_57) = 1 TMP\_58 = 0 TMP\_59 = 1 not(TMP\_59) = 0 TMP\_60 = 1 not(TMP\_60) = 0 TMP\_61 = 2 TMP\_62 = 0 not(TMP\_62) = 1 TMP\_63 = 0 not(TMP\_63) = 1 TMP\_64 = 1 not(TMP\_64) = 0 TMP\_65 = 1 not(TMP\_65) = 0 TMP\_66 = 1 not(TMP\_66) = 0 TMP\_67 = 2 TMP\_68 = 0 not(TMP\_68) = 1 TMP\_69 = 1 not(TMP\_69) = 0 TMP\_70 = 1 not(TMP\_70) = 0 TMP\_71 = 1 not(TMP\_71) = 0 TMP\_72 = 3 TMP\_73 = 0 not(TMP\_73) = 1 TMP\_74 = 0 not(TMP\_74) = 1 TMP\_75 = 0 TMP\_76 = 1 not(TMP\_76) = 0 TMP\_77 = 1 not(TMP\_77) = 0 TMP\_78 = 2 TMP\_79 = 0 not(TMP\_79) = 1 TMP\_80 = 0 not(TMP\_80) = 1 TMP\_81 = 1 not(TMP\_81) = 0 TMP\_82 = 1 not(TMP\_82) = 0 TMP\_83 = 1 not(TMP\_83) = 0 TMP\_84 = 2 TMP\_85 = 0 not(TMP\_85) = 1 TMP\_86 = 1 not(TMP\_86) = 0 TMP\_87 = 1 not(TMP\_87) = 0 TMP\_88 = 1 not(TMP\_88) = 0 TMP\_89 = 3 TMP\_90 = 0 not(TMP\_90) = 1 TMP\_91 = 0 not(TMP\_91) = 1 TMP\_92 = 0 TMP\_93 = 1 not(TMP\_93) = 0 TMP\_94 = 1 not(TMP\_94) = 0 TMP\_95 = 2 TMP\_96 = 0 not(TMP\_96) = 1 TMP\_97 = 0 not(TMP\_97) = 1 TMP\_98 = 1 not(TMP\_98) = 0 TMP\_99 = 1 not(TMP\_99) = 0 TMP\_100 = 1 not(TMP\_100) = 0 TMP\_101 = 2 Area\_0 = 60 Distance\_0\_Rule\_0 = 30 Distance\_1\_Rule\_0 = 2 Area\_1 = 30 Distance\_0\_Rule\_1 = 30 Distance\_1\_Rule\_1 = 1 Area\_2 = 30 -(Rule\_2\_LB) = -30 Distance\_0\_Rule\_2 = 30 -(Rule\_2\_LB) = 0 Distance\_1\_Rule\_2 = 1 Area\_3 = 120 -(Rule\_3\_LB) = -60 Distance\_0\_Rule\_3 = 60 -(Rule\_3\_LB) = 0 Distance\_1\_Rule\_3 = 2 TMP\_102 = 240 .

- Solution #4 found. 4 Solutions, Resolution 0.056s, 12 Nodes (213.5 n/s), 8 Backtracks, 3 Fails, 0 Restarts

Rule\_2\_LB = 30 Rule\_2\_UB = 60 Rule\_2\_LB = 0 Rule\_2\_UB = 1 Rule\_3\_LB = 60 Rule\_3\_UB = 120 Rule\_3\_LB = 0 Rule\_3\_UB = 2 Overlaps\_0\_0 = 0 Overlaps\_0\_1 = 1 Overlaps\_0\_2 = 0 Overlaps\_0\_3 = 0 Overlaps\_1\_0 = 1 Overlaps\_1\_1 = 0 Overlaps\_1\_2 = 0 Overlaps\_1\_3 = 0 Overlaps\_2\_0 = 0 Overlaps\_2\_1 = 0 Overlaps\_2\_2 = 0 Overlaps\_2\_3 = 0 Overlaps\_3\_0 = 0 Overlaps\_3\_1 = 0 Overlaps\_3\_2 = 0 Overlaps\_3\_3 = 0 TMP\_0 = 0 not(TMP\_0) = 1 TMP\_1 = 1 not(TMP\_1) = 0 TMP\_2 = 1 not(TMP\_2) = 0 TMP\_3 = 1 not(TMP\_3) = 0 TMP\_4 = 3 TMP\_5 = 0 not(TMP\_5) = 1 TMP\_6 = 0 not(TMP\_6) = 1 TMP\_7 = 0 TMP\_8 = 1 not(TMP\_8) = 0 TMP\_9 = 1 not(TMP\_9) = 0 TMP\_10 = 2 TMP\_11 = 0 not(TMP\_11) = 1 TMP\_12 = 0 not(TMP\_12) = 1 TMP\_13 = 1 not(TMP\_13) = 0 TMP\_14 = 1 not(TMP\_14) = 0 TMP\_15 = 1 not(TMP\_15) = 0 TMP\_16 = 2 TMP\_17 = 1 not(TMP\_17) = 0 TMP\_18 = 1 not(TMP\_18) = 0 TMP\_19 = 1 not(TMP\_19) = 0 TMP\_20 = 0 not(TMP\_20) = 1 TMP\_21 = 3 TMP\_22 = 0 not(TMP\_22) = 1 TMP\_23 = 0 not(TMP\_23) = 1 TMP\_24 = 0 TMP\_25 = 1 not(TMP\_25) = 0 TMP\_26 = 1 not(TMP\_26) = 0 TMP\_27 = 2 TMP\_28 = 0 not(TMP\_28) = 1 TMP\_29 = 0 not(TMP\_29) = 1 TMP\_30 = 1 not(TMP\_30) = 0 TMP\_31 = 1 not(TMP\_31) = 0 TMP\_32 = 1 not(TMP\_32) = 0 TMP\_33 = 2 TMP\_34 = 1 not(TMP\_34) = 0 TMP\_35 = 0 not(TMP\_35) = 1 TMP\_36 = 1 not(TMP\_36) = 0 TMP\_37 = 1 not(TMP\_37) = 0 TMP\_38 = 3 TMP\_39 = 0 not(TMP\_39) = 1 TMP\_40 = 0 not(TMP\_40) = 1 TMP\_41 = 0 TMP\_42 = 1 not(TMP\_42) = 0 TMP\_43 = 1 not(TMP\_43) = 0 TMP\_44 = 2 TMP\_45 = 0 not(TMP\_45) = 1 TMP\_46 = 0 not(TMP\_46) = 1 TMP\_47 = 1 not(TMP\_47) = 0 TMP\_48 = 1 not(TMP\_48) = 0 TMP\_49 = 1 not(TMP\_49) = 0 TMP\_50 = 2 TMP\_51 = 0 not(TMP\_51) = 1 TMP\_52 = 1 not(TMP\_52) = 0 TMP\_53 = 1 not(TMP\_53) = 0 TMP\_54 = 1 not(TMP\_54) = 0 TMP\_55 = 3 TMP\_56 = 0 not(TMP\_56) = 1 TMP\_57 = 0 not(TMP\_57) = 1 TMP\_58 = 0 TMP\_59 = 1 not(TMP\_59) = 0 TMP\_60 = 1 not(TMP\_60) = 0 TMP\_61 = 2 TMP\_62 = 0 not(TMP\_62) = 1 TMP\_63 = 0 not(TMP\_63) = 1 TMP\_64 = 1 not(TMP\_64) = 0 TMP\_65 = 1 not(TMP\_65) = 0 TMP\_66 = 1 not(TMP\_66) = 0 TMP\_67 = 2 TMP\_68 = 0 not(TMP\_68) = 1 TMP\_69 = 1 not(TMP\_69) = 0 TMP\_70 = 1 not(TMP\_70) = 0 TMP\_71 = 1 not(TMP\_71) = 0 TMP\_72 = 3 TMP\_73 = 0 not(TMP\_73) = 1 TMP\_74 = 0 not(TMP\_74) = 1 TMP\_75 = 0 TMP\_76 = 1 not(TMP\_76) = 0 TMP\_77 = 1 not(TMP\_77) = 0 TMP\_78 = 2 TMP\_79 = 0 not(TMP\_79) = 1 TMP\_80 = 0 not(TMP\_80) = 1 TMP\_81 = 1 not(TMP\_81) = 0 TMP\_82 = 1 not(TMP\_82) = 0 TMP\_83 = 1 not(TMP\_83) = 0 TMP\_84 = 2 TMP\_85 = 0 not(TMP\_85) = 1 TMP\_86 = 1 not(TMP\_86) = 0 TMP\_87 = 1 not(TMP\_87) = 0 TMP\_88 = 1 not(TMP\_88) = 0 TMP\_89 = 3 TMP\_90 = 0 not(TMP\_90) = 1 TMP\_91 = 0 not(TMP\_91) = 1 TMP\_92 = 0 TMP\_93 = 1 not(TMP\_93) = 0 TMP\_94 = 1 not(TMP\_94) = 0 TMP\_95 = 2 TMP\_96 = 0 not(TMP\_96) = 1 TMP\_97 = 0 not(TMP\_97) = 1 TMP\_98 = 1 not(TMP\_98) = 0 TMP\_99 = 1 not(TMP\_99) = 0 TMP\_100 = 1 not(TMP\_100) = 0 TMP\_101 = 2 Area\_0 = 60 Distance\_0\_Rule\_0 = 30 Distance\_1\_Rule\_0 = 2 Area\_1 = 30 Distance\_0\_Rule\_1 = 30 Distance\_1\_Rule\_1 = 1 Area\_2 = 30 -(Rule\_2\_LB) = -30 Distance\_0\_Rule\_2 = 30 -(Rule\_2\_LB) = 0 Distance\_1\_Rule\_2 = 1 Area\_3 = 120 -(Rule\_3\_LB) = -60 Distance\_0\_Rule\_3 = 60 -(Rule\_3\_LB) = 0 Distance\_1\_Rule\_3 = 2 TMP\_102 = 240 .

- Solution #5 found. 5 Solutions, Resolution 0.068s, 21 Nodes (310.3 n/s), 16 Backtracks, 7 Fails, 0 Restarts

Rule\_2\_LB = 60 Rule\_2\_UB = 120 Rule\_2\_LB = 0 Rule\_2\_UB = 2 Rule\_3\_LB = 30 Rule\_3\_UB = 60 Rule\_3\_LB = 0 Rule\_3\_UB = 1 Overlaps\_0\_0 = 0 Overlaps\_0\_1 = 0 Overlaps\_0\_2 = 0 Overlaps\_0\_3 = 0 Overlaps\_1\_0 = 0 Overlaps\_1\_1 = 0 Overlaps\_1\_2 = 0 Overlaps\_1\_3 = 0 Overlaps\_2\_0 = 0 Overlaps\_2\_1 = 0 Overlaps\_2\_2 = 0 Overlaps\_2\_3 = 0 Overlaps\_3\_0 = 0 Overlaps\_3\_1 = 0 Overlaps\_3\_2 = 0 Overlaps\_3\_3 = 0 TMP\_0 = 0 not(TMP\_0) = 1 TMP\_1 = 1 not(TMP\_1) = 0 TMP\_2 = 1 not(TMP\_2) = 0 TMP\_3 = 1 not(TMP\_3) = 0 TMP\_4 = 3 TMP\_5 = 0 not(TMP\_5) = 1 TMP\_6 = 0 not(TMP\_6) = 1 TMP\_7 = 0 TMP\_8 = 1 not(TMP\_8) = 0 TMP\_9 = 1 not(TMP\_9) = 0 TMP\_10 = 2 TMP\_11 = 0 not(TMP\_11) = 1 TMP\_12 = 0 not(TMP\_12) = 1 TMP\_13 = 1 not(TMP\_13) = 0 TMP\_14 = 1 not(TMP\_14) = 0 TMP\_15 = 1 not(TMP\_15) = 0 TMP\_16 = 2 TMP\_17 = 0 not(TMP\_17) = 1 TMP\_18 = 1 not(TMP\_18) = 0 TMP\_19 = 1 not(TMP\_19) = 0 TMP\_20 = 1 not(TMP\_20) = 0 TMP\_21 = 3 TMP\_22 = 0 not(TMP\_22) = 1 TMP\_23 = 0 not(TMP\_23) = 1 TMP\_24 = 0 TMP\_25 = 1 not(TMP\_25) = 0 TMP\_26 = 1 not(TMP\_26) = 0 TMP\_27 = 2 TMP\_28 = 0 not(TMP\_28) = 1 TMP\_29 = 0 not(TMP\_29) = 1 TMP\_30 = 1 not(TMP\_30) = 0 TMP\_31 = 1 not(TMP\_31) = 0 TMP\_32 = 1 not(TMP\_32) = 0 TMP\_33 = 2 TMP\_34 = 0 not(TMP\_34) = 1 TMP\_35 = 1 not(TMP\_35) = 0 TMP\_36 = 1 not(TMP\_36) = 0 TMP\_37 = 1 not(TMP\_37) = 0 TMP\_38 = 3 TMP\_39 = 0 not(TMP\_39) = 1 TMP\_40 = 0 not(TMP\_40) = 1 TMP\_41 = 0 TMP\_42 = 1 not(TMP\_42) = 0 TMP\_43 = 1 not(TMP\_43) = 0 TMP\_44 = 2 TMP\_45 = 0 not(TMP\_45) = 1 TMP\_46 = 0 not(TMP\_46) = 1 TMP\_47 = 1 not(TMP\_47) = 0 TMP\_48 = 1 not(TMP\_48) = 0 TMP\_49 = 1 not(TMP\_49) = 0 TMP\_50 = 2 TMP\_51 = 0 not(TMP\_51) = 1 TMP\_52 = 1 not(TMP\_52) = 0 TMP\_53 = 1 not(TMP\_53) = 0 TMP\_54 = 1 not(TMP\_54) = 0 TMP\_55 = 3 TMP\_56 = 0 not(TMP\_56) = 1 TMP\_57 = 0 not(TMP\_57) = 1 TMP\_58 = 0 TMP\_59 = 1 not(TMP\_59) = 0 TMP\_60 = 1 not(TMP\_60) = 0 TMP\_61 = 2 TMP\_62 = 0 not(TMP\_62) = 1 TMP\_63 = 0 not(TMP\_63) = 1 TMP\_64 = 1 not(TMP\_64) = 0 TMP\_65 = 1 not(TMP\_65) = 0 TMP\_66 = 1 not(TMP\_66) = 0 TMP\_67 = 2 TMP\_68 = 1 not(TMP\_68) = 0 TMP\_69 = 1 not(TMP\_69) = 0 TMP\_70 = 1 not(TMP\_70) = 0 TMP\_71 = 0 not(TMP\_71) = 1 TMP\_72 = 3 TMP\_73 = 0 not(TMP\_73) = 1 TMP\_74 = 0 not(TMP\_74) = 1 TMP\_75 = 0 TMP\_76 = 1 not(TMP\_76) = 0 TMP\_77 = 1 not(TMP\_77) = 0 TMP\_78 = 2 TMP\_79 = 0 not(TMP\_79) = 1 TMP\_80 = 0 not(TMP\_80) = 1 TMP\_81 = 1 not(TMP\_81) = 0 TMP\_82 = 1 not(TMP\_82) = 0 TMP\_83 = 1 not(TMP\_83) = 0 TMP\_84 = 2 TMP\_85 = 1 not(TMP\_85) = 0 TMP\_86 = 0 not(TMP\_86) = 1 TMP\_87 = 1 not(TMP\_87) = 0 TMP\_88 = 1 not(TMP\_88) = 0 TMP\_89 = 3 TMP\_90 = 0 not(TMP\_90) = 1 TMP\_91 = 0 not(TMP\_91) = 1 TMP\_92 = 0 TMP\_93 = 1 not(TMP\_93) = 0 TMP\_94 = 1 not(TMP\_94) = 0 TMP\_95 = 2 TMP\_96 = 0 not(TMP\_96) = 1 TMP\_97 = 0 not(TMP\_97) = 1 TMP\_98 = 1 not(TMP\_98) = 0 TMP\_99 = 1 not(TMP\_99) = 0 TMP\_100 = 1 not(TMP\_100) = 0 TMP\_101 = 2 Area\_0 = 60 Distance\_0\_Rule\_0 = 30 Distance\_1\_Rule\_0 = 2 Area\_1 = 30 Distance\_0\_Rule\_1 = 30 Distance\_1\_Rule\_1 = 1 Area\_2 = 120 -(Rule\_2\_LB) = -60 Distance\_0\_Rule\_2 = 60 -(Rule\_2\_LB) = 0 Distance\_1\_Rule\_2 = 2 Area\_3 = 30 -(Rule\_3\_LB) = -30 Distance\_0\_Rule\_3 = 30 -(Rule\_3\_LB) = 0 Distance\_1\_Rule\_3 = 1 TMP\_102 = 240 .

- Solution #6 found. 6 Solutions, Resolution 0.071s, 22 Nodes (311.0 n/s), 17 Backtracks, 7 Fails, 0 Restarts

Rule\_2\_LB = 60 Rule\_2\_UB = 120 Rule\_2\_LB = 0 Rule\_2\_UB = 2 Rule\_3\_LB = 30 Rule\_3\_UB = 60 Rule\_3\_LB = 0 Rule\_3\_UB = 1 Overlaps\_0\_0 = 0 Overlaps\_0\_1 = 1 Overlaps\_0\_2 = 0 Overlaps\_0\_3 = 0 Overlaps\_1\_0 = 0 Overlaps\_1\_1 = 0 Overlaps\_1\_2 = 0 Overlaps\_1\_3 = 0 Overlaps\_2\_0 = 0 Overlaps\_2\_1 = 0 Overlaps\_2\_2 = 0 Overlaps\_2\_3 = 0 Overlaps\_3\_0 = 0 Overlaps\_3\_1 = 0 Overlaps\_3\_2 = 0 Overlaps\_3\_3 = 0 TMP\_0 = 0 not(TMP\_0) = 1 TMP\_1 = 1 not(TMP\_1) = 0 TMP\_2 = 1 not(TMP\_2) = 0 TMP\_3 = 1 not(TMP\_3) = 0 TMP\_4 = 3 TMP\_5 = 0 not(TMP\_5) = 1 TMP\_6 = 0 not(TMP\_6) = 1 TMP\_7 = 0 TMP\_8 = 1 not(TMP\_8) = 0 TMP\_9 = 1 not(TMP\_9) = 0 TMP\_10 = 2 TMP\_11 = 0 not(TMP\_11) = 1 TMP\_12 = 0 not(TMP\_12) = 1 TMP\_13 = 1 not(TMP\_13) = 0 TMP\_14 = 1 not(TMP\_14) = 0 TMP\_15 = 1 not(TMP\_15) = 0 TMP\_16 = 2 TMP\_17 = 0 not(TMP\_17) = 1 TMP\_18 = 1 not(TMP\_18) = 0 TMP\_19 = 1 not(TMP\_19) = 0 TMP\_20 = 1 not(TMP\_20) = 0 TMP\_21 = 3 TMP\_22 = 0 not(TMP\_22) = 1 TMP\_23 = 0 not(TMP\_23) = 1 TMP\_24 = 0 TMP\_25 = 1 not(TMP\_25) = 0 TMP\_26 = 1 not(TMP\_26) = 0 TMP\_27 = 2 TMP\_28 = 0 not(TMP\_28) = 1 TMP\_29 = 0 not(TMP\_29) = 1 TMP\_30 = 1 not(TMP\_30) = 0 TMP\_31 = 1 not(TMP\_31) = 0 TMP\_32 = 1 not(TMP\_32) = 0 TMP\_33 = 2 TMP\_34 = 0 not(TMP\_34) = 1 TMP\_35 = 1 not(TMP\_35) = 0 TMP\_36 = 1 not(TMP\_36) = 0 TMP\_37 = 1 not(TMP\_37) = 0 TMP\_38 = 3 TMP\_39 = 0 not(TMP\_39) = 1 TMP\_40 = 0 not(TMP\_40) = 1 TMP\_41 = 0 TMP\_42 = 1 not(TMP\_42) = 0 TMP\_43 = 1 not(TMP\_43) = 0 TMP\_44 = 2 TMP\_45 = 0 not(TMP\_45) = 1 TMP\_46 = 0 not(TMP\_46) = 1 TMP\_47 = 1 not(TMP\_47) = 0 TMP\_48 = 1 not(TMP\_48) = 0 TMP\_49 = 1 not(TMP\_49) = 0 TMP\_50 = 2 TMP\_51 = 0 not(TMP\_51) = 1 TMP\_52 = 1 not(TMP\_52) = 0 TMP\_53 = 1 not(TMP\_53) = 0 TMP\_54 = 1 not(TMP\_54) = 0 TMP\_55 = 3 TMP\_56 = 0 not(TMP\_56) = 1 TMP\_57 = 0 not(TMP\_57) = 1 TMP\_58 = 0 TMP\_59 = 1 not(TMP\_59) = 0 TMP\_60 = 1 not(TMP\_60) = 0 TMP\_61 = 2 TMP\_62 = 0 not(TMP\_62) = 1 TMP\_63 = 0 not(TMP\_63) = 1 TMP\_64 = 1 not(TMP\_64) = 0 TMP\_65 = 1 not(TMP\_65) = 0 TMP\_66 = 1 not(TMP\_66) = 0 TMP\_67 = 2 TMP\_68 = 1 not(TMP\_68) = 0 TMP\_69 = 1 not(TMP\_69) = 0 TMP\_70 = 1 not(TMP\_70) = 0 TMP\_71 = 0 not(TMP\_71) = 1 TMP\_72 = 3 TMP\_73 = 0 not(TMP\_73) = 1 TMP\_74 = 0 not(TMP\_74) = 1 TMP\_75 = 0 TMP\_76 = 1 not(TMP\_76) = 0 TMP\_77 = 1 not(TMP\_77) = 0 TMP\_78 = 2 TMP\_79 = 0 not(TMP\_79) = 1 TMP\_80 = 0 not(TMP\_80) = 1 TMP\_81 = 1 not(TMP\_81) = 0 TMP\_82 = 1 not(TMP\_82) = 0 TMP\_83 = 1 not(TMP\_83) = 0 TMP\_84 = 2 TMP\_85 = 1 not(TMP\_85) = 0 TMP\_86 = 0 not(TMP\_86) = 1 TMP\_87 = 1 not(TMP\_87) = 0 TMP\_88 = 1 not(TMP\_88) = 0 TMP\_89 = 3 TMP\_90 = 0 not(TMP\_90) = 1 TMP\_91 = 0 not(TMP\_91) = 1 TMP\_92 = 0 TMP\_93 = 1 not(TMP\_93) = 0 TMP\_94 = 1 not(TMP\_94) = 0 TMP\_95 = 2 TMP\_96 = 0 not(TMP\_96) = 1 TMP\_97 = 0 not(TMP\_97) = 1 TMP\_98 = 1 not(TMP\_98) = 0 TMP\_99 = 1 not(TMP\_99) = 0 TMP\_100 = 1 not(TMP\_100) = 0 TMP\_101 = 2 Area\_0 = 60 Distance\_0\_Rule\_0 = 30 Distance\_1\_Rule\_0 = 2 Area\_1 = 30 Distance\_0\_Rule\_1 = 30 Distance\_1\_Rule\_1 = 1 Area\_2 = 120 -(Rule\_2\_LB) = -60 Distance\_0\_Rule\_2 = 60 -(Rule\_2\_LB) = 0 Distance\_1\_Rule\_2 = 2 Area\_3 = 30 -(Rule\_3\_LB) = -30 Distance\_0\_Rule\_3 = 30 -(Rule\_3\_LB) = 0 Distance\_1\_Rule\_3 = 1 TMP\_102 = 240 .

- Solution #7 found. 7 Solutions, Resolution 0.074s, 24 Nodes (325.0 n/s), 19 Backtracks, 7 Fails, 0 Restarts

Rule\_2\_LB = 60 Rule\_2\_UB = 120 Rule\_2\_LB = 0 Rule\_2\_UB = 2 Rule\_3\_LB = 30 Rule\_3\_UB = 60 Rule\_3\_LB = 0 Rule\_3\_UB = 1 Overlaps\_0\_0 = 0 Overlaps\_0\_1 = 0 Overlaps\_0\_2 = 0 Overlaps\_0\_3 = 0 Overlaps\_1\_0 = 1 Overlaps\_1\_1 = 0 Overlaps\_1\_2 = 0 Overlaps\_1\_3 = 0 Overlaps\_2\_0 = 0 Overlaps\_2\_1 = 0 Overlaps\_2\_2 = 0 Overlaps\_2\_3 = 0 Overlaps\_3\_0 = 0 Overlaps\_3\_1 = 0 Overlaps\_3\_2 = 0 Overlaps\_3\_3 = 0 TMP\_0 = 0 not(TMP\_0) = 1 TMP\_1 = 1 not(TMP\_1) = 0 TMP\_2 = 1 not(TMP\_2) = 0 TMP\_3 = 1 not(TMP\_3) = 0 TMP\_4 = 3 TMP\_5 = 0 not(TMP\_5) = 1 TMP\_6 = 0 not(TMP\_6) = 1 TMP\_7 = 0 TMP\_8 = 1 not(TMP\_8) = 0 TMP\_9 = 1 not(TMP\_9) = 0 TMP\_10 = 2 TMP\_11 = 0 not(TMP\_11) = 1 TMP\_12 = 0 not(TMP\_12) = 1 TMP\_13 = 1 not(TMP\_13) = 0 TMP\_14 = 1 not(TMP\_14) = 0 TMP\_15 = 1 not(TMP\_15) = 0 TMP\_16 = 2 TMP\_17 = 0 not(TMP\_17) = 1 TMP\_18 = 1 not(TMP\_18) = 0 TMP\_19 = 1 not(TMP\_19) = 0 TMP\_20 = 1 not(TMP\_20) = 0 TMP\_21 = 3 TMP\_22 = 0 not(TMP\_22) = 1 TMP\_23 = 0 not(TMP\_23) = 1 TMP\_24 = 0 TMP\_25 = 1 not(TMP\_25) = 0 TMP\_26 = 1 not(TMP\_26) = 0 TMP\_27 = 2 TMP\_28 = 0 not(TMP\_28) = 1 TMP\_29 = 0 not(TMP\_29) = 1 TMP\_30 = 1 not(TMP\_30) = 0 TMP\_31 = 1 not(TMP\_31) = 0 TMP\_32 = 1 not(TMP\_32) = 0 TMP\_33 = 2 TMP\_34 = 0 not(TMP\_34) = 1 TMP\_35 = 1 not(TMP\_35) = 0 TMP\_36 = 1 not(TMP\_36) = 0 TMP\_37 = 1 not(TMP\_37) = 0 TMP\_38 = 3 TMP\_39 = 0 not(TMP\_39) = 1 TMP\_40 = 0 not(TMP\_40) = 1 TMP\_41 = 0 TMP\_42 = 1 not(TMP\_42) = 0 TMP\_43 = 1 not(TMP\_43) = 0 TMP\_44 = 2 TMP\_45 = 0 not(TMP\_45) = 1 TMP\_46 = 0 not(TMP\_46) = 1 TMP\_47 = 1 not(TMP\_47) = 0 TMP\_48 = 1 not(TMP\_48) = 0 TMP\_49 = 1 not(TMP\_49) = 0 TMP\_50 = 2 TMP\_51 = 0 not(TMP\_51) = 1 TMP\_52 = 1 not(TMP\_52) = 0 TMP\_53 = 1 not(TMP\_53) = 0 TMP\_54 = 1 not(TMP\_54) = 0 TMP\_55 = 3 TMP\_56 = 0 not(TMP\_56) = 1 TMP\_57 = 0 not(TMP\_57) = 1 TMP\_58 = 0 TMP\_59 = 1 not(TMP\_59) = 0 TMP\_60 = 1 not(TMP\_60) = 0 TMP\_61 = 2 TMP\_62 = 0 not(TMP\_62) = 1 TMP\_63 = 0 not(TMP\_63) = 1 TMP\_64 = 1 not(TMP\_64) = 0 TMP\_65 = 1 not(TMP\_65) = 0 TMP\_66 = 1 not(TMP\_66) = 0 TMP\_67 = 2 TMP\_68 = 1 not(TMP\_68) = 0 TMP\_69 = 1 not(TMP\_69) = 0 TMP\_70 = 1 not(TMP\_70) = 0 TMP\_71 = 0 not(TMP\_71) = 1 TMP\_72 = 3 TMP\_73 = 0 not(TMP\_73) = 1 TMP\_74 = 0 not(TMP\_74) = 1 TMP\_75 = 0 TMP\_76 = 1 not(TMP\_76) = 0 TMP\_77 = 1 not(TMP\_77) = 0 TMP\_78 = 2 TMP\_79 = 0 not(TMP\_79) = 1 TMP\_80 = 0 not(TMP\_80) = 1 TMP\_81 = 1 not(TMP\_81) = 0 TMP\_82 = 1 not(TMP\_82) = 0 TMP\_83 = 1 not(TMP\_83) = 0 TMP\_84 = 2 TMP\_85 = 1 not(TMP\_85) = 0 TMP\_86 = 0 not(TMP\_86) = 1 TMP\_87 = 1 not(TMP\_87) = 0 TMP\_88 = 1 not(TMP\_88) = 0 TMP\_89 = 3 TMP\_90 = 0 not(TMP\_90) = 1 TMP\_91 = 0 not(TMP\_91) = 1 TMP\_92 = 0 TMP\_93 = 1 not(TMP\_93) = 0 TMP\_94 = 1 not(TMP\_94) = 0 TMP\_95 = 2 TMP\_96 = 0 not(TMP\_96) = 1 TMP\_97 = 0 not(TMP\_97) = 1 TMP\_98 = 1 not(TMP\_98) = 0 TMP\_99 = 1 not(TMP\_99) = 0 TMP\_100 = 1 not(TMP\_100) = 0 TMP\_101 = 2 Area\_0 = 60 Distance\_0\_Rule\_0 = 30 Distance\_1\_Rule\_0 = 2 Area\_1 = 30 Distance\_0\_Rule\_1 = 30 Distance\_1\_Rule\_1 = 1 Area\_2 = 120 -(Rule\_2\_LB) = -60 Distance\_0\_Rule\_2 = 60 -(Rule\_2\_LB) = 0 Distance\_1\_Rule\_2 = 2 Area\_3 = 30 -(Rule\_3\_LB) = -30 Distance\_0\_Rule\_3 = 30 -(Rule\_3\_LB) = 0 Distance\_1\_Rule\_3 = 1 TMP\_102 = 240 .

- Solution #8 found. 8 Solutions, Resolution 0.076s, 25 Nodes (327.8 n/s), 20 Backtracks, 7 Fails, 0 Restarts

Rule\_2\_LB = 60 Rule\_2\_UB = 120 Rule\_2\_LB = 0 Rule\_2\_UB = 2 Rule\_3\_LB = 30 Rule\_3\_UB = 60 Rule\_3\_LB = 0 Rule\_3\_UB = 1 Overlaps\_0\_0 = 0 Overlaps\_0\_1 = 1 Overlaps\_0\_2 = 0 Overlaps\_0\_3 = 0 Overlaps\_1\_0 = 1 Overlaps\_1\_1 = 0 Overlaps\_1\_2 = 0 Overlaps\_1\_3 = 0 Overlaps\_2\_0 = 0 Overlaps\_2\_1 = 0 Overlaps\_2\_2 = 0 Overlaps\_2\_3 = 0 Overlaps\_3\_0 = 0 Overlaps\_3\_1 = 0 Overlaps\_3\_2 = 0 Overlaps\_3\_3 = 0 TMP\_0 = 0 not(TMP\_0) = 1 TMP\_1 = 1 not(TMP\_1) = 0 TMP\_2 = 1 not(TMP\_2) = 0 TMP\_3 = 1 not(TMP\_3) = 0 TMP\_4 = 3 TMP\_5 = 0 not(TMP\_5) = 1 TMP\_6 = 0 not(TMP\_6) = 1 TMP\_7 = 0 TMP\_8 = 1 not(TMP\_8) = 0 TMP\_9 = 1 not(TMP\_9) = 0 TMP\_10 = 2 TMP\_11 = 0 not(TMP\_11) = 1 TMP\_12 = 0 not(TMP\_12) = 1 TMP\_13 = 1 not(TMP\_13) = 0 TMP\_14 = 1 not(TMP\_14) = 0 TMP\_15 = 1 not(TMP\_15) = 0 TMP\_16 = 2 TMP\_17 = 0 not(TMP\_17) = 1 TMP\_18 = 1 not(TMP\_18) = 0 TMP\_19 = 1 not(TMP\_19) = 0 TMP\_20 = 1 not(TMP\_20) = 0 TMP\_21 = 3 TMP\_22 = 0 not(TMP\_22) = 1 TMP\_23 = 0 not(TMP\_23) = 1 TMP\_24 = 0 TMP\_25 = 1 not(TMP\_25) = 0 TMP\_26 = 1 not(TMP\_26) = 0 TMP\_27 = 2 TMP\_28 = 0 not(TMP\_28) = 1 TMP\_29 = 0 not(TMP\_29) = 1 TMP\_30 = 1 not(TMP\_30) = 0 TMP\_31 = 1 not(TMP\_31) = 0 TMP\_32 = 1 not(TMP\_32) = 0 TMP\_33 = 2 TMP\_34 = 0 not(TMP\_34) = 1 TMP\_35 = 1 not(TMP\_35) = 0 TMP\_36 = 1 not(TMP\_36) = 0 TMP\_37 = 1 not(TMP\_37) = 0 TMP\_38 = 3 TMP\_39 = 0 not(TMP\_39) = 1 TMP\_40 = 0 not(TMP\_40) = 1 TMP\_41 = 0 TMP\_42 = 1 not(TMP\_42) = 0 TMP\_43 = 1 not(TMP\_43) = 0 TMP\_44 = 2 TMP\_45 = 0 not(TMP\_45) = 1 TMP\_46 = 0 not(TMP\_46) = 1 TMP\_47 = 1 not(TMP\_47) = 0 TMP\_48 = 1 not(TMP\_48) = 0 TMP\_49 = 1 not(TMP\_49) = 0 TMP\_50 = 2 TMP\_51 = 0 not(TMP\_51) = 1 TMP\_52 = 1 not(TMP\_52) = 0 TMP\_53 = 1 not(TMP\_53) = 0 TMP\_54 = 1 not(TMP\_54) = 0 TMP\_55 = 3 TMP\_56 = 0 not(TMP\_56) = 1 TMP\_57 = 0 not(TMP\_57) = 1 TMP\_58 = 0 TMP\_59 = 1 not(TMP\_59) = 0 TMP\_60 = 1 not(TMP\_60) = 0 TMP\_61 = 2 TMP\_62 = 0 not(TMP\_62) = 1 TMP\_63 = 0 not(TMP\_63) = 1 TMP\_64 = 1 not(TMP\_64) = 0 TMP\_65 = 1 not(TMP\_65) = 0 TMP\_66 = 1 not(TMP\_66) = 0 TMP\_67 = 2 TMP\_68 = 1 not(TMP\_68) = 0 TMP\_69 = 1 not(TMP\_69) = 0 TMP\_70 = 1 not(TMP\_70) = 0 TMP\_71 = 0 not(TMP\_71) = 1 TMP\_72 = 3 TMP\_73 = 0 not(TMP\_73) = 1 TMP\_74 = 0 not(TMP\_74) = 1 TMP\_75 = 0 TMP\_76 = 1 not(TMP\_76) = 0 TMP\_77 = 1 not(TMP\_77) = 0 TMP\_78 = 2 TMP\_79 = 0 not(TMP\_79) = 1 TMP\_80 = 0 not(TMP\_80) = 1 TMP\_81 = 1 not(TMP\_81) = 0 TMP\_82 = 1 not(TMP\_82) = 0 TMP\_83 = 1 not(TMP\_83) = 0 TMP\_84 = 2 TMP\_85 = 1 not(TMP\_85) = 0 TMP\_86 = 0 not(TMP\_86) = 1 TMP\_87 = 1 not(TMP\_87) = 0 TMP\_88 = 1 not(TMP\_88) = 0 TMP\_89 = 3 TMP\_90 = 0 not(TMP\_90) = 1 TMP\_91 = 0 not(TMP\_91) = 1 TMP\_92 = 0 TMP\_93 = 1 not(TMP\_93) = 0 TMP\_94 = 1 not(TMP\_94) = 0 TMP\_95 = 2 TMP\_96 = 0 not(TMP\_96) = 1 TMP\_97 = 0 not(TMP\_97) = 1 TMP\_98 = 1 not(TMP\_98) = 0 TMP\_99 = 1 not(TMP\_99) = 0 TMP\_100 = 1 not(TMP\_100) = 0 TMP\_101 = 2 Area\_0 = 60 Distance\_0\_Rule\_0 = 30 Distance\_1\_Rule\_0 = 2 Area\_1 = 30 Distance\_0\_Rule\_1 = 30 Distance\_1\_Rule\_1 = 1 Area\_2 = 120 -(Rule\_2\_LB) = -60 Distance\_0\_Rule\_2 = 60 -(Rule\_2\_LB) = 0 Distance\_1\_Rule\_2 = 2 Area\_3 = 30 -(Rule\_3\_LB) = -30 Distance\_0\_Rule\_3 = 30 -(Rule\_3\_LB) = 0 Distance\_1\_Rule\_3 = 1 TMP\_102 = 240 .

- Solution #9 found. 9 Solutions, Resolution 0.081s, 28 Nodes (346.7 n/s), 27 Backtracks, 8 Fails, 0 Restarts

Rule\_2\_LB = 60 Rule\_2\_UB = 120 Rule\_2\_LB = 1 Rule\_2\_UB = 2 Rule\_3\_LB = 30 Rule\_3\_UB = 120 Rule\_3\_LB = 0 Rule\_3\_UB = 1 Overlaps\_0\_0 = 0 Overlaps\_0\_1 = 0 Overlaps\_0\_2 = 0 Overlaps\_0\_3 = 0 Overlaps\_1\_0 = 0 Overlaps\_1\_1 = 0 Overlaps\_1\_2 = 0 Overlaps\_1\_3 = 0 Overlaps\_2\_0 = 0 Overlaps\_2\_1 = 0 Overlaps\_2\_2 = 0 Overlaps\_2\_3 = 0 Overlaps\_3\_0 = 0 Overlaps\_3\_1 = 0 Overlaps\_3\_2 = 0 Overlaps\_3\_3 = 0 TMP\_0 = 0 not(TMP\_0) = 1 TMP\_1 = 1 not(TMP\_1) = 0 TMP\_2 = 1 not(TMP\_2) = 0 TMP\_3 = 1 not(TMP\_3) = 0 TMP\_4 = 3 TMP\_5 = 0 not(TMP\_5) = 1 TMP\_6 = 0 not(TMP\_6) = 1 TMP\_7 = 0 TMP\_8 = 1 not(TMP\_8) = 0 TMP\_9 = 1 not(TMP\_9) = 0 TMP\_10 = 2 TMP\_11 = 0 not(TMP\_11) = 1 TMP\_12 = 0 not(TMP\_12) = 1 TMP\_13 = 1 not(TMP\_13) = 0 TMP\_14 = 1 not(TMP\_14) = 0 TMP\_15 = 1 not(TMP\_15) = 0 TMP\_16 = 2 TMP\_17 = 0 not(TMP\_17) = 1 TMP\_18 = 1 not(TMP\_18) = 0 TMP\_19 = 1 not(TMP\_19) = 0 TMP\_20 = 1 not(TMP\_20) = 0 TMP\_21 = 3 TMP\_22 = 0 not(TMP\_22) = 1 TMP\_23 = 0 not(TMP\_23) = 1 TMP\_24 = 0 TMP\_25 = 1 not(TMP\_25) = 0 TMP\_26 = 1 not(TMP\_26) = 0 TMP\_27 = 2 TMP\_28 = 0 not(TMP\_28) = 1 TMP\_29 = 0 not(TMP\_29) = 1 TMP\_30 = 1 not(TMP\_30) = 0 TMP\_31 = 1 not(TMP\_31) = 0 TMP\_32 = 1 not(TMP\_32) = 0 TMP\_33 = 2 TMP\_34 = 1 not(TMP\_34) = 0 TMP\_35 = 1 not(TMP\_35) = 0 TMP\_36 = 0 not(TMP\_36) = 1 TMP\_37 = 1 not(TMP\_37) = 0 TMP\_38 = 3 TMP\_39 = 0 not(TMP\_39) = 1 TMP\_40 = 0 not(TMP\_40) = 1 TMP\_41 = 0 TMP\_42 = 1 not(TMP\_42) = 0 TMP\_43 = 1 not(TMP\_43) = 0 TMP\_44 = 2 TMP\_45 = 0 not(TMP\_45) = 1 TMP\_46 = 0 not(TMP\_46) = 1 TMP\_47 = 1 not(TMP\_47) = 0 TMP\_48 = 1 not(TMP\_48) = 0 TMP\_49 = 1 not(TMP\_49) = 0 TMP\_50 = 2 TMP\_51 = 0 not(TMP\_51) = 1 TMP\_52 = 1 not(TMP\_52) = 0 TMP\_53 = 1 not(TMP\_53) = 0 TMP\_54 = 1 not(TMP\_54) = 0 TMP\_55 = 3 TMP\_56 = 0 not(TMP\_56) = 1 TMP\_57 = 0 not(TMP\_57) = 1 TMP\_58 = 0 TMP\_59 = 1 not(TMP\_59) = 0 TMP\_60 = 1 not(TMP\_60) = 0 TMP\_61 = 2 TMP\_62 = 0 not(TMP\_62) = 1 TMP\_63 = 0 not(TMP\_63) = 1 TMP\_64 = 1 not(TMP\_64) = 0 TMP\_65 = 1 not(TMP\_65) = 0 TMP\_66 = 1 not(TMP\_66) = 0 TMP\_67 = 2 TMP\_68 = 1 not(TMP\_68) = 0 TMP\_69 = 1 not(TMP\_69) = 0 TMP\_70 = 1 not(TMP\_70) = 0 TMP\_71 = 0 not(TMP\_71) = 1 TMP\_72 = 3 TMP\_73 = 0 not(TMP\_73) = 1 TMP\_74 = 0 not(TMP\_74) = 1 TMP\_75 = 0 TMP\_76 = 1 not(TMP\_76) = 0 TMP\_77 = 1 not(TMP\_77) = 0 TMP\_78 = 2 TMP\_79 = 0 not(TMP\_79) = 1 TMP\_80 = 0 not(TMP\_80) = 1 TMP\_81 = 1 not(TMP\_81) = 0 TMP\_82 = 1 not(TMP\_82) = 0 TMP\_83 = 1 not(TMP\_83) = 0 TMP\_84 = 2 TMP\_85 = 1 not(TMP\_85) = 0 TMP\_86 = 1 not(TMP\_86) = 0 TMP\_87 = 1 not(TMP\_87) = 0 TMP\_88 = 0 not(TMP\_88) = 1 TMP\_89 = 3 TMP\_90 = 0 not(TMP\_90) = 1 TMP\_91 = 0 not(TMP\_91) = 1 TMP\_92 = 0 TMP\_93 = 1 not(TMP\_93) = 0 TMP\_94 = 1 not(TMP\_94) = 0 TMP\_95 = 2 TMP\_96 = 0 not(TMP\_96) = 1 TMP\_97 = 0 not(TMP\_97) = 1 TMP\_98 = 1 not(TMP\_98) = 0 TMP\_99 = 1 not(TMP\_99) = 0 TMP\_100 = 1 not(TMP\_100) = 0 TMP\_101 = 2 Area\_0 = 60 Distance\_0\_Rule\_0 = 30 Distance\_1\_Rule\_0 = 2 Area\_1 = 30 Distance\_0\_Rule\_1 = 30 Distance\_1\_Rule\_1 = 1 Area\_2 = 60 -(Rule\_2\_LB) = -60 Distance\_0\_Rule\_2 = 60 -(Rule\_2\_LB) = -1 Distance\_1\_Rule\_2 = 1 Area\_3 = 90 -(Rule\_3\_LB) = -30 Distance\_0\_Rule\_3 = 90 -(Rule\_3\_LB) = 0 Distance\_1\_Rule\_3 = 1 TMP\_102 = 240 .

- Solution #10 found. 10 Solutions, Resolution 0.084s, 29 Nodes (346.8 n/s), 28 Backtracks, 8 Fails, 0 Restarts

Rule\_2\_LB = 60 Rule\_2\_UB = 120 Rule\_2\_LB = 1 Rule\_2\_UB = 2 Rule\_3\_LB = 30 Rule\_3\_UB = 120 Rule\_3\_LB = 0 Rule\_3\_UB = 1 Overlaps\_0\_0 = 0 Overlaps\_0\_1 = 0 Overlaps\_0\_2 = 0 Overlaps\_0\_3 = 0 Overlaps\_1\_0 = 1 Overlaps\_1\_1 = 0 Overlaps\_1\_2 = 0 Overlaps\_1\_3 = 0 Overlaps\_2\_0 = 0 Overlaps\_2\_1 = 0 Overlaps\_2\_2 = 0 Overlaps\_2\_3 = 0 Overlaps\_3\_0 = 0 Overlaps\_3\_1 = 0 Overlaps\_3\_2 = 0 Overlaps\_3\_3 = 0 TMP\_0 = 0 not(TMP\_0) = 1 TMP\_1 = 1 not(TMP\_1) = 0 TMP\_2 = 1 not(TMP\_2) = 0 TMP\_3 = 1 not(TMP\_3) = 0 TMP\_4 = 3 TMP\_5 = 0 not(TMP\_5) = 1 TMP\_6 = 0 not(TMP\_6) = 1 TMP\_7 = 0 TMP\_8 = 1 not(TMP\_8) = 0 TMP\_9 = 1 not(TMP\_9) = 0 TMP\_10 = 2 TMP\_11 = 0 not(TMP\_11) = 1 TMP\_12 = 0 not(TMP\_12) = 1 TMP\_13 = 1 not(TMP\_13) = 0 TMP\_14 = 1 not(TMP\_14) = 0 TMP\_15 = 1 not(TMP\_15) = 0 TMP\_16 = 2 TMP\_17 = 0 not(TMP\_17) = 1 TMP\_18 = 1 not(TMP\_18) = 0 TMP\_19 = 1 not(TMP\_19) = 0 TMP\_20 = 1 not(TMP\_20) = 0 TMP\_21 = 3 TMP\_22 = 0 not(TMP\_22) = 1 TMP\_23 = 0 not(TMP\_23) = 1 TMP\_24 = 0 TMP\_25 = 1 not(TMP\_25) = 0 TMP\_26 = 1 not(TMP\_26) = 0 TMP\_27 = 2 TMP\_28 = 0 not(TMP\_28) = 1 TMP\_29 = 0 not(TMP\_29) = 1 TMP\_30 = 1 not(TMP\_30) = 0 TMP\_31 = 1 not(TMP\_31) = 0 TMP\_32 = 1 not(TMP\_32) = 0 TMP\_33 = 2 TMP\_34 = 1 not(TMP\_34) = 0 TMP\_35 = 1 not(TMP\_35) = 0 TMP\_36 = 0 not(TMP\_36) = 1 TMP\_37 = 1 not(TMP\_37) = 0 TMP\_38 = 3 TMP\_39 = 0 not(TMP\_39) = 1 TMP\_40 = 0 not(TMP\_40) = 1 TMP\_41 = 0 TMP\_42 = 1 not(TMP\_42) = 0 TMP\_43 = 1 not(TMP\_43) = 0 TMP\_44 = 2 TMP\_45 = 0 not(TMP\_45) = 1 TMP\_46 = 0 not(TMP\_46) = 1 TMP\_47 = 1 not(TMP\_47) = 0 TMP\_48 = 1 not(TMP\_48) = 0 TMP\_49 = 1 not(TMP\_49) = 0 TMP\_50 = 2 TMP\_51 = 0 not(TMP\_51) = 1 TMP\_52 = 1 not(TMP\_52) = 0 TMP\_53 = 1 not(TMP\_53) = 0 TMP\_54 = 1 not(TMP\_54) = 0 TMP\_55 = 3 TMP\_56 = 0 not(TMP\_56) = 1 TMP\_57 = 0 not(TMP\_57) = 1 TMP\_58 = 0 TMP\_59 = 1 not(TMP\_59) = 0 TMP\_60 = 1 not(TMP\_60) = 0 TMP\_61 = 2 TMP\_62 = 0 not(TMP\_62) = 1 TMP\_63 = 0 not(TMP\_63) = 1 TMP\_64 = 1 not(TMP\_64) = 0 TMP\_65 = 1 not(TMP\_65) = 0 TMP\_66 = 1 not(TMP\_66) = 0 TMP\_67 = 2 TMP\_68 = 1 not(TMP\_68) = 0 TMP\_69 = 1 not(TMP\_69) = 0 TMP\_70 = 1 not(TMP\_70) = 0 TMP\_71 = 0 not(TMP\_71) = 1 TMP\_72 = 3 TMP\_73 = 0 not(TMP\_73) = 1 TMP\_74 = 0 not(TMP\_74) = 1 TMP\_75 = 0 TMP\_76 = 1 not(TMP\_76) = 0 TMP\_77 = 1 not(TMP\_77) = 0 TMP\_78 = 2 TMP\_79 = 0 not(TMP\_79) = 1 TMP\_80 = 0 not(TMP\_80) = 1 TMP\_81 = 1 not(TMP\_81) = 0 TMP\_82 = 1 not(TMP\_82) = 0 TMP\_83 = 1 not(TMP\_83) = 0 TMP\_84 = 2 TMP\_85 = 1 not(TMP\_85) = 0 TMP\_86 = 1 not(TMP\_86) = 0 TMP\_87 = 1 not(TMP\_87) = 0 TMP\_88 = 0 not(TMP\_88) = 1 TMP\_89 = 3 TMP\_90 = 0 not(TMP\_90) = 1 TMP\_91 = 0 not(TMP\_91) = 1 TMP\_92 = 0 TMP\_93 = 1 not(TMP\_93) = 0 TMP\_94 = 1 not(TMP\_94) = 0 TMP\_95 = 2 TMP\_96 = 0 not(TMP\_96) = 1 TMP\_97 = 0 not(TMP\_97) = 1 TMP\_98 = 1 not(TMP\_98) = 0 TMP\_99 = 1 not(TMP\_99) = 0 TMP\_100 = 1 not(TMP\_100) = 0 TMP\_101 = 2 Area\_0 = 60 Distance\_0\_Rule\_0 = 30 Distance\_1\_Rule\_0 = 2 Area\_1 = 30 Distance\_0\_Rule\_1 = 30 Distance\_1\_Rule\_1 = 1 Area\_2 = 60 -(Rule\_2\_LB) = -60 Distance\_0\_Rule\_2 = 60 -(Rule\_2\_LB) = -1 Distance\_1\_Rule\_2 = 1 Area\_3 = 90 -(Rule\_3\_LB) = -30 Distance\_0\_Rule\_3 = 90 -(Rule\_3\_LB) = 0 Distance\_1\_Rule\_3 = 1 TMP\_102 = 240 .

- Solution #11 found. 11 Solutions, Resolution 0.086s, 31 Nodes (360.6 n/s), 30 Backtracks, 8 Fails, 0 Restarts

Rule\_2\_LB = 60 Rule\_2\_UB = 120 Rule\_2\_LB = 1 Rule\_2\_UB = 2 Rule\_3\_LB = 30 Rule\_3\_UB = 120 Rule\_3\_LB = 0 Rule\_3\_UB = 1 Overlaps\_0\_0 = 0 Overlaps\_0\_1 = 1 Overlaps\_0\_2 = 0 Overlaps\_0\_3 = 0 Overlaps\_1\_0 = 0 Overlaps\_1\_1 = 0 Overlaps\_1\_2 = 0 Overlaps\_1\_3 = 0 Overlaps\_2\_0 = 0 Overlaps\_2\_1 = 0 Overlaps\_2\_2 = 0 Overlaps\_2\_3 = 0 Overlaps\_3\_0 = 0 Overlaps\_3\_1 = 0 Overlaps\_3\_2 = 0 Overlaps\_3\_3 = 0 TMP\_0 = 0 not(TMP\_0) = 1 TMP\_1 = 1 not(TMP\_1) = 0 TMP\_2 = 1 not(TMP\_2) = 0 TMP\_3 = 1 not(TMP\_3) = 0 TMP\_4 = 3 TMP\_5 = 0 not(TMP\_5) = 1 TMP\_6 = 0 not(TMP\_6) = 1 TMP\_7 = 0 TMP\_8 = 1 not(TMP\_8) = 0 TMP\_9 = 1 not(TMP\_9) = 0 TMP\_10 = 2 TMP\_11 = 0 not(TMP\_11) = 1 TMP\_12 = 0 not(TMP\_12) = 1 TMP\_13 = 1 not(TMP\_13) = 0 TMP\_14 = 1 not(TMP\_14) = 0 TMP\_15 = 1 not(TMP\_15) = 0 TMP\_16 = 2 TMP\_17 = 0 not(TMP\_17) = 1 TMP\_18 = 1 not(TMP\_18) = 0 TMP\_19 = 1 not(TMP\_19) = 0 TMP\_20 = 1 not(TMP\_20) = 0 TMP\_21 = 3 TMP\_22 = 0 not(TMP\_22) = 1 TMP\_23 = 0 not(TMP\_23) = 1 TMP\_24 = 0 TMP\_25 = 1 not(TMP\_25) = 0 TMP\_26 = 1 not(TMP\_26) = 0 TMP\_27 = 2 TMP\_28 = 0 not(TMP\_28) = 1 TMP\_29 = 0 not(TMP\_29) = 1 TMP\_30 = 1 not(TMP\_30) = 0 TMP\_31 = 1 not(TMP\_31) = 0 TMP\_32 = 1 not(TMP\_32) = 0 TMP\_33 = 2 TMP\_34 = 1 not(TMP\_34) = 0 TMP\_35 = 1 not(TMP\_35) = 0 TMP\_36 = 0 not(TMP\_36) = 1 TMP\_37 = 1 not(TMP\_37) = 0 TMP\_38 = 3 TMP\_39 = 0 not(TMP\_39) = 1 TMP\_40 = 0 not(TMP\_40) = 1 TMP\_41 = 0 TMP\_42 = 1 not(TMP\_42) = 0 TMP\_43 = 1 not(TMP\_43) = 0 TMP\_44 = 2 TMP\_45 = 0 not(TMP\_45) = 1 TMP\_46 = 0 not(TMP\_46) = 1 TMP\_47 = 1 not(TMP\_47) = 0 TMP\_48 = 1 not(TMP\_48) = 0 TMP\_49 = 1 not(TMP\_49) = 0 TMP\_50 = 2 TMP\_51 = 0 not(TMP\_51) = 1 TMP\_52 = 1 not(TMP\_52) = 0 TMP\_53 = 1 not(TMP\_53) = 0 TMP\_54 = 1 not(TMP\_54) = 0 TMP\_55 = 3 TMP\_56 = 0 not(TMP\_56) = 1 TMP\_57 = 0 not(TMP\_57) = 1 TMP\_58 = 0 TMP\_59 = 1 not(TMP\_59) = 0 TMP\_60 = 1 not(TMP\_60) = 0 TMP\_61 = 2 TMP\_62 = 0 not(TMP\_62) = 1 TMP\_63 = 0 not(TMP\_63) = 1 TMP\_64 = 1 not(TMP\_64) = 0 TMP\_65 = 1 not(TMP\_65) = 0 TMP\_66 = 1 not(TMP\_66) = 0 TMP\_67 = 2 TMP\_68 = 1 not(TMP\_68) = 0 TMP\_69 = 1 not(TMP\_69) = 0 TMP\_70 = 1 not(TMP\_70) = 0 TMP\_71 = 0 not(TMP\_71) = 1 TMP\_72 = 3 TMP\_73 = 0 not(TMP\_73) = 1 TMP\_74 = 0 not(TMP\_74) = 1 TMP\_75 = 0 TMP\_76 = 1 not(TMP\_76) = 0 TMP\_77 = 1 not(TMP\_77) = 0 TMP\_78 = 2 TMP\_79 = 0 not(TMP\_79) = 1 TMP\_80 = 0 not(TMP\_80) = 1 TMP\_81 = 1 not(TMP\_81) = 0 TMP\_82 = 1 not(TMP\_82) = 0 TMP\_83 = 1 not(TMP\_83) = 0 TMP\_84 = 2 TMP\_85 = 1 not(TMP\_85) = 0 TMP\_86 = 1 not(TMP\_86) = 0 TMP\_87 = 1 not(TMP\_87) = 0 TMP\_88 = 0 not(TMP\_88) = 1 TMP\_89 = 3 TMP\_90 = 0 not(TMP\_90) = 1 TMP\_91 = 0 not(TMP\_91) = 1 TMP\_92 = 0 TMP\_93 = 1 not(TMP\_93) = 0 TMP\_94 = 1 not(TMP\_94) = 0 TMP\_95 = 2 TMP\_96 = 0 not(TMP\_96) = 1 TMP\_97 = 0 not(TMP\_97) = 1 TMP\_98 = 1 not(TMP\_98) = 0 TMP\_99 = 1 not(TMP\_99) = 0 TMP\_100 = 1 not(TMP\_100) = 0 TMP\_101 = 2 Area\_0 = 60 Distance\_0\_Rule\_0 = 30 Distance\_1\_Rule\_0 = 2 Area\_1 = 30 Distance\_0\_Rule\_1 = 30 Distance\_1\_Rule\_1 = 1 Area\_2 = 60 -(Rule\_2\_LB) = -60 Distance\_0\_Rule\_2 = 60 -(Rule\_2\_LB) = -1 Distance\_1\_Rule\_2 = 1 Area\_3 = 90 -(Rule\_3\_LB) = -30 Distance\_0\_Rule\_3 = 90 -(Rule\_3\_LB) = 0 Distance\_1\_Rule\_3 = 1 TMP\_102 = 240 .

- Solution #12 found. 12 Solutions, Resolution 0.090s, 32 Nodes (357.4 n/s), 31 Backtracks, 8 Fails, 0 Restarts

Rule\_2\_LB = 60 Rule\_2\_UB = 120 Rule\_2\_LB = 1 Rule\_2\_UB = 2 Rule\_3\_LB = 30 Rule\_3\_UB = 120 Rule\_3\_LB = 0 Rule\_3\_UB = 1 Overlaps\_0\_0 = 0 Overlaps\_0\_1 = 1 Overlaps\_0\_2 = 0 Overlaps\_0\_3 = 0 Overlaps\_1\_0 = 1 Overlaps\_1\_1 = 0 Overlaps\_1\_2 = 0 Overlaps\_1\_3 = 0 Overlaps\_2\_0 = 0 Overlaps\_2\_1 = 0 Overlaps\_2\_2 = 0 Overlaps\_2\_3 = 0 Overlaps\_3\_0 = 0 Overlaps\_3\_1 = 0 Overlaps\_3\_2 = 0 Overlaps\_3\_3 = 0 TMP\_0 = 0 not(TMP\_0) = 1 TMP\_1 = 1 not(TMP\_1) = 0 TMP\_2 = 1 not(TMP\_2) = 0 TMP\_3 = 1 not(TMP\_3) = 0 TMP\_4 = 3 TMP\_5 = 0 not(TMP\_5) = 1 TMP\_6 = 0 not(TMP\_6) = 1 TMP\_7 = 0 TMP\_8 = 1 not(TMP\_8) = 0 TMP\_9 = 1 not(TMP\_9) = 0 TMP\_10 = 2 TMP\_11 = 0 not(TMP\_11) = 1 TMP\_12 = 0 not(TMP\_12) = 1 TMP\_13 = 1 not(TMP\_13) = 0 TMP\_14 = 1 not(TMP\_14) = 0 TMP\_15 = 1 not(TMP\_15) = 0 TMP\_16 = 2 TMP\_17 = 0 not(TMP\_17) = 1 TMP\_18 = 1 not(TMP\_18) = 0 TMP\_19 = 1 not(TMP\_19) = 0 TMP\_20 = 1 not(TMP\_20) = 0 TMP\_21 = 3 TMP\_22 = 0 not(TMP\_22) = 1 TMP\_23 = 0 not(TMP\_23) = 1 TMP\_24 = 0 TMP\_25 = 1 not(TMP\_25) = 0 TMP\_26 = 1 not(TMP\_26) = 0 TMP\_27 = 2 TMP\_28 = 0 not(TMP\_28) = 1 TMP\_29 = 0 not(TMP\_29) = 1 TMP\_30 = 1 not(TMP\_30) = 0 TMP\_31 = 1 not(TMP\_31) = 0 TMP\_32 = 1 not(TMP\_32) = 0 TMP\_33 = 2 TMP\_34 = 1 not(TMP\_34) = 0 TMP\_35 = 1 not(TMP\_35) = 0 TMP\_36 = 0 not(TMP\_36) = 1 TMP\_37 = 1 not(TMP\_37) = 0 TMP\_38 = 3 TMP\_39 = 0 not(TMP\_39) = 1 TMP\_40 = 0 not(TMP\_40) = 1 TMP\_41 = 0 TMP\_42 = 1 not(TMP\_42) = 0 TMP\_43 = 1 not(TMP\_43) = 0 TMP\_44 = 2 TMP\_45 = 0 not(TMP\_45) = 1 TMP\_46 = 0 not(TMP\_46) = 1 TMP\_47 = 1 not(TMP\_47) = 0 TMP\_48 = 1 not(TMP\_48) = 0 TMP\_49 = 1 not(TMP\_49) = 0 TMP\_50 = 2 TMP\_51 = 0 not(TMP\_51) = 1 TMP\_52 = 1 not(TMP\_52) = 0 TMP\_53 = 1 not(TMP\_53) = 0 TMP\_54 = 1 not(TMP\_54) = 0 TMP\_55 = 3 TMP\_56 = 0 not(TMP\_56) = 1 TMP\_57 = 0 not(TMP\_57) = 1 TMP\_58 = 0 TMP\_59 = 1 not(TMP\_59) = 0 TMP\_60 = 1 not(TMP\_60) = 0 TMP\_61 = 2 TMP\_62 = 0 not(TMP\_62) = 1 TMP\_63 = 0 not(TMP\_63) = 1 TMP\_64 = 1 not(TMP\_64) = 0 TMP\_65 = 1 not(TMP\_65) = 0 TMP\_66 = 1 not(TMP\_66) = 0 TMP\_67 = 2 TMP\_68 = 1 not(TMP\_68) = 0 TMP\_69 = 1 not(TMP\_69) = 0 TMP\_70 = 1 not(TMP\_70) = 0 TMP\_71 = 0 not(TMP\_71) = 1 TMP\_72 = 3 TMP\_73 = 0 not(TMP\_73) = 1 TMP\_74 = 0 not(TMP\_74) = 1 TMP\_75 = 0 TMP\_76 = 1 not(TMP\_76) = 0 TMP\_77 = 1 not(TMP\_77) = 0 TMP\_78 = 2 TMP\_79 = 0 not(TMP\_79) = 1 TMP\_80 = 0 not(TMP\_80) = 1 TMP\_81 = 1 not(TMP\_81) = 0 TMP\_82 = 1 not(TMP\_82) = 0 TMP\_83 = 1 not(TMP\_83) = 0 TMP\_84 = 2 TMP\_85 = 1 not(TMP\_85) = 0 TMP\_86 = 1 not(TMP\_86) = 0 TMP\_87 = 1 not(TMP\_87) = 0 TMP\_88 = 0 not(TMP\_88) = 1 TMP\_89 = 3 TMP\_90 = 0 not(TMP\_90) = 1 TMP\_91 = 0 not(TMP\_91) = 1 TMP\_92 = 0 TMP\_93 = 1 not(TMP\_93) = 0 TMP\_94 = 1 not(TMP\_94) = 0 TMP\_95 = 2 TMP\_96 = 0 not(TMP\_96) = 1 TMP\_97 = 0 not(TMP\_97) = 1 TMP\_98 = 1 not(TMP\_98) = 0 TMP\_99 = 1 not(TMP\_99) = 0 TMP\_100 = 1 not(TMP\_100) = 0 TMP\_101 = 2 Area\_0 = 60 Distance\_0\_Rule\_0 = 30 Distance\_1\_Rule\_0 = 2 Area\_1 = 30 Distance\_0\_Rule\_1 = 30 Distance\_1\_Rule\_1 = 1 Area\_2 = 60 -(Rule\_2\_LB) = -60 Distance\_0\_Rule\_2 = 60 -(Rule\_2\_LB) = -1 Distance\_1\_Rule\_2 = 1 Area\_3 = 90 -(Rule\_3\_LB) = -30 Distance\_0\_Rule\_3 = 90 -(Rule\_3\_LB) = 0 Distance\_1\_Rule\_3 = 1 TMP\_102 = 240 .

- Solution #13 found. 13 Solutions, Resolution 0.094s, 35 Nodes (371.4 n/s), 39 Backtracks, 8 Fails, 0 Restarts

Rule\_2\_LB = 30 Rule\_2\_UB = 120 Rule\_2\_LB = 0 Rule\_2\_UB = 1 Rule\_3\_LB = 60 Rule\_3\_UB = 120 Rule\_3\_LB = 1 Rule\_3\_UB = 2 Overlaps\_0\_0 = 0 Overlaps\_0\_1 = 0 Overlaps\_0\_2 = 0 Overlaps\_0\_3 = 0 Overlaps\_1\_0 = 0 Overlaps\_1\_1 = 0 Overlaps\_1\_2 = 0 Overlaps\_1\_3 = 0 Overlaps\_2\_0 = 0 Overlaps\_2\_1 = 0 Overlaps\_2\_2 = 0 Overlaps\_2\_3 = 0 Overlaps\_3\_0 = 0 Overlaps\_3\_1 = 0 Overlaps\_3\_2 = 0 Overlaps\_3\_3 = 0 TMP\_0 = 0 not(TMP\_0) = 1 TMP\_1 = 1 not(TMP\_1) = 0 TMP\_2 = 1 not(TMP\_2) = 0 TMP\_3 = 1 not(TMP\_3) = 0 TMP\_4 = 3 TMP\_5 = 0 not(TMP\_5) = 1 TMP\_6 = 0 not(TMP\_6) = 1 TMP\_7 = 0 TMP\_8 = 1 not(TMP\_8) = 0 TMP\_9 = 1 not(TMP\_9) = 0 TMP\_10 = 2 TMP\_11 = 0 not(TMP\_11) = 1 TMP\_12 = 0 not(TMP\_12) = 1 TMP\_13 = 1 not(TMP\_13) = 0 TMP\_14 = 1 not(TMP\_14) = 0 TMP\_15 = 1 not(TMP\_15) = 0 TMP\_16 = 2 TMP\_17 = 1 not(TMP\_17) = 0 TMP\_18 = 1 not(TMP\_18) = 0 TMP\_19 = 1 not(TMP\_19) = 0 TMP\_20 = 0 not(TMP\_20) = 1 TMP\_21 = 3 TMP\_22 = 0 not(TMP\_22) = 1 TMP\_23 = 0 not(TMP\_23) = 1 TMP\_24 = 0 TMP\_25 = 1 not(TMP\_25) = 0 TMP\_26 = 1 not(TMP\_26) = 0 TMP\_27 = 2 TMP\_28 = 0 not(TMP\_28) = 1 TMP\_29 = 0 not(TMP\_29) = 1 TMP\_30 = 1 not(TMP\_30) = 0 TMP\_31 = 1 not(TMP\_31) = 0 TMP\_32 = 1 not(TMP\_32) = 0 TMP\_33 = 2 TMP\_34 = 1 not(TMP\_34) = 0 TMP\_35 = 1 not(TMP\_35) = 0 TMP\_36 = 1 not(TMP\_36) = 0 TMP\_37 = 0 not(TMP\_37) = 1 TMP\_38 = 3 TMP\_39 = 0 not(TMP\_39) = 1 TMP\_40 = 0 not(TMP\_40) = 1 TMP\_41 = 0 TMP\_42 = 1 not(TMP\_42) = 0 TMP\_43 = 1 not(TMP\_43) = 0 TMP\_44 = 2 TMP\_45 = 0 not(TMP\_45) = 1 TMP\_46 = 0 not(TMP\_46) = 1 TMP\_47 = 1 not(TMP\_47) = 0 TMP\_48 = 1 not(TMP\_48) = 0 TMP\_49 = 1 not(TMP\_49) = 0 TMP\_50 = 2 TMP\_51 = 0 not(TMP\_51) = 1 TMP\_52 = 1 not(TMP\_52) = 0 TMP\_53 = 1 not(TMP\_53) = 0 TMP\_54 = 1 not(TMP\_54) = 0 TMP\_55 = 3 TMP\_56 = 0 not(TMP\_56) = 1 TMP\_57 = 0 not(TMP\_57) = 1 TMP\_58 = 0 TMP\_59 = 1 not(TMP\_59) = 0 TMP\_60 = 1 not(TMP\_60) = 0 TMP\_61 = 2 TMP\_62 = 0 not(TMP\_62) = 1 TMP\_63 = 0 not(TMP\_63) = 1 TMP\_64 = 1 not(TMP\_64) = 0 TMP\_65 = 1 not(TMP\_65) = 0 TMP\_66 = 1 not(TMP\_66) = 0 TMP\_67 = 2 TMP\_68 = 0 not(TMP\_68) = 1 TMP\_69 = 1 not(TMP\_69) = 0 TMP\_70 = 1 not(TMP\_70) = 0 TMP\_71 = 1 not(TMP\_71) = 0 TMP\_72 = 3 TMP\_73 = 0 not(TMP\_73) = 1 TMP\_74 = 0 not(TMP\_74) = 1 TMP\_75 = 0 TMP\_76 = 1 not(TMP\_76) = 0 TMP\_77 = 1 not(TMP\_77) = 0 TMP\_78 = 2 TMP\_79 = 0 not(TMP\_79) = 1 TMP\_80 = 0 not(TMP\_80) = 1 TMP\_81 = 1 not(TMP\_81) = 0 TMP\_82 = 1 not(TMP\_82) = 0 TMP\_83 = 1 not(TMP\_83) = 0 TMP\_84 = 2 TMP\_85 = 1 not(TMP\_85) = 0 TMP\_86 = 1 not(TMP\_86) = 0 TMP\_87 = 0 not(TMP\_87) = 1 TMP\_88 = 1 not(TMP\_88) = 0 TMP\_89 = 3 TMP\_90 = 0 not(TMP\_90) = 1 TMP\_91 = 0 not(TMP\_91) = 1 TMP\_92 = 0 TMP\_93 = 1 not(TMP\_93) = 0 TMP\_94 = 1 not(TMP\_94) = 0 TMP\_95 = 2 TMP\_96 = 0 not(TMP\_96) = 1 TMP\_97 = 0 not(TMP\_97) = 1 TMP\_98 = 1 not(TMP\_98) = 0 TMP\_99 = 1 not(TMP\_99) = 0 TMP\_100 = 1 not(TMP\_100) = 0 TMP\_101 = 2 Area\_0 = 60 Distance\_0\_Rule\_0 = 30 Distance\_1\_Rule\_0 = 2 Area\_1 = 30 Distance\_0\_Rule\_1 = 30 Distance\_1\_Rule\_1 = 1 Area\_2 = 90 -(Rule\_2\_LB) = -30 Distance\_0\_Rule\_2 = 90 -(Rule\_2\_LB) = 0 Distance\_1\_Rule\_2 = 1 Area\_3 = 60 -(Rule\_3\_LB) = -60 Distance\_0\_Rule\_3 = 60 -(Rule\_3\_LB) = -1 Distance\_1\_Rule\_3 = 1 TMP\_102 = 240 .

- Solution #14 found. 14 Solutions, Resolution 0.098s, 36 Nodes (366.7 n/s), 40 Backtracks, 8 Fails, 0 Restarts

Rule\_2\_LB = 30 Rule\_2\_UB = 120 Rule\_2\_LB = 0 Rule\_2\_UB = 1 Rule\_3\_LB = 60 Rule\_3\_UB = 120 Rule\_3\_LB = 1 Rule\_3\_UB = 2 Overlaps\_0\_0 = 0 Overlaps\_0\_1 = 0 Overlaps\_0\_2 = 0 Overlaps\_0\_3 = 0 Overlaps\_1\_0 = 1 Overlaps\_1\_1 = 0 Overlaps\_1\_2 = 0 Overlaps\_1\_3 = 0 Overlaps\_2\_0 = 0 Overlaps\_2\_1 = 0 Overlaps\_2\_2 = 0 Overlaps\_2\_3 = 0 Overlaps\_3\_0 = 0 Overlaps\_3\_1 = 0 Overlaps\_3\_2 = 0 Overlaps\_3\_3 = 0 TMP\_0 = 0 not(TMP\_0) = 1 TMP\_1 = 1 not(TMP\_1) = 0 TMP\_2 = 1 not(TMP\_2) = 0 TMP\_3 = 1 not(TMP\_3) = 0 TMP\_4 = 3 TMP\_5 = 0 not(TMP\_5) = 1 TMP\_6 = 0 not(TMP\_6) = 1 TMP\_7 = 0 TMP\_8 = 1 not(TMP\_8) = 0 TMP\_9 = 1 not(TMP\_9) = 0 TMP\_10 = 2 TMP\_11 = 0 not(TMP\_11) = 1 TMP\_12 = 0 not(TMP\_12) = 1 TMP\_13 = 1 not(TMP\_13) = 0 TMP\_14 = 1 not(TMP\_14) = 0 TMP\_15 = 1 not(TMP\_15) = 0 TMP\_16 = 2 TMP\_17 = 1 not(TMP\_17) = 0 TMP\_18 = 1 not(TMP\_18) = 0 TMP\_19 = 1 not(TMP\_19) = 0 TMP\_20 = 0 not(TMP\_20) = 1 TMP\_21 = 3 TMP\_22 = 0 not(TMP\_22) = 1 TMP\_23 = 0 not(TMP\_23) = 1 TMP\_24 = 0 TMP\_25 = 1 not(TMP\_25) = 0 TMP\_26 = 1 not(TMP\_26) = 0 TMP\_27 = 2 TMP\_28 = 0 not(TMP\_28) = 1 TMP\_29 = 0 not(TMP\_29) = 1 TMP\_30 = 1 not(TMP\_30) = 0 TMP\_31 = 1 not(TMP\_31) = 0 TMP\_32 = 1 not(TMP\_32) = 0 TMP\_33 = 2 TMP\_34 = 1 not(TMP\_34) = 0 TMP\_35 = 1 not(TMP\_35) = 0 TMP\_36 = 1 not(TMP\_36) = 0 TMP\_37 = 0 not(TMP\_37) = 1 TMP\_38 = 3 TMP\_39 = 0 not(TMP\_39) = 1 TMP\_40 = 0 not(TMP\_40) = 1 TMP\_41 = 0 TMP\_42 = 1 not(TMP\_42) = 0 TMP\_43 = 1 not(TMP\_43) = 0 TMP\_44 = 2 TMP\_45 = 0 not(TMP\_45) = 1 TMP\_46 = 0 not(TMP\_46) = 1 TMP\_47 = 1 not(TMP\_47) = 0 TMP\_48 = 1 not(TMP\_48) = 0 TMP\_49 = 1 not(TMP\_49) = 0 TMP\_50 = 2 TMP\_51 = 0 not(TMP\_51) = 1 TMP\_52 = 1 not(TMP\_52) = 0 TMP\_53 = 1 not(TMP\_53) = 0 TMP\_54 = 1 not(TMP\_54) = 0 TMP\_55 = 3 TMP\_56 = 0 not(TMP\_56) = 1 TMP\_57 = 0 not(TMP\_57) = 1 TMP\_58 = 0 TMP\_59 = 1 not(TMP\_59) = 0 TMP\_60 = 1 not(TMP\_60) = 0 TMP\_61 = 2 TMP\_62 = 0 not(TMP\_62) = 1 TMP\_63 = 0 not(TMP\_63) = 1 TMP\_64 = 1 not(TMP\_64) = 0 TMP\_65 = 1 not(TMP\_65) = 0 TMP\_66 = 1 not(TMP\_66) = 0 TMP\_67 = 2 TMP\_68 = 0 not(TMP\_68) = 1 TMP\_69 = 1 not(TMP\_69) = 0 TMP\_70 = 1 not(TMP\_70) = 0 TMP\_71 = 1 not(TMP\_71) = 0 TMP\_72 = 3 TMP\_73 = 0 not(TMP\_73) = 1 TMP\_74 = 0 not(TMP\_74) = 1 TMP\_75 = 0 TMP\_76 = 1 not(TMP\_76) = 0 TMP\_77 = 1 not(TMP\_77) = 0 TMP\_78 = 2 TMP\_79 = 0 not(TMP\_79) = 1 TMP\_80 = 0 not(TMP\_80) = 1 TMP\_81 = 1 not(TMP\_81) = 0 TMP\_82 = 1 not(TMP\_82) = 0 TMP\_83 = 1 not(TMP\_83) = 0 TMP\_84 = 2 TMP\_85 = 1 not(TMP\_85) = 0 TMP\_86 = 1 not(TMP\_86) = 0 TMP\_87 = 0 not(TMP\_87) = 1 TMP\_88 = 1 not(TMP\_88) = 0 TMP\_89 = 3 TMP\_90 = 0 not(TMP\_90) = 1 TMP\_91 = 0 not(TMP\_91) = 1 TMP\_92 = 0 TMP\_93 = 1 not(TMP\_93) = 0 TMP\_94 = 1 not(TMP\_94) = 0 TMP\_95 = 2 TMP\_96 = 0 not(TMP\_96) = 1 TMP\_97 = 0 not(TMP\_97) = 1 TMP\_98 = 1 not(TMP\_98) = 0 TMP\_99 = 1 not(TMP\_99) = 0 TMP\_100 = 1 not(TMP\_100) = 0 TMP\_101 = 2 Area\_0 = 60 Distance\_0\_Rule\_0 = 30 Distance\_1\_Rule\_0 = 2 Area\_1 = 30 Distance\_0\_Rule\_1 = 30 Distance\_1\_Rule\_1 = 1 Area\_2 = 90 -(Rule\_2\_LB) = -30 Distance\_0\_Rule\_2 = 90 -(Rule\_2\_LB) = 0 Distance\_1\_Rule\_2 = 1 Area\_3 = 60 -(Rule\_3\_LB) = -60 Distance\_0\_Rule\_3 = 60 -(Rule\_3\_LB) = -1 Distance\_1\_Rule\_3 = 1 TMP\_102 = 240 .

- Solution #15 found. 15 Solutions, Resolution 0.100s, 38 Nodes (378.7 n/s), 42 Backtracks, 8 Fails, 0 Restarts

Rule\_2\_LB = 30 Rule\_2\_UB = 120 Rule\_2\_LB = 0 Rule\_2\_UB = 1 Rule\_3\_LB = 60 Rule\_3\_UB = 120 Rule\_3\_LB = 1 Rule\_3\_UB = 2 Overlaps\_0\_0 = 0 Overlaps\_0\_1 = 1 Overlaps\_0\_2 = 0 Overlaps\_0\_3 = 0 Overlaps\_1\_0 = 0 Overlaps\_1\_1 = 0 Overlaps\_1\_2 = 0 Overlaps\_1\_3 = 0 Overlaps\_2\_0 = 0 Overlaps\_2\_1 = 0 Overlaps\_2\_2 = 0 Overlaps\_2\_3 = 0 Overlaps\_3\_0 = 0 Overlaps\_3\_1 = 0 Overlaps\_3\_2 = 0 Overlaps\_3\_3 = 0 TMP\_0 = 0 not(TMP\_0) = 1 TMP\_1 = 1 not(TMP\_1) = 0 TMP\_2 = 1 not(TMP\_2) = 0 TMP\_3 = 1 not(TMP\_3) = 0 TMP\_4 = 3 TMP\_5 = 0 not(TMP\_5) = 1 TMP\_6 = 0 not(TMP\_6) = 1 TMP\_7 = 0 TMP\_8 = 1 not(TMP\_8) = 0 TMP\_9 = 1 not(TMP\_9) = 0 TMP\_10 = 2 TMP\_11 = 0 not(TMP\_11) = 1 TMP\_12 = 0 not(TMP\_12) = 1 TMP\_13 = 1 not(TMP\_13) = 0 TMP\_14 = 1 not(TMP\_14) = 0 TMP\_15 = 1 not(TMP\_15) = 0 TMP\_16 = 2 TMP\_17 = 1 not(TMP\_17) = 0 TMP\_18 = 1 not(TMP\_18) = 0 TMP\_19 = 1 not(TMP\_19) = 0 TMP\_20 = 0 not(TMP\_20) = 1 TMP\_21 = 3 TMP\_22 = 0 not(TMP\_22) = 1 TMP\_23 = 0 not(TMP\_23) = 1 TMP\_24 = 0 TMP\_25 = 1 not(TMP\_25) = 0 TMP\_26 = 1 not(TMP\_26) = 0 TMP\_27 = 2 TMP\_28 = 0 not(TMP\_28) = 1 TMP\_29 = 0 not(TMP\_29) = 1 TMP\_30 = 1 not(TMP\_30) = 0 TMP\_31 = 1 not(TMP\_31) = 0 TMP\_32 = 1 not(TMP\_32) = 0 TMP\_33 = 2 TMP\_34 = 1 not(TMP\_34) = 0 TMP\_35 = 1 not(TMP\_35) = 0 TMP\_36 = 1 not(TMP\_36) = 0 TMP\_37 = 0 not(TMP\_37) = 1 TMP\_38 = 3 TMP\_39 = 0 not(TMP\_39) = 1 TMP\_40 = 0 not(TMP\_40) = 1 TMP\_41 = 0 TMP\_42 = 1 not(TMP\_42) = 0 TMP\_43 = 1 not(TMP\_43) = 0 TMP\_44 = 2 TMP\_45 = 0 not(TMP\_45) = 1 TMP\_46 = 0 not(TMP\_46) = 1 TMP\_47 = 1 not(TMP\_47) = 0 TMP\_48 = 1 not(TMP\_48) = 0 TMP\_49 = 1 not(TMP\_49) = 0 TMP\_50 = 2 TMP\_51 = 0 not(TMP\_51) = 1 TMP\_52 = 1 not(TMP\_52) = 0 TMP\_53 = 1 not(TMP\_53) = 0 TMP\_54 = 1 not(TMP\_54) = 0 TMP\_55 = 3 TMP\_56 = 0 not(TMP\_56) = 1 TMP\_57 = 0 not(TMP\_57) = 1 TMP\_58 = 0 TMP\_59 = 1 not(TMP\_59) = 0 TMP\_60 = 1 not(TMP\_60) = 0 TMP\_61 = 2 TMP\_62 = 0 not(TMP\_62) = 1 TMP\_63 = 0 not(TMP\_63) = 1 TMP\_64 = 1 not(TMP\_64) = 0 TMP\_65 = 1 not(TMP\_65) = 0 TMP\_66 = 1 not(TMP\_66) = 0 TMP\_67 = 2 TMP\_68 = 0 not(TMP\_68) = 1 TMP\_69 = 1 not(TMP\_69) = 0 TMP\_70 = 1 not(TMP\_70) = 0 TMP\_71 = 1 not(TMP\_71) = 0 TMP\_72 = 3 TMP\_73 = 0 not(TMP\_73) = 1 TMP\_74 = 0 not(TMP\_74) = 1 TMP\_75 = 0 TMP\_76 = 1 not(TMP\_76) = 0 TMP\_77 = 1 not(TMP\_77) = 0 TMP\_78 = 2 TMP\_79 = 0 not(TMP\_79) = 1 TMP\_80 = 0 not(TMP\_80) = 1 TMP\_81 = 1 not(TMP\_81) = 0 TMP\_82 = 1 not(TMP\_82) = 0 TMP\_83 = 1 not(TMP\_83) = 0 TMP\_84 = 2 TMP\_85 = 1 not(TMP\_85) = 0 TMP\_86 = 1 not(TMP\_86) = 0 TMP\_87 = 0 not(TMP\_87) = 1 TMP\_88 = 1 not(TMP\_88) = 0 TMP\_89 = 3 TMP\_90 = 0 not(TMP\_90) = 1 TMP\_91 = 0 not(TMP\_91) = 1 TMP\_92 = 0 TMP\_93 = 1 not(TMP\_93) = 0 TMP\_94 = 1 not(TMP\_94) = 0 TMP\_95 = 2 TMP\_96 = 0 not(TMP\_96) = 1 TMP\_97 = 0 not(TMP\_97) = 1 TMP\_98 = 1 not(TMP\_98) = 0 TMP\_99 = 1 not(TMP\_99) = 0 TMP\_100 = 1 not(TMP\_100) = 0 TMP\_101 = 2 Area\_0 = 60 Distance\_0\_Rule\_0 = 30 Distance\_1\_Rule\_0 = 2 Area\_1 = 30 Distance\_0\_Rule\_1 = 30 Distance\_1\_Rule\_1 = 1 Area\_2 = 90 -(Rule\_2\_LB) = -30 Distance\_0\_Rule\_2 = 90 -(Rule\_2\_LB) = 0 Distance\_1\_Rule\_2 = 1 Area\_3 = 60 -(Rule\_3\_LB) = -60 Distance\_0\_Rule\_3 = 60 -(Rule\_3\_LB) = -1 Distance\_1\_Rule\_3 = 1 TMP\_102 = 240 .

- Solution #16 found. 16 Solutions, Resolution 0.104s, 39 Nodes (375.6 n/s), 43 Backtracks, 8 Fails, 0 Restarts

Rule\_2\_LB = 30 Rule\_2\_UB = 120 Rule\_2\_LB = 0 Rule\_2\_UB = 1 Rule\_3\_LB = 60 Rule\_3\_UB = 120 Rule\_3\_LB = 1 Rule\_3\_UB = 2 Overlaps\_0\_0 = 0 Overlaps\_0\_1 = 1 Overlaps\_0\_2 = 0 Overlaps\_0\_3 = 0 Overlaps\_1\_0 = 1 Overlaps\_1\_1 = 0 Overlaps\_1\_2 = 0 Overlaps\_1\_3 = 0 Overlaps\_2\_0 = 0 Overlaps\_2\_1 = 0 Overlaps\_2\_2 = 0 Overlaps\_2\_3 = 0 Overlaps\_3\_0 = 0 Overlaps\_3\_1 = 0 Overlaps\_3\_2 = 0 Overlaps\_3\_3 = 0 TMP\_0 = 0 not(TMP\_0) = 1 TMP\_1 = 1 not(TMP\_1) = 0 TMP\_2 = 1 not(TMP\_2) = 0 TMP\_3 = 1 not(TMP\_3) = 0 TMP\_4 = 3 TMP\_5 = 0 not(TMP\_5) = 1 TMP\_6 = 0 not(TMP\_6) = 1 TMP\_7 = 0 TMP\_8 = 1 not(TMP\_8) = 0 TMP\_9 = 1 not(TMP\_9) = 0 TMP\_10 = 2 TMP\_11 = 0 not(TMP\_11) = 1 TMP\_12 = 0 not(TMP\_12) = 1 TMP\_13 = 1 not(TMP\_13) = 0 TMP\_14 = 1 not(TMP\_14) = 0 TMP\_15 = 1 not(TMP\_15) = 0 TMP\_16 = 2 TMP\_17 = 1 not(TMP\_17) = 0 TMP\_18 = 1 not(TMP\_18) = 0 TMP\_19 = 1 not(TMP\_19) = 0 TMP\_20 = 0 not(TMP\_20) = 1 TMP\_21 = 3 TMP\_22 = 0 not(TMP\_22) = 1 TMP\_23 = 0 not(TMP\_23) = 1 TMP\_24 = 0 TMP\_25 = 1 not(TMP\_25) = 0 TMP\_26 = 1 not(TMP\_26) = 0 TMP\_27 = 2 TMP\_28 = 0 not(TMP\_28) = 1 TMP\_29 = 0 not(TMP\_29) = 1 TMP\_30 = 1 not(TMP\_30) = 0 TMP\_31 = 1 not(TMP\_31) = 0 TMP\_32 = 1 not(TMP\_32) = 0 TMP\_33 = 2 TMP\_34 = 1 not(TMP\_34) = 0 TMP\_35 = 1 not(TMP\_35) = 0 TMP\_36 = 1 not(TMP\_36) = 0 TMP\_37 = 0 not(TMP\_37) = 1 TMP\_38 = 3 TMP\_39 = 0 not(TMP\_39) = 1 TMP\_40 = 0 not(TMP\_40) = 1 TMP\_41 = 0 TMP\_42 = 1 not(TMP\_42) = 0 TMP\_43 = 1 not(TMP\_43) = 0 TMP\_44 = 2 TMP\_45 = 0 not(TMP\_45) = 1 TMP\_46 = 0 not(TMP\_46) = 1 TMP\_47 = 1 not(TMP\_47) = 0 TMP\_48 = 1 not(TMP\_48) = 0 TMP\_49 = 1 not(TMP\_49) = 0 TMP\_50 = 2 TMP\_51 = 0 not(TMP\_51) = 1 TMP\_52 = 1 not(TMP\_52) = 0 TMP\_53 = 1 not(TMP\_53) = 0 TMP\_54 = 1 not(TMP\_54) = 0 TMP\_55 = 3 TMP\_56 = 0 not(TMP\_56) = 1 TMP\_57 = 0 not(TMP\_57) = 1 TMP\_58 = 0 TMP\_59 = 1 not(TMP\_59) = 0 TMP\_60 = 1 not(TMP\_60) = 0 TMP\_61 = 2 TMP\_62 = 0 not(TMP\_62) = 1 TMP\_63 = 0 not(TMP\_63) = 1 TMP\_64 = 1 not(TMP\_64) = 0 TMP\_65 = 1 not(TMP\_65) = 0 TMP\_66 = 1 not(TMP\_66) = 0 TMP\_67 = 2 TMP\_68 = 0 not(TMP\_68) = 1 TMP\_69 = 1 not(TMP\_69) = 0 TMP\_70 = 1 not(TMP\_70) = 0 TMP\_71 = 1 not(TMP\_71) = 0 TMP\_72 = 3 TMP\_73 = 0 not(TMP\_73) = 1 TMP\_74 = 0 not(TMP\_74) = 1 TMP\_75 = 0 TMP\_76 = 1 not(TMP\_76) = 0 TMP\_77 = 1 not(TMP\_77) = 0 TMP\_78 = 2 TMP\_79 = 0 not(TMP\_79) = 1 TMP\_80 = 0 not(TMP\_80) = 1 TMP\_81 = 1 not(TMP\_81) = 0 TMP\_82 = 1 not(TMP\_82) = 0 TMP\_83 = 1 not(TMP\_83) = 0 TMP\_84 = 2 TMP\_85 = 1 not(TMP\_85) = 0 TMP\_86 = 1 not(TMP\_86) = 0 TMP\_87 = 0 not(TMP\_87) = 1 TMP\_88 = 1 not(TMP\_88) = 0 TMP\_89 = 3 TMP\_90 = 0 not(TMP\_90) = 1 TMP\_91 = 0 not(TMP\_91) = 1 TMP\_92 = 0 TMP\_93 = 1 not(TMP\_93) = 0 TMP\_94 = 1 not(TMP\_94) = 0 TMP\_95 = 2 TMP\_96 = 0 not(TMP\_96) = 1 TMP\_97 = 0 not(TMP\_97) = 1 TMP\_98 = 1 not(TMP\_98) = 0 TMP\_99 = 1 not(TMP\_99) = 0 TMP\_100 = 1 not(TMP\_100) = 0 TMP\_101 = 2 Area\_0 = 60 Distance\_0\_Rule\_0 = 30 Distance\_1\_Rule\_0 = 2 Area\_1 = 30 Distance\_0\_Rule\_1 = 30 Distance\_1\_Rule\_1 = 1 Area\_2 = 90 -(Rule\_2\_LB) = -30 Distance\_0\_Rule\_2 = 90 -(Rule\_2\_LB) = 0 Distance\_1\_Rule\_2 = 1 Area\_3 = 60 -(Rule\_3\_LB) = -60 Distance\_0\_Rule\_3 = 60 -(Rule\_3\_LB) = -1 Distance\_1\_Rule\_3 = 1 TMP\_102 = 240 .

- Complete search - 16 solution(s) found.

Solutions: 16

Building time : 0.153s

Initialisation : 0.000s

Initial propagation : 0.026s

Resolution : 0.108s

Nodes: 39 (360.5 n/s)

Backtracks: 47

Fails: 8

Restarts: 0

Max depth: 11

Memory: -2mb

Variables: 236

Constraints: 232

## Rules = 3 - Missing Rules = 1

- Solution #1 found. 1 Solutions, Resolution 0.022s, 7 Nodes (317.1 n/s), 0 Backtracks, 0 Fails, 0 Restarts

Rule\_3\_LB = 60 Rule\_3\_UB = 120 Rule\_3\_LB = 0 Rule\_3\_UB = 2 Overlaps\_0\_0 = 0 Overlaps\_0\_1 = 0 Overlaps\_0\_2 = 0 Overlaps\_0\_3 = 0 Overlaps\_1\_0 = 0 Overlaps\_1\_1 = 0 Overlaps\_1\_2 = 0 Overlaps\_1\_3 = 0 Overlaps\_2\_0 = 0 Overlaps\_2\_1 = 0 Overlaps\_2\_2 = 0 Overlaps\_2\_3 = 0 Overlaps\_3\_0 = 0 Overlaps\_3\_1 = 0 Overlaps\_3\_2 = 0 Overlaps\_3\_3 = 0 TMP\_0 = 0 not(TMP\_0) = 1 TMP\_1 = 1 not(TMP\_1) = 0 TMP\_2 = 1 not(TMP\_2) = 0 TMP\_3 = 1 not(TMP\_3) = 0 TMP\_4 = 3 TMP\_5 = 0 not(TMP\_5) = 1 TMP\_6 = 0 not(TMP\_6) = 1 TMP\_7 = 0 TMP\_8 = 1 not(TMP\_8) = 0 TMP\_9 = 1 not(TMP\_9) = 0 TMP\_10 = 2 TMP\_11 = 0 not(TMP\_11) = 1 TMP\_12 = 0 not(TMP\_12) = 1 TMP\_13 = 1 not(TMP\_13) = 0 TMP\_14 = 1 not(TMP\_14) = 0 TMP\_15 = 1 not(TMP\_15) = 0 TMP\_16 = 2 TMP\_17 = 0 not(TMP\_17) = 1 TMP\_18 = 1 not(TMP\_18) = 0 TMP\_19 = 1 not(TMP\_19) = 0 TMP\_20 = 1 not(TMP\_20) = 0 TMP\_21 = 3 TMP\_22 = 0 not(TMP\_22) = 1 TMP\_23 = 0 not(TMP\_23) = 1 TMP\_24 = 0 TMP\_25 = 1 not(TMP\_25) = 0 TMP\_26 = 1 not(TMP\_26) = 0 TMP\_27 = 2 TMP\_28 = 0 not(TMP\_28) = 1 TMP\_29 = 0 not(TMP\_29) = 1 TMP\_30 = 1 not(TMP\_30) = 0 TMP\_31 = 1 not(TMP\_31) = 0 TMP\_32 = 1 not(TMP\_32) = 0 TMP\_33 = 2 TMP\_34 = 0 not(TMP\_34) = 1 TMP\_35 = 1 not(TMP\_35) = 0 TMP\_36 = 1 not(TMP\_36) = 0 TMP\_37 = 1 not(TMP\_37) = 0 TMP\_38 = 3 TMP\_39 = 0 not(TMP\_39) = 1 TMP\_40 = 0 not(TMP\_40) = 1 TMP\_41 = 0 TMP\_42 = 1 not(TMP\_42) = 0 TMP\_43 = 1 not(TMP\_43) = 0 TMP\_44 = 2 TMP\_45 = 0 not(TMP\_45) = 1 TMP\_46 = 0 not(TMP\_46) = 1 TMP\_47 = 1 not(TMP\_47) = 0 TMP\_48 = 1 not(TMP\_48) = 0 TMP\_49 = 1 not(TMP\_49) = 0 TMP\_50 = 2 Area\_0 = 60 Distance\_0\_Rule\_0 = 30 Distance\_1\_Rule\_0 = 2 Area\_1 = 30 Distance\_0\_Rule\_1 = 30 Distance\_1\_Rule\_1 = 1 Area\_2 = 30 Distance\_0\_Rule\_2 = 30 Distance\_1\_Rule\_2 = 1 Area\_3 = 120 -(Rule\_3\_LB) = -60 Distance\_0\_Rule\_3 = 60 -(Rule\_3\_LB) = 0 Distance\_1\_Rule\_3 = 2 TMP\_51 = 240 .

- Solution #2 found. 2 Solutions, Resolution 0.029s, 8 Nodes (277.9 n/s), 1 Backtracks, 0 Fails, 0 Restarts

Rule\_3\_LB = 60 Rule\_3\_UB = 120 Rule\_3\_LB = 0 Rule\_3\_UB = 2 Overlaps\_0\_0 = 0 Overlaps\_0\_1 = 0 Overlaps\_0\_2 = 0 Overlaps\_0\_3 = 0 Overlaps\_1\_0 = 1 Overlaps\_1\_1 = 0 Overlaps\_1\_2 = 0 Overlaps\_1\_3 = 0 Overlaps\_2\_0 = 0 Overlaps\_2\_1 = 0 Overlaps\_2\_2 = 0 Overlaps\_2\_3 = 0 Overlaps\_3\_0 = 0 Overlaps\_3\_1 = 0 Overlaps\_3\_2 = 0 Overlaps\_3\_3 = 0 TMP\_0 = 0 not(TMP\_0) = 1 TMP\_1 = 1 not(TMP\_1) = 0 TMP\_2 = 1 not(TMP\_2) = 0 TMP\_3 = 1 not(TMP\_3) = 0 TMP\_4 = 3 TMP\_5 = 0 not(TMP\_5) = 1 TMP\_6 = 0 not(TMP\_6) = 1 TMP\_7 = 0 TMP\_8 = 1 not(TMP\_8) = 0 TMP\_9 = 1 not(TMP\_9) = 0 TMP\_10 = 2 TMP\_11 = 0 not(TMP\_11) = 1 TMP\_12 = 0 not(TMP\_12) = 1 TMP\_13 = 1 not(TMP\_13) = 0 TMP\_14 = 1 not(TMP\_14) = 0 TMP\_15 = 1 not(TMP\_15) = 0 TMP\_16 = 2 TMP\_17 = 0 not(TMP\_17) = 1 TMP\_18 = 1 not(TMP\_18) = 0 TMP\_19 = 1 not(TMP\_19) = 0 TMP\_20 = 1 not(TMP\_20) = 0 TMP\_21 = 3 TMP\_22 = 0 not(TMP\_22) = 1 TMP\_23 = 0 not(TMP\_23) = 1 TMP\_24 = 0 TMP\_25 = 1 not(TMP\_25) = 0 TMP\_26 = 1 not(TMP\_26) = 0 TMP\_27 = 2 TMP\_28 = 0 not(TMP\_28) = 1 TMP\_29 = 0 not(TMP\_29) = 1 TMP\_30 = 1 not(TMP\_30) = 0 TMP\_31 = 1 not(TMP\_31) = 0 TMP\_32 = 1 not(TMP\_32) = 0 TMP\_33 = 2 TMP\_34 = 0 not(TMP\_34) = 1 TMP\_35 = 1 not(TMP\_35) = 0 TMP\_36 = 1 not(TMP\_36) = 0 TMP\_37 = 1 not(TMP\_37) = 0 TMP\_38 = 3 TMP\_39 = 0 not(TMP\_39) = 1 TMP\_40 = 0 not(TMP\_40) = 1 TMP\_41 = 0 TMP\_42 = 1 not(TMP\_42) = 0 TMP\_43 = 1 not(TMP\_43) = 0 TMP\_44 = 2 TMP\_45 = 0 not(TMP\_45) = 1 TMP\_46 = 0 not(TMP\_46) = 1 TMP\_47 = 1 not(TMP\_47) = 0 TMP\_48 = 1 not(TMP\_48) = 0 TMP\_49 = 1 not(TMP\_49) = 0 TMP\_50 = 2 Area\_0 = 60 Distance\_0\_Rule\_0 = 30 Distance\_1\_Rule\_0 = 2 Area\_1 = 30 Distance\_0\_Rule\_1 = 30 Distance\_1\_Rule\_1 = 1 Area\_2 = 30 Distance\_0\_Rule\_2 = 30 Distance\_1\_Rule\_2 = 1 Area\_3 = 120 -(Rule\_3\_LB) = -60 Distance\_0\_Rule\_3 = 60 -(Rule\_3\_LB) = 0 Distance\_1\_Rule\_3 = 2 TMP\_51 = 240 .

- Solution #3 found. 3 Solutions, Resolution 0.031s, 10 Nodes (321.3 n/s), 3 Backtracks, 0 Fails, 0 Restarts

Rule\_3\_LB = 60 Rule\_3\_UB = 120 Rule\_3\_LB = 0 Rule\_3\_UB = 2 Overlaps\_0\_0 = 0 Overlaps\_0\_1 = 0 Overlaps\_0\_2 = 0 Overlaps\_0\_3 = 0 Overlaps\_1\_0 = 0 Overlaps\_1\_1 = 0 Overlaps\_1\_2 = 1 Overlaps\_1\_3 = 0 Overlaps\_2\_0 = 0 Overlaps\_2\_1 = 0 Overlaps\_2\_2 = 0 Overlaps\_2\_3 = 0 Overlaps\_3\_0 = 0 Overlaps\_3\_1 = 0 Overlaps\_3\_2 = 0 Overlaps\_3\_3 = 0 TMP\_0 = 0 not(TMP\_0) = 1 TMP\_1 = 1 not(TMP\_1) = 0 TMP\_2 = 1 not(TMP\_2) = 0 TMP\_3 = 1 not(TMP\_3) = 0 TMP\_4 = 3 TMP\_5 = 0 not(TMP\_5) = 1 TMP\_6 = 0 not(TMP\_6) = 1 TMP\_7 = 0 TMP\_8 = 1 not(TMP\_8) = 0 TMP\_9 = 1 not(TMP\_9) = 0 TMP\_10 = 2 TMP\_11 = 0 not(TMP\_11) = 1 TMP\_12 = 0 not(TMP\_12) = 1 TMP\_13 = 1 not(TMP\_13) = 0 TMP\_14 = 1 not(TMP\_14) = 0 TMP\_15 = 1 not(TMP\_15) = 0 TMP\_16 = 2 TMP\_17 = 0 not(TMP\_17) = 1 TMP\_18 = 1 not(TMP\_18) = 0 TMP\_19 = 1 not(TMP\_19) = 0 TMP\_20 = 1 not(TMP\_20) = 0 TMP\_21 = 3 TMP\_22 = 0 not(TMP\_22) = 1 TMP\_23 = 0 not(TMP\_23) = 1 TMP\_24 = 0 TMP\_25 = 1 not(TMP\_25) = 0 TMP\_26 = 1 not(TMP\_26) = 0 TMP\_27 = 2 TMP\_28 = 0 not(TMP\_28) = 1 TMP\_29 = 0 not(TMP\_29) = 1 TMP\_30 = 1 not(TMP\_30) = 0 TMP\_31 = 1 not(TMP\_31) = 0 TMP\_32 = 1 not(TMP\_32) = 0 TMP\_33 = 2 TMP\_34 = 0 not(TMP\_34) = 1 TMP\_35 = 1 not(TMP\_35) = 0 TMP\_36 = 1 not(TMP\_36) = 0 TMP\_37 = 1 not(TMP\_37) = 0 TMP\_38 = 3 TMP\_39 = 0 not(TMP\_39) = 1 TMP\_40 = 0 not(TMP\_40) = 1 TMP\_41 = 0 TMP\_42 = 1 not(TMP\_42) = 0 TMP\_43 = 1 not(TMP\_43) = 0 TMP\_44 = 2 TMP\_45 = 0 not(TMP\_45) = 1 TMP\_46 = 0 not(TMP\_46) = 1 TMP\_47 = 1 not(TMP\_47) = 0 TMP\_48 = 1 not(TMP\_48) = 0 TMP\_49 = 1 not(TMP\_49) = 0 TMP\_50 = 2 Area\_0 = 60 Distance\_0\_Rule\_0 = 30 Distance\_1\_Rule\_0 = 2 Area\_1 = 30 Distance\_0\_Rule\_1 = 30 Distance\_1\_Rule\_1 = 1 Area\_2 = 30 Distance\_0\_Rule\_2 = 30 Distance\_1\_Rule\_2 = 1 Area\_3 = 120 -(Rule\_3\_LB) = -60 Distance\_0\_Rule\_3 = 60 -(Rule\_3\_LB) = 0 Distance\_1\_Rule\_3 = 2 TMP\_51 = 240 .

- Solution #4 found. 4 Solutions, Resolution 0.033s, 11 Nodes (331.7 n/s), 4 Backtracks, 0 Fails, 0 Restarts

Rule\_3\_LB = 60 Rule\_3\_UB = 120 Rule\_3\_LB = 0 Rule\_3\_UB = 2 Overlaps\_0\_0 = 0 Overlaps\_0\_1 = 0 Overlaps\_0\_2 = 0 Overlaps\_0\_3 = 0 Overlaps\_1\_0 = 1 Overlaps\_1\_1 = 0 Overlaps\_1\_2 = 1 Overlaps\_1\_3 = 0 Overlaps\_2\_0 = 0 Overlaps\_2\_1 = 0 Overlaps\_2\_2 = 0 Overlaps\_2\_3 = 0 Overlaps\_3\_0 = 0 Overlaps\_3\_1 = 0 Overlaps\_3\_2 = 0 Overlaps\_3\_3 = 0 TMP\_0 = 0 not(TMP\_0) = 1 TMP\_1 = 1 not(TMP\_1) = 0 TMP\_2 = 1 not(TMP\_2) = 0 TMP\_3 = 1 not(TMP\_3) = 0 TMP\_4 = 3 TMP\_5 = 0 not(TMP\_5) = 1 TMP\_6 = 0 not(TMP\_6) = 1 TMP\_7 = 0 TMP\_8 = 1 not(TMP\_8) = 0 TMP\_9 = 1 not(TMP\_9) = 0 TMP\_10 = 2 TMP\_11 = 0 not(TMP\_11) = 1 TMP\_12 = 0 not(TMP\_12) = 1 TMP\_13 = 1 not(TMP\_13) = 0 TMP\_14 = 1 not(TMP\_14) = 0 TMP\_15 = 1 not(TMP\_15) = 0 TMP\_16 = 2 TMP\_17 = 0 not(TMP\_17) = 1 TMP\_18 = 1 not(TMP\_18) = 0 TMP\_19 = 1 not(TMP\_19) = 0 TMP\_20 = 1 not(TMP\_20) = 0 TMP\_21 = 3 TMP\_22 = 0 not(TMP\_22) = 1 TMP\_23 = 0 not(TMP\_23) = 1 TMP\_24 = 0 TMP\_25 = 1 not(TMP\_25) = 0 TMP\_26 = 1 not(TMP\_26) = 0 TMP\_27 = 2 TMP\_28 = 0 not(TMP\_28) = 1 TMP\_29 = 0 not(TMP\_29) = 1 TMP\_30 = 1 not(TMP\_30) = 0 TMP\_31 = 1 not(TMP\_31) = 0 TMP\_32 = 1 not(TMP\_32) = 0 TMP\_33 = 2 TMP\_34 = 0 not(TMP\_34) = 1 TMP\_35 = 1 not(TMP\_35) = 0 TMP\_36 = 1 not(TMP\_36) = 0 TMP\_37 = 1 not(TMP\_37) = 0 TMP\_38 = 3 TMP\_39 = 0 not(TMP\_39) = 1 TMP\_40 = 0 not(TMP\_40) = 1 TMP\_41 = 0 TMP\_42 = 1 not(TMP\_42) = 0 TMP\_43 = 1 not(TMP\_43) = 0 TMP\_44 = 2 TMP\_45 = 0 not(TMP\_45) = 1 TMP\_46 = 0 not(TMP\_46) = 1 TMP\_47 = 1 not(TMP\_47) = 0 TMP\_48 = 1 not(TMP\_48) = 0 TMP\_49 = 1 not(TMP\_49) = 0 TMP\_50 = 2 Area\_0 = 60 Distance\_0\_Rule\_0 = 30 Distance\_1\_Rule\_0 = 2 Area\_1 = 30 Distance\_0\_Rule\_1 = 30 Distance\_1\_Rule\_1 = 1 Area\_2 = 30 Distance\_0\_Rule\_2 = 30 Distance\_1\_Rule\_2 = 1 Area\_3 = 120 -(Rule\_3\_LB) = -60 Distance\_0\_Rule\_3 = 60 -(Rule\_3\_LB) = 0 Distance\_1\_Rule\_3 = 2 TMP\_51 = 240 .

- Solution #5 found. 5 Solutions, Resolution 0.035s, 14 Nodes (396.4 n/s), 7 Backtracks, 0 Fails, 0 Restarts

Rule\_3\_LB = 60 Rule\_3\_UB = 120 Rule\_3\_LB = 0 Rule\_3\_UB = 2 Overlaps\_0\_0 = 0 Overlaps\_0\_1 = 0 Overlaps\_0\_2 = 0 Overlaps\_0\_3 = 0 Overlaps\_1\_0 = 0 Overlaps\_1\_1 = 0 Overlaps\_1\_2 = 0 Overlaps\_1\_3 = 0 Overlaps\_2\_0 = 0 Overlaps\_2\_1 = 1 Overlaps\_2\_2 = 0 Overlaps\_2\_3 = 0 Overlaps\_3\_0 = 0 Overlaps\_3\_1 = 0 Overlaps\_3\_2 = 0 Overlaps\_3\_3 = 0 TMP\_0 = 0 not(TMP\_0) = 1 TMP\_1 = 1 not(TMP\_1) = 0 TMP\_2 = 1 not(TMP\_2) = 0 TMP\_3 = 1 not(TMP\_3) = 0 TMP\_4 = 3 TMP\_5 = 0 not(TMP\_5) = 1 TMP\_6 = 0 not(TMP\_6) = 1 TMP\_7 = 0 TMP\_8 = 1 not(TMP\_8) = 0 TMP\_9 = 1 not(TMP\_9) = 0 TMP\_10 = 2 TMP\_11 = 0 not(TMP\_11) = 1 TMP\_12 = 0 not(TMP\_12) = 1 TMP\_13 = 1 not(TMP\_13) = 0 TMP\_14 = 1 not(TMP\_14) = 0 TMP\_15 = 1 not(TMP\_15) = 0 TMP\_16 = 2 TMP\_17 = 0 not(TMP\_17) = 1 TMP\_18 = 1 not(TMP\_18) = 0 TMP\_19 = 1 not(TMP\_19) = 0 TMP\_20 = 1 not(TMP\_20) = 0 TMP\_21 = 3 TMP\_22 = 0 not(TMP\_22) = 1 TMP\_23 = 0 not(TMP\_23) = 1 TMP\_24 = 0 TMP\_25 = 1 not(TMP\_25) = 0 TMP\_26 = 1 not(TMP\_26) = 0 TMP\_27 = 2 TMP\_28 = 0 not(TMP\_28) = 1 TMP\_29 = 0 not(TMP\_29) = 1 TMP\_30 = 1 not(TMP\_30) = 0 TMP\_31 = 1 not(TMP\_31) = 0 TMP\_32 = 1 not(TMP\_32) = 0 TMP\_33 = 2 TMP\_34 = 0 not(TMP\_34) = 1 TMP\_35 = 1 not(TMP\_35) = 0 TMP\_36 = 1 not(TMP\_36) = 0 TMP\_37 = 1 not(TMP\_37) = 0 TMP\_38 = 3 TMP\_39 = 0 not(TMP\_39) = 1 TMP\_40 = 0 not(TMP\_40) = 1 TMP\_41 = 0 TMP\_42 = 1 not(TMP\_42) = 0 TMP\_43 = 1 not(TMP\_43) = 0 TMP\_44 = 2 TMP\_45 = 0 not(TMP\_45) = 1 TMP\_46 = 0 not(TMP\_46) = 1 TMP\_47 = 1 not(TMP\_47) = 0 TMP\_48 = 1 not(TMP\_48) = 0 TMP\_49 = 1 not(TMP\_49) = 0 TMP\_50 = 2 Area\_0 = 60 Distance\_0\_Rule\_0 = 30 Distance\_1\_Rule\_0 = 2 Area\_1 = 30 Distance\_0\_Rule\_1 = 30 Distance\_1\_Rule\_1 = 1 Area\_2 = 30 Distance\_0\_Rule\_2 = 30 Distance\_1\_Rule\_2 = 1 Area\_3 = 120 -(Rule\_3\_LB) = -60 Distance\_0\_Rule\_3 = 60 -(Rule\_3\_LB) = 0 Distance\_1\_Rule\_3 = 2 TMP\_51 = 240 .

- Solution #6 found. 6 Solutions, Resolution 0.037s, 15 Nodes (405.0 n/s), 8 Backtracks, 0 Fails, 0 Restarts

Rule\_3\_LB = 60 Rule\_3\_UB = 120 Rule\_3\_LB = 0 Rule\_3\_UB = 2 Overlaps\_0\_0 = 0 Overlaps\_0\_1 = 0 Overlaps\_0\_2 = 0 Overlaps\_0\_3 = 0 Overlaps\_1\_0 = 0 Overlaps\_1\_1 = 0 Overlaps\_1\_2 = 1 Overlaps\_1\_3 = 0 Overlaps\_2\_0 = 0 Overlaps\_2\_1 = 1 Overlaps\_2\_2 = 0 Overlaps\_2\_3 = 0 Overlaps\_3\_0 = 0 Overlaps\_3\_1 = 0 Overlaps\_3\_2 = 0 Overlaps\_3\_3 = 0 TMP\_0 = 0 not(TMP\_0) = 1 TMP\_1 = 1 not(TMP\_1) = 0 TMP\_2 = 1 not(TMP\_2) = 0 TMP\_3 = 1 not(TMP\_3) = 0 TMP\_4 = 3 TMP\_5 = 0 not(TMP\_5) = 1 TMP\_6 = 0 not(TMP\_6) = 1 TMP\_7 = 0 TMP\_8 = 1 not(TMP\_8) = 0 TMP\_9 = 1 not(TMP\_9) = 0 TMP\_10 = 2 TMP\_11 = 0 not(TMP\_11) = 1 TMP\_12 = 0 not(TMP\_12) = 1 TMP\_13 = 1 not(TMP\_13) = 0 TMP\_14 = 1 not(TMP\_14) = 0 TMP\_15 = 1 not(TMP\_15) = 0 TMP\_16 = 2 TMP\_17 = 0 not(TMP\_17) = 1 TMP\_18 = 1 not(TMP\_18) = 0 TMP\_19 = 1 not(TMP\_19) = 0 TMP\_20 = 1 not(TMP\_20) = 0 TMP\_21 = 3 TMP\_22 = 0 not(TMP\_22) = 1 TMP\_23 = 0 not(TMP\_23) = 1 TMP\_24 = 0 TMP\_25 = 1 not(TMP\_25) = 0 TMP\_26 = 1 not(TMP\_26) = 0 TMP\_27 = 2 TMP\_28 = 0 not(TMP\_28) = 1 TMP\_29 = 0 not(TMP\_29) = 1 TMP\_30 = 1 not(TMP\_30) = 0 TMP\_31 = 1 not(TMP\_31) = 0 TMP\_32 = 1 not(TMP\_32) = 0 TMP\_33 = 2 TMP\_34 = 0 not(TMP\_34) = 1 TMP\_35 = 1 not(TMP\_35) = 0 TMP\_36 = 1 not(TMP\_36) = 0 TMP\_37 = 1 not(TMP\_37) = 0 TMP\_38 = 3 TMP\_39 = 0 not(TMP\_39) = 1 TMP\_40 = 0 not(TMP\_40) = 1 TMP\_41 = 0 TMP\_42 = 1 not(TMP\_42) = 0 TMP\_43 = 1 not(TMP\_43) = 0 TMP\_44 = 2 TMP\_45 = 0 not(TMP\_45) = 1 TMP\_46 = 0 not(TMP\_46) = 1 TMP\_47 = 1 not(TMP\_47) = 0 TMP\_48 = 1 not(TMP\_48) = 0 TMP\_49 = 1 not(TMP\_49) = 0 TMP\_50 = 2 Area\_0 = 60 Distance\_0\_Rule\_0 = 30 Distance\_1\_Rule\_0 = 2 Area\_1 = 30 Distance\_0\_Rule\_1 = 30 Distance\_1\_Rule\_1 = 1 Area\_2 = 30 Distance\_0\_Rule\_2 = 30 Distance\_1\_Rule\_2 = 1 Area\_3 = 120 -(Rule\_3\_LB) = -60 Distance\_0\_Rule\_3 = 60 -(Rule\_3\_LB) = 0 Distance\_1\_Rule\_3 = 2 TMP\_51 = 240 .

- Solution #7 found. 7 Solutions, Resolution 0.039s, 17 Nodes (438.5 n/s), 10 Backtracks, 0 Fails, 0 Restarts

Rule\_3\_LB = 60 Rule\_3\_UB = 120 Rule\_3\_LB = 0 Rule\_3\_UB = 2 Overlaps\_0\_0 = 0 Overlaps\_0\_1 = 0 Overlaps\_0\_2 = 0 Overlaps\_0\_3 = 0 Overlaps\_1\_0 = 1 Overlaps\_1\_1 = 0 Overlaps\_1\_2 = 0 Overlaps\_1\_3 = 0 Overlaps\_2\_0 = 0 Overlaps\_2\_1 = 1 Overlaps\_2\_2 = 0 Overlaps\_2\_3 = 0 Overlaps\_3\_0 = 0 Overlaps\_3\_1 = 0 Overlaps\_3\_2 = 0 Overlaps\_3\_3 = 0 TMP\_0 = 0 not(TMP\_0) = 1 TMP\_1 = 1 not(TMP\_1) = 0 TMP\_2 = 1 not(TMP\_2) = 0 TMP\_3 = 1 not(TMP\_3) = 0 TMP\_4 = 3 TMP\_5 = 0 not(TMP\_5) = 1 TMP\_6 = 0 not(TMP\_6) = 1 TMP\_7 = 0 TMP\_8 = 1 not(TMP\_8) = 0 TMP\_9 = 1 not(TMP\_9) = 0 TMP\_10 = 2 TMP\_11 = 0 not(TMP\_11) = 1 TMP\_12 = 0 not(TMP\_12) = 1 TMP\_13 = 1 not(TMP\_13) = 0 TMP\_14 = 1 not(TMP\_14) = 0 TMP\_15 = 1 not(TMP\_15) = 0 TMP\_16 = 2 TMP\_17 = 0 not(TMP\_17) = 1 TMP\_18 = 1 not(TMP\_18) = 0 TMP\_19 = 1 not(TMP\_19) = 0 TMP\_20 = 1 not(TMP\_20) = 0 TMP\_21 = 3 TMP\_22 = 0 not(TMP\_22) = 1 TMP\_23 = 0 not(TMP\_23) = 1 TMP\_24 = 0 TMP\_25 = 1 not(TMP\_25) = 0 TMP\_26 = 1 not(TMP\_26) = 0 TMP\_27 = 2 TMP\_28 = 0 not(TMP\_28) = 1 TMP\_29 = 0 not(TMP\_29) = 1 TMP\_30 = 1 not(TMP\_30) = 0 TMP\_31 = 1 not(TMP\_31) = 0 TMP\_32 = 1 not(TMP\_32) = 0 TMP\_33 = 2 TMP\_34 = 0 not(TMP\_34) = 1 TMP\_35 = 1 not(TMP\_35) = 0 TMP\_36 = 1 not(TMP\_36) = 0 TMP\_37 = 1 not(TMP\_37) = 0 TMP\_38 = 3 TMP\_39 = 0 not(TMP\_39) = 1 TMP\_40 = 0 not(TMP\_40) = 1 TMP\_41 = 0 TMP\_42 = 1 not(TMP\_42) = 0 TMP\_43 = 1 not(TMP\_43) = 0 TMP\_44 = 2 TMP\_45 = 0 not(TMP\_45) = 1 TMP\_46 = 0 not(TMP\_46) = 1 TMP\_47 = 1 not(TMP\_47) = 0 TMP\_48 = 1 not(TMP\_48) = 0 TMP\_49 = 1 not(TMP\_49) = 0 TMP\_50 = 2 Area\_0 = 60 Distance\_0\_Rule\_0 = 30 Distance\_1\_Rule\_0 = 2 Area\_1 = 30 Distance\_0\_Rule\_1 = 30 Distance\_1\_Rule\_1 = 1 Area\_2 = 30 Distance\_0\_Rule\_2 = 30 Distance\_1\_Rule\_2 = 1 Area\_3 = 120 -(Rule\_3\_LB) = -60 Distance\_0\_Rule\_3 = 60 -(Rule\_3\_LB) = 0 Distance\_1\_Rule\_3 = 2 TMP\_51 = 240 .

- Solution #8 found. 8 Solutions, Resolution 0.040s, 18 Nodes (445.4 n/s), 11 Backtracks, 0 Fails, 0 Restarts

Rule\_3\_LB = 60 Rule\_3\_UB = 120 Rule\_3\_LB = 0 Rule\_3\_UB = 2 Overlaps\_0\_0 = 0 Overlaps\_0\_1 = 0 Overlaps\_0\_2 = 0 Overlaps\_0\_3 = 0 Overlaps\_1\_0 = 1 Overlaps\_1\_1 = 0 Overlaps\_1\_2 = 1 Overlaps\_1\_3 = 0 Overlaps\_2\_0 = 0 Overlaps\_2\_1 = 1 Overlaps\_2\_2 = 0 Overlaps\_2\_3 = 0 Overlaps\_3\_0 = 0 Overlaps\_3\_1 = 0 Overlaps\_3\_2 = 0 Overlaps\_3\_3 = 0 TMP\_0 = 0 not(TMP\_0) = 1 TMP\_1 = 1 not(TMP\_1) = 0 TMP\_2 = 1 not(TMP\_2) = 0 TMP\_3 = 1 not(TMP\_3) = 0 TMP\_4 = 3 TMP\_5 = 0 not(TMP\_5) = 1 TMP\_6 = 0 not(TMP\_6) = 1 TMP\_7 = 0 TMP\_8 = 1 not(TMP\_8) = 0 TMP\_9 = 1 not(TMP\_9) = 0 TMP\_10 = 2 TMP\_11 = 0 not(TMP\_11) = 1 TMP\_12 = 0 not(TMP\_12) = 1 TMP\_13 = 1 not(TMP\_13) = 0 TMP\_14 = 1 not(TMP\_14) = 0 TMP\_15 = 1 not(TMP\_15) = 0 TMP\_16 = 2 TMP\_17 = 0 not(TMP\_17) = 1 TMP\_18 = 1 not(TMP\_18) = 0 TMP\_19 = 1 not(TMP\_19) = 0 TMP\_20 = 1 not(TMP\_20) = 0 TMP\_21 = 3 TMP\_22 = 0 not(TMP\_22) = 1 TMP\_23 = 0 not(TMP\_23) = 1 TMP\_24 = 0 TMP\_25 = 1 not(TMP\_25) = 0 TMP\_26 = 1 not(TMP\_26) = 0 TMP\_27 = 2 TMP\_28 = 0 not(TMP\_28) = 1 TMP\_29 = 0 not(TMP\_29) = 1 TMP\_30 = 1 not(TMP\_30) = 0 TMP\_31 = 1 not(TMP\_31) = 0 TMP\_32 = 1 not(TMP\_32) = 0 TMP\_33 = 2 TMP\_34 = 0 not(TMP\_34) = 1 TMP\_35 = 1 not(TMP\_35) = 0 TMP\_36 = 1 not(TMP\_36) = 0 TMP\_37 = 1 not(TMP\_37) = 0 TMP\_38 = 3 TMP\_39 = 0 not(TMP\_39) = 1 TMP\_40 = 0 not(TMP\_40) = 1 TMP\_41 = 0 TMP\_42 = 1 not(TMP\_42) = 0 TMP\_43 = 1 not(TMP\_43) = 0 TMP\_44 = 2 TMP\_45 = 0 not(TMP\_45) = 1 TMP\_46 = 0 not(TMP\_46) = 1 TMP\_47 = 1 not(TMP\_47) = 0 TMP\_48 = 1 not(TMP\_48) = 0 TMP\_49 = 1 not(TMP\_49) = 0 TMP\_50 = 2 Area\_0 = 60 Distance\_0\_Rule\_0 = 30 Distance\_1\_Rule\_0 = 2 Area\_1 = 30 Distance\_0\_Rule\_1 = 30 Distance\_1\_Rule\_1 = 1 Area\_2 = 30 Distance\_0\_Rule\_2 = 30 Distance\_1\_Rule\_2 = 1 Area\_3 = 120 -(Rule\_3\_LB) = -60 Distance\_0\_Rule\_3 = 60 -(Rule\_3\_LB) = 0 Distance\_1\_Rule\_3 = 2 TMP\_51 = 240 .

- Solution #9 found. 9 Solutions, Resolution 0.042s, 22 Nodes (520.2 n/s), 15 Backtracks, 0 Fails, 0 Restarts

Rule\_3\_LB = 60 Rule\_3\_UB = 120 Rule\_3\_LB = 0 Rule\_3\_UB = 2 Overlaps\_0\_0 = 0 Overlaps\_0\_1 = 0 Overlaps\_0\_2 = 1 Overlaps\_0\_3 = 0 Overlaps\_1\_0 = 0 Overlaps\_1\_1 = 0 Overlaps\_1\_2 = 0 Overlaps\_1\_3 = 0 Overlaps\_2\_0 = 0 Overlaps\_2\_1 = 0 Overlaps\_2\_2 = 0 Overlaps\_2\_3 = 0 Overlaps\_3\_0 = 0 Overlaps\_3\_1 = 0 Overlaps\_3\_2 = 0 Overlaps\_3\_3 = 0 TMP\_0 = 0 not(TMP\_0) = 1 TMP\_1 = 1 not(TMP\_1) = 0 TMP\_2 = 1 not(TMP\_2) = 0 TMP\_3 = 1 not(TMP\_3) = 0 TMP\_4 = 3 TMP\_5 = 0 not(TMP\_5) = 1 TMP\_6 = 0 not(TMP\_6) = 1 TMP\_7 = 0 TMP\_8 = 1 not(TMP\_8) = 0 TMP\_9 = 1 not(TMP\_9) = 0 TMP\_10 = 2 TMP\_11 = 0 not(TMP\_11) = 1 TMP\_12 = 0 not(TMP\_12) = 1 TMP\_13 = 1 not(TMP\_13) = 0 TMP\_14 = 1 not(TMP\_14) = 0 TMP\_15 = 1 not(TMP\_15) = 0 TMP\_16 = 2 TMP\_17 = 0 not(TMP\_17) = 1 TMP\_18 = 1 not(TMP\_18) = 0 TMP\_19 = 1 not(TMP\_19) = 0 TMP\_20 = 1 not(TMP\_20) = 0 TMP\_21 = 3 TMP\_22 = 0 not(TMP\_22) = 1 TMP\_23 = 0 not(TMP\_23) = 1 TMP\_24 = 0 TMP\_25 = 1 not(TMP\_25) = 0 TMP\_26 = 1 not(TMP\_26) = 0 TMP\_27 = 2 TMP\_28 = 0 not(TMP\_28) = 1 TMP\_29 = 0 not(TMP\_29) = 1 TMP\_30 = 1 not(TMP\_30) = 0 TMP\_31 = 1 not(TMP\_31) = 0 TMP\_32 = 1 not(TMP\_32) = 0 TMP\_33 = 2 TMP\_34 = 0 not(TMP\_34) = 1 TMP\_35 = 1 not(TMP\_35) = 0 TMP\_36 = 1 not(TMP\_36) = 0 TMP\_37 = 1 not(TMP\_37) = 0 TMP\_38 = 3 TMP\_39 = 0 not(TMP\_39) = 1 TMP\_40 = 0 not(TMP\_40) = 1 TMP\_41 = 0 TMP\_42 = 1 not(TMP\_42) = 0 TMP\_43 = 1 not(TMP\_43) = 0 TMP\_44 = 2 TMP\_45 = 0 not(TMP\_45) = 1 TMP\_46 = 0 not(TMP\_46) = 1 TMP\_47 = 1 not(TMP\_47) = 0 TMP\_48 = 1 not(TMP\_48) = 0 TMP\_49 = 1 not(TMP\_49) = 0 TMP\_50 = 2 Area\_0 = 60 Distance\_0\_Rule\_0 = 30 Distance\_1\_Rule\_0 = 2 Area\_1 = 30 Distance\_0\_Rule\_1 = 30 Distance\_1\_Rule\_1 = 1 Area\_2 = 30 Distance\_0\_Rule\_2 = 30 Distance\_1\_Rule\_2 = 1 Area\_3 = 120 -(Rule\_3\_LB) = -60 Distance\_0\_Rule\_3 = 60 -(Rule\_3\_LB) = 0 Distance\_1\_Rule\_3 = 2 TMP\_51 = 240 .

- Solution #10 found. 10 Solutions, Resolution 0.044s, 23 Nodes (523.7 n/s), 16 Backtracks, 0 Fails, 0 Restarts

Rule\_3\_LB = 60 Rule\_3\_UB = 120 Rule\_3\_LB = 0 Rule\_3\_UB = 2 Overlaps\_0\_0 = 0 Overlaps\_0\_1 = 0 Overlaps\_0\_2 = 1 Overlaps\_0\_3 = 0 Overlaps\_1\_0 = 0 Overlaps\_1\_1 = 0 Overlaps\_1\_2 = 1 Overlaps\_1\_3 = 0 Overlaps\_2\_0 = 0 Overlaps\_2\_1 = 0 Overlaps\_2\_2 = 0 Overlaps\_2\_3 = 0 Overlaps\_3\_0 = 0 Overlaps\_3\_1 = 0 Overlaps\_3\_2 = 0 Overlaps\_3\_3 = 0 TMP\_0 = 0 not(TMP\_0) = 1 TMP\_1 = 1 not(TMP\_1) = 0 TMP\_2 = 1 not(TMP\_2) = 0 TMP\_3 = 1 not(TMP\_3) = 0 TMP\_4 = 3 TMP\_5 = 0 not(TMP\_5) = 1 TMP\_6 = 0 not(TMP\_6) = 1 TMP\_7 = 0 TMP\_8 = 1 not(TMP\_8) = 0 TMP\_9 = 1 not(TMP\_9) = 0 TMP\_10 = 2 TMP\_11 = 0 not(TMP\_11) = 1 TMP\_12 = 0 not(TMP\_12) = 1 TMP\_13 = 1 not(TMP\_13) = 0 TMP\_14 = 1 not(TMP\_14) = 0 TMP\_15 = 1 not(TMP\_15) = 0 TMP\_16 = 2 TMP\_17 = 0 not(TMP\_17) = 1 TMP\_18 = 1 not(TMP\_18) = 0 TMP\_19 = 1 not(TMP\_19) = 0 TMP\_20 = 1 not(TMP\_20) = 0 TMP\_21 = 3 TMP\_22 = 0 not(TMP\_22) = 1 TMP\_23 = 0 not(TMP\_23) = 1 TMP\_24 = 0 TMP\_25 = 1 not(TMP\_25) = 0 TMP\_26 = 1 not(TMP\_26) = 0 TMP\_27 = 2 TMP\_28 = 0 not(TMP\_28) = 1 TMP\_29 = 0 not(TMP\_29) = 1 TMP\_30 = 1 not(TMP\_30) = 0 TMP\_31 = 1 not(TMP\_31) = 0 TMP\_32 = 1 not(TMP\_32) = 0 TMP\_33 = 2 TMP\_34 = 0 not(TMP\_34) = 1 TMP\_35 = 1 not(TMP\_35) = 0 TMP\_36 = 1 not(TMP\_36) = 0 TMP\_37 = 1 not(TMP\_37) = 0 TMP\_38 = 3 TMP\_39 = 0 not(TMP\_39) = 1 TMP\_40 = 0 not(TMP\_40) = 1 TMP\_41 = 0 TMP\_42 = 1 not(TMP\_42) = 0 TMP\_43 = 1 not(TMP\_43) = 0 TMP\_44 = 2 TMP\_45 = 0 not(TMP\_45) = 1 TMP\_46 = 0 not(TMP\_46) = 1 TMP\_47 = 1 not(TMP\_47) = 0 TMP\_48 = 1 not(TMP\_48) = 0 TMP\_49 = 1 not(TMP\_49) = 0 TMP\_50 = 2 Area\_0 = 60 Distance\_0\_Rule\_0 = 30 Distance\_1\_Rule\_0 = 2 Area\_1 = 30 Distance\_0\_Rule\_1 = 30 Distance\_1\_Rule\_1 = 1 Area\_2 = 30 Distance\_0\_Rule\_2 = 30 Distance\_1\_Rule\_2 = 1 Area\_3 = 120 -(Rule\_3\_LB) = -60 Distance\_0\_Rule\_3 = 60 -(Rule\_3\_LB) = 0 Distance\_1\_Rule\_3 = 2 TMP\_51 = 240 .

- Solution #11 found. 11 Solutions, Resolution 0.045s, 25 Nodes (550.5 n/s), 18 Backtracks, 0 Fails, 0 Restarts

Rule\_3\_LB = 60 Rule\_3\_UB = 120 Rule\_3\_LB = 0 Rule\_3\_UB = 2 Overlaps\_0\_0 = 0 Overlaps\_0\_1 = 0 Overlaps\_0\_2 = 1 Overlaps\_0\_3 = 0 Overlaps\_1\_0 = 1 Overlaps\_1\_1 = 0 Overlaps\_1\_2 = 0 Overlaps\_1\_3 = 0 Overlaps\_2\_0 = 0 Overlaps\_2\_1 = 0 Overlaps\_2\_2 = 0 Overlaps\_2\_3 = 0 Overlaps\_3\_0 = 0 Overlaps\_3\_1 = 0 Overlaps\_3\_2 = 0 Overlaps\_3\_3 = 0 TMP\_0 = 0 not(TMP\_0) = 1 TMP\_1 = 1 not(TMP\_1) = 0 TMP\_2 = 1 not(TMP\_2) = 0 TMP\_3 = 1 not(TMP\_3) = 0 TMP\_4 = 3 TMP\_5 = 0 not(TMP\_5) = 1 TMP\_6 = 0 not(TMP\_6) = 1 TMP\_7 = 0 TMP\_8 = 1 not(TMP\_8) = 0 TMP\_9 = 1 not(TMP\_9) = 0 TMP\_10 = 2 TMP\_11 = 0 not(TMP\_11) = 1 TMP\_12 = 0 not(TMP\_12) = 1 TMP\_13 = 1 not(TMP\_13) = 0 TMP\_14 = 1 not(TMP\_14) = 0 TMP\_15 = 1 not(TMP\_15) = 0 TMP\_16 = 2 TMP\_17 = 0 not(TMP\_17) = 1 TMP\_18 = 1 not(TMP\_18) = 0 TMP\_19 = 1 not(TMP\_19) = 0 TMP\_20 = 1 not(TMP\_20) = 0 TMP\_21 = 3 TMP\_22 = 0 not(TMP\_22) = 1 TMP\_23 = 0 not(TMP\_23) = 1 TMP\_24 = 0 TMP\_25 = 1 not(TMP\_25) = 0 TMP\_26 = 1 not(TMP\_26) = 0 TMP\_27 = 2 TMP\_28 = 0 not(TMP\_28) = 1 TMP\_29 = 0 not(TMP\_29) = 1 TMP\_30 = 1 not(TMP\_30) = 0 TMP\_31 = 1 not(TMP\_31) = 0 TMP\_32 = 1 not(TMP\_32) = 0 TMP\_33 = 2 TMP\_34 = 0 not(TMP\_34) = 1 TMP\_35 = 1 not(TMP\_35) = 0 TMP\_36 = 1 not(TMP\_36) = 0 TMP\_37 = 1 not(TMP\_37) = 0 TMP\_38 = 3 TMP\_39 = 0 not(TMP\_39) = 1 TMP\_40 = 0 not(TMP\_40) = 1 TMP\_41 = 0 TMP\_42 = 1 not(TMP\_42) = 0 TMP\_43 = 1 not(TMP\_43) = 0 TMP\_44 = 2 TMP\_45 = 0 not(TMP\_45) = 1 TMP\_46 = 0 not(TMP\_46) = 1 TMP\_47 = 1 not(TMP\_47) = 0 TMP\_48 = 1 not(TMP\_48) = 0 TMP\_49 = 1 not(TMP\_49) = 0 TMP\_50 = 2 Area\_0 = 60 Distance\_0\_Rule\_0 = 30 Distance\_1\_Rule\_0 = 2 Area\_1 = 30 Distance\_0\_Rule\_1 = 30 Distance\_1\_Rule\_1 = 1 Area\_2 = 30 Distance\_0\_Rule\_2 = 30 Distance\_1\_Rule\_2 = 1 Area\_3 = 120 -(Rule\_3\_LB) = -60 Distance\_0\_Rule\_3 = 60 -(Rule\_3\_LB) = 0 Distance\_1\_Rule\_3 = 2 TMP\_51 = 240 .

- Solution #12 found. 12 Solutions, Resolution 0.047s, 26 Nodes (553.6 n/s), 19 Backtracks, 0 Fails, 0 Restarts

Rule\_3\_LB = 60 Rule\_3\_UB = 120 Rule\_3\_LB = 0 Rule\_3\_UB = 2 Overlaps\_0\_0 = 0 Overlaps\_0\_1 = 0 Overlaps\_0\_2 = 1 Overlaps\_0\_3 = 0 Overlaps\_1\_0 = 1 Overlaps\_1\_1 = 0 Overlaps\_1\_2 = 1 Overlaps\_1\_3 = 0 Overlaps\_2\_0 = 0 Overlaps\_2\_1 = 0 Overlaps\_2\_2 = 0 Overlaps\_2\_3 = 0 Overlaps\_3\_0 = 0 Overlaps\_3\_1 = 0 Overlaps\_3\_2 = 0 Overlaps\_3\_3 = 0 TMP\_0 = 0 not(TMP\_0) = 1 TMP\_1 = 1 not(TMP\_1) = 0 TMP\_2 = 1 not(TMP\_2) = 0 TMP\_3 = 1 not(TMP\_3) = 0 TMP\_4 = 3 TMP\_5 = 0 not(TMP\_5) = 1 TMP\_6 = 0 not(TMP\_6) = 1 TMP\_7 = 0 TMP\_8 = 1 not(TMP\_8) = 0 TMP\_9 = 1 not(TMP\_9) = 0 TMP\_10 = 2 TMP\_11 = 0 not(TMP\_11) = 1 TMP\_12 = 0 not(TMP\_12) = 1 TMP\_13 = 1 not(TMP\_13) = 0 TMP\_14 = 1 not(TMP\_14) = 0 TMP\_15 = 1 not(TMP\_15) = 0 TMP\_16 = 2 TMP\_17 = 0 not(TMP\_17) = 1 TMP\_18 = 1 not(TMP\_18) = 0 TMP\_19 = 1 not(TMP\_19) = 0 TMP\_20 = 1 not(TMP\_20) = 0 TMP\_21 = 3 TMP\_22 = 0 not(TMP\_22) = 1 TMP\_23 = 0 not(TMP\_23) = 1 TMP\_24 = 0 TMP\_25 = 1 not(TMP\_25) = 0 TMP\_26 = 1 not(TMP\_26) = 0 TMP\_27 = 2 TMP\_28 = 0 not(TMP\_28) = 1 TMP\_29 = 0 not(TMP\_29) = 1 TMP\_30 = 1 not(TMP\_30) = 0 TMP\_31 = 1 not(TMP\_31) = 0 TMP\_32 = 1 not(TMP\_32) = 0 TMP\_33 = 2 TMP\_34 = 0 not(TMP\_34) = 1 TMP\_35 = 1 not(TMP\_35) = 0 TMP\_36 = 1 not(TMP\_36) = 0 TMP\_37 = 1 not(TMP\_37) = 0 TMP\_38 = 3 TMP\_39 = 0 not(TMP\_39) = 1 TMP\_40 = 0 not(TMP\_40) = 1 TMP\_41 = 0 TMP\_42 = 1 not(TMP\_42) = 0 TMP\_43 = 1 not(TMP\_43) = 0 TMP\_44 = 2 TMP\_45 = 0 not(TMP\_45) = 1 TMP\_46 = 0 not(TMP\_46) = 1 TMP\_47 = 1 not(TMP\_47) = 0 TMP\_48 = 1 not(TMP\_48) = 0 TMP\_49 = 1 not(TMP\_49) = 0 TMP\_50 = 2 Area\_0 = 60 Distance\_0\_Rule\_0 = 30 Distance\_1\_Rule\_0 = 2 Area\_1 = 30 Distance\_0\_Rule\_1 = 30 Distance\_1\_Rule\_1 = 1 Area\_2 = 30 Distance\_0\_Rule\_2 = 30 Distance\_1\_Rule\_2 = 1 Area\_3 = 120 -(Rule\_3\_LB) = -60 Distance\_0\_Rule\_3 = 60 -(Rule\_3\_LB) = 0 Distance\_1\_Rule\_3 = 2 TMP\_51 = 240 .

- Solution #13 found. 13 Solutions, Resolution 0.048s, 29 Nodes (598.7 n/s), 22 Backtracks, 0 Fails, 0 Restarts

Rule\_3\_LB = 60 Rule\_3\_UB = 120 Rule\_3\_LB = 0 Rule\_3\_UB = 2 Overlaps\_0\_0 = 0 Overlaps\_0\_1 = 0 Overlaps\_0\_2 = 1 Overlaps\_0\_3 = 0 Overlaps\_1\_0 = 0 Overlaps\_1\_1 = 0 Overlaps\_1\_2 = 0 Overlaps\_1\_3 = 0 Overlaps\_2\_0 = 0 Overlaps\_2\_1 = 1 Overlaps\_2\_2 = 0 Overlaps\_2\_3 = 0 Overlaps\_3\_0 = 0 Overlaps\_3\_1 = 0 Overlaps\_3\_2 = 0 Overlaps\_3\_3 = 0 TMP\_0 = 0 not(TMP\_0) = 1 TMP\_1 = 1 not(TMP\_1) = 0 TMP\_2 = 1 not(TMP\_2) = 0 TMP\_3 = 1 not(TMP\_3) = 0 TMP\_4 = 3 TMP\_5 = 0 not(TMP\_5) = 1 TMP\_6 = 0 not(TMP\_6) = 1 TMP\_7 = 0 TMP\_8 = 1 not(TMP\_8) = 0 TMP\_9 = 1 not(TMP\_9) = 0 TMP\_10 = 2 TMP\_11 = 0 not(TMP\_11) = 1 TMP\_12 = 0 not(TMP\_12) = 1 TMP\_13 = 1 not(TMP\_13) = 0 TMP\_14 = 1 not(TMP\_14) = 0 TMP\_15 = 1 not(TMP\_15) = 0 TMP\_16 = 2 TMP\_17 = 0 not(TMP\_17) = 1 TMP\_18 = 1 not(TMP\_18) = 0 TMP\_19 = 1 not(TMP\_19) = 0 TMP\_20 = 1 not(TMP\_20) = 0 TMP\_21 = 3 TMP\_22 = 0 not(TMP\_22) = 1 TMP\_23 = 0 not(TMP\_23) = 1 TMP\_24 = 0 TMP\_25 = 1 not(TMP\_25) = 0 TMP\_26 = 1 not(TMP\_26) = 0 TMP\_27 = 2 TMP\_28 = 0 not(TMP\_28) = 1 TMP\_29 = 0 not(TMP\_29) = 1 TMP\_30 = 1 not(TMP\_30) = 0 TMP\_31 = 1 not(TMP\_31) = 0 TMP\_32 = 1 not(TMP\_32) = 0 TMP\_33 = 2 TMP\_34 = 0 not(TMP\_34) = 1 TMP\_35 = 1 not(TMP\_35) = 0 TMP\_36 = 1 not(TMP\_36) = 0 TMP\_37 = 1 not(TMP\_37) = 0 TMP\_38 = 3 TMP\_39 = 0 not(TMP\_39) = 1 TMP\_40 = 0 not(TMP\_40) = 1 TMP\_41 = 0 TMP\_42 = 1 not(TMP\_42) = 0 TMP\_43 = 1 not(TMP\_43) = 0 TMP\_44 = 2 TMP\_45 = 0 not(TMP\_45) = 1 TMP\_46 = 0 not(TMP\_46) = 1 TMP\_47 = 1 not(TMP\_47) = 0 TMP\_48 = 1 not(TMP\_48) = 0 TMP\_49 = 1 not(TMP\_49) = 0 TMP\_50 = 2 Area\_0 = 60 Distance\_0\_Rule\_0 = 30 Distance\_1\_Rule\_0 = 2 Area\_1 = 30 Distance\_0\_Rule\_1 = 30 Distance\_1\_Rule\_1 = 1 Area\_2 = 30 Distance\_0\_Rule\_2 = 30 Distance\_1\_Rule\_2 = 1 Area\_3 = 120 -(Rule\_3\_LB) = -60 Distance\_0\_Rule\_3 = 60 -(Rule\_3\_LB) = 0 Distance\_1\_Rule\_3 = 2 TMP\_51 = 240 .

- Solution #14 found. 14 Solutions, Resolution 0.050s, 30 Nodes (602.1 n/s), 23 Backtracks, 0 Fails, 0 Restarts

Rule\_3\_LB = 60 Rule\_3\_UB = 120 Rule\_3\_LB = 0 Rule\_3\_UB = 2 Overlaps\_0\_0 = 0 Overlaps\_0\_1 = 0 Overlaps\_0\_2 = 1 Overlaps\_0\_3 = 0 Overlaps\_1\_0 = 1 Overlaps\_1\_1 = 0 Overlaps\_1\_2 = 0 Overlaps\_1\_3 = 0 Overlaps\_2\_0 = 0 Overlaps\_2\_1 = 1 Overlaps\_2\_2 = 0 Overlaps\_2\_3 = 0 Overlaps\_3\_0 = 0 Overlaps\_3\_1 = 0 Overlaps\_3\_2 = 0 Overlaps\_3\_3 = 0 TMP\_0 = 0 not(TMP\_0) = 1 TMP\_1 = 1 not(TMP\_1) = 0 TMP\_2 = 1 not(TMP\_2) = 0 TMP\_3 = 1 not(TMP\_3) = 0 TMP\_4 = 3 TMP\_5 = 0 not(TMP\_5) = 1 TMP\_6 = 0 not(TMP\_6) = 1 TMP\_7 = 0 TMP\_8 = 1 not(TMP\_8) = 0 TMP\_9 = 1 not(TMP\_9) = 0 TMP\_10 = 2 TMP\_11 = 0 not(TMP\_11) = 1 TMP\_12 = 0 not(TMP\_12) = 1 TMP\_13 = 1 not(TMP\_13) = 0 TMP\_14 = 1 not(TMP\_14) = 0 TMP\_15 = 1 not(TMP\_15) = 0 TMP\_16 = 2 TMP\_17 = 0 not(TMP\_17) = 1 TMP\_18 = 1 not(TMP\_18) = 0 TMP\_19 = 1 not(TMP\_19) = 0 TMP\_20 = 1 not(TMP\_20) = 0 TMP\_21 = 3 TMP\_22 = 0 not(TMP\_22) = 1 TMP\_23 = 0 not(TMP\_23) = 1 TMP\_24 = 0 TMP\_25 = 1 not(TMP\_25) = 0 TMP\_26 = 1 not(TMP\_26) = 0 TMP\_27 = 2 TMP\_28 = 0 not(TMP\_28) = 1 TMP\_29 = 0 not(TMP\_29) = 1 TMP\_30 = 1 not(TMP\_30) = 0 TMP\_31 = 1 not(TMP\_31) = 0 TMP\_32 = 1 not(TMP\_32) = 0 TMP\_33 = 2 TMP\_34 = 0 not(TMP\_34) = 1 TMP\_35 = 1 not(TMP\_35) = 0 TMP\_36 = 1 not(TMP\_36) = 0 TMP\_37 = 1 not(TMP\_37) = 0 TMP\_38 = 3 TMP\_39 = 0 not(TMP\_39) = 1 TMP\_40 = 0 not(TMP\_40) = 1 TMP\_41 = 0 TMP\_42 = 1 not(TMP\_42) = 0 TMP\_43 = 1 not(TMP\_43) = 0 TMP\_44 = 2 TMP\_45 = 0 not(TMP\_45) = 1 TMP\_46 = 0 not(TMP\_46) = 1 TMP\_47 = 1 not(TMP\_47) = 0 TMP\_48 = 1 not(TMP\_48) = 0 TMP\_49 = 1 not(TMP\_49) = 0 TMP\_50 = 2 Area\_0 = 60 Distance\_0\_Rule\_0 = 30 Distance\_1\_Rule\_0 = 2 Area\_1 = 30 Distance\_0\_Rule\_1 = 30 Distance\_1\_Rule\_1 = 1 Area\_2 = 30 Distance\_0\_Rule\_2 = 30 Distance\_1\_Rule\_2 = 1 Area\_3 = 120 -(Rule\_3\_LB) = -60 Distance\_0\_Rule\_3 = 60 -(Rule\_3\_LB) = 0 Distance\_1\_Rule\_3 = 2 TMP\_51 = 240 .

- Solution #15 found. 15 Solutions, Resolution 0.052s, 32 Nodes (620.3 n/s), 25 Backtracks, 0 Fails, 0 Restarts

Rule\_3\_LB = 60 Rule\_3\_UB = 120 Rule\_3\_LB = 0 Rule\_3\_UB = 2 Overlaps\_0\_0 = 0 Overlaps\_0\_1 = 0 Overlaps\_0\_2 = 1 Overlaps\_0\_3 = 0 Overlaps\_1\_0 = 0 Overlaps\_1\_1 = 0 Overlaps\_1\_2 = 1 Overlaps\_1\_3 = 0 Overlaps\_2\_0 = 0 Overlaps\_2\_1 = 1 Overlaps\_2\_2 = 0 Overlaps\_2\_3 = 0 Overlaps\_3\_0 = 0 Overlaps\_3\_1 = 0 Overlaps\_3\_2 = 0 Overlaps\_3\_3 = 0 TMP\_0 = 0 not(TMP\_0) = 1 TMP\_1 = 1 not(TMP\_1) = 0 TMP\_2 = 1 not(TMP\_2) = 0 TMP\_3 = 1 not(TMP\_3) = 0 TMP\_4 = 3 TMP\_5 = 0 not(TMP\_5) = 1 TMP\_6 = 0 not(TMP\_6) = 1 TMP\_7 = 0 TMP\_8 = 1 not(TMP\_8) = 0 TMP\_9 = 1 not(TMP\_9) = 0 TMP\_10 = 2 TMP\_11 = 0 not(TMP\_11) = 1 TMP\_12 = 0 not(TMP\_12) = 1 TMP\_13 = 1 not(TMP\_13) = 0 TMP\_14 = 1 not(TMP\_14) = 0 TMP\_15 = 1 not(TMP\_15) = 0 TMP\_16 = 2 TMP\_17 = 0 not(TMP\_17) = 1 TMP\_18 = 1 not(TMP\_18) = 0 TMP\_19 = 1 not(TMP\_19) = 0 TMP\_20 = 1 not(TMP\_20) = 0 TMP\_21 = 3 TMP\_22 = 0 not(TMP\_22) = 1 TMP\_23 = 0 not(TMP\_23) = 1 TMP\_24 = 0 TMP\_25 = 1 not(TMP\_25) = 0 TMP\_26 = 1 not(TMP\_26) = 0 TMP\_27 = 2 TMP\_28 = 0 not(TMP\_28) = 1 TMP\_29 = 0 not(TMP\_29) = 1 TMP\_30 = 1 not(TMP\_30) = 0 TMP\_31 = 1 not(TMP\_31) = 0 TMP\_32 = 1 not(TMP\_32) = 0 TMP\_33 = 2 TMP\_34 = 0 not(TMP\_34) = 1 TMP\_35 = 1 not(TMP\_35) = 0 TMP\_36 = 1 not(TMP\_36) = 0 TMP\_37 = 1 not(TMP\_37) = 0 TMP\_38 = 3 TMP\_39 = 0 not(TMP\_39) = 1 TMP\_40 = 0 not(TMP\_40) = 1 TMP\_41 = 0 TMP\_42 = 1 not(TMP\_42) = 0 TMP\_43 = 1 not(TMP\_43) = 0 TMP\_44 = 2 TMP\_45 = 0 not(TMP\_45) = 1 TMP\_46 = 0 not(TMP\_46) = 1 TMP\_47 = 1 not(TMP\_47) = 0 TMP\_48 = 1 not(TMP\_48) = 0 TMP\_49 = 1 not(TMP\_49) = 0 TMP\_50 = 2 Area\_0 = 60 Distance\_0\_Rule\_0 = 30 Distance\_1\_Rule\_0 = 2 Area\_1 = 30 Distance\_0\_Rule\_1 = 30 Distance\_1\_Rule\_1 = 1 Area\_2 = 30 Distance\_0\_Rule\_2 = 30 Distance\_1\_Rule\_2 = 1 Area\_3 = 120 -(Rule\_3\_LB) = -60 Distance\_0\_Rule\_3 = 60 -(Rule\_3\_LB) = 0 Distance\_1\_Rule\_3 = 2 TMP\_51 = 240 .

- Solution #16 found. 16 Solutions, Resolution 0.053s, 33 Nodes (620.6 n/s), 26 Backtracks, 0 Fails, 0 Restarts

Rule\_3\_LB = 60 Rule\_3\_UB = 120 Rule\_3\_LB = 0 Rule\_3\_UB = 2 Overlaps\_0\_0 = 0 Overlaps\_0\_1 = 0 Overlaps\_0\_2 = 1 Overlaps\_0\_3 = 0 Overlaps\_1\_0 = 1 Overlaps\_1\_1 = 0 Overlaps\_1\_2 = 1 Overlaps\_1\_3 = 0 Overlaps\_2\_0 = 0 Overlaps\_2\_1 = 1 Overlaps\_2\_2 = 0 Overlaps\_2\_3 = 0 Overlaps\_3\_0 = 0 Overlaps\_3\_1 = 0 Overlaps\_3\_2 = 0 Overlaps\_3\_3 = 0 TMP\_0 = 0 not(TMP\_0) = 1 TMP\_1 = 1 not(TMP\_1) = 0 TMP\_2 = 1 not(TMP\_2) = 0 TMP\_3 = 1 not(TMP\_3) = 0 TMP\_4 = 3 TMP\_5 = 0 not(TMP\_5) = 1 TMP\_6 = 0 not(TMP\_6) = 1 TMP\_7 = 0 TMP\_8 = 1 not(TMP\_8) = 0 TMP\_9 = 1 not(TMP\_9) = 0 TMP\_10 = 2 TMP\_11 = 0 not(TMP\_11) = 1 TMP\_12 = 0 not(TMP\_12) = 1 TMP\_13 = 1 not(TMP\_13) = 0 TMP\_14 = 1 not(TMP\_14) = 0 TMP\_15 = 1 not(TMP\_15) = 0 TMP\_16 = 2 TMP\_17 = 0 not(TMP\_17) = 1 TMP\_18 = 1 not(TMP\_18) = 0 TMP\_19 = 1 not(TMP\_19) = 0 TMP\_20 = 1 not(TMP\_20) = 0 TMP\_21 = 3 TMP\_22 = 0 not(TMP\_22) = 1 TMP\_23 = 0 not(TMP\_23) = 1 TMP\_24 = 0 TMP\_25 = 1 not(TMP\_25) = 0 TMP\_26 = 1 not(TMP\_26) = 0 TMP\_27 = 2 TMP\_28 = 0 not(TMP\_28) = 1 TMP\_29 = 0 not(TMP\_29) = 1 TMP\_30 = 1 not(TMP\_30) = 0 TMP\_31 = 1 not(TMP\_31) = 0 TMP\_32 = 1 not(TMP\_32) = 0 TMP\_33 = 2 TMP\_34 = 0 not(TMP\_34) = 1 TMP\_35 = 1 not(TMP\_35) = 0 TMP\_36 = 1 not(TMP\_36) = 0 TMP\_37 = 1 not(TMP\_37) = 0 TMP\_38 = 3 TMP\_39 = 0 not(TMP\_39) = 1 TMP\_40 = 0 not(TMP\_40) = 1 TMP\_41 = 0 TMP\_42 = 1 not(TMP\_42) = 0 TMP\_43 = 1 not(TMP\_43) = 0 TMP\_44 = 2 TMP\_45 = 0 not(TMP\_45) = 1 TMP\_46 = 0 not(TMP\_46) = 1 TMP\_47 = 1 not(TMP\_47) = 0 TMP\_48 = 1 not(TMP\_48) = 0 TMP\_49 = 1 not(TMP\_49) = 0 TMP\_50 = 2 Area\_0 = 60 Distance\_0\_Rule\_0 = 30 Distance\_1\_Rule\_0 = 2 Area\_1 = 30 Distance\_0\_Rule\_1 = 30 Distance\_1\_Rule\_1 = 1 Area\_2 = 30 Distance\_0\_Rule\_2 = 30 Distance\_1\_Rule\_2 = 1 Area\_3 = 120 -(Rule\_3\_LB) = -60 Distance\_0\_Rule\_3 = 60 -(Rule\_3\_LB) = 0 Distance\_1\_Rule\_3 = 2 TMP\_51 = 240 .

- Solution #17 found. 17 Solutions, Resolution 0.055s, 38 Nodes (684.8 n/s), 31 Backtracks, 0 Fails, 0 Restarts

Rule\_3\_LB = 60 Rule\_3\_UB = 120 Rule\_3\_LB = 0 Rule\_3\_UB = 2 Overlaps\_0\_0 = 0 Overlaps\_0\_1 = 0 Overlaps\_0\_2 = 0 Overlaps\_0\_3 = 0 Overlaps\_1\_0 = 0 Overlaps\_1\_1 = 0 Overlaps\_1\_2 = 0 Overlaps\_1\_3 = 0 Overlaps\_2\_0 = 1 Overlaps\_2\_1 = 0 Overlaps\_2\_2 = 0 Overlaps\_2\_3 = 0 Overlaps\_3\_0 = 0 Overlaps\_3\_1 = 0 Overlaps\_3\_2 = 0 Overlaps\_3\_3 = 0 TMP\_0 = 0 not(TMP\_0) = 1 TMP\_1 = 1 not(TMP\_1) = 0 TMP\_2 = 1 not(TMP\_2) = 0 TMP\_3 = 1 not(TMP\_3) = 0 TMP\_4 = 3 TMP\_5 = 0 not(TMP\_5) = 1 TMP\_6 = 0 not(TMP\_6) = 1 TMP\_7 = 0 TMP\_8 = 1 not(TMP\_8) = 0 TMP\_9 = 1 not(TMP\_9) = 0 TMP\_10 = 2 TMP\_11 = 0 not(TMP\_11) = 1 TMP\_12 = 0 not(TMP\_12) = 1 TMP\_13 = 1 not(TMP\_13) = 0 TMP\_14 = 1 not(TMP\_14) = 0 TMP\_15 = 1 not(TMP\_15) = 0 TMP\_16 = 2 TMP\_17 = 0 not(TMP\_17) = 1 TMP\_18 = 1 not(TMP\_18) = 0 TMP\_19 = 1 not(TMP\_19) = 0 TMP\_20 = 1 not(TMP\_20) = 0 TMP\_21 = 3 TMP\_22 = 0 not(TMP\_22) = 1 TMP\_23 = 0 not(TMP\_23) = 1 TMP\_24 = 0 TMP\_25 = 1 not(TMP\_25) = 0 TMP\_26 = 1 not(TMP\_26) = 0 TMP\_27 = 2 TMP\_28 = 0 not(TMP\_28) = 1 TMP\_29 = 0 not(TMP\_29) = 1 TMP\_30 = 1 not(TMP\_30) = 0 TMP\_31 = 1 not(TMP\_31) = 0 TMP\_32 = 1 not(TMP\_32) = 0 TMP\_33 = 2 TMP\_34 = 0 not(TMP\_34) = 1 TMP\_35 = 1 not(TMP\_35) = 0 TMP\_36 = 1 not(TMP\_36) = 0 TMP\_37 = 1 not(TMP\_37) = 0 TMP\_38 = 3 TMP\_39 = 0 not(TMP\_39) = 1 TMP\_40 = 0 not(TMP\_40) = 1 TMP\_41 = 0 TMP\_42 = 1 not(TMP\_42) = 0 TMP\_43 = 1 not(TMP\_43) = 0 TMP\_44 = 2 TMP\_45 = 0 not(TMP\_45) = 1 TMP\_46 = 0 not(TMP\_46) = 1 TMP\_47 = 1 not(TMP\_47) = 0 TMP\_48 = 1 not(TMP\_48) = 0 TMP\_49 = 1 not(TMP\_49) = 0 TMP\_50 = 2 Area\_0 = 60 Distance\_0\_Rule\_0 = 30 Distance\_1\_Rule\_0 = 2 Area\_1 = 30 Distance\_0\_Rule\_1 = 30 Distance\_1\_Rule\_1 = 1 Area\_2 = 30 Distance\_0\_Rule\_2 = 30 Distance\_1\_Rule\_2 = 1 Area\_3 = 120 -(Rule\_3\_LB) = -60 Distance\_0\_Rule\_3 = 60 -(Rule\_3\_LB) = 0 Distance\_1\_Rule\_3 = 2 TMP\_51 = 240 .

- Solution #18 found. 18 Solutions, Resolution 0.058s, 39 Nodes (675.7 n/s), 32 Backtracks, 0 Fails, 0 Restarts

Rule\_3\_LB = 60 Rule\_3\_UB = 120 Rule\_3\_LB = 0 Rule\_3\_UB = 2 Overlaps\_0\_0 = 0 Overlaps\_0\_1 = 0 Overlaps\_0\_2 = 0 Overlaps\_0\_3 = 0 Overlaps\_1\_0 = 0 Overlaps\_1\_1 = 0 Overlaps\_1\_2 = 1 Overlaps\_1\_3 = 0 Overlaps\_2\_0 = 1 Overlaps\_2\_1 = 0 Overlaps\_2\_2 = 0 Overlaps\_2\_3 = 0 Overlaps\_3\_0 = 0 Overlaps\_3\_1 = 0 Overlaps\_3\_2 = 0 Overlaps\_3\_3 = 0 TMP\_0 = 0 not(TMP\_0) = 1 TMP\_1 = 1 not(TMP\_1) = 0 TMP\_2 = 1 not(TMP\_2) = 0 TMP\_3 = 1 not(TMP\_3) = 0 TMP\_4 = 3 TMP\_5 = 0 not(TMP\_5) = 1 TMP\_6 = 0 not(TMP\_6) = 1 TMP\_7 = 0 TMP\_8 = 1 not(TMP\_8) = 0 TMP\_9 = 1 not(TMP\_9) = 0 TMP\_10 = 2 TMP\_11 = 0 not(TMP\_11) = 1 TMP\_12 = 0 not(TMP\_12) = 1 TMP\_13 = 1 not(TMP\_13) = 0 TMP\_14 = 1 not(TMP\_14) = 0 TMP\_15 = 1 not(TMP\_15) = 0 TMP\_16 = 2 TMP\_17 = 0 not(TMP\_17) = 1 TMP\_18 = 1 not(TMP\_18) = 0 TMP\_19 = 1 not(TMP\_19) = 0 TMP\_20 = 1 not(TMP\_20) = 0 TMP\_21 = 3 TMP\_22 = 0 not(TMP\_22) = 1 TMP\_23 = 0 not(TMP\_23) = 1 TMP\_24 = 0 TMP\_25 = 1 not(TMP\_25) = 0 TMP\_26 = 1 not(TMP\_26) = 0 TMP\_27 = 2 TMP\_28 = 0 not(TMP\_28) = 1 TMP\_29 = 0 not(TMP\_29) = 1 TMP\_30 = 1 not(TMP\_30) = 0 TMP\_31 = 1 not(TMP\_31) = 0 TMP\_32 = 1 not(TMP\_32) = 0 TMP\_33 = 2 TMP\_34 = 0 not(TMP\_34) = 1 TMP\_35 = 1 not(TMP\_35) = 0 TMP\_36 = 1 not(TMP\_36) = 0 TMP\_37 = 1 not(TMP\_37) = 0 TMP\_38 = 3 TMP\_39 = 0 not(TMP\_39) = 1 TMP\_40 = 0 not(TMP\_40) = 1 TMP\_41 = 0 TMP\_42 = 1 not(TMP\_42) = 0 TMP\_43 = 1 not(TMP\_43) = 0 TMP\_44 = 2 TMP\_45 = 0 not(TMP\_45) = 1 TMP\_46 = 0 not(TMP\_46) = 1 TMP\_47 = 1 not(TMP\_47) = 0 TMP\_48 = 1 not(TMP\_48) = 0 TMP\_49 = 1 not(TMP\_49) = 0 TMP\_50 = 2 Area\_0 = 60 Distance\_0\_Rule\_0 = 30 Distance\_1\_Rule\_0 = 2 Area\_1 = 30 Distance\_0\_Rule\_1 = 30 Distance\_1\_Rule\_1 = 1 Area\_2 = 30 Distance\_0\_Rule\_2 = 30 Distance\_1\_Rule\_2 = 1 Area\_3 = 120 -(Rule\_3\_LB) = -60 Distance\_0\_Rule\_3 = 60 -(Rule\_3\_LB) = 0 Distance\_1\_Rule\_3 = 2 TMP\_51 = 240 .

- Solution #19 found. 19 Solutions, Resolution 0.059s, 41 Nodes (691.0 n/s), 34 Backtracks, 0 Fails, 0 Restarts

Rule\_3\_LB = 60 Rule\_3\_UB = 120 Rule\_3\_LB = 0 Rule\_3\_UB = 2 Overlaps\_0\_0 = 0 Overlaps\_0\_1 = 0 Overlaps\_0\_2 = 0 Overlaps\_0\_3 = 0 Overlaps\_1\_0 = 1 Overlaps\_1\_1 = 0 Overlaps\_1\_2 = 0 Overlaps\_1\_3 = 0 Overlaps\_2\_0 = 1 Overlaps\_2\_1 = 0 Overlaps\_2\_2 = 0 Overlaps\_2\_3 = 0 Overlaps\_3\_0 = 0 Overlaps\_3\_1 = 0 Overlaps\_3\_2 = 0 Overlaps\_3\_3 = 0 TMP\_0 = 0 not(TMP\_0) = 1 TMP\_1 = 1 not(TMP\_1) = 0 TMP\_2 = 1 not(TMP\_2) = 0 TMP\_3 = 1 not(TMP\_3) = 0 TMP\_4 = 3 TMP\_5 = 0 not(TMP\_5) = 1 TMP\_6 = 0 not(TMP\_6) = 1 TMP\_7 = 0 TMP\_8 = 1 not(TMP\_8) = 0 TMP\_9 = 1 not(TMP\_9) = 0 TMP\_10 = 2 TMP\_11 = 0 not(TMP\_11) = 1 TMP\_12 = 0 not(TMP\_12) = 1 TMP\_13 = 1 not(TMP\_13) = 0 TMP\_14 = 1 not(TMP\_14) = 0 TMP\_15 = 1 not(TMP\_15) = 0 TMP\_16 = 2 TMP\_17 = 0 not(TMP\_17) = 1 TMP\_18 = 1 not(TMP\_18) = 0 TMP\_19 = 1 not(TMP\_19) = 0 TMP\_20 = 1 not(TMP\_20) = 0 TMP\_21 = 3 TMP\_22 = 0 not(TMP\_22) = 1 TMP\_23 = 0 not(TMP\_23) = 1 TMP\_24 = 0 TMP\_25 = 1 not(TMP\_25) = 0 TMP\_26 = 1 not(TMP\_26) = 0 TMP\_27 = 2 TMP\_28 = 0 not(TMP\_28) = 1 TMP\_29 = 0 not(TMP\_29) = 1 TMP\_30 = 1 not(TMP\_30) = 0 TMP\_31 = 1 not(TMP\_31) = 0 TMP\_32 = 1 not(TMP\_32) = 0 TMP\_33 = 2 TMP\_34 = 0 not(TMP\_34) = 1 TMP\_35 = 1 not(TMP\_35) = 0 TMP\_36 = 1 not(TMP\_36) = 0 TMP\_37 = 1 not(TMP\_37) = 0 TMP\_38 = 3 TMP\_39 = 0 not(TMP\_39) = 1 TMP\_40 = 0 not(TMP\_40) = 1 TMP\_41 = 0 TMP\_42 = 1 not(TMP\_42) = 0 TMP\_43 = 1 not(TMP\_43) = 0 TMP\_44 = 2 TMP\_45 = 0 not(TMP\_45) = 1 TMP\_46 = 0 not(TMP\_46) = 1 TMP\_47 = 1 not(TMP\_47) = 0 TMP\_48 = 1 not(TMP\_48) = 0 TMP\_49 = 1 not(TMP\_49) = 0 TMP\_50 = 2 Area\_0 = 60 Distance\_0\_Rule\_0 = 30 Distance\_1\_Rule\_0 = 2 Area\_1 = 30 Distance\_0\_Rule\_1 = 30 Distance\_1\_Rule\_1 = 1 Area\_2 = 30 Distance\_0\_Rule\_2 = 30 Distance\_1\_Rule\_2 = 1 Area\_3 = 120 -(Rule\_3\_LB) = -60 Distance\_0\_Rule\_3 = 60 -(Rule\_3\_LB) = 0 Distance\_1\_Rule\_3 = 2 TMP\_51 = 240 .

- Solution #20 found. 20 Solutions, Resolution 0.061s, 42 Nodes (693.9 n/s), 35 Backtracks, 0 Fails, 0 Restarts

Rule\_3\_LB = 60 Rule\_3\_UB = 120 Rule\_3\_LB = 0 Rule\_3\_UB = 2 Overlaps\_0\_0 = 0 Overlaps\_0\_1 = 0 Overlaps\_0\_2 = 0 Overlaps\_0\_3 = 0 Overlaps\_1\_0 = 1 Overlaps\_1\_1 = 0 Overlaps\_1\_2 = 1 Overlaps\_1\_3 = 0 Overlaps\_2\_0 = 1 Overlaps\_2\_1 = 0 Overlaps\_2\_2 = 0 Overlaps\_2\_3 = 0 Overlaps\_3\_0 = 0 Overlaps\_3\_1 = 0 Overlaps\_3\_2 = 0 Overlaps\_3\_3 = 0 TMP\_0 = 0 not(TMP\_0) = 1 TMP\_1 = 1 not(TMP\_1) = 0 TMP\_2 = 1 not(TMP\_2) = 0 TMP\_3 = 1 not(TMP\_3) = 0 TMP\_4 = 3 TMP\_5 = 0 not(TMP\_5) = 1 TMP\_6 = 0 not(TMP\_6) = 1 TMP\_7 = 0 TMP\_8 = 1 not(TMP\_8) = 0 TMP\_9 = 1 not(TMP\_9) = 0 TMP\_10 = 2 TMP\_11 = 0 not(TMP\_11) = 1 TMP\_12 = 0 not(TMP\_12) = 1 TMP\_13 = 1 not(TMP\_13) = 0 TMP\_14 = 1 not(TMP\_14) = 0 TMP\_15 = 1 not(TMP\_15) = 0 TMP\_16 = 2 TMP\_17 = 0 not(TMP\_17) = 1 TMP\_18 = 1 not(TMP\_18) = 0 TMP\_19 = 1 not(TMP\_19) = 0 TMP\_20 = 1 not(TMP\_20) = 0 TMP\_21 = 3 TMP\_22 = 0 not(TMP\_22) = 1 TMP\_23 = 0 not(TMP\_23) = 1 TMP\_24 = 0 TMP\_25 = 1 not(TMP\_25) = 0 TMP\_26 = 1 not(TMP\_26) = 0 TMP\_27 = 2 TMP\_28 = 0 not(TMP\_28) = 1 TMP\_29 = 0 not(TMP\_29) = 1 TMP\_30 = 1 not(TMP\_30) = 0 TMP\_31 = 1 not(TMP\_31) = 0 TMP\_32 = 1 not(TMP\_32) = 0 TMP\_33 = 2 TMP\_34 = 0 not(TMP\_34) = 1 TMP\_35 = 1 not(TMP\_35) = 0 TMP\_36 = 1 not(TMP\_36) = 0 TMP\_37 = 1 not(TMP\_37) = 0 TMP\_38 = 3 TMP\_39 = 0 not(TMP\_39) = 1 TMP\_40 = 0 not(TMP\_40) = 1 TMP\_41 = 0 TMP\_42 = 1 not(TMP\_42) = 0 TMP\_43 = 1 not(TMP\_43) = 0 TMP\_44 = 2 TMP\_45 = 0 not(TMP\_45) = 1 TMP\_46 = 0 not(TMP\_46) = 1 TMP\_47 = 1 not(TMP\_47) = 0 TMP\_48 = 1 not(TMP\_48) = 0 TMP\_49 = 1 not(TMP\_49) = 0 TMP\_50 = 2 Area\_0 = 60 Distance\_0\_Rule\_0 = 30 Distance\_1\_Rule\_0 = 2 Area\_1 = 30 Distance\_0\_Rule\_1 = 30 Distance\_1\_Rule\_1 = 1 Area\_2 = 30 Distance\_0\_Rule\_2 = 30 Distance\_1\_Rule\_2 = 1 Area\_3 = 120 -(Rule\_3\_LB) = -60 Distance\_0\_Rule\_3 = 60 -(Rule\_3\_LB) = 0 Distance\_1\_Rule\_3 = 2 TMP\_51 = 240 .

- Incomplete search - Limit reached.

Solutions: 20

Building time : 0.135s

Initialisation : 0.000s

Initial propagation : 0.018s

Resolution : 0.062s

Nodes: 42 (681.9 n/s)

Backtracks: 35

Fails: 0

Restarts: 0

Max depth: 6

Memory: -2mb

Variables: 146

Constraints: 133

## Rules = 4 - Missing Rules = 1

- Solution #1 found. 1 Solutions, Resolution 0.060s, 14 Nodes (232.3 n/s), 0 Backtracks, 0 Fails, 0 Restarts

Rule\_4\_LB = 60 Rule\_4\_UB = 115 Rule\_4\_LB = 0 Rule\_4\_UB = 2 Overlaps\_0\_0 = 0 Overlaps\_0\_1 = 0 Overlaps\_0\_2 = 0 Overlaps\_0\_3 = 0 Overlaps\_0\_4 = 0 Overlaps\_1\_0 = 0 Overlaps\_1\_1 = 0 Overlaps\_1\_2 = 0 Overlaps\_1\_3 = 0 Overlaps\_1\_4 = 0 Overlaps\_2\_0 = 0 Overlaps\_2\_1 = 0 Overlaps\_2\_2 = 0 Overlaps\_2\_3 = 0 Overlaps\_2\_4 = 0 Overlaps\_3\_0 = 0 Overlaps\_3\_1 = 0 Overlaps\_3\_2 = 0 Overlaps\_3\_3 = 0 Overlaps\_3\_4 = 0 Overlaps\_4\_0 = 0 Overlaps\_4\_1 = 0 Overlaps\_4\_2 = 0 Overlaps\_4\_3 = 0 Overlaps\_4\_4 = 0 TMP\_0 = 0 not(TMP\_0) = 1 TMP\_1 = 1 not(TMP\_1) = 0 TMP\_2 = 1 not(TMP\_2) = 0 TMP\_3 = 1 not(TMP\_3) = 0 TMP\_4 = 3 TMP\_5 = 0 not(TMP\_5) = 1 TMP\_6 = 0 not(TMP\_6) = 1 TMP\_7 = 0 TMP\_8 = 1 not(TMP\_8) = 0 TMP\_9 = 1 not(TMP\_9) = 0 TMP\_10 = 2 TMP\_11 = 0 not(TMP\_11) = 1 TMP\_12 = 0 not(TMP\_12) = 1 TMP\_13 = 1 not(TMP\_13) = 0 TMP\_14 = 1 not(TMP\_14) = 0 TMP\_15 = 1 not(TMP\_15) = 0 TMP\_16 = 2 TMP\_17 = 0 not(TMP\_17) = 1 TMP\_18 = 1 not(TMP\_18) = 0 TMP\_19 = 1 not(TMP\_19) = 0 TMP\_20 = 1 not(TMP\_20) = 0 TMP\_21 = 3 TMP\_22 = 0 not(TMP\_22) = 1 TMP\_23 = 0 not(TMP\_23) = 1 TMP\_24 = 0 TMP\_25 = 1 not(TMP\_25) = 0 TMP\_26 = 1 not(TMP\_26) = 0 TMP\_27 = 2 TMP\_28 = 0 not(TMP\_28) = 1 TMP\_29 = 0 not(TMP\_29) = 1 TMP\_30 = 1 not(TMP\_30) = 0 TMP\_31 = 1 not(TMP\_31) = 0 TMP\_32 = 1 not(TMP\_32) = 0 TMP\_33 = 2 TMP\_34 = 0 not(TMP\_34) = 1 TMP\_35 = 1 not(TMP\_35) = 0 TMP\_36 = 1 not(TMP\_36) = 0 TMP\_37 = 1 not(TMP\_37) = 0 TMP\_38 = 3 TMP\_39 = 0 not(TMP\_39) = 1 TMP\_40 = 0 not(TMP\_40) = 1 TMP\_41 = 0 TMP\_42 = 1 not(TMP\_42) = 0 TMP\_43 = 1 not(TMP\_43) = 0 TMP\_44 = 2 TMP\_45 = 0 not(TMP\_45) = 1 TMP\_46 = 0 not(TMP\_46) = 1 TMP\_47 = 1 not(TMP\_47) = 0 TMP\_48 = 1 not(TMP\_48) = 0 TMP\_49 = 1 not(TMP\_49) = 0 TMP\_50 = 2 TMP\_51 = 0 not(TMP\_51) = 1 TMP\_52 = 1 not(TMP\_52) = 0 TMP\_53 = 1 not(TMP\_53) = 0 TMP\_54 = 1 not(TMP\_54) = 0 TMP\_55 = 3 TMP\_56 = 0 not(TMP\_56) = 1 TMP\_57 = 0 not(TMP\_57) = 1 TMP\_58 = 0 TMP\_59 = 1 not(TMP\_59) = 0 TMP\_60 = 1 not(TMP\_60) = 0 TMP\_61 = 2 TMP\_62 = 0 not(TMP\_62) = 1 TMP\_63 = 0 not(TMP\_63) = 1 TMP\_64 = 1 not(TMP\_64) = 0 TMP\_65 = 1 not(TMP\_65) = 0 TMP\_66 = 1 not(TMP\_66) = 0 TMP\_67 = 2 Area\_0 = 60 Distance\_0\_Rule\_0 = 30 Distance\_1\_Rule\_0 = 2 Area\_1 = 30 Distance\_0\_Rule\_1 = 30 Distance\_1\_Rule\_1 = 1 Area\_2 = 30 Distance\_0\_Rule\_2 = 30 Distance\_1\_Rule\_2 = 1 Area\_3 = 10 Distance\_0\_Rule\_3 = 10 Distance\_1\_Rule\_3 = 1 Area\_4 = 110 -(Rule\_4\_LB) = -60 Distance\_0\_Rule\_4 = 55 -(Rule\_4\_LB) = 0 Distance\_1\_Rule\_4 = 2 TMP\_68 = 240 .

- Solution #2 found. 2 Solutions, Resolution 0.077s, 17 Nodes (221.6 n/s), 1 Backtracks, 0 Fails, 0 Restarts

Rule\_4\_LB = 61 Rule\_4\_UB = 116 Rule\_4\_LB = 0 Rule\_4\_UB = 2 Overlaps\_0\_0 = 0 Overlaps\_0\_1 = 0 Overlaps\_0\_2 = 0 Overlaps\_0\_3 = 0 Overlaps\_0\_4 = 0 Overlaps\_1\_0 = 0 Overlaps\_1\_1 = 0 Overlaps\_1\_2 = 0 Overlaps\_1\_3 = 0 Overlaps\_1\_4 = 0 Overlaps\_2\_0 = 0 Overlaps\_2\_1 = 0 Overlaps\_2\_2 = 0 Overlaps\_2\_3 = 0 Overlaps\_2\_4 = 0 Overlaps\_3\_0 = 0 Overlaps\_3\_1 = 0 Overlaps\_3\_2 = 0 Overlaps\_3\_3 = 0 Overlaps\_3\_4 = 0 Overlaps\_4\_0 = 0 Overlaps\_4\_1 = 0 Overlaps\_4\_2 = 0 Overlaps\_4\_3 = 0 Overlaps\_4\_4 = 0 TMP\_0 = 0 not(TMP\_0) = 1 TMP\_1 = 1 not(TMP\_1) = 0 TMP\_2 = 1 not(TMP\_2) = 0 TMP\_3 = 1 not(TMP\_3) = 0 TMP\_4 = 3 TMP\_5 = 0 not(TMP\_5) = 1 TMP\_6 = 0 not(TMP\_6) = 1 TMP\_7 = 0 TMP\_8 = 1 not(TMP\_8) = 0 TMP\_9 = 1 not(TMP\_9) = 0 TMP\_10 = 2 TMP\_11 = 0 not(TMP\_11) = 1 TMP\_12 = 0 not(TMP\_12) = 1 TMP\_13 = 1 not(TMP\_13) = 0 TMP\_14 = 1 not(TMP\_14) = 0 TMP\_15 = 1 not(TMP\_15) = 0 TMP\_16 = 2 TMP\_17 = 0 not(TMP\_17) = 1 TMP\_18 = 1 not(TMP\_18) = 0 TMP\_19 = 1 not(TMP\_19) = 0 TMP\_20 = 1 not(TMP\_20) = 0 TMP\_21 = 3 TMP\_22 = 0 not(TMP\_22) = 1 TMP\_23 = 0 not(TMP\_23) = 1 TMP\_24 = 0 TMP\_25 = 1 not(TMP\_25) = 0 TMP\_26 = 1 not(TMP\_26) = 0 TMP\_27 = 2 TMP\_28 = 0 not(TMP\_28) = 1 TMP\_29 = 0 not(TMP\_29) = 1 TMP\_30 = 1 not(TMP\_30) = 0 TMP\_31 = 1 not(TMP\_31) = 0 TMP\_32 = 1 not(TMP\_32) = 0 TMP\_33 = 2 TMP\_34 = 0 not(TMP\_34) = 1 TMP\_35 = 1 not(TMP\_35) = 0 TMP\_36 = 1 not(TMP\_36) = 0 TMP\_37 = 1 not(TMP\_37) = 0 TMP\_38 = 3 TMP\_39 = 0 not(TMP\_39) = 1 TMP\_40 = 0 not(TMP\_40) = 1 TMP\_41 = 0 TMP\_42 = 1 not(TMP\_42) = 0 TMP\_43 = 1 not(TMP\_43) = 0 TMP\_44 = 2 TMP\_45 = 0 not(TMP\_45) = 1 TMP\_46 = 0 not(TMP\_46) = 1 TMP\_47 = 1 not(TMP\_47) = 0 TMP\_48 = 1 not(TMP\_48) = 0 TMP\_49 = 1 not(TMP\_49) = 0 TMP\_50 = 2 TMP\_51 = 0 not(TMP\_51) = 1 TMP\_52 = 1 not(TMP\_52) = 0 TMP\_53 = 1 not(TMP\_53) = 0 TMP\_54 = 1 not(TMP\_54) = 0 TMP\_55 = 3 TMP\_56 = 0 not(TMP\_56) = 1 TMP\_57 = 0 not(TMP\_57) = 1 TMP\_58 = 0 TMP\_59 = 1 not(TMP\_59) = 0 TMP\_60 = 1 not(TMP\_60) = 0 TMP\_61 = 2 TMP\_62 = 0 not(TMP\_62) = 1 TMP\_63 = 0 not(TMP\_63) = 1 TMP\_64 = 1 not(TMP\_64) = 0 TMP\_65 = 1 not(TMP\_65) = 0 TMP\_66 = 1 not(TMP\_66) = 0 TMP\_67 = 2 Area\_0 = 60 Distance\_0\_Rule\_0 = 30 Distance\_1\_Rule\_0 = 2 Area\_1 = 30 Distance\_0\_Rule\_1 = 30 Distance\_1\_Rule\_1 = 1 Area\_2 = 30 Distance\_0\_Rule\_2 = 30 Distance\_1\_Rule\_2 = 1 Area\_3 = 10 Distance\_0\_Rule\_3 = 10 Distance\_1\_Rule\_3 = 1 Area\_4 = 110 -(Rule\_4\_LB) = -61 Distance\_0\_Rule\_4 = 55 -(Rule\_4\_LB) = 0 Distance\_1\_Rule\_4 = 2 TMP\_68 = 240 .

- Solution #3 found. 3 Solutions, Resolution 0.083s, 18 Nodes (215.9 n/s), 2 Backtracks, 0 Fails, 0 Restarts

Rule\_4\_LB = 60 Rule\_4\_UB = 116 Rule\_4\_LB = 0 Rule\_4\_UB = 2 Overlaps\_0\_0 = 0 Overlaps\_0\_1 = 0 Overlaps\_0\_2 = 0 Overlaps\_0\_3 = 0 Overlaps\_0\_4 = 0 Overlaps\_1\_0 = 0 Overlaps\_1\_1 = 0 Overlaps\_1\_2 = 0 Overlaps\_1\_3 = 0 Overlaps\_1\_4 = 0 Overlaps\_2\_0 = 0 Overlaps\_2\_1 = 0 Overlaps\_2\_2 = 0 Overlaps\_2\_3 = 0 Overlaps\_2\_4 = 0 Overlaps\_3\_0 = 0 Overlaps\_3\_1 = 0 Overlaps\_3\_2 = 0 Overlaps\_3\_3 = 0 Overlaps\_3\_4 = 0 Overlaps\_4\_0 = 0 Overlaps\_4\_1 = 0 Overlaps\_4\_2 = 0 Overlaps\_4\_3 = 0 Overlaps\_4\_4 = 0 TMP\_0 = 0 not(TMP\_0) = 1 TMP\_1 = 1 not(TMP\_1) = 0 TMP\_2 = 1 not(TMP\_2) = 0 TMP\_3 = 1 not(TMP\_3) = 0 TMP\_4 = 3 TMP\_5 = 0 not(TMP\_5) = 1 TMP\_6 = 0 not(TMP\_6) = 1 TMP\_7 = 0 TMP\_8 = 1 not(TMP\_8) = 0 TMP\_9 = 1 not(TMP\_9) = 0 TMP\_10 = 2 TMP\_11 = 0 not(TMP\_11) = 1 TMP\_12 = 0 not(TMP\_12) = 1 TMP\_13 = 1 not(TMP\_13) = 0 TMP\_14 = 1 not(TMP\_14) = 0 TMP\_15 = 1 not(TMP\_15) = 0 TMP\_16 = 2 TMP\_17 = 0 not(TMP\_17) = 1 TMP\_18 = 1 not(TMP\_18) = 0 TMP\_19 = 1 not(TMP\_19) = 0 TMP\_20 = 1 not(TMP\_20) = 0 TMP\_21 = 3 TMP\_22 = 0 not(TMP\_22) = 1 TMP\_23 = 0 not(TMP\_23) = 1 TMP\_24 = 0 TMP\_25 = 1 not(TMP\_25) = 0 TMP\_26 = 1 not(TMP\_26) = 0 TMP\_27 = 2 TMP\_28 = 0 not(TMP\_28) = 1 TMP\_29 = 0 not(TMP\_29) = 1 TMP\_30 = 1 not(TMP\_30) = 0 TMP\_31 = 1 not(TMP\_31) = 0 TMP\_32 = 1 not(TMP\_32) = 0 TMP\_33 = 2 TMP\_34 = 0 not(TMP\_34) = 1 TMP\_35 = 1 not(TMP\_35) = 0 TMP\_36 = 1 not(TMP\_36) = 0 TMP\_37 = 1 not(TMP\_37) = 0 TMP\_38 = 3 TMP\_39 = 0 not(TMP\_39) = 1 TMP\_40 = 0 not(TMP\_40) = 1 TMP\_41 = 0 TMP\_42 = 1 not(TMP\_42) = 0 TMP\_43 = 1 not(TMP\_43) = 0 TMP\_44 = 2 TMP\_45 = 0 not(TMP\_45) = 1 TMP\_46 = 0 not(TMP\_46) = 1 TMP\_47 = 1 not(TMP\_47) = 0 TMP\_48 = 1 not(TMP\_48) = 0 TMP\_49 = 1 not(TMP\_49) = 0 TMP\_50 = 2 TMP\_51 = 0 not(TMP\_51) = 1 TMP\_52 = 1 not(TMP\_52) = 0 TMP\_53 = 1 not(TMP\_53) = 0 TMP\_54 = 1 not(TMP\_54) = 0 TMP\_55 = 3 TMP\_56 = 0 not(TMP\_56) = 1 TMP\_57 = 0 not(TMP\_57) = 1 TMP\_58 = 0 TMP\_59 = 1 not(TMP\_59) = 0 TMP\_60 = 1 not(TMP\_60) = 0 TMP\_61 = 2 TMP\_62 = 0 not(TMP\_62) = 1 TMP\_63 = 0 not(TMP\_63) = 1 TMP\_64 = 1 not(TMP\_64) = 0 TMP\_65 = 1 not(TMP\_65) = 0 TMP\_66 = 1 not(TMP\_66) = 0 TMP\_67 = 2 Area\_0 = 60 Distance\_0\_Rule\_0 = 30 Distance\_1\_Rule\_0 = 2 Area\_1 = 30 Distance\_0\_Rule\_1 = 30 Distance\_1\_Rule\_1 = 1 Area\_2 = 30 Distance\_0\_Rule\_2 = 30 Distance\_1\_Rule\_2 = 1 Area\_3 = 10 Distance\_0\_Rule\_3 = 10 Distance\_1\_Rule\_3 = 1 Area\_4 = 112 -(Rule\_4\_LB) = -60 Distance\_0\_Rule\_4 = 56 -(Rule\_4\_LB) = 0 Distance\_1\_Rule\_4 = 2 TMP\_68 = 242 .

- Solution #4 found. 4 Solutions, Resolution 0.090s, 21 Nodes (233.8 n/s), 4 Backtracks, 0 Fails, 0 Restarts

Rule\_4\_LB = 62 Rule\_4\_UB = 117 Rule\_4\_LB = 0 Rule\_4\_UB = 2 Overlaps\_0\_0 = 0 Overlaps\_0\_1 = 0 Overlaps\_0\_2 = 0 Overlaps\_0\_3 = 0 Overlaps\_0\_4 = 0 Overlaps\_1\_0 = 0 Overlaps\_1\_1 = 0 Overlaps\_1\_2 = 0 Overlaps\_1\_3 = 0 Overlaps\_1\_4 = 0 Overlaps\_2\_0 = 0 Overlaps\_2\_1 = 0 Overlaps\_2\_2 = 0 Overlaps\_2\_3 = 0 Overlaps\_2\_4 = 0 Overlaps\_3\_0 = 0 Overlaps\_3\_1 = 0 Overlaps\_3\_2 = 0 Overlaps\_3\_3 = 0 Overlaps\_3\_4 = 0 Overlaps\_4\_0 = 0 Overlaps\_4\_1 = 0 Overlaps\_4\_2 = 0 Overlaps\_4\_3 = 0 Overlaps\_4\_4 = 0 TMP\_0 = 0 not(TMP\_0) = 1 TMP\_1 = 1 not(TMP\_1) = 0 TMP\_2 = 1 not(TMP\_2) = 0 TMP\_3 = 1 not(TMP\_3) = 0 TMP\_4 = 3 TMP\_5 = 0 not(TMP\_5) = 1 TMP\_6 = 0 not(TMP\_6) = 1 TMP\_7 = 0 TMP\_8 = 1 not(TMP\_8) = 0 TMP\_9 = 1 not(TMP\_9) = 0 TMP\_10 = 2 TMP\_11 = 0 not(TMP\_11) = 1 TMP\_12 = 0 not(TMP\_12) = 1 TMP\_13 = 1 not(TMP\_13) = 0 TMP\_14 = 1 not(TMP\_14) = 0 TMP\_15 = 1 not(TMP\_15) = 0 TMP\_16 = 2 TMP\_17 = 0 not(TMP\_17) = 1 TMP\_18 = 1 not(TMP\_18) = 0 TMP\_19 = 1 not(TMP\_19) = 0 TMP\_20 = 1 not(TMP\_20) = 0 TMP\_21 = 3 TMP\_22 = 0 not(TMP\_22) = 1 TMP\_23 = 0 not(TMP\_23) = 1 TMP\_24 = 0 TMP\_25 = 1 not(TMP\_25) = 0 TMP\_26 = 1 not(TMP\_26) = 0 TMP\_27 = 2 TMP\_28 = 0 not(TMP\_28) = 1 TMP\_29 = 0 not(TMP\_29) = 1 TMP\_30 = 1 not(TMP\_30) = 0 TMP\_31 = 1 not(TMP\_31) = 0 TMP\_32 = 1 not(TMP\_32) = 0 TMP\_33 = 2 TMP\_34 = 0 not(TMP\_34) = 1 TMP\_35 = 1 not(TMP\_35) = 0 TMP\_36 = 1 not(TMP\_36) = 0 TMP\_37 = 1 not(TMP\_37) = 0 TMP\_38 = 3 TMP\_39 = 0 not(TMP\_39) = 1 TMP\_40 = 0 not(TMP\_40) = 1 TMP\_41 = 0 TMP\_42 = 1 not(TMP\_42) = 0 TMP\_43 = 1 not(TMP\_43) = 0 TMP\_44 = 2 TMP\_45 = 0 not(TMP\_45) = 1 TMP\_46 = 0 not(TMP\_46) = 1 TMP\_47 = 1 not(TMP\_47) = 0 TMP\_48 = 1 not(TMP\_48) = 0 TMP\_49 = 1 not(TMP\_49) = 0 TMP\_50 = 2 TMP\_51 = 0 not(TMP\_51) = 1 TMP\_52 = 1 not(TMP\_52) = 0 TMP\_53 = 1 not(TMP\_53) = 0 TMP\_54 = 1 not(TMP\_54) = 0 TMP\_55 = 3 TMP\_56 = 0 not(TMP\_56) = 1 TMP\_57 = 0 not(TMP\_57) = 1 TMP\_58 = 0 TMP\_59 = 1 not(TMP\_59) = 0 TMP\_60 = 1 not(TMP\_60) = 0 TMP\_61 = 2 TMP\_62 = 0 not(TMP\_62) = 1 TMP\_63 = 0 not(TMP\_63) = 1 TMP\_64 = 1 not(TMP\_64) = 0 TMP\_65 = 1 not(TMP\_65) = 0 TMP\_66 = 1 not(TMP\_66) = 0 TMP\_67 = 2 Area\_0 = 60 Distance\_0\_Rule\_0 = 30 Distance\_1\_Rule\_0 = 2 Area\_1 = 30 Distance\_0\_Rule\_1 = 30 Distance\_1\_Rule\_1 = 1 Area\_2 = 30 Distance\_0\_Rule\_2 = 30 Distance\_1\_Rule\_2 = 1 Area\_3 = 10 Distance\_0\_Rule\_3 = 10 Distance\_1\_Rule\_3 = 1 Area\_4 = 110 -(Rule\_4\_LB) = -62 Distance\_0\_Rule\_4 = 55 -(Rule\_4\_LB) = 0 Distance\_1\_Rule\_4 = 2 TMP\_68 = 240 .

- Solution #5 found. 5 Solutions, Resolution 0.094s, 23 Nodes (244.0 n/s), 5 Backtracks, 0 Fails, 0 Restarts

Rule\_4\_LB = 60 Rule\_4\_UB = 117 Rule\_4\_LB = 0 Rule\_4\_UB = 2 Overlaps\_0\_0 = 0 Overlaps\_0\_1 = 0 Overlaps\_0\_2 = 0 Overlaps\_0\_3 = 0 Overlaps\_0\_4 = 0 Overlaps\_1\_0 = 0 Overlaps\_1\_1 = 0 Overlaps\_1\_2 = 0 Overlaps\_1\_3 = 0 Overlaps\_1\_4 = 0 Overlaps\_2\_0 = 0 Overlaps\_2\_1 = 0 Overlaps\_2\_2 = 0 Overlaps\_2\_3 = 0 Overlaps\_2\_4 = 0 Overlaps\_3\_0 = 0 Overlaps\_3\_1 = 0 Overlaps\_3\_2 = 0 Overlaps\_3\_3 = 0 Overlaps\_3\_4 = 0 Overlaps\_4\_0 = 0 Overlaps\_4\_1 = 0 Overlaps\_4\_2 = 0 Overlaps\_4\_3 = 0 Overlaps\_4\_4 = 0 TMP\_0 = 0 not(TMP\_0) = 1 TMP\_1 = 1 not(TMP\_1) = 0 TMP\_2 = 1 not(TMP\_2) = 0 TMP\_3 = 1 not(TMP\_3) = 0 TMP\_4 = 3 TMP\_5 = 0 not(TMP\_5) = 1 TMP\_6 = 0 not(TMP\_6) = 1 TMP\_7 = 0 TMP\_8 = 1 not(TMP\_8) = 0 TMP\_9 = 1 not(TMP\_9) = 0 TMP\_10 = 2 TMP\_11 = 0 not(TMP\_11) = 1 TMP\_12 = 0 not(TMP\_12) = 1 TMP\_13 = 1 not(TMP\_13) = 0 TMP\_14 = 1 not(TMP\_14) = 0 TMP\_15 = 1 not(TMP\_15) = 0 TMP\_16 = 2 TMP\_17 = 0 not(TMP\_17) = 1 TMP\_18 = 1 not(TMP\_18) = 0 TMP\_19 = 1 not(TMP\_19) = 0 TMP\_20 = 1 not(TMP\_20) = 0 TMP\_21 = 3 TMP\_22 = 0 not(TMP\_22) = 1 TMP\_23 = 0 not(TMP\_23) = 1 TMP\_24 = 0 TMP\_25 = 1 not(TMP\_25) = 0 TMP\_26 = 1 not(TMP\_26) = 0 TMP\_27 = 2 TMP\_28 = 0 not(TMP\_28) = 1 TMP\_29 = 0 not(TMP\_29) = 1 TMP\_30 = 1 not(TMP\_30) = 0 TMP\_31 = 1 not(TMP\_31) = 0 TMP\_32 = 1 not(TMP\_32) = 0 TMP\_33 = 2 TMP\_34 = 0 not(TMP\_34) = 1 TMP\_35 = 1 not(TMP\_35) = 0 TMP\_36 = 1 not(TMP\_36) = 0 TMP\_37 = 1 not(TMP\_37) = 0 TMP\_38 = 3 TMP\_39 = 0 not(TMP\_39) = 1 TMP\_40 = 0 not(TMP\_40) = 1 TMP\_41 = 0 TMP\_42 = 1 not(TMP\_42) = 0 TMP\_43 = 1 not(TMP\_43) = 0 TMP\_44 = 2 TMP\_45 = 0 not(TMP\_45) = 1 TMP\_46 = 0 not(TMP\_46) = 1 TMP\_47 = 1 not(TMP\_47) = 0 TMP\_48 = 1 not(TMP\_48) = 0 TMP\_49 = 1 not(TMP\_49) = 0 TMP\_50 = 2 TMP\_51 = 0 not(TMP\_51) = 1 TMP\_52 = 1 not(TMP\_52) = 0 TMP\_53 = 1 not(TMP\_53) = 0 TMP\_54 = 1 not(TMP\_54) = 0 TMP\_55 = 3 TMP\_56 = 0 not(TMP\_56) = 1 TMP\_57 = 0 not(TMP\_57) = 1 TMP\_58 = 0 TMP\_59 = 1 not(TMP\_59) = 0 TMP\_60 = 1 not(TMP\_60) = 0 TMP\_61 = 2 TMP\_62 = 0 not(TMP\_62) = 1 TMP\_63 = 0 not(TMP\_63) = 1 TMP\_64 = 1 not(TMP\_64) = 0 TMP\_65 = 1 not(TMP\_65) = 0 TMP\_66 = 1 not(TMP\_66) = 0 TMP\_67 = 2 Area\_0 = 60 Distance\_0\_Rule\_0 = 30 Distance\_1\_Rule\_0 = 2 Area\_1 = 30 Distance\_0\_Rule\_1 = 30 Distance\_1\_Rule\_1 = 1 Area\_2 = 30 Distance\_0\_Rule\_2 = 30 Distance\_1\_Rule\_2 = 1 Area\_3 = 10 Distance\_0\_Rule\_3 = 10 Distance\_1\_Rule\_3 = 1 Area\_4 = 114 -(Rule\_4\_LB) = -60 Distance\_0\_Rule\_4 = 57 -(Rule\_4\_LB) = 0 Distance\_1\_Rule\_4 = 2 TMP\_68 = 244 .

- Solution #6 found. 6 Solutions, Resolution 0.097s, 24 Nodes (246.8 n/s), 6 Backtracks, 0 Fails, 0 Restarts

Rule\_4\_LB = 61 Rule\_4\_UB = 117 Rule\_4\_LB = 0 Rule\_4\_UB = 2 Overlaps\_0\_0 = 0 Overlaps\_0\_1 = 0 Overlaps\_0\_2 = 0 Overlaps\_0\_3 = 0 Overlaps\_0\_4 = 0 Overlaps\_1\_0 = 0 Overlaps\_1\_1 = 0 Overlaps\_1\_2 = 0 Overlaps\_1\_3 = 0 Overlaps\_1\_4 = 0 Overlaps\_2\_0 = 0 Overlaps\_2\_1 = 0 Overlaps\_2\_2 = 0 Overlaps\_2\_3 = 0 Overlaps\_2\_4 = 0 Overlaps\_3\_0 = 0 Overlaps\_3\_1 = 0 Overlaps\_3\_2 = 0 Overlaps\_3\_3 = 0 Overlaps\_3\_4 = 0 Overlaps\_4\_0 = 0 Overlaps\_4\_1 = 0 Overlaps\_4\_2 = 0 Overlaps\_4\_3 = 0 Overlaps\_4\_4 = 0 TMP\_0 = 0 not(TMP\_0) = 1 TMP\_1 = 1 not(TMP\_1) = 0 TMP\_2 = 1 not(TMP\_2) = 0 TMP\_3 = 1 not(TMP\_3) = 0 TMP\_4 = 3 TMP\_5 = 0 not(TMP\_5) = 1 TMP\_6 = 0 not(TMP\_6) = 1 TMP\_7 = 0 TMP\_8 = 1 not(TMP\_8) = 0 TMP\_9 = 1 not(TMP\_9) = 0 TMP\_10 = 2 TMP\_11 = 0 not(TMP\_11) = 1 TMP\_12 = 0 not(TMP\_12) = 1 TMP\_13 = 1 not(TMP\_13) = 0 TMP\_14 = 1 not(TMP\_14) = 0 TMP\_15 = 1 not(TMP\_15) = 0 TMP\_16 = 2 TMP\_17 = 0 not(TMP\_17) = 1 TMP\_18 = 1 not(TMP\_18) = 0 TMP\_19 = 1 not(TMP\_19) = 0 TMP\_20 = 1 not(TMP\_20) = 0 TMP\_21 = 3 TMP\_22 = 0 not(TMP\_22) = 1 TMP\_23 = 0 not(TMP\_23) = 1 TMP\_24 = 0 TMP\_25 = 1 not(TMP\_25) = 0 TMP\_26 = 1 not(TMP\_26) = 0 TMP\_27 = 2 TMP\_28 = 0 not(TMP\_28) = 1 TMP\_29 = 0 not(TMP\_29) = 1 TMP\_30 = 1 not(TMP\_30) = 0 TMP\_31 = 1 not(TMP\_31) = 0 TMP\_32 = 1 not(TMP\_32) = 0 TMP\_33 = 2 TMP\_34 = 0 not(TMP\_34) = 1 TMP\_35 = 1 not(TMP\_35) = 0 TMP\_36 = 1 not(TMP\_36) = 0 TMP\_37 = 1 not(TMP\_37) = 0 TMP\_38 = 3 TMP\_39 = 0 not(TMP\_39) = 1 TMP\_40 = 0 not(TMP\_40) = 1 TMP\_41 = 0 TMP\_42 = 1 not(TMP\_42) = 0 TMP\_43 = 1 not(TMP\_43) = 0 TMP\_44 = 2 TMP\_45 = 0 not(TMP\_45) = 1 TMP\_46 = 0 not(TMP\_46) = 1 TMP\_47 = 1 not(TMP\_47) = 0 TMP\_48 = 1 not(TMP\_48) = 0 TMP\_49 = 1 not(TMP\_49) = 0 TMP\_50 = 2 TMP\_51 = 0 not(TMP\_51) = 1 TMP\_52 = 1 not(TMP\_52) = 0 TMP\_53 = 1 not(TMP\_53) = 0 TMP\_54 = 1 not(TMP\_54) = 0 TMP\_55 = 3 TMP\_56 = 0 not(TMP\_56) = 1 TMP\_57 = 0 not(TMP\_57) = 1 TMP\_58 = 0 TMP\_59 = 1 not(TMP\_59) = 0 TMP\_60 = 1 not(TMP\_60) = 0 TMP\_61 = 2 TMP\_62 = 0 not(TMP\_62) = 1 TMP\_63 = 0 not(TMP\_63) = 1 TMP\_64 = 1 not(TMP\_64) = 0 TMP\_65 = 1 not(TMP\_65) = 0 TMP\_66 = 1 not(TMP\_66) = 0 TMP\_67 = 2 Area\_0 = 60 Distance\_0\_Rule\_0 = 30 Distance\_1\_Rule\_0 = 2 Area\_1 = 30 Distance\_0\_Rule\_1 = 30 Distance\_1\_Rule\_1 = 1 Area\_2 = 30 Distance\_0\_Rule\_2 = 30 Distance\_1\_Rule\_2 = 1 Area\_3 = 10 Distance\_0\_Rule\_3 = 10 Distance\_1\_Rule\_3 = 1 Area\_4 = 112 -(Rule\_4\_LB) = -61 Distance\_0\_Rule\_4 = 56 -(Rule\_4\_LB) = 0 Distance\_1\_Rule\_4 = 2 TMP\_68 = 242 .

- Solution #7 found. 7 Solutions, Resolution 0.102s, 27 Nodes (263.9 n/s), 9 Backtracks, 0 Fails, 0 Restarts

Rule\_4\_LB = 63 Rule\_4\_UB = 118 Rule\_4\_LB = 0 Rule\_4\_UB = 2 Overlaps\_0\_0 = 0 Overlaps\_0\_1 = 0 Overlaps\_0\_2 = 0 Overlaps\_0\_3 = 0 Overlaps\_0\_4 = 0 Overlaps\_1\_0 = 0 Overlaps\_1\_1 = 0 Overlaps\_1\_2 = 0 Overlaps\_1\_3 = 0 Overlaps\_1\_4 = 0 Overlaps\_2\_0 = 0 Overlaps\_2\_1 = 0 Overlaps\_2\_2 = 0 Overlaps\_2\_3 = 0 Overlaps\_2\_4 = 0 Overlaps\_3\_0 = 0 Overlaps\_3\_1 = 0 Overlaps\_3\_2 = 0 Overlaps\_3\_3 = 0 Overlaps\_3\_4 = 0 Overlaps\_4\_0 = 0 Overlaps\_4\_1 = 0 Overlaps\_4\_2 = 0 Overlaps\_4\_3 = 0 Overlaps\_4\_4 = 0 TMP\_0 = 0 not(TMP\_0) = 1 TMP\_1 = 1 not(TMP\_1) = 0 TMP\_2 = 1 not(TMP\_2) = 0 TMP\_3 = 1 not(TMP\_3) = 0 TMP\_4 = 3 TMP\_5 = 0 not(TMP\_5) = 1 TMP\_6 = 0 not(TMP\_6) = 1 TMP\_7 = 0 TMP\_8 = 1 not(TMP\_8) = 0 TMP\_9 = 1 not(TMP\_9) = 0 TMP\_10 = 2 TMP\_11 = 0 not(TMP\_11) = 1 TMP\_12 = 0 not(TMP\_12) = 1 TMP\_13 = 1 not(TMP\_13) = 0 TMP\_14 = 1 not(TMP\_14) = 0 TMP\_15 = 1 not(TMP\_15) = 0 TMP\_16 = 2 TMP\_17 = 0 not(TMP\_17) = 1 TMP\_18 = 1 not(TMP\_18) = 0 TMP\_19 = 1 not(TMP\_19) = 0 TMP\_20 = 1 not(TMP\_20) = 0 TMP\_21 = 3 TMP\_22 = 0 not(TMP\_22) = 1 TMP\_23 = 0 not(TMP\_23) = 1 TMP\_24 = 0 TMP\_25 = 1 not(TMP\_25) = 0 TMP\_26 = 1 not(TMP\_26) = 0 TMP\_27 = 2 TMP\_28 = 0 not(TMP\_28) = 1 TMP\_29 = 0 not(TMP\_29) = 1 TMP\_30 = 1 not(TMP\_30) = 0 TMP\_31 = 1 not(TMP\_31) = 0 TMP\_32 = 1 not(TMP\_32) = 0 TMP\_33 = 2 TMP\_34 = 0 not(TMP\_34) = 1 TMP\_35 = 1 not(TMP\_35) = 0 TMP\_36 = 1 not(TMP\_36) = 0 TMP\_37 = 1 not(TMP\_37) = 0 TMP\_38 = 3 TMP\_39 = 0 not(TMP\_39) = 1 TMP\_40 = 0 not(TMP\_40) = 1 TMP\_41 = 0 TMP\_42 = 1 not(TMP\_42) = 0 TMP\_43 = 1 not(TMP\_43) = 0 TMP\_44 = 2 TMP\_45 = 0 not(TMP\_45) = 1 TMP\_46 = 0 not(TMP\_46) = 1 TMP\_47 = 1 not(TMP\_47) = 0 TMP\_48 = 1 not(TMP\_48) = 0 TMP\_49 = 1 not(TMP\_49) = 0 TMP\_50 = 2 TMP\_51 = 0 not(TMP\_51) = 1 TMP\_52 = 1 not(TMP\_52) = 0 TMP\_53 = 1 not(TMP\_53) = 0 TMP\_54 = 1 not(TMP\_54) = 0 TMP\_55 = 3 TMP\_56 = 0 not(TMP\_56) = 1 TMP\_57 = 0 not(TMP\_57) = 1 TMP\_58 = 0 TMP\_59 = 1 not(TMP\_59) = 0 TMP\_60 = 1 not(TMP\_60) = 0 TMP\_61 = 2 TMP\_62 = 0 not(TMP\_62) = 1 TMP\_63 = 0 not(TMP\_63) = 1 TMP\_64 = 1 not(TMP\_64) = 0 TMP\_65 = 1 not(TMP\_65) = 0 TMP\_66 = 1 not(TMP\_66) = 0 TMP\_67 = 2 Area\_0 = 60 Distance\_0\_Rule\_0 = 30 Distance\_1\_Rule\_0 = 2 Area\_1 = 30 Distance\_0\_Rule\_1 = 30 Distance\_1\_Rule\_1 = 1 Area\_2 = 30 Distance\_0\_Rule\_2 = 30 Distance\_1\_Rule\_2 = 1 Area\_3 = 10 Distance\_0\_Rule\_3 = 10 Distance\_1\_Rule\_3 = 1 Area\_4 = 110 -(Rule\_4\_LB) = -63 Distance\_0\_Rule\_4 = 55 -(Rule\_4\_LB) = 0 Distance\_1\_Rule\_4 = 2 TMP\_68 = 240 .

- Solution #8 found. 8 Solutions, Resolution 0.105s, 29 Nodes (275.2 n/s), 10 Backtracks, 0 Fails, 0 Restarts

Rule\_4\_LB = 62 Rule\_4\_UB = 118 Rule\_4\_LB = 0 Rule\_4\_UB = 2 Overlaps\_0\_0 = 0 Overlaps\_0\_1 = 0 Overlaps\_0\_2 = 0 Overlaps\_0\_3 = 0 Overlaps\_0\_4 = 0 Overlaps\_1\_0 = 0 Overlaps\_1\_1 = 0 Overlaps\_1\_2 = 0 Overlaps\_1\_3 = 0 Overlaps\_1\_4 = 0 Overlaps\_2\_0 = 0 Overlaps\_2\_1 = 0 Overlaps\_2\_2 = 0 Overlaps\_2\_3 = 0 Overlaps\_2\_4 = 0 Overlaps\_3\_0 = 0 Overlaps\_3\_1 = 0 Overlaps\_3\_2 = 0 Overlaps\_3\_3 = 0 Overlaps\_3\_4 = 0 Overlaps\_4\_0 = 0 Overlaps\_4\_1 = 0 Overlaps\_4\_2 = 0 Overlaps\_4\_3 = 0 Overlaps\_4\_4 = 0 TMP\_0 = 0 not(TMP\_0) = 1 TMP\_1 = 1 not(TMP\_1) = 0 TMP\_2 = 1 not(TMP\_2) = 0 TMP\_3 = 1 not(TMP\_3) = 0 TMP\_4 = 3 TMP\_5 = 0 not(TMP\_5) = 1 TMP\_6 = 0 not(TMP\_6) = 1 TMP\_7 = 0 TMP\_8 = 1 not(TMP\_8) = 0 TMP\_9 = 1 not(TMP\_9) = 0 TMP\_10 = 2 TMP\_11 = 0 not(TMP\_11) = 1 TMP\_12 = 0 not(TMP\_12) = 1 TMP\_13 = 1 not(TMP\_13) = 0 TMP\_14 = 1 not(TMP\_14) = 0 TMP\_15 = 1 not(TMP\_15) = 0 TMP\_16 = 2 TMP\_17 = 0 not(TMP\_17) = 1 TMP\_18 = 1 not(TMP\_18) = 0 TMP\_19 = 1 not(TMP\_19) = 0 TMP\_20 = 1 not(TMP\_20) = 0 TMP\_21 = 3 TMP\_22 = 0 not(TMP\_22) = 1 TMP\_23 = 0 not(TMP\_23) = 1 TMP\_24 = 0 TMP\_25 = 1 not(TMP\_25) = 0 TMP\_26 = 1 not(TMP\_26) = 0 TMP\_27 = 2 TMP\_28 = 0 not(TMP\_28) = 1 TMP\_29 = 0 not(TMP\_29) = 1 TMP\_30 = 1 not(TMP\_30) = 0 TMP\_31 = 1 not(TMP\_31) = 0 TMP\_32 = 1 not(TMP\_32) = 0 TMP\_33 = 2 TMP\_34 = 0 not(TMP\_34) = 1 TMP\_35 = 1 not(TMP\_35) = 0 TMP\_36 = 1 not(TMP\_36) = 0 TMP\_37 = 1 not(TMP\_37) = 0 TMP\_38 = 3 TMP\_39 = 0 not(TMP\_39) = 1 TMP\_40 = 0 not(TMP\_40) = 1 TMP\_41 = 0 TMP\_42 = 1 not(TMP\_42) = 0 TMP\_43 = 1 not(TMP\_43) = 0 TMP\_44 = 2 TMP\_45 = 0 not(TMP\_45) = 1 TMP\_46 = 0 not(TMP\_46) = 1 TMP\_47 = 1 not(TMP\_47) = 0 TMP\_48 = 1 not(TMP\_48) = 0 TMP\_49 = 1 not(TMP\_49) = 0 TMP\_50 = 2 TMP\_51 = 0 not(TMP\_51) = 1 TMP\_52 = 1 not(TMP\_52) = 0 TMP\_53 = 1 not(TMP\_53) = 0 TMP\_54 = 1 not(TMP\_54) = 0 TMP\_55 = 3 TMP\_56 = 0 not(TMP\_56) = 1 TMP\_57 = 0 not(TMP\_57) = 1 TMP\_58 = 0 TMP\_59 = 1 not(TMP\_59) = 0 TMP\_60 = 1 not(TMP\_60) = 0 TMP\_61 = 2 TMP\_62 = 0 not(TMP\_62) = 1 TMP\_63 = 0 not(TMP\_63) = 1 TMP\_64 = 1 not(TMP\_64) = 0 TMP\_65 = 1 not(TMP\_65) = 0 TMP\_66 = 1 not(TMP\_66) = 0 TMP\_67 = 2 Area\_0 = 60 Distance\_0\_Rule\_0 = 30 Distance\_1\_Rule\_0 = 2 Area\_1 = 30 Distance\_0\_Rule\_1 = 30 Distance\_1\_Rule\_1 = 1 Area\_2 = 30 Distance\_0\_Rule\_2 = 30 Distance\_1\_Rule\_2 = 1 Area\_3 = 10 Distance\_0\_Rule\_3 = 10 Distance\_1\_Rule\_3 = 1 Area\_4 = 112 -(Rule\_4\_LB) = -62 Distance\_0\_Rule\_4 = 56 -(Rule\_4\_LB) = 0 Distance\_1\_Rule\_4 = 2 TMP\_68 = 242 .

- Solution #9 found. 9 Solutions, Resolution 0.109s, 31 Nodes (285.4 n/s), 11 Backtracks, 0 Fails, 0 Restarts

Rule\_4\_LB = 60 Rule\_4\_UB = 118 Rule\_4\_LB = 0 Rule\_4\_UB = 2 Overlaps\_0\_0 = 0 Overlaps\_0\_1 = 0 Overlaps\_0\_2 = 0 Overlaps\_0\_3 = 0 Overlaps\_0\_4 = 0 Overlaps\_1\_0 = 0 Overlaps\_1\_1 = 0 Overlaps\_1\_2 = 0 Overlaps\_1\_3 = 0 Overlaps\_1\_4 = 0 Overlaps\_2\_0 = 0 Overlaps\_2\_1 = 0 Overlaps\_2\_2 = 0 Overlaps\_2\_3 = 0 Overlaps\_2\_4 = 0 Overlaps\_3\_0 = 0 Overlaps\_3\_1 = 0 Overlaps\_3\_2 = 0 Overlaps\_3\_3 = 0 Overlaps\_3\_4 = 0 Overlaps\_4\_0 = 0 Overlaps\_4\_1 = 0 Overlaps\_4\_2 = 0 Overlaps\_4\_3 = 0 Overlaps\_4\_4 = 0 TMP\_0 = 0 not(TMP\_0) = 1 TMP\_1 = 1 not(TMP\_1) = 0 TMP\_2 = 1 not(TMP\_2) = 0 TMP\_3 = 1 not(TMP\_3) = 0 TMP\_4 = 3 TMP\_5 = 0 not(TMP\_5) = 1 TMP\_6 = 0 not(TMP\_6) = 1 TMP\_7 = 0 TMP\_8 = 1 not(TMP\_8) = 0 TMP\_9 = 1 not(TMP\_9) = 0 TMP\_10 = 2 TMP\_11 = 0 not(TMP\_11) = 1 TMP\_12 = 0 not(TMP\_12) = 1 TMP\_13 = 1 not(TMP\_13) = 0 TMP\_14 = 1 not(TMP\_14) = 0 TMP\_15 = 1 not(TMP\_15) = 0 TMP\_16 = 2 TMP\_17 = 0 not(TMP\_17) = 1 TMP\_18 = 1 not(TMP\_18) = 0 TMP\_19 = 1 not(TMP\_19) = 0 TMP\_20 = 1 not(TMP\_20) = 0 TMP\_21 = 3 TMP\_22 = 0 not(TMP\_22) = 1 TMP\_23 = 0 not(TMP\_23) = 1 TMP\_24 = 0 TMP\_25 = 1 not(TMP\_25) = 0 TMP\_26 = 1 not(TMP\_26) = 0 TMP\_27 = 2 TMP\_28 = 0 not(TMP\_28) = 1 TMP\_29 = 0 not(TMP\_29) = 1 TMP\_30 = 1 not(TMP\_30) = 0 TMP\_31 = 1 not(TMP\_31) = 0 TMP\_32 = 1 not(TMP\_32) = 0 TMP\_33 = 2 TMP\_34 = 0 not(TMP\_34) = 1 TMP\_35 = 1 not(TMP\_35) = 0 TMP\_36 = 1 not(TMP\_36) = 0 TMP\_37 = 1 not(TMP\_37) = 0 TMP\_38 = 3 TMP\_39 = 0 not(TMP\_39) = 1 TMP\_40 = 0 not(TMP\_40) = 1 TMP\_41 = 0 TMP\_42 = 1 not(TMP\_42) = 0 TMP\_43 = 1 not(TMP\_43) = 0 TMP\_44 = 2 TMP\_45 = 0 not(TMP\_45) = 1 TMP\_46 = 0 not(TMP\_46) = 1 TMP\_47 = 1 not(TMP\_47) = 0 TMP\_48 = 1 not(TMP\_48) = 0 TMP\_49 = 1 not(TMP\_49) = 0 TMP\_50 = 2 TMP\_51 = 0 not(TMP\_51) = 1 TMP\_52 = 1 not(TMP\_52) = 0 TMP\_53 = 1 not(TMP\_53) = 0 TMP\_54 = 1 not(TMP\_54) = 0 TMP\_55 = 3 TMP\_56 = 0 not(TMP\_56) = 1 TMP\_57 = 0 not(TMP\_57) = 1 TMP\_58 = 0 TMP\_59 = 1 not(TMP\_59) = 0 TMP\_60 = 1 not(TMP\_60) = 0 TMP\_61 = 2 TMP\_62 = 0 not(TMP\_62) = 1 TMP\_63 = 0 not(TMP\_63) = 1 TMP\_64 = 1 not(TMP\_64) = 0 TMP\_65 = 1 not(TMP\_65) = 0 TMP\_66 = 1 not(TMP\_66) = 0 TMP\_67 = 2 Area\_0 = 60 Distance\_0\_Rule\_0 = 30 Distance\_1\_Rule\_0 = 2 Area\_1 = 30 Distance\_0\_Rule\_1 = 30 Distance\_1\_Rule\_1 = 1 Area\_2 = 30 Distance\_0\_Rule\_2 = 30 Distance\_1\_Rule\_2 = 1 Area\_3 = 10 Distance\_0\_Rule\_3 = 10 Distance\_1\_Rule\_3 = 1 Area\_4 = 116 -(Rule\_4\_LB) = -60 Distance\_0\_Rule\_4 = 58 -(Rule\_4\_LB) = 0 Distance\_1\_Rule\_4 = 2 TMP\_68 = 246 .

- Solution #10 found. 10 Solutions, Resolution 0.112s, 32 Nodes (286.3 n/s), 12 Backtracks, 0 Fails, 0 Restarts

Rule\_4\_LB = 61 Rule\_4\_UB = 118 Rule\_4\_LB = 0 Rule\_4\_UB = 2 Overlaps\_0\_0 = 0 Overlaps\_0\_1 = 0 Overlaps\_0\_2 = 0 Overlaps\_0\_3 = 0 Overlaps\_0\_4 = 0 Overlaps\_1\_0 = 0 Overlaps\_1\_1 = 0 Overlaps\_1\_2 = 0 Overlaps\_1\_3 = 0 Overlaps\_1\_4 = 0 Overlaps\_2\_0 = 0 Overlaps\_2\_1 = 0 Overlaps\_2\_2 = 0 Overlaps\_2\_3 = 0 Overlaps\_2\_4 = 0 Overlaps\_3\_0 = 0 Overlaps\_3\_1 = 0 Overlaps\_3\_2 = 0 Overlaps\_3\_3 = 0 Overlaps\_3\_4 = 0 Overlaps\_4\_0 = 0 Overlaps\_4\_1 = 0 Overlaps\_4\_2 = 0 Overlaps\_4\_3 = 0 Overlaps\_4\_4 = 0 TMP\_0 = 0 not(TMP\_0) = 1 TMP\_1 = 1 not(TMP\_1) = 0 TMP\_2 = 1 not(TMP\_2) = 0 TMP\_3 = 1 not(TMP\_3) = 0 TMP\_4 = 3 TMP\_5 = 0 not(TMP\_5) = 1 TMP\_6 = 0 not(TMP\_6) = 1 TMP\_7 = 0 TMP\_8 = 1 not(TMP\_8) = 0 TMP\_9 = 1 not(TMP\_9) = 0 TMP\_10 = 2 TMP\_11 = 0 not(TMP\_11) = 1 TMP\_12 = 0 not(TMP\_12) = 1 TMP\_13 = 1 not(TMP\_13) = 0 TMP\_14 = 1 not(TMP\_14) = 0 TMP\_15 = 1 not(TMP\_15) = 0 TMP\_16 = 2 TMP\_17 = 0 not(TMP\_17) = 1 TMP\_18 = 1 not(TMP\_18) = 0 TMP\_19 = 1 not(TMP\_19) = 0 TMP\_20 = 1 not(TMP\_20) = 0 TMP\_21 = 3 TMP\_22 = 0 not(TMP\_22) = 1 TMP\_23 = 0 not(TMP\_23) = 1 TMP\_24 = 0 TMP\_25 = 1 not(TMP\_25) = 0 TMP\_26 = 1 not(TMP\_26) = 0 TMP\_27 = 2 TMP\_28 = 0 not(TMP\_28) = 1 TMP\_29 = 0 not(TMP\_29) = 1 TMP\_30 = 1 not(TMP\_30) = 0 TMP\_31 = 1 not(TMP\_31) = 0 TMP\_32 = 1 not(TMP\_32) = 0 TMP\_33 = 2 TMP\_34 = 0 not(TMP\_34) = 1 TMP\_35 = 1 not(TMP\_35) = 0 TMP\_36 = 1 not(TMP\_36) = 0 TMP\_37 = 1 not(TMP\_37) = 0 TMP\_38 = 3 TMP\_39 = 0 not(TMP\_39) = 1 TMP\_40 = 0 not(TMP\_40) = 1 TMP\_41 = 0 TMP\_42 = 1 not(TMP\_42) = 0 TMP\_43 = 1 not(TMP\_43) = 0 TMP\_44 = 2 TMP\_45 = 0 not(TMP\_45) = 1 TMP\_46 = 0 not(TMP\_46) = 1 TMP\_47 = 1 not(TMP\_47) = 0 TMP\_48 = 1 not(TMP\_48) = 0 TMP\_49 = 1 not(TMP\_49) = 0 TMP\_50 = 2 TMP\_51 = 0 not(TMP\_51) = 1 TMP\_52 = 1 not(TMP\_52) = 0 TMP\_53 = 1 not(TMP\_53) = 0 TMP\_54 = 1 not(TMP\_54) = 0 TMP\_55 = 3 TMP\_56 = 0 not(TMP\_56) = 1 TMP\_57 = 0 not(TMP\_57) = 1 TMP\_58 = 0 TMP\_59 = 1 not(TMP\_59) = 0 TMP\_60 = 1 not(TMP\_60) = 0 TMP\_61 = 2 TMP\_62 = 0 not(TMP\_62) = 1 TMP\_63 = 0 not(TMP\_63) = 1 TMP\_64 = 1 not(TMP\_64) = 0 TMP\_65 = 1 not(TMP\_65) = 0 TMP\_66 = 1 not(TMP\_66) = 0 TMP\_67 = 2 Area\_0 = 60 Distance\_0\_Rule\_0 = 30 Distance\_1\_Rule\_0 = 2 Area\_1 = 30 Distance\_0\_Rule\_1 = 30 Distance\_1\_Rule\_1 = 1 Area\_2 = 30 Distance\_0\_Rule\_2 = 30 Distance\_1\_Rule\_2 = 1 Area\_3 = 10 Distance\_0\_Rule\_3 = 10 Distance\_1\_Rule\_3 = 1 Area\_4 = 114 -(Rule\_4\_LB) = -61 Distance\_0\_Rule\_4 = 57 -(Rule\_4\_LB) = 0 Distance\_1\_Rule\_4 = 2 TMP\_68 = 244 .

- Solution #11 found. 11 Solutions, Resolution 0.115s, 35 Nodes (305.4 n/s), 16 Backtracks, 0 Fails, 0 Restarts

Rule\_4\_LB = 64 Rule\_4\_UB = 119 Rule\_4\_LB = 0 Rule\_4\_UB = 2 Overlaps\_0\_0 = 0 Overlaps\_0\_1 = 0 Overlaps\_0\_2 = 0 Overlaps\_0\_3 = 0 Overlaps\_0\_4 = 0 Overlaps\_1\_0 = 0 Overlaps\_1\_1 = 0 Overlaps\_1\_2 = 0 Overlaps\_1\_3 = 0 Overlaps\_1\_4 = 0 Overlaps\_2\_0 = 0 Overlaps\_2\_1 = 0 Overlaps\_2\_2 = 0 Overlaps\_2\_3 = 0 Overlaps\_2\_4 = 0 Overlaps\_3\_0 = 0 Overlaps\_3\_1 = 0 Overlaps\_3\_2 = 0 Overlaps\_3\_3 = 0 Overlaps\_3\_4 = 0 Overlaps\_4\_0 = 0 Overlaps\_4\_1 = 0 Overlaps\_4\_2 = 0 Overlaps\_4\_3 = 0 Overlaps\_4\_4 = 0 TMP\_0 = 0 not(TMP\_0) = 1 TMP\_1 = 1 not(TMP\_1) = 0 TMP\_2 = 1 not(TMP\_2) = 0 TMP\_3 = 1 not(TMP\_3) = 0 TMP\_4 = 3 TMP\_5 = 0 not(TMP\_5) = 1 TMP\_6 = 0 not(TMP\_6) = 1 TMP\_7 = 0 TMP\_8 = 1 not(TMP\_8) = 0 TMP\_9 = 1 not(TMP\_9) = 0 TMP\_10 = 2 TMP\_11 = 0 not(TMP\_11) = 1 TMP\_12 = 0 not(TMP\_12) = 1 TMP\_13 = 1 not(TMP\_13) = 0 TMP\_14 = 1 not(TMP\_14) = 0 TMP\_15 = 1 not(TMP\_15) = 0 TMP\_16 = 2 TMP\_17 = 0 not(TMP\_17) = 1 TMP\_18 = 1 not(TMP\_18) = 0 TMP\_19 = 1 not(TMP\_19) = 0 TMP\_20 = 1 not(TMP\_20) = 0 TMP\_21 = 3 TMP\_22 = 0 not(TMP\_22) = 1 TMP\_23 = 0 not(TMP\_23) = 1 TMP\_24 = 0 TMP\_25 = 1 not(TMP\_25) = 0 TMP\_26 = 1 not(TMP\_26) = 0 TMP\_27 = 2 TMP\_28 = 0 not(TMP\_28) = 1 TMP\_29 = 0 not(TMP\_29) = 1 TMP\_30 = 1 not(TMP\_30) = 0 TMP\_31 = 1 not(TMP\_31) = 0 TMP\_32 = 1 not(TMP\_32) = 0 TMP\_33 = 2 TMP\_34 = 0 not(TMP\_34) = 1 TMP\_35 = 1 not(TMP\_35) = 0 TMP\_36 = 1 not(TMP\_36) = 0 TMP\_37 = 1 not(TMP\_37) = 0 TMP\_38 = 3 TMP\_39 = 0 not(TMP\_39) = 1 TMP\_40 = 0 not(TMP\_40) = 1 TMP\_41 = 0 TMP\_42 = 1 not(TMP\_42) = 0 TMP\_43 = 1 not(TMP\_43) = 0 TMP\_44 = 2 TMP\_45 = 0 not(TMP\_45) = 1 TMP\_46 = 0 not(TMP\_46) = 1 TMP\_47 = 1 not(TMP\_47) = 0 TMP\_48 = 1 not(TMP\_48) = 0 TMP\_49 = 1 not(TMP\_49) = 0 TMP\_50 = 2 TMP\_51 = 0 not(TMP\_51) = 1 TMP\_52 = 1 not(TMP\_52) = 0 TMP\_53 = 1 not(TMP\_53) = 0 TMP\_54 = 1 not(TMP\_54) = 0 TMP\_55 = 3 TMP\_56 = 0 not(TMP\_56) = 1 TMP\_57 = 0 not(TMP\_57) = 1 TMP\_58 = 0 TMP\_59 = 1 not(TMP\_59) = 0 TMP\_60 = 1 not(TMP\_60) = 0 TMP\_61 = 2 TMP\_62 = 0 not(TMP\_62) = 1 TMP\_63 = 0 not(TMP\_63) = 1 TMP\_64 = 1 not(TMP\_64) = 0 TMP\_65 = 1 not(TMP\_65) = 0 TMP\_66 = 1 not(TMP\_66) = 0 TMP\_67 = 2 Area\_0 = 60 Distance\_0\_Rule\_0 = 30 Distance\_1\_Rule\_0 = 2 Area\_1 = 30 Distance\_0\_Rule\_1 = 30 Distance\_1\_Rule\_1 = 1 Area\_2 = 30 Distance\_0\_Rule\_2 = 30 Distance\_1\_Rule\_2 = 1 Area\_3 = 10 Distance\_0\_Rule\_3 = 10 Distance\_1\_Rule\_3 = 1 Area\_4 = 110 -(Rule\_4\_LB) = -64 Distance\_0\_Rule\_4 = 55 -(Rule\_4\_LB) = 0 Distance\_1\_Rule\_4 = 2 TMP\_68 = 240 .

- Solution #12 found. 12 Solutions, Resolution 0.117s, 37 Nodes (315.2 n/s), 17 Backtracks, 0 Fails, 0 Restarts

Rule\_4\_LB = 63 Rule\_4\_UB = 119 Rule\_4\_LB = 0 Rule\_4\_UB = 2 Overlaps\_0\_0 = 0 Overlaps\_0\_1 = 0 Overlaps\_0\_2 = 0 Overlaps\_0\_3 = 0 Overlaps\_0\_4 = 0 Overlaps\_1\_0 = 0 Overlaps\_1\_1 = 0 Overlaps\_1\_2 = 0 Overlaps\_1\_3 = 0 Overlaps\_1\_4 = 0 Overlaps\_2\_0 = 0 Overlaps\_2\_1 = 0 Overlaps\_2\_2 = 0 Overlaps\_2\_3 = 0 Overlaps\_2\_4 = 0 Overlaps\_3\_0 = 0 Overlaps\_3\_1 = 0 Overlaps\_3\_2 = 0 Overlaps\_3\_3 = 0 Overlaps\_3\_4 = 0 Overlaps\_4\_0 = 0 Overlaps\_4\_1 = 0 Overlaps\_4\_2 = 0 Overlaps\_4\_3 = 0 Overlaps\_4\_4 = 0 TMP\_0 = 0 not(TMP\_0) = 1 TMP\_1 = 1 not(TMP\_1) = 0 TMP\_2 = 1 not(TMP\_2) = 0 TMP\_3 = 1 not(TMP\_3) = 0 TMP\_4 = 3 TMP\_5 = 0 not(TMP\_5) = 1 TMP\_6 = 0 not(TMP\_6) = 1 TMP\_7 = 0 TMP\_8 = 1 not(TMP\_8) = 0 TMP\_9 = 1 not(TMP\_9) = 0 TMP\_10 = 2 TMP\_11 = 0 not(TMP\_11) = 1 TMP\_12 = 0 not(TMP\_12) = 1 TMP\_13 = 1 not(TMP\_13) = 0 TMP\_14 = 1 not(TMP\_14) = 0 TMP\_15 = 1 not(TMP\_15) = 0 TMP\_16 = 2 TMP\_17 = 0 not(TMP\_17) = 1 TMP\_18 = 1 not(TMP\_18) = 0 TMP\_19 = 1 not(TMP\_19) = 0 TMP\_20 = 1 not(TMP\_20) = 0 TMP\_21 = 3 TMP\_22 = 0 not(TMP\_22) = 1 TMP\_23 = 0 not(TMP\_23) = 1 TMP\_24 = 0 TMP\_25 = 1 not(TMP\_25) = 0 TMP\_26 = 1 not(TMP\_26) = 0 TMP\_27 = 2 TMP\_28 = 0 not(TMP\_28) = 1 TMP\_29 = 0 not(TMP\_29) = 1 TMP\_30 = 1 not(TMP\_30) = 0 TMP\_31 = 1 not(TMP\_31) = 0 TMP\_32 = 1 not(TMP\_32) = 0 TMP\_33 = 2 TMP\_34 = 0 not(TMP\_34) = 1 TMP\_35 = 1 not(TMP\_35) = 0 TMP\_36 = 1 not(TMP\_36) = 0 TMP\_37 = 1 not(TMP\_37) = 0 TMP\_38 = 3 TMP\_39 = 0 not(TMP\_39) = 1 TMP\_40 = 0 not(TMP\_40) = 1 TMP\_41 = 0 TMP\_42 = 1 not(TMP\_42) = 0 TMP\_43 = 1 not(TMP\_43) = 0 TMP\_44 = 2 TMP\_45 = 0 not(TMP\_45) = 1 TMP\_46 = 0 not(TMP\_46) = 1 TMP\_47 = 1 not(TMP\_47) = 0 TMP\_48 = 1 not(TMP\_48) = 0 TMP\_49 = 1 not(TMP\_49) = 0 TMP\_50 = 2 TMP\_51 = 0 not(TMP\_51) = 1 TMP\_52 = 1 not(TMP\_52) = 0 TMP\_53 = 1 not(TMP\_53) = 0 TMP\_54 = 1 not(TMP\_54) = 0 TMP\_55 = 3 TMP\_56 = 0 not(TMP\_56) = 1 TMP\_57 = 0 not(TMP\_57) = 1 TMP\_58 = 0 TMP\_59 = 1 not(TMP\_59) = 0 TMP\_60 = 1 not(TMP\_60) = 0 TMP\_61 = 2 TMP\_62 = 0 not(TMP\_62) = 1 TMP\_63 = 0 not(TMP\_63) = 1 TMP\_64 = 1 not(TMP\_64) = 0 TMP\_65 = 1 not(TMP\_65) = 0 TMP\_66 = 1 not(TMP\_66) = 0 TMP\_67 = 2 Area\_0 = 60 Distance\_0\_Rule\_0 = 30 Distance\_1\_Rule\_0 = 2 Area\_1 = 30 Distance\_0\_Rule\_1 = 30 Distance\_1\_Rule\_1 = 1 Area\_2 = 30 Distance\_0\_Rule\_2 = 30 Distance\_1\_Rule\_2 = 1 Area\_3 = 10 Distance\_0\_Rule\_3 = 10 Distance\_1\_Rule\_3 = 1 Area\_4 = 112 -(Rule\_4\_LB) = -63 Distance\_0\_Rule\_4 = 56 -(Rule\_4\_LB) = 0 Distance\_1\_Rule\_4 = 2 TMP\_68 = 242 .

- Solution #13 found. 13 Solutions, Resolution 0.121s, 39 Nodes (322.9 n/s), 18 Backtracks, 0 Fails, 0 Restarts

Rule\_4\_LB = 62 Rule\_4\_UB = 119 Rule\_4\_LB = 0 Rule\_4\_UB = 2 Overlaps\_0\_0 = 0 Overlaps\_0\_1 = 0 Overlaps\_0\_2 = 0 Overlaps\_0\_3 = 0 Overlaps\_0\_4 = 0 Overlaps\_1\_0 = 0 Overlaps\_1\_1 = 0 Overlaps\_1\_2 = 0 Overlaps\_1\_3 = 0 Overlaps\_1\_4 = 0 Overlaps\_2\_0 = 0 Overlaps\_2\_1 = 0 Overlaps\_2\_2 = 0 Overlaps\_2\_3 = 0 Overlaps\_2\_4 = 0 Overlaps\_3\_0 = 0 Overlaps\_3\_1 = 0 Overlaps\_3\_2 = 0 Overlaps\_3\_3 = 0 Overlaps\_3\_4 = 0 Overlaps\_4\_0 = 0 Overlaps\_4\_1 = 0 Overlaps\_4\_2 = 0 Overlaps\_4\_3 = 0 Overlaps\_4\_4 = 0 TMP\_0 = 0 not(TMP\_0) = 1 TMP\_1 = 1 not(TMP\_1) = 0 TMP\_2 = 1 not(TMP\_2) = 0 TMP\_3 = 1 not(TMP\_3) = 0 TMP\_4 = 3 TMP\_5 = 0 not(TMP\_5) = 1 TMP\_6 = 0 not(TMP\_6) = 1 TMP\_7 = 0 TMP\_8 = 1 not(TMP\_8) = 0 TMP\_9 = 1 not(TMP\_9) = 0 TMP\_10 = 2 TMP\_11 = 0 not(TMP\_11) = 1 TMP\_12 = 0 not(TMP\_12) = 1 TMP\_13 = 1 not(TMP\_13) = 0 TMP\_14 = 1 not(TMP\_14) = 0 TMP\_15 = 1 not(TMP\_15) = 0 TMP\_16 = 2 TMP\_17 = 0 not(TMP\_17) = 1 TMP\_18 = 1 not(TMP\_18) = 0 TMP\_19 = 1 not(TMP\_19) = 0 TMP\_20 = 1 not(TMP\_20) = 0 TMP\_21 = 3 TMP\_22 = 0 not(TMP\_22) = 1 TMP\_23 = 0 not(TMP\_23) = 1 TMP\_24 = 0 TMP\_25 = 1 not(TMP\_25) = 0 TMP\_26 = 1 not(TMP\_26) = 0 TMP\_27 = 2 TMP\_28 = 0 not(TMP\_28) = 1 TMP\_29 = 0 not(TMP\_29) = 1 TMP\_30 = 1 not(TMP\_30) = 0 TMP\_31 = 1 not(TMP\_31) = 0 TMP\_32 = 1 not(TMP\_32) = 0 TMP\_33 = 2 TMP\_34 = 0 not(TMP\_34) = 1 TMP\_35 = 1 not(TMP\_35) = 0 TMP\_36 = 1 not(TMP\_36) = 0 TMP\_37 = 1 not(TMP\_37) = 0 TMP\_38 = 3 TMP\_39 = 0 not(TMP\_39) = 1 TMP\_40 = 0 not(TMP\_40) = 1 TMP\_41 = 0 TMP\_42 = 1 not(TMP\_42) = 0 TMP\_43 = 1 not(TMP\_43) = 0 TMP\_44 = 2 TMP\_45 = 0 not(TMP\_45) = 1 TMP\_46 = 0 not(TMP\_46) = 1 TMP\_47 = 1 not(TMP\_47) = 0 TMP\_48 = 1 not(TMP\_48) = 0 TMP\_49 = 1 not(TMP\_49) = 0 TMP\_50 = 2 TMP\_51 = 0 not(TMP\_51) = 1 TMP\_52 = 1 not(TMP\_52) = 0 TMP\_53 = 1 not(TMP\_53) = 0 TMP\_54 = 1 not(TMP\_54) = 0 TMP\_55 = 3 TMP\_56 = 0 not(TMP\_56) = 1 TMP\_57 = 0 not(TMP\_57) = 1 TMP\_58 = 0 TMP\_59 = 1 not(TMP\_59) = 0 TMP\_60 = 1 not(TMP\_60) = 0 TMP\_61 = 2 TMP\_62 = 0 not(TMP\_62) = 1 TMP\_63 = 0 not(TMP\_63) = 1 TMP\_64 = 1 not(TMP\_64) = 0 TMP\_65 = 1 not(TMP\_65) = 0 TMP\_66 = 1 not(TMP\_66) = 0 TMP\_67 = 2 Area\_0 = 60 Distance\_0\_Rule\_0 = 30 Distance\_1\_Rule\_0 = 2 Area\_1 = 30 Distance\_0\_Rule\_1 = 30 Distance\_1\_Rule\_1 = 1 Area\_2 = 30 Distance\_0\_Rule\_2 = 30 Distance\_1\_Rule\_2 = 1 Area\_3 = 10 Distance\_0\_Rule\_3 = 10 Distance\_1\_Rule\_3 = 1 Area\_4 = 114 -(Rule\_4\_LB) = -62 Distance\_0\_Rule\_4 = 57 -(Rule\_4\_LB) = 0 Distance\_1\_Rule\_4 = 2 TMP\_68 = 244 .

- Solution #14 found. 14 Solutions, Resolution 0.123s, 41 Nodes (333.1 n/s), 19 Backtracks, 0 Fails, 0 Restarts

Rule\_4\_LB = 60 Rule\_4\_UB = 119 Rule\_4\_LB = 0 Rule\_4\_UB = 2 Overlaps\_0\_0 = 0 Overlaps\_0\_1 = 0 Overlaps\_0\_2 = 0 Overlaps\_0\_3 = 0 Overlaps\_0\_4 = 0 Overlaps\_1\_0 = 0 Overlaps\_1\_1 = 0 Overlaps\_1\_2 = 0 Overlaps\_1\_3 = 0 Overlaps\_1\_4 = 0 Overlaps\_2\_0 = 0 Overlaps\_2\_1 = 0 Overlaps\_2\_2 = 0 Overlaps\_2\_3 = 0 Overlaps\_2\_4 = 0 Overlaps\_3\_0 = 0 Overlaps\_3\_1 = 0 Overlaps\_3\_2 = 0 Overlaps\_3\_3 = 0 Overlaps\_3\_4 = 0 Overlaps\_4\_0 = 0 Overlaps\_4\_1 = 0 Overlaps\_4\_2 = 0 Overlaps\_4\_3 = 0 Overlaps\_4\_4 = 0 TMP\_0 = 0 not(TMP\_0) = 1 TMP\_1 = 1 not(TMP\_1) = 0 TMP\_2 = 1 not(TMP\_2) = 0 TMP\_3 = 1 not(TMP\_3) = 0 TMP\_4 = 3 TMP\_5 = 0 not(TMP\_5) = 1 TMP\_6 = 0 not(TMP\_6) = 1 TMP\_7 = 0 TMP\_8 = 1 not(TMP\_8) = 0 TMP\_9 = 1 not(TMP\_9) = 0 TMP\_10 = 2 TMP\_11 = 0 not(TMP\_11) = 1 TMP\_12 = 0 not(TMP\_12) = 1 TMP\_13 = 1 not(TMP\_13) = 0 TMP\_14 = 1 not(TMP\_14) = 0 TMP\_15 = 1 not(TMP\_15) = 0 TMP\_16 = 2 TMP\_17 = 0 not(TMP\_17) = 1 TMP\_18 = 1 not(TMP\_18) = 0 TMP\_19 = 1 not(TMP\_19) = 0 TMP\_20 = 1 not(TMP\_20) = 0 TMP\_21 = 3 TMP\_22 = 0 not(TMP\_22) = 1 TMP\_23 = 0 not(TMP\_23) = 1 TMP\_24 = 0 TMP\_25 = 1 not(TMP\_25) = 0 TMP\_26 = 1 not(TMP\_26) = 0 TMP\_27 = 2 TMP\_28 = 0 not(TMP\_28) = 1 TMP\_29 = 0 not(TMP\_29) = 1 TMP\_30 = 1 not(TMP\_30) = 0 TMP\_31 = 1 not(TMP\_31) = 0 TMP\_32 = 1 not(TMP\_32) = 0 TMP\_33 = 2 TMP\_34 = 0 not(TMP\_34) = 1 TMP\_35 = 1 not(TMP\_35) = 0 TMP\_36 = 1 not(TMP\_36) = 0 TMP\_37 = 1 not(TMP\_37) = 0 TMP\_38 = 3 TMP\_39 = 0 not(TMP\_39) = 1 TMP\_40 = 0 not(TMP\_40) = 1 TMP\_41 = 0 TMP\_42 = 1 not(TMP\_42) = 0 TMP\_43 = 1 not(TMP\_43) = 0 TMP\_44 = 2 TMP\_45 = 0 not(TMP\_45) = 1 TMP\_46 = 0 not(TMP\_46) = 1 TMP\_47 = 1 not(TMP\_47) = 0 TMP\_48 = 1 not(TMP\_48) = 0 TMP\_49 = 1 not(TMP\_49) = 0 TMP\_50 = 2 TMP\_51 = 0 not(TMP\_51) = 1 TMP\_52 = 1 not(TMP\_52) = 0 TMP\_53 = 1 not(TMP\_53) = 0 TMP\_54 = 1 not(TMP\_54) = 0 TMP\_55 = 3 TMP\_56 = 0 not(TMP\_56) = 1 TMP\_57 = 0 not(TMP\_57) = 1 TMP\_58 = 0 TMP\_59 = 1 not(TMP\_59) = 0 TMP\_60 = 1 not(TMP\_60) = 0 TMP\_61 = 2 TMP\_62 = 0 not(TMP\_62) = 1 TMP\_63 = 0 not(TMP\_63) = 1 TMP\_64 = 1 not(TMP\_64) = 0 TMP\_65 = 1 not(TMP\_65) = 0 TMP\_66 = 1 not(TMP\_66) = 0 TMP\_67 = 2 Area\_0 = 60 Distance\_0\_Rule\_0 = 30 Distance\_1\_Rule\_0 = 2 Area\_1 = 30 Distance\_0\_Rule\_1 = 30 Distance\_1\_Rule\_1 = 1 Area\_2 = 30 Distance\_0\_Rule\_2 = 30 Distance\_1\_Rule\_2 = 1 Area\_3 = 10 Distance\_0\_Rule\_3 = 10 Distance\_1\_Rule\_3 = 1 Area\_4 = 118 -(Rule\_4\_LB) = -60 Distance\_0\_Rule\_4 = 59 -(Rule\_4\_LB) = 0 Distance\_1\_Rule\_4 = 2 TMP\_68 = 248 .

- Solution #15 found. 15 Solutions, Resolution 0.126s, 42 Nodes (333.6 n/s), 20 Backtracks, 0 Fails, 0 Restarts

Rule\_4\_LB = 61 Rule\_4\_UB = 119 Rule\_4\_LB = 0 Rule\_4\_UB = 2 Overlaps\_0\_0 = 0 Overlaps\_0\_1 = 0 Overlaps\_0\_2 = 0 Overlaps\_0\_3 = 0 Overlaps\_0\_4 = 0 Overlaps\_1\_0 = 0 Overlaps\_1\_1 = 0 Overlaps\_1\_2 = 0 Overlaps\_1\_3 = 0 Overlaps\_1\_4 = 0 Overlaps\_2\_0 = 0 Overlaps\_2\_1 = 0 Overlaps\_2\_2 = 0 Overlaps\_2\_3 = 0 Overlaps\_2\_4 = 0 Overlaps\_3\_0 = 0 Overlaps\_3\_1 = 0 Overlaps\_3\_2 = 0 Overlaps\_3\_3 = 0 Overlaps\_3\_4 = 0 Overlaps\_4\_0 = 0 Overlaps\_4\_1 = 0 Overlaps\_4\_2 = 0 Overlaps\_4\_3 = 0 Overlaps\_4\_4 = 0 TMP\_0 = 0 not(TMP\_0) = 1 TMP\_1 = 1 not(TMP\_1) = 0 TMP\_2 = 1 not(TMP\_2) = 0 TMP\_3 = 1 not(TMP\_3) = 0 TMP\_4 = 3 TMP\_5 = 0 not(TMP\_5) = 1 TMP\_6 = 0 not(TMP\_6) = 1 TMP\_7 = 0 TMP\_8 = 1 not(TMP\_8) = 0 TMP\_9 = 1 not(TMP\_9) = 0 TMP\_10 = 2 TMP\_11 = 0 not(TMP\_11) = 1 TMP\_12 = 0 not(TMP\_12) = 1 TMP\_13 = 1 not(TMP\_13) = 0 TMP\_14 = 1 not(TMP\_14) = 0 TMP\_15 = 1 not(TMP\_15) = 0 TMP\_16 = 2 TMP\_17 = 0 not(TMP\_17) = 1 TMP\_18 = 1 not(TMP\_18) = 0 TMP\_19 = 1 not(TMP\_19) = 0 TMP\_20 = 1 not(TMP\_20) = 0 TMP\_21 = 3 TMP\_22 = 0 not(TMP\_22) = 1 TMP\_23 = 0 not(TMP\_23) = 1 TMP\_24 = 0 TMP\_25 = 1 not(TMP\_25) = 0 TMP\_26 = 1 not(TMP\_26) = 0 TMP\_27 = 2 TMP\_28 = 0 not(TMP\_28) = 1 TMP\_29 = 0 not(TMP\_29) = 1 TMP\_30 = 1 not(TMP\_30) = 0 TMP\_31 = 1 not(TMP\_31) = 0 TMP\_32 = 1 not(TMP\_32) = 0 TMP\_33 = 2 TMP\_34 = 0 not(TMP\_34) = 1 TMP\_35 = 1 not(TMP\_35) = 0 TMP\_36 = 1 not(TMP\_36) = 0 TMP\_37 = 1 not(TMP\_37) = 0 TMP\_38 = 3 TMP\_39 = 0 not(TMP\_39) = 1 TMP\_40 = 0 not(TMP\_40) = 1 TMP\_41 = 0 TMP\_42 = 1 not(TMP\_42) = 0 TMP\_43 = 1 not(TMP\_43) = 0 TMP\_44 = 2 TMP\_45 = 0 not(TMP\_45) = 1 TMP\_46 = 0 not(TMP\_46) = 1 TMP\_47 = 1 not(TMP\_47) = 0 TMP\_48 = 1 not(TMP\_48) = 0 TMP\_49 = 1 not(TMP\_49) = 0 TMP\_50 = 2 TMP\_51 = 0 not(TMP\_51) = 1 TMP\_52 = 1 not(TMP\_52) = 0 TMP\_53 = 1 not(TMP\_53) = 0 TMP\_54 = 1 not(TMP\_54) = 0 TMP\_55 = 3 TMP\_56 = 0 not(TMP\_56) = 1 TMP\_57 = 0 not(TMP\_57) = 1 TMP\_58 = 0 TMP\_59 = 1 not(TMP\_59) = 0 TMP\_60 = 1 not(TMP\_60) = 0 TMP\_61 = 2 TMP\_62 = 0 not(TMP\_62) = 1 TMP\_63 = 0 not(TMP\_63) = 1 TMP\_64 = 1 not(TMP\_64) = 0 TMP\_65 = 1 not(TMP\_65) = 0 TMP\_66 = 1 not(TMP\_66) = 0 TMP\_67 = 2 Area\_0 = 60 Distance\_0\_Rule\_0 = 30 Distance\_1\_Rule\_0 = 2 Area\_1 = 30 Distance\_0\_Rule\_1 = 30 Distance\_1\_Rule\_1 = 1 Area\_2 = 30 Distance\_0\_Rule\_2 = 30 Distance\_1\_Rule\_2 = 1 Area\_3 = 10 Distance\_0\_Rule\_3 = 10 Distance\_1\_Rule\_3 = 1 Area\_4 = 116 -(Rule\_4\_LB) = -61 Distance\_0\_Rule\_4 = 58 -(Rule\_4\_LB) = 0 Distance\_1\_Rule\_4 = 2 TMP\_68 = 246 .

- Solution #16 found. 16 Solutions, Resolution 0.129s, 44 Nodes (342.0 n/s), 25 Backtracks, 0 Fails, 0 Restarts

Rule\_4\_LB = 65 Rule\_4\_UB = 120 Rule\_4\_LB = 0 Rule\_4\_UB = 2 Overlaps\_0\_0 = 0 Overlaps\_0\_1 = 0 Overlaps\_0\_2 = 0 Overlaps\_0\_3 = 0 Overlaps\_0\_4 = 0 Overlaps\_1\_0 = 0 Overlaps\_1\_1 = 0 Overlaps\_1\_2 = 0 Overlaps\_1\_3 = 0 Overlaps\_1\_4 = 0 Overlaps\_2\_0 = 0 Overlaps\_2\_1 = 0 Overlaps\_2\_2 = 0 Overlaps\_2\_3 = 0 Overlaps\_2\_4 = 0 Overlaps\_3\_0 = 0 Overlaps\_3\_1 = 0 Overlaps\_3\_2 = 0 Overlaps\_3\_3 = 0 Overlaps\_3\_4 = 0 Overlaps\_4\_0 = 0 Overlaps\_4\_1 = 0 Overlaps\_4\_2 = 0 Overlaps\_4\_3 = 0 Overlaps\_4\_4 = 0 TMP\_0 = 0 not(TMP\_0) = 1 TMP\_1 = 1 not(TMP\_1) = 0 TMP\_2 = 1 not(TMP\_2) = 0 TMP\_3 = 1 not(TMP\_3) = 0 TMP\_4 = 3 TMP\_5 = 0 not(TMP\_5) = 1 TMP\_6 = 0 not(TMP\_6) = 1 TMP\_7 = 0 TMP\_8 = 1 not(TMP\_8) = 0 TMP\_9 = 1 not(TMP\_9) = 0 TMP\_10 = 2 TMP\_11 = 0 not(TMP\_11) = 1 TMP\_12 = 0 not(TMP\_12) = 1 TMP\_13 = 1 not(TMP\_13) = 0 TMP\_14 = 1 not(TMP\_14) = 0 TMP\_15 = 1 not(TMP\_15) = 0 TMP\_16 = 2 TMP\_17 = 0 not(TMP\_17) = 1 TMP\_18 = 1 not(TMP\_18) = 0 TMP\_19 = 1 not(TMP\_19) = 0 TMP\_20 = 1 not(TMP\_20) = 0 TMP\_21 = 3 TMP\_22 = 0 not(TMP\_22) = 1 TMP\_23 = 0 not(TMP\_23) = 1 TMP\_24 = 0 TMP\_25 = 1 not(TMP\_25) = 0 TMP\_26 = 1 not(TMP\_26) = 0 TMP\_27 = 2 TMP\_28 = 0 not(TMP\_28) = 1 TMP\_29 = 0 not(TMP\_29) = 1 TMP\_30 = 1 not(TMP\_30) = 0 TMP\_31 = 1 not(TMP\_31) = 0 TMP\_32 = 1 not(TMP\_32) = 0 TMP\_33 = 2 TMP\_34 = 0 not(TMP\_34) = 1 TMP\_35 = 1 not(TMP\_35) = 0 TMP\_36 = 1 not(TMP\_36) = 0 TMP\_37 = 1 not(TMP\_37) = 0 TMP\_38 = 3 TMP\_39 = 0 not(TMP\_39) = 1 TMP\_40 = 0 not(TMP\_40) = 1 TMP\_41 = 0 TMP\_42 = 1 not(TMP\_42) = 0 TMP\_43 = 1 not(TMP\_43) = 0 TMP\_44 = 2 TMP\_45 = 0 not(TMP\_45) = 1 TMP\_46 = 0 not(TMP\_46) = 1 TMP\_47 = 1 not(TMP\_47) = 0 TMP\_48 = 1 not(TMP\_48) = 0 TMP\_49 = 1 not(TMP\_49) = 0 TMP\_50 = 2 TMP\_51 = 0 not(TMP\_51) = 1 TMP\_52 = 1 not(TMP\_52) = 0 TMP\_53 = 1 not(TMP\_53) = 0 TMP\_54 = 1 not(TMP\_54) = 0 TMP\_55 = 3 TMP\_56 = 0 not(TMP\_56) = 1 TMP\_57 = 0 not(TMP\_57) = 1 TMP\_58 = 0 TMP\_59 = 1 not(TMP\_59) = 0 TMP\_60 = 1 not(TMP\_60) = 0 TMP\_61 = 2 TMP\_62 = 0 not(TMP\_62) = 1 TMP\_63 = 0 not(TMP\_63) = 1 TMP\_64 = 1 not(TMP\_64) = 0 TMP\_65 = 1 not(TMP\_65) = 0 TMP\_66 = 1 not(TMP\_66) = 0 TMP\_67 = 2 Area\_0 = 60 Distance\_0\_Rule\_0 = 30 Distance\_1\_Rule\_0 = 2 Area\_1 = 30 Distance\_0\_Rule\_1 = 30 Distance\_1\_Rule\_1 = 1 Area\_2 = 30 Distance\_0\_Rule\_2 = 30 Distance\_1\_Rule\_2 = 1 Area\_3 = 10 Distance\_0\_Rule\_3 = 10 Distance\_1\_Rule\_3 = 1 Area\_4 = 110 -(Rule\_4\_LB) = -65 Distance\_0\_Rule\_4 = 55 -(Rule\_4\_LB) = 0 Distance\_1\_Rule\_4 = 2 TMP\_68 = 240 .

- Solution #17 found. 17 Solutions, Resolution 0.131s, 46 Nodes (350.0 n/s), 26 Backtracks, 0 Fails, 0 Restarts

Rule\_4\_LB = 60 Rule\_4\_UB = 120 Rule\_4\_LB = 0 Rule\_4\_UB = 2 Overlaps\_0\_0 = 0 Overlaps\_0\_1 = 0 Overlaps\_0\_2 = 0 Overlaps\_0\_3 = 0 Overlaps\_0\_4 = 0 Overlaps\_1\_0 = 0 Overlaps\_1\_1 = 0 Overlaps\_1\_2 = 0 Overlaps\_1\_3 = 0 Overlaps\_1\_4 = 0 Overlaps\_2\_0 = 0 Overlaps\_2\_1 = 0 Overlaps\_2\_2 = 0 Overlaps\_2\_3 = 0 Overlaps\_2\_4 = 0 Overlaps\_3\_0 = 0 Overlaps\_3\_1 = 0 Overlaps\_3\_2 = 0 Overlaps\_3\_3 = 0 Overlaps\_3\_4 = 0 Overlaps\_4\_0 = 0 Overlaps\_4\_1 = 0 Overlaps\_4\_2 = 0 Overlaps\_4\_3 = 0 Overlaps\_4\_4 = 0 TMP\_0 = 0 not(TMP\_0) = 1 TMP\_1 = 1 not(TMP\_1) = 0 TMP\_2 = 1 not(TMP\_2) = 0 TMP\_3 = 1 not(TMP\_3) = 0 TMP\_4 = 3 TMP\_5 = 0 not(TMP\_5) = 1 TMP\_6 = 0 not(TMP\_6) = 1 TMP\_7 = 0 TMP\_8 = 1 not(TMP\_8) = 0 TMP\_9 = 1 not(TMP\_9) = 0 TMP\_10 = 2 TMP\_11 = 0 not(TMP\_11) = 1 TMP\_12 = 0 not(TMP\_12) = 1 TMP\_13 = 1 not(TMP\_13) = 0 TMP\_14 = 1 not(TMP\_14) = 0 TMP\_15 = 1 not(TMP\_15) = 0 TMP\_16 = 2 TMP\_17 = 0 not(TMP\_17) = 1 TMP\_18 = 1 not(TMP\_18) = 0 TMP\_19 = 1 not(TMP\_19) = 0 TMP\_20 = 1 not(TMP\_20) = 0 TMP\_21 = 3 TMP\_22 = 0 not(TMP\_22) = 1 TMP\_23 = 0 not(TMP\_23) = 1 TMP\_24 = 0 TMP\_25 = 1 not(TMP\_25) = 0 TMP\_26 = 1 not(TMP\_26) = 0 TMP\_27 = 2 TMP\_28 = 0 not(TMP\_28) = 1 TMP\_29 = 0 not(TMP\_29) = 1 TMP\_30 = 1 not(TMP\_30) = 0 TMP\_31 = 1 not(TMP\_31) = 0 TMP\_32 = 1 not(TMP\_32) = 0 TMP\_33 = 2 TMP\_34 = 0 not(TMP\_34) = 1 TMP\_35 = 1 not(TMP\_35) = 0 TMP\_36 = 1 not(TMP\_36) = 0 TMP\_37 = 1 not(TMP\_37) = 0 TMP\_38 = 3 TMP\_39 = 0 not(TMP\_39) = 1 TMP\_40 = 0 not(TMP\_40) = 1 TMP\_41 = 0 TMP\_42 = 1 not(TMP\_42) = 0 TMP\_43 = 1 not(TMP\_43) = 0 TMP\_44 = 2 TMP\_45 = 0 not(TMP\_45) = 1 TMP\_46 = 0 not(TMP\_46) = 1 TMP\_47 = 1 not(TMP\_47) = 0 TMP\_48 = 1 not(TMP\_48) = 0 TMP\_49 = 1 not(TMP\_49) = 0 TMP\_50 = 2 TMP\_51 = 0 not(TMP\_51) = 1 TMP\_52 = 1 not(TMP\_52) = 0 TMP\_53 = 1 not(TMP\_53) = 0 TMP\_54 = 1 not(TMP\_54) = 0 TMP\_55 = 3 TMP\_56 = 0 not(TMP\_56) = 1 TMP\_57 = 0 not(TMP\_57) = 1 TMP\_58 = 0 TMP\_59 = 1 not(TMP\_59) = 0 TMP\_60 = 1 not(TMP\_60) = 0 TMP\_61 = 2 TMP\_62 = 0 not(TMP\_62) = 1 TMP\_63 = 0 not(TMP\_63) = 1 TMP\_64 = 1 not(TMP\_64) = 0 TMP\_65 = 1 not(TMP\_65) = 0 TMP\_66 = 1 not(TMP\_66) = 0 TMP\_67 = 2 Area\_0 = 60 Distance\_0\_Rule\_0 = 30 Distance\_1\_Rule\_0 = 2 Area\_1 = 30 Distance\_0\_Rule\_1 = 30 Distance\_1\_Rule\_1 = 1 Area\_2 = 30 Distance\_0\_Rule\_2 = 30 Distance\_1\_Rule\_2 = 1 Area\_3 = 10 Distance\_0\_Rule\_3 = 10 Distance\_1\_Rule\_3 = 1 Area\_4 = 120 -(Rule\_4\_LB) = -60 Distance\_0\_Rule\_4 = 60 -(Rule\_4\_LB) = 0 Distance\_1\_Rule\_4 = 2 TMP\_68 = 250 .

- Solution #18 found. 18 Solutions, Resolution 0.134s, 48 Nodes (358.2 n/s), 27 Backtracks, 0 Fails, 0 Restarts

Rule\_4\_LB = 64 Rule\_4\_UB = 120 Rule\_4\_LB = 0 Rule\_4\_UB = 2 Overlaps\_0\_0 = 0 Overlaps\_0\_1 = 0 Overlaps\_0\_2 = 0 Overlaps\_0\_3 = 0 Overlaps\_0\_4 = 0 Overlaps\_1\_0 = 0 Overlaps\_1\_1 = 0 Overlaps\_1\_2 = 0 Overlaps\_1\_3 = 0 Overlaps\_1\_4 = 0 Overlaps\_2\_0 = 0 Overlaps\_2\_1 = 0 Overlaps\_2\_2 = 0 Overlaps\_2\_3 = 0 Overlaps\_2\_4 = 0 Overlaps\_3\_0 = 0 Overlaps\_3\_1 = 0 Overlaps\_3\_2 = 0 Overlaps\_3\_3 = 0 Overlaps\_3\_4 = 0 Overlaps\_4\_0 = 0 Overlaps\_4\_1 = 0 Overlaps\_4\_2 = 0 Overlaps\_4\_3 = 0 Overlaps\_4\_4 = 0 TMP\_0 = 0 not(TMP\_0) = 1 TMP\_1 = 1 not(TMP\_1) = 0 TMP\_2 = 1 not(TMP\_2) = 0 TMP\_3 = 1 not(TMP\_3) = 0 TMP\_4 = 3 TMP\_5 = 0 not(TMP\_5) = 1 TMP\_6 = 0 not(TMP\_6) = 1 TMP\_7 = 0 TMP\_8 = 1 not(TMP\_8) = 0 TMP\_9 = 1 not(TMP\_9) = 0 TMP\_10 = 2 TMP\_11 = 0 not(TMP\_11) = 1 TMP\_12 = 0 not(TMP\_12) = 1 TMP\_13 = 1 not(TMP\_13) = 0 TMP\_14 = 1 not(TMP\_14) = 0 TMP\_15 = 1 not(TMP\_15) = 0 TMP\_16 = 2 TMP\_17 = 0 not(TMP\_17) = 1 TMP\_18 = 1 not(TMP\_18) = 0 TMP\_19 = 1 not(TMP\_19) = 0 TMP\_20 = 1 not(TMP\_20) = 0 TMP\_21 = 3 TMP\_22 = 0 not(TMP\_22) = 1 TMP\_23 = 0 not(TMP\_23) = 1 TMP\_24 = 0 TMP\_25 = 1 not(TMP\_25) = 0 TMP\_26 = 1 not(TMP\_26) = 0 TMP\_27 = 2 TMP\_28 = 0 not(TMP\_28) = 1 TMP\_29 = 0 not(TMP\_29) = 1 TMP\_30 = 1 not(TMP\_30) = 0 TMP\_31 = 1 not(TMP\_31) = 0 TMP\_32 = 1 not(TMP\_32) = 0 TMP\_33 = 2 TMP\_34 = 0 not(TMP\_34) = 1 TMP\_35 = 1 not(TMP\_35) = 0 TMP\_36 = 1 not(TMP\_36) = 0 TMP\_37 = 1 not(TMP\_37) = 0 TMP\_38 = 3 TMP\_39 = 0 not(TMP\_39) = 1 TMP\_40 = 0 not(TMP\_40) = 1 TMP\_41 = 0 TMP\_42 = 1 not(TMP\_42) = 0 TMP\_43 = 1 not(TMP\_43) = 0 TMP\_44 = 2 TMP\_45 = 0 not(TMP\_45) = 1 TMP\_46 = 0 not(TMP\_46) = 1 TMP\_47 = 1 not(TMP\_47) = 0 TMP\_48 = 1 not(TMP\_48) = 0 TMP\_49 = 1 not(TMP\_49) = 0 TMP\_50 = 2 TMP\_51 = 0 not(TMP\_51) = 1 TMP\_52 = 1 not(TMP\_52) = 0 TMP\_53 = 1 not(TMP\_53) = 0 TMP\_54 = 1 not(TMP\_54) = 0 TMP\_55 = 3 TMP\_56 = 0 not(TMP\_56) = 1 TMP\_57 = 0 not(TMP\_57) = 1 TMP\_58 = 0 TMP\_59 = 1 not(TMP\_59) = 0 TMP\_60 = 1 not(TMP\_60) = 0 TMP\_61 = 2 TMP\_62 = 0 not(TMP\_62) = 1 TMP\_63 = 0 not(TMP\_63) = 1 TMP\_64 = 1 not(TMP\_64) = 0 TMP\_65 = 1 not(TMP\_65) = 0 TMP\_66 = 1 not(TMP\_66) = 0 TMP\_67 = 2 Area\_0 = 60 Distance\_0\_Rule\_0 = 30 Distance\_1\_Rule\_0 = 2 Area\_1 = 30 Distance\_0\_Rule\_1 = 30 Distance\_1\_Rule\_1 = 1 Area\_2 = 30 Distance\_0\_Rule\_2 = 30 Distance\_1\_Rule\_2 = 1 Area\_3 = 10 Distance\_0\_Rule\_3 = 10 Distance\_1\_Rule\_3 = 1 Area\_4 = 112 -(Rule\_4\_LB) = -64 Distance\_0\_Rule\_4 = 56 -(Rule\_4\_LB) = 0 Distance\_1\_Rule\_4 = 2 TMP\_68 = 242 .

- Solution #19 found. 19 Solutions, Resolution 0.137s, 50 Nodes (365.9 n/s), 28 Backtracks, 0 Fails, 0 Restarts

Rule\_4\_LB = 63 Rule\_4\_UB = 120 Rule\_4\_LB = 0 Rule\_4\_UB = 2 Overlaps\_0\_0 = 0 Overlaps\_0\_1 = 0 Overlaps\_0\_2 = 0 Overlaps\_0\_3 = 0 Overlaps\_0\_4 = 0 Overlaps\_1\_0 = 0 Overlaps\_1\_1 = 0 Overlaps\_1\_2 = 0 Overlaps\_1\_3 = 0 Overlaps\_1\_4 = 0 Overlaps\_2\_0 = 0 Overlaps\_2\_1 = 0 Overlaps\_2\_2 = 0 Overlaps\_2\_3 = 0 Overlaps\_2\_4 = 0 Overlaps\_3\_0 = 0 Overlaps\_3\_1 = 0 Overlaps\_3\_2 = 0 Overlaps\_3\_3 = 0 Overlaps\_3\_4 = 0 Overlaps\_4\_0 = 0 Overlaps\_4\_1 = 0 Overlaps\_4\_2 = 0 Overlaps\_4\_3 = 0 Overlaps\_4\_4 = 0 TMP\_0 = 0 not(TMP\_0) = 1 TMP\_1 = 1 not(TMP\_1) = 0 TMP\_2 = 1 not(TMP\_2) = 0 TMP\_3 = 1 not(TMP\_3) = 0 TMP\_4 = 3 TMP\_5 = 0 not(TMP\_5) = 1 TMP\_6 = 0 not(TMP\_6) = 1 TMP\_7 = 0 TMP\_8 = 1 not(TMP\_8) = 0 TMP\_9 = 1 not(TMP\_9) = 0 TMP\_10 = 2 TMP\_11 = 0 not(TMP\_11) = 1 TMP\_12 = 0 not(TMP\_12) = 1 TMP\_13 = 1 not(TMP\_13) = 0 TMP\_14 = 1 not(TMP\_14) = 0 TMP\_15 = 1 not(TMP\_15) = 0 TMP\_16 = 2 TMP\_17 = 0 not(TMP\_17) = 1 TMP\_18 = 1 not(TMP\_18) = 0 TMP\_19 = 1 not(TMP\_19) = 0 TMP\_20 = 1 not(TMP\_20) = 0 TMP\_21 = 3 TMP\_22 = 0 not(TMP\_22) = 1 TMP\_23 = 0 not(TMP\_23) = 1 TMP\_24 = 0 TMP\_25 = 1 not(TMP\_25) = 0 TMP\_26 = 1 not(TMP\_26) = 0 TMP\_27 = 2 TMP\_28 = 0 not(TMP\_28) = 1 TMP\_29 = 0 not(TMP\_29) = 1 TMP\_30 = 1 not(TMP\_30) = 0 TMP\_31 = 1 not(TMP\_31) = 0 TMP\_32 = 1 not(TMP\_32) = 0 TMP\_33 = 2 TMP\_34 = 0 not(TMP\_34) = 1 TMP\_35 = 1 not(TMP\_35) = 0 TMP\_36 = 1 not(TMP\_36) = 0 TMP\_37 = 1 not(TMP\_37) = 0 TMP\_38 = 3 TMP\_39 = 0 not(TMP\_39) = 1 TMP\_40 = 0 not(TMP\_40) = 1 TMP\_41 = 0 TMP\_42 = 1 not(TMP\_42) = 0 TMP\_43 = 1 not(TMP\_43) = 0 TMP\_44 = 2 TMP\_45 = 0 not(TMP\_45) = 1 TMP\_46 = 0 not(TMP\_46) = 1 TMP\_47 = 1 not(TMP\_47) = 0 TMP\_48 = 1 not(TMP\_48) = 0 TMP\_49 = 1 not(TMP\_49) = 0 TMP\_50 = 2 TMP\_51 = 0 not(TMP\_51) = 1 TMP\_52 = 1 not(TMP\_52) = 0 TMP\_53 = 1 not(TMP\_53) = 0 TMP\_54 = 1 not(TMP\_54) = 0 TMP\_55 = 3 TMP\_56 = 0 not(TMP\_56) = 1 TMP\_57 = 0 not(TMP\_57) = 1 TMP\_58 = 0 TMP\_59 = 1 not(TMP\_59) = 0 TMP\_60 = 1 not(TMP\_60) = 0 TMP\_61 = 2 TMP\_62 = 0 not(TMP\_62) = 1 TMP\_63 = 0 not(TMP\_63) = 1 TMP\_64 = 1 not(TMP\_64) = 0 TMP\_65 = 1 not(TMP\_65) = 0 TMP\_66 = 1 not(TMP\_66) = 0 TMP\_67 = 2 Area\_0 = 60 Distance\_0\_Rule\_0 = 30 Distance\_1\_Rule\_0 = 2 Area\_1 = 30 Distance\_0\_Rule\_1 = 30 Distance\_1\_Rule\_1 = 1 Area\_2 = 30 Distance\_0\_Rule\_2 = 30 Distance\_1\_Rule\_2 = 1 Area\_3 = 10 Distance\_0\_Rule\_3 = 10 Distance\_1\_Rule\_3 = 1 Area\_4 = 114 -(Rule\_4\_LB) = -63 Distance\_0\_Rule\_4 = 57 -(Rule\_4\_LB) = 0 Distance\_1\_Rule\_4 = 2 TMP\_68 = 244 .

- Solution #20 found. 20 Solutions, Resolution 0.140s, 52 Nodes (371.9 n/s), 29 Backtracks, 0 Fails, 0 Restarts

Rule\_4\_LB = 62 Rule\_4\_UB = 120 Rule\_4\_LB = 0 Rule\_4\_UB = 2 Overlaps\_0\_0 = 0 Overlaps\_0\_1 = 0 Overlaps\_0\_2 = 0 Overlaps\_0\_3 = 0 Overlaps\_0\_4 = 0 Overlaps\_1\_0 = 0 Overlaps\_1\_1 = 0 Overlaps\_1\_2 = 0 Overlaps\_1\_3 = 0 Overlaps\_1\_4 = 0 Overlaps\_2\_0 = 0 Overlaps\_2\_1 = 0 Overlaps\_2\_2 = 0 Overlaps\_2\_3 = 0 Overlaps\_2\_4 = 0 Overlaps\_3\_0 = 0 Overlaps\_3\_1 = 0 Overlaps\_3\_2 = 0 Overlaps\_3\_3 = 0 Overlaps\_3\_4 = 0 Overlaps\_4\_0 = 0 Overlaps\_4\_1 = 0 Overlaps\_4\_2 = 0 Overlaps\_4\_3 = 0 Overlaps\_4\_4 = 0 TMP\_0 = 0 not(TMP\_0) = 1 TMP\_1 = 1 not(TMP\_1) = 0 TMP\_2 = 1 not(TMP\_2) = 0 TMP\_3 = 1 not(TMP\_3) = 0 TMP\_4 = 3 TMP\_5 = 0 not(TMP\_5) = 1 TMP\_6 = 0 not(TMP\_6) = 1 TMP\_7 = 0 TMP\_8 = 1 not(TMP\_8) = 0 TMP\_9 = 1 not(TMP\_9) = 0 TMP\_10 = 2 TMP\_11 = 0 not(TMP\_11) = 1 TMP\_12 = 0 not(TMP\_12) = 1 TMP\_13 = 1 not(TMP\_13) = 0 TMP\_14 = 1 not(TMP\_14) = 0 TMP\_15 = 1 not(TMP\_15) = 0 TMP\_16 = 2 TMP\_17 = 0 not(TMP\_17) = 1 TMP\_18 = 1 not(TMP\_18) = 0 TMP\_19 = 1 not(TMP\_19) = 0 TMP\_20 = 1 not(TMP\_20) = 0 TMP\_21 = 3 TMP\_22 = 0 not(TMP\_22) = 1 TMP\_23 = 0 not(TMP\_23) = 1 TMP\_24 = 0 TMP\_25 = 1 not(TMP\_25) = 0 TMP\_26 = 1 not(TMP\_26) = 0 TMP\_27 = 2 TMP\_28 = 0 not(TMP\_28) = 1 TMP\_29 = 0 not(TMP\_29) = 1 TMP\_30 = 1 not(TMP\_30) = 0 TMP\_31 = 1 not(TMP\_31) = 0 TMP\_32 = 1 not(TMP\_32) = 0 TMP\_33 = 2 TMP\_34 = 0 not(TMP\_34) = 1 TMP\_35 = 1 not(TMP\_35) = 0 TMP\_36 = 1 not(TMP\_36) = 0 TMP\_37 = 1 not(TMP\_37) = 0 TMP\_38 = 3 TMP\_39 = 0 not(TMP\_39) = 1 TMP\_40 = 0 not(TMP\_40) = 1 TMP\_41 = 0 TMP\_42 = 1 not(TMP\_42) = 0 TMP\_43 = 1 not(TMP\_43) = 0 TMP\_44 = 2 TMP\_45 = 0 not(TMP\_45) = 1 TMP\_46 = 0 not(TMP\_46) = 1 TMP\_47 = 1 not(TMP\_47) = 0 TMP\_48 = 1 not(TMP\_48) = 0 TMP\_49 = 1 not(TMP\_49) = 0 TMP\_50 = 2 TMP\_51 = 0 not(TMP\_51) = 1 TMP\_52 = 1 not(TMP\_52) = 0 TMP\_53 = 1 not(TMP\_53) = 0 TMP\_54 = 1 not(TMP\_54) = 0 TMP\_55 = 3 TMP\_56 = 0 not(TMP\_56) = 1 TMP\_57 = 0 not(TMP\_57) = 1 TMP\_58 = 0 TMP\_59 = 1 not(TMP\_59) = 0 TMP\_60 = 1 not(TMP\_60) = 0 TMP\_61 = 2 TMP\_62 = 0 not(TMP\_62) = 1 TMP\_63 = 0 not(TMP\_63) = 1 TMP\_64 = 1 not(TMP\_64) = 0 TMP\_65 = 1 not(TMP\_65) = 0 TMP\_66 = 1 not(TMP\_66) = 0 TMP\_67 = 2 Area\_0 = 60 Distance\_0\_Rule\_0 = 30 Distance\_1\_Rule\_0 = 2 Area\_1 = 30 Distance\_0\_Rule\_1 = 30 Distance\_1\_Rule\_1 = 1 Area\_2 = 30 Distance\_0\_Rule\_2 = 30 Distance\_1\_Rule\_2 = 1 Area\_3 = 10 Distance\_0\_Rule\_3 = 10 Distance\_1\_Rule\_3 = 1 Area\_4 = 116 -(Rule\_4\_LB) = -62 Distance\_0\_Rule\_4 = 58 -(Rule\_4\_LB) = 0 Distance\_1\_Rule\_4 = 2 TMP\_68 = 246 .

- Incomplete search - Limit reached.

Solutions: 20

Building time : 0.145s

Initialisation : 0.001s

Initial propagation : 0.045s

Resolution : 0.142s

Nodes: 52 (365.6 n/s)

Backtracks: 29

Fails: 0

Restarts: 0

Max depth: 22

Memory: -2mb

Variables: 194

Constraints: 174

# Discount 2

## Rules = 1 - Missing Rules = 2

- Solution #1 found. 1 Solutions, Resolution 0.047s, 3 Nodes (63.8 n/s), 1 Backtracks, 1 Fails, 0 Restarts

Rule\_1\_LB = 20 Rule\_1\_UB = 120 Rule\_1\_LB = 0 Rule\_1\_UB = 3 Rule\_1\_LB = 1 Rule\_1\_UB = 2 Rule\_2\_LB = 0 Rule\_2\_UB = 120 Rule\_2\_LB = 0 Rule\_2\_UB = 3 Rule\_2\_LB = 0 Rule\_2\_UB = 1 Overlaps\_0\_0 = 0 Overlaps\_0\_1 = 0 Overlaps\_0\_2 = 0 Overlaps\_1\_0 = 0 Overlaps\_1\_1 = 0 Overlaps\_1\_2 = 0 Overlaps\_2\_0 = 0 Overlaps\_2\_1 = 0 Overlaps\_2\_2 = 0 TMP\_0 = 0 not(TMP\_0) = 1 TMP\_1 = 1 not(TMP\_1) = 0 TMP\_2 = 1 not(TMP\_2) = 0 TMP\_3 = 1 not(TMP\_3) = 0 TMP\_4 = 1 not(TMP\_4) = 0 TMP\_5 = 1 not(TMP\_5) = 0 TMP\_6 = 5 TMP\_7 = 0 not(TMP\_7) = 1 TMP\_8 = 0 not(TMP\_8) = 1 TMP\_9 = 0 TMP\_10 = 1 not(TMP\_10) = 0 TMP\_11 = 1 not(TMP\_11) = 0 TMP\_12 = 2 TMP\_13 = 0 not(TMP\_13) = 1 TMP\_14 = 0 not(TMP\_14) = 1 TMP\_15 = 1 not(TMP\_15) = 0 TMP\_16 = 1 not(TMP\_16) = 0 TMP\_17 = 1 not(TMP\_17) = 0 TMP\_18 = 2 TMP\_19 = 1 not(TMP\_19) = 0 TMP\_20 = 1 not(TMP\_20) = 0 TMP\_21 = 1 not(TMP\_21) = 0 TMP\_22 = 1 not(TMP\_22) = 0 TMP\_23 = 0 not(TMP\_23) = 1 TMP\_24 = 1 not(TMP\_24) = 0 TMP\_25 = 5 TMP\_26 = 0 not(TMP\_26) = 1 TMP\_27 = 0 not(TMP\_27) = 1 TMP\_28 = 0 TMP\_29 = 1 not(TMP\_29) = 0 TMP\_30 = 1 not(TMP\_30) = 0 TMP\_31 = 2 TMP\_32 = 0 not(TMP\_32) = 1 TMP\_33 = 0 not(TMP\_33) = 1 TMP\_34 = 1 not(TMP\_34) = 0 TMP\_35 = 1 not(TMP\_35) = 0 TMP\_36 = 1 not(TMP\_36) = 0 TMP\_37 = 2 TMP\_38 = 1 not(TMP\_38) = 0 TMP\_39 = 1 not(TMP\_39) = 0 TMP\_40 = 1 not(TMP\_40) = 0 TMP\_41 = 1 not(TMP\_41) = 0 TMP\_42 = 1 not(TMP\_42) = 0 TMP\_43 = 0 not(TMP\_43) = 1 TMP\_44 = 5 TMP\_45 = 0 not(TMP\_45) = 1 TMP\_46 = 0 not(TMP\_46) = 1 TMP\_47 = 0 TMP\_48 = 1 not(TMP\_48) = 0 TMP\_49 = 1 not(TMP\_49) = 0 TMP\_50 = 2 TMP\_51 = 0 not(TMP\_51) = 1 TMP\_52 = 0 not(TMP\_52) = 1 TMP\_53 = 1 not(TMP\_53) = 0 TMP\_54 = 1 not(TMP\_54) = 0 TMP\_55 = 1 not(TMP\_55) = 0 TMP\_56 = 2 TMP\_57 = 1 not(TMP\_57) = 0 TMP\_58 = 1 not(TMP\_58) = 0 TMP\_59 = 1 not(TMP\_59) = 0 TMP\_60 = 1 not(TMP\_60) = 0 TMP\_61 = 1 not(TMP\_61) = 0 TMP\_62 = 0 not(TMP\_62) = 1 TMP\_63 = 5 TMP\_64 = 0 not(TMP\_64) = 1 TMP\_65 = 0 not(TMP\_65) = 1 TMP\_66 = 0 TMP\_67 = 1 not(TMP\_67) = 0 TMP\_68 = 1 not(TMP\_68) = 0 TMP\_69 = 2 TMP\_70 = 0 not(TMP\_70) = 1 TMP\_71 = 0 not(TMP\_71) = 1 TMP\_72 = 1 not(TMP\_72) = 0 TMP\_73 = 1 not(TMP\_73) = 0 TMP\_74 = 1 not(TMP\_74) = 0 TMP\_75 = 2 Area\_0 = 60 Distance\_0\_Rule\_0 = 20 Distance\_1\_Rule\_0 = 3 Distance\_2\_Rule\_0 = 1 Area\_1 = 300 -(Rule\_1\_LB) = -20 Distance\_0\_Rule\_1 = 100 -(Rule\_1\_LB) = 0 Distance\_1\_Rule\_1 = 3 -(Rule\_1\_LB) = -1 Distance\_2\_Rule\_1 = 1 Area\_2 = 360 -(Rule\_2\_LB) = 0 Distance\_0\_Rule\_2 = 120 -(Rule\_2\_LB) = 0 Distance\_1\_Rule\_2 = 3 -(Rule\_2\_LB) = 0 Distance\_2\_Rule\_2 = 1 TMP\_76 = 720 .

- Solution #2 found. 2 Solutions, Resolution 0.062s, 4 Nodes (64.5 n/s), 2 Backtracks, 1 Fails, 0 Restarts

Rule\_1\_LB = 0 Rule\_1\_UB = 120 Rule\_1\_LB = 0 Rule\_1\_UB = 3 Rule\_1\_LB = 0 Rule\_1\_UB = 1 Rule\_2\_LB = 20 Rule\_2\_UB = 120 Rule\_2\_LB = 0 Rule\_2\_UB = 3 Rule\_2\_LB = 1 Rule\_2\_UB = 2 Overlaps\_0\_0 = 0 Overlaps\_0\_1 = 0 Overlaps\_0\_2 = 0 Overlaps\_1\_0 = 0 Overlaps\_1\_1 = 0 Overlaps\_1\_2 = 0 Overlaps\_2\_0 = 0 Overlaps\_2\_1 = 0 Overlaps\_2\_2 = 0 TMP\_0 = 1 not(TMP\_0) = 0 TMP\_1 = 1 not(TMP\_1) = 0 TMP\_2 = 1 not(TMP\_2) = 0 TMP\_3 = 1 not(TMP\_3) = 0 TMP\_4 = 1 not(TMP\_4) = 0 TMP\_5 = 0 not(TMP\_5) = 1 TMP\_6 = 5 TMP\_7 = 0 not(TMP\_7) = 1 TMP\_8 = 0 not(TMP\_8) = 1 TMP\_9 = 0 TMP\_10 = 1 not(TMP\_10) = 0 TMP\_11 = 1 not(TMP\_11) = 0 TMP\_12 = 2 TMP\_13 = 0 not(TMP\_13) = 1 TMP\_14 = 0 not(TMP\_14) = 1 TMP\_15 = 1 not(TMP\_15) = 0 TMP\_16 = 1 not(TMP\_16) = 0 TMP\_17 = 1 not(TMP\_17) = 0 TMP\_18 = 2 TMP\_19 = 1 not(TMP\_19) = 0 TMP\_20 = 1 not(TMP\_20) = 0 TMP\_21 = 1 not(TMP\_21) = 0 TMP\_22 = 1 not(TMP\_22) = 0 TMP\_23 = 1 not(TMP\_23) = 0 TMP\_24 = 0 not(TMP\_24) = 1 TMP\_25 = 5 TMP\_26 = 0 not(TMP\_26) = 1 TMP\_27 = 0 not(TMP\_27) = 1 TMP\_28 = 0 TMP\_29 = 1 not(TMP\_29) = 0 TMP\_30 = 1 not(TMP\_30) = 0 TMP\_31 = 2 TMP\_32 = 0 not(TMP\_32) = 1 TMP\_33 = 0 not(TMP\_33) = 1 TMP\_34 = 1 not(TMP\_34) = 0 TMP\_35 = 1 not(TMP\_35) = 0 TMP\_36 = 1 not(TMP\_36) = 0 TMP\_37 = 2 TMP\_38 = 0 not(TMP\_38) = 1 TMP\_39 = 1 not(TMP\_39) = 0 TMP\_40 = 1 not(TMP\_40) = 0 TMP\_41 = 1 not(TMP\_41) = 0 TMP\_42 = 1 not(TMP\_42) = 0 TMP\_43 = 1 not(TMP\_43) = 0 TMP\_44 = 5 TMP\_45 = 0 not(TMP\_45) = 1 TMP\_46 = 0 not(TMP\_46) = 1 TMP\_47 = 0 TMP\_48 = 1 not(TMP\_48) = 0 TMP\_49 = 1 not(TMP\_49) = 0 TMP\_50 = 2 TMP\_51 = 0 not(TMP\_51) = 1 TMP\_52 = 0 not(TMP\_52) = 1 TMP\_53 = 1 not(TMP\_53) = 0 TMP\_54 = 1 not(TMP\_54) = 0 TMP\_55 = 1 not(TMP\_55) = 0 TMP\_56 = 2 TMP\_57 = 1 not(TMP\_57) = 0 TMP\_58 = 1 not(TMP\_58) = 0 TMP\_59 = 1 not(TMP\_59) = 0 TMP\_60 = 1 not(TMP\_60) = 0 TMP\_61 = 0 not(TMP\_61) = 1 TMP\_62 = 1 not(TMP\_62) = 0 TMP\_63 = 5 TMP\_64 = 0 not(TMP\_64) = 1 TMP\_65 = 0 not(TMP\_65) = 1 TMP\_66 = 0 TMP\_67 = 1 not(TMP\_67) = 0 TMP\_68 = 1 not(TMP\_68) = 0 TMP\_69 = 2 TMP\_70 = 0 not(TMP\_70) = 1 TMP\_71 = 0 not(TMP\_71) = 1 TMP\_72 = 1 not(TMP\_72) = 0 TMP\_73 = 1 not(TMP\_73) = 0 TMP\_74 = 1 not(TMP\_74) = 0 TMP\_75 = 2 Area\_0 = 60 Distance\_0\_Rule\_0 = 20 Distance\_1\_Rule\_0 = 3 Distance\_2\_Rule\_0 = 1 Area\_1 = 360 -(Rule\_1\_LB) = 0 Distance\_0\_Rule\_1 = 120 -(Rule\_1\_LB) = 0 Distance\_1\_Rule\_1 = 3 -(Rule\_1\_LB) = 0 Distance\_2\_Rule\_1 = 1 Area\_2 = 300 -(Rule\_2\_LB) = -20 Distance\_0\_Rule\_2 = 100 -(Rule\_2\_LB) = 0 Distance\_1\_Rule\_2 = 3 -(Rule\_2\_LB) = -1 Distance\_2\_Rule\_2 = 1 TMP\_76 = 720 .

- Complete search - 2 solution(s) found.

Solutions: 2

Building time : 0.207s

Initialisation : 0.000s

Initial propagation : 0.034s

Resolution : 0.065s

Nodes: 4 (61.6 n/s)

Backtracks: 5

Fails: 1

Restarts: 0

Max depth: 2

Memory: 0mb

Variables: 188

Constraints: 186

## Rules = 2 - Missing Rules = 3

- Solution #1 found. 1 Solutions, Resolution 0.349s, 632 Nodes (1,808.5 n/s), 1230 Backtracks, 623 Fails, 0 Restarts

Rule\_2\_LB = 20 Rule\_2\_UB = 21 Rule\_2\_LB = 0 Rule\_2\_UB = 3 Rule\_2\_LB = 1 Rule\_2\_UB = 2 Rule\_3\_LB = 79 Rule\_3\_UB = 120 Rule\_3\_LB = 0 Rule\_3\_UB = 3 Rule\_3\_LB = 1 Rule\_3\_UB = 2 Rule\_4\_LB = 0 Rule\_4\_UB = 120 Rule\_4\_LB = 0 Rule\_4\_UB = 3 Rule\_4\_LB = 0 Rule\_4\_UB = 1 Overlaps\_0\_0 = 0 Overlaps\_0\_1 = 0 Overlaps\_0\_2 = 0 Overlaps\_0\_3 = 0 Overlaps\_0\_4 = 0 Overlaps\_1\_0 = 0 Overlaps\_1\_1 = 0 Overlaps\_1\_2 = 0 Overlaps\_1\_3 = 0 Overlaps\_1\_4 = 0 Overlaps\_2\_0 = 0 Overlaps\_2\_1 = 0 Overlaps\_2\_2 = 0 Overlaps\_2\_3 = 0 Overlaps\_2\_4 = 0 Overlaps\_3\_0 = 0 Overlaps\_3\_1 = 0 Overlaps\_3\_2 = 0 Overlaps\_3\_3 = 0 Overlaps\_3\_4 = 0 Overlaps\_4\_0 = 0 Overlaps\_4\_1 = 0 Overlaps\_4\_2 = 0 Overlaps\_4\_3 = 0 Overlaps\_4\_4 = 0 TMP\_0 = 0 not(TMP\_0) = 1 TMP\_1 = 1 not(TMP\_1) = 0 TMP\_2 = 1 not(TMP\_2) = 0 TMP\_3 = 1 not(TMP\_3) = 0 TMP\_4 = 1 not(TMP\_4) = 0 TMP\_5 = 1 not(TMP\_5) = 0 TMP\_6 = 5 TMP\_7 = 0 not(TMP\_7) = 1 TMP\_8 = 0 not(TMP\_8) = 1 TMP\_9 = 0 TMP\_10 = 1 not(TMP\_10) = 0 TMP\_11 = 1 not(TMP\_11) = 0 TMP\_12 = 2 TMP\_13 = 0 not(TMP\_13) = 1 TMP\_14 = 0 not(TMP\_14) = 1 TMP\_15 = 1 not(TMP\_15) = 0 TMP\_16 = 1 not(TMP\_16) = 0 TMP\_17 = 1 not(TMP\_17) = 0 TMP\_18 = 2 TMP\_19 = 1 not(TMP\_19) = 0 TMP\_20 = 0 not(TMP\_20) = 1 TMP\_21 = 1 not(TMP\_21) = 0 TMP\_22 = 1 not(TMP\_22) = 0 TMP\_23 = 1 not(TMP\_23) = 0 TMP\_24 = 1 not(TMP\_24) = 0 TMP\_25 = 5 TMP\_26 = 0 not(TMP\_26) = 1 TMP\_27 = 0 not(TMP\_27) = 1 TMP\_28 = 0 TMP\_29 = 1 not(TMP\_29) = 0 TMP\_30 = 1 not(TMP\_30) = 0 TMP\_31 = 2 TMP\_32 = 0 not(TMP\_32) = 1 TMP\_33 = 0 not(TMP\_33) = 1 TMP\_34 = 1 not(TMP\_34) = 0 TMP\_35 = 1 not(TMP\_35) = 0 TMP\_36 = 1 not(TMP\_36) = 0 TMP\_37 = 2 TMP\_38 = 1 not(TMP\_38) = 0 TMP\_39 = 0 not(TMP\_39) = 1 TMP\_40 = 1 not(TMP\_40) = 0 TMP\_41 = 1 not(TMP\_41) = 0 TMP\_42 = 1 not(TMP\_42) = 0 TMP\_43 = 1 not(TMP\_43) = 0 TMP\_44 = 5 TMP\_45 = 0 not(TMP\_45) = 1 TMP\_46 = 0 not(TMP\_46) = 1 TMP\_47 = 0 TMP\_48 = 1 not(TMP\_48) = 0 TMP\_49 = 1 not(TMP\_49) = 0 TMP\_50 = 2 TMP\_51 = 0 not(TMP\_51) = 1 TMP\_52 = 0 not(TMP\_52) = 1 TMP\_53 = 1 not(TMP\_53) = 0 TMP\_54 = 1 not(TMP\_54) = 0 TMP\_55 = 1 not(TMP\_55) = 0 TMP\_56 = 2 TMP\_57 = 1 not(TMP\_57) = 0 TMP\_58 = 1 not(TMP\_58) = 0 TMP\_59 = 1 not(TMP\_59) = 0 TMP\_60 = 1 not(TMP\_60) = 0 TMP\_61 = 0 not(TMP\_61) = 1 TMP\_62 = 1 not(TMP\_62) = 0 TMP\_63 = 5 TMP\_64 = 0 not(TMP\_64) = 1 TMP\_65 = 0 not(TMP\_65) = 1 TMP\_66 = 0 TMP\_67 = 1 not(TMP\_67) = 0 TMP\_68 = 1 not(TMP\_68) = 0 TMP\_69 = 2 TMP\_70 = 0 not(TMP\_70) = 1 TMP\_71 = 0 not(TMP\_71) = 1 TMP\_72 = 1 not(TMP\_72) = 0 TMP\_73 = 1 not(TMP\_73) = 0 TMP\_74 = 1 not(TMP\_74) = 0 TMP\_75 = 2 TMP\_76 = 0 not(TMP\_76) = 1 TMP\_77 = 1 not(TMP\_77) = 0 TMP\_78 = 1 not(TMP\_78) = 0 TMP\_79 = 1 not(TMP\_79) = 0 TMP\_80 = 1 not(TMP\_80) = 0 TMP\_81 = 1 not(TMP\_81) = 0 TMP\_82 = 5 TMP\_83 = 0 not(TMP\_83) = 1 TMP\_84 = 0 not(TMP\_84) = 1 TMP\_85 = 0 TMP\_86 = 1 not(TMP\_86) = 0 TMP\_87 = 1 not(TMP\_87) = 0 TMP\_88 = 2 TMP\_89 = 0 not(TMP\_89) = 1 TMP\_90 = 0 not(TMP\_90) = 1 TMP\_91 = 1 not(TMP\_91) = 0 TMP\_92 = 1 not(TMP\_92) = 0 TMP\_93 = 1 not(TMP\_93) = 0 TMP\_94 = 2 TMP\_95 = 0 not(TMP\_95) = 1 TMP\_96 = 1 not(TMP\_96) = 0 TMP\_97 = 1 not(TMP\_97) = 0 TMP\_98 = 1 not(TMP\_98) = 0 TMP\_99 = 1 not(TMP\_99) = 0 TMP\_100 = 1 not(TMP\_100) = 0 TMP\_101 = 5 TMP\_102 = 0 not(TMP\_102) = 1 TMP\_103 = 0 not(TMP\_103) = 1 TMP\_104 = 0 TMP\_105 = 1 not(TMP\_105) = 0 TMP\_106 = 1 not(TMP\_106) = 0 TMP\_107 = 2 TMP\_108 = 0 not(TMP\_108) = 1 TMP\_109 = 0 not(TMP\_109) = 1 TMP\_110 = 1 not(TMP\_110) = 0 TMP\_111 = 1 not(TMP\_111) = 0 TMP\_112 = 1 not(TMP\_112) = 0 TMP\_113 = 2 TMP\_114 = 0 not(TMP\_114) = 1 TMP\_115 = 1 not(TMP\_115) = 0 TMP\_116 = 1 not(TMP\_116) = 0 TMP\_117 = 1 not(TMP\_117) = 0 TMP\_118 = 1 not(TMP\_118) = 0 TMP\_119 = 1 not(TMP\_119) = 0 TMP\_120 = 5 TMP\_121 = 0 not(TMP\_121) = 1 TMP\_122 = 0 not(TMP\_122) = 1 TMP\_123 = 0 TMP\_124 = 1 not(TMP\_124) = 0 TMP\_125 = 1 not(TMP\_125) = 0 TMP\_126 = 2 TMP\_127 = 0 not(TMP\_127) = 1 TMP\_128 = 0 not(TMP\_128) = 1 TMP\_129 = 1 not(TMP\_129) = 0 TMP\_130 = 1 not(TMP\_130) = 0 TMP\_131 = 1 not(TMP\_131) = 0 TMP\_132 = 2 TMP\_133 = 1 not(TMP\_133) = 0 TMP\_134 = 1 not(TMP\_134) = 0 TMP\_135 = 1 not(TMP\_135) = 0 TMP\_136 = 1 not(TMP\_136) = 0 TMP\_137 = 0 not(TMP\_137) = 1 TMP\_138 = 1 not(TMP\_138) = 0 TMP\_139 = 5 TMP\_140 = 0 not(TMP\_140) = 1 TMP\_141 = 0 not(TMP\_141) = 1 TMP\_142 = 0 TMP\_143 = 1 not(TMP\_143) = 0 TMP\_144 = 1 not(TMP\_144) = 0 TMP\_145 = 2 TMP\_146 = 0 not(TMP\_146) = 1 TMP\_147 = 0 not(TMP\_147) = 1 TMP\_148 = 1 not(TMP\_148) = 0 TMP\_149 = 1 not(TMP\_149) = 0 TMP\_150 = 1 not(TMP\_150) = 0 TMP\_151 = 2 TMP\_152 = 1 not(TMP\_152) = 0 TMP\_153 = 1 not(TMP\_153) = 0 TMP\_154 = 1 not(TMP\_154) = 0 TMP\_155 = 1 not(TMP\_155) = 0 TMP\_156 = 1 not(TMP\_156) = 0 TMP\_157 = 0 not(TMP\_157) = 1 TMP\_158 = 5 TMP\_159 = 0 not(TMP\_159) = 1 TMP\_160 = 0 not(TMP\_160) = 1 TMP\_161 = 0 TMP\_162 = 1 not(TMP\_162) = 0 TMP\_163 = 1 not(TMP\_163) = 0 TMP\_164 = 2 TMP\_165 = 0 not(TMP\_165) = 1 TMP\_166 = 0 not(TMP\_166) = 1 TMP\_167 = 1 not(TMP\_167) = 0 TMP\_168 = 1 not(TMP\_168) = 0 TMP\_169 = 1 not(TMP\_169) = 0 TMP\_170 = 2 TMP\_171 = 1 not(TMP\_171) = 0 TMP\_172 = 1 not(TMP\_172) = 0 TMP\_173 = 1 not(TMP\_173) = 0 TMP\_174 = 1 not(TMP\_174) = 0 TMP\_175 = 1 not(TMP\_175) = 0 TMP\_176 = 0 not(TMP\_176) = 1 TMP\_177 = 5 TMP\_178 = 0 not(TMP\_178) = 1 TMP\_179 = 0 not(TMP\_179) = 1 TMP\_180 = 0 TMP\_181 = 1 not(TMP\_181) = 0 TMP\_182 = 1 not(TMP\_182) = 0 TMP\_183 = 2 TMP\_184 = 0 not(TMP\_184) = 1 TMP\_185 = 0 not(TMP\_185) = 1 TMP\_186 = 1 not(TMP\_186) = 0 TMP\_187 = 1 not(TMP\_187) = 0 TMP\_188 = 1 not(TMP\_188) = 0 TMP\_189 = 2 TMP\_190 = 1 not(TMP\_190) = 0 TMP\_191 = 1 not(TMP\_191) = 0 TMP\_192 = 1 not(TMP\_192) = 0 TMP\_193 = 1 not(TMP\_193) = 0 TMP\_194 = 1 not(TMP\_194) = 0 TMP\_195 = 0 not(TMP\_195) = 1 TMP\_196 = 5 TMP\_197 = 0 not(TMP\_197) = 1 TMP\_198 = 0 not(TMP\_198) = 1 TMP\_199 = 0 TMP\_200 = 1 not(TMP\_200) = 0 TMP\_201 = 1 not(TMP\_201) = 0 TMP\_202 = 2 TMP\_203 = 0 not(TMP\_203) = 1 TMP\_204 = 0 not(TMP\_204) = 1 TMP\_205 = 1 not(TMP\_205) = 0 TMP\_206 = 1 not(TMP\_206) = 0 TMP\_207 = 1 not(TMP\_207) = 0 TMP\_208 = 2 TMP\_209 = 1 not(TMP\_209) = 0 TMP\_210 = 1 not(TMP\_210) = 0 TMP\_211 = 1 not(TMP\_211) = 0 TMP\_212 = 1 not(TMP\_212) = 0 TMP\_213 = 1 not(TMP\_213) = 0 TMP\_214 = 0 not(TMP\_214) = 1 TMP\_215 = 5 TMP\_216 = 0 not(TMP\_216) = 1 TMP\_217 = 0 not(TMP\_217) = 1 TMP\_218 = 0 TMP\_219 = 1 not(TMP\_219) = 0 TMP\_220 = 1 not(TMP\_220) = 0 TMP\_221 = 2 TMP\_222 = 0 not(TMP\_222) = 1 TMP\_223 = 0 not(TMP\_223) = 1 TMP\_224 = 1 not(TMP\_224) = 0 TMP\_225 = 1 not(TMP\_225) = 0 TMP\_226 = 1 not(TMP\_226) = 0 TMP\_227 = 2 Area\_0 = 60 Distance\_0\_Rule\_0 = 20 Distance\_1\_Rule\_0 = 3 Distance\_2\_Rule\_0 = 1 Area\_1 = 174 Distance\_0\_Rule\_1 = 58 Distance\_1\_Rule\_1 = 3 Distance\_2\_Rule\_1 = 1 Area\_2 = 3 -(Rule\_2\_LB) = -20 Distance\_0\_Rule\_2 = 1 -(Rule\_2\_LB) = 0 Distance\_1\_Rule\_2 = 3 -(Rule\_2\_LB) = -1 Distance\_2\_Rule\_2 = 1 Area\_3 = 123 -(Rule\_3\_LB) = -79 Distance\_0\_Rule\_3 = 41 -(Rule\_3\_LB) = 0 Distance\_1\_Rule\_3 = 3 -(Rule\_3\_LB) = -1 Distance\_2\_Rule\_3 = 1 Area\_4 = 360 -(Rule\_4\_LB) = 0 Distance\_0\_Rule\_4 = 120 -(Rule\_4\_LB) = 0 Distance\_1\_Rule\_4 = 3 -(Rule\_4\_LB) = 0 Distance\_2\_Rule\_4 = 1 TMP\_228 = 720 .

- Solution #2 found. 2 Solutions, Resolution 0.378s, 633 Nodes (1,672.9 n/s), 1231 Backtracks, 623 Fails, 0 Restarts

Rule\_2\_LB = 20 Rule\_2\_UB = 21 Rule\_2\_LB = 0 Rule\_2\_UB = 3 Rule\_2\_LB = 1 Rule\_2\_UB = 2 Rule\_3\_LB = 79 Rule\_3\_UB = 120 Rule\_3\_LB = 0 Rule\_3\_UB = 3 Rule\_3\_LB = 1 Rule\_3\_UB = 2 Rule\_4\_LB = 0 Rule\_4\_UB = 120 Rule\_4\_LB = 0 Rule\_4\_UB = 3 Rule\_4\_LB = 0 Rule\_4\_UB = 1 Overlaps\_0\_0 = 0 Overlaps\_0\_1 = 0 Overlaps\_0\_2 = 0 Overlaps\_0\_3 = 0 Overlaps\_0\_4 = 0 Overlaps\_1\_0 = 1 Overlaps\_1\_1 = 0 Overlaps\_1\_2 = 0 Overlaps\_1\_3 = 0 Overlaps\_1\_4 = 0 Overlaps\_2\_0 = 0 Overlaps\_2\_1 = 0 Overlaps\_2\_2 = 0 Overlaps\_2\_3 = 0 Overlaps\_2\_4 = 0 Overlaps\_3\_0 = 0 Overlaps\_3\_1 = 0 Overlaps\_3\_2 = 0 Overlaps\_3\_3 = 0 Overlaps\_3\_4 = 0 Overlaps\_4\_0 = 0 Overlaps\_4\_1 = 0 Overlaps\_4\_2 = 0 Overlaps\_4\_3 = 0 Overlaps\_4\_4 = 0 TMP\_0 = 0 not(TMP\_0) = 1 TMP\_1 = 1 not(TMP\_1) = 0 TMP\_2 = 1 not(TMP\_2) = 0 TMP\_3 = 1 not(TMP\_3) = 0 TMP\_4 = 1 not(TMP\_4) = 0 TMP\_5 = 1 not(TMP\_5) = 0 TMP\_6 = 5 TMP\_7 = 0 not(TMP\_7) = 1 TMP\_8 = 0 not(TMP\_8) = 1 TMP\_9 = 0 TMP\_10 = 1 not(TMP\_10) = 0 TMP\_11 = 1 not(TMP\_11) = 0 TMP\_12 = 2 TMP\_13 = 0 not(TMP\_13) = 1 TMP\_14 = 0 not(TMP\_14) = 1 TMP\_15 = 1 not(TMP\_15) = 0 TMP\_16 = 1 not(TMP\_16) = 0 TMP\_17 = 1 not(TMP\_17) = 0 TMP\_18 = 2 TMP\_19 = 1 not(TMP\_19) = 0 TMP\_20 = 0 not(TMP\_20) = 1 TMP\_21 = 1 not(TMP\_21) = 0 TMP\_22 = 1 not(TMP\_22) = 0 TMP\_23 = 1 not(TMP\_23) = 0 TMP\_24 = 1 not(TMP\_24) = 0 TMP\_25 = 5 TMP\_26 = 0 not(TMP\_26) = 1 TMP\_27 = 0 not(TMP\_27) = 1 TMP\_28 = 0 TMP\_29 = 1 not(TMP\_29) = 0 TMP\_30 = 1 not(TMP\_30) = 0 TMP\_31 = 2 TMP\_32 = 0 not(TMP\_32) = 1 TMP\_33 = 0 not(TMP\_33) = 1 TMP\_34 = 1 not(TMP\_34) = 0 TMP\_35 = 1 not(TMP\_35) = 0 TMP\_36 = 1 not(TMP\_36) = 0 TMP\_37 = 2 TMP\_38 = 1 not(TMP\_38) = 0 TMP\_39 = 0 not(TMP\_39) = 1 TMP\_40 = 1 not(TMP\_40) = 0 TMP\_41 = 1 not(TMP\_41) = 0 TMP\_42 = 1 not(TMP\_42) = 0 TMP\_43 = 1 not(TMP\_43) = 0 TMP\_44 = 5 TMP\_45 = 0 not(TMP\_45) = 1 TMP\_46 = 0 not(TMP\_46) = 1 TMP\_47 = 0 TMP\_48 = 1 not(TMP\_48) = 0 TMP\_49 = 1 not(TMP\_49) = 0 TMP\_50 = 2 TMP\_51 = 0 not(TMP\_51) = 1 TMP\_52 = 0 not(TMP\_52) = 1 TMP\_53 = 1 not(TMP\_53) = 0 TMP\_54 = 1 not(TMP\_54) = 0 TMP\_55 = 1 not(TMP\_55) = 0 TMP\_56 = 2 TMP\_57 = 1 not(TMP\_57) = 0 TMP\_58 = 1 not(TMP\_58) = 0 TMP\_59 = 1 not(TMP\_59) = 0 TMP\_60 = 1 not(TMP\_60) = 0 TMP\_61 = 0 not(TMP\_61) = 1 TMP\_62 = 1 not(TMP\_62) = 0 TMP\_63 = 5 TMP\_64 = 0 not(TMP\_64) = 1 TMP\_65 = 0 not(TMP\_65) = 1 TMP\_66 = 0 TMP\_67 = 1 not(TMP\_67) = 0 TMP\_68 = 1 not(TMP\_68) = 0 TMP\_69 = 2 TMP\_70 = 0 not(TMP\_70) = 1 TMP\_71 = 0 not(TMP\_71) = 1 TMP\_72 = 1 not(TMP\_72) = 0 TMP\_73 = 1 not(TMP\_73) = 0 TMP\_74 = 1 not(TMP\_74) = 0 TMP\_75 = 2 TMP\_76 = 0 not(TMP\_76) = 1 TMP\_77 = 1 not(TMP\_77) = 0 TMP\_78 = 1 not(TMP\_78) = 0 TMP\_79 = 1 not(TMP\_79) = 0 TMP\_80 = 1 not(TMP\_80) = 0 TMP\_81 = 1 not(TMP\_81) = 0 TMP\_82 = 5 TMP\_83 = 0 not(TMP\_83) = 1 TMP\_84 = 0 not(TMP\_84) = 1 TMP\_85 = 0 TMP\_86 = 1 not(TMP\_86) = 0 TMP\_87 = 1 not(TMP\_87) = 0 TMP\_88 = 2 TMP\_89 = 0 not(TMP\_89) = 1 TMP\_90 = 0 not(TMP\_90) = 1 TMP\_91 = 1 not(TMP\_91) = 0 TMP\_92 = 1 not(TMP\_92) = 0 TMP\_93 = 1 not(TMP\_93) = 0 TMP\_94 = 2 TMP\_95 = 0 not(TMP\_95) = 1 TMP\_96 = 1 not(TMP\_96) = 0 TMP\_97 = 1 not(TMP\_97) = 0 TMP\_98 = 1 not(TMP\_98) = 0 TMP\_99 = 1 not(TMP\_99) = 0 TMP\_100 = 1 not(TMP\_100) = 0 TMP\_101 = 5 TMP\_102 = 0 not(TMP\_102) = 1 TMP\_103 = 0 not(TMP\_103) = 1 TMP\_104 = 0 TMP\_105 = 1 not(TMP\_105) = 0 TMP\_106 = 1 not(TMP\_106) = 0 TMP\_107 = 2 TMP\_108 = 0 not(TMP\_108) = 1 TMP\_109 = 0 not(TMP\_109) = 1 TMP\_110 = 1 not(TMP\_110) = 0 TMP\_111 = 1 not(TMP\_111) = 0 TMP\_112 = 1 not(TMP\_112) = 0 TMP\_113 = 2 TMP\_114 = 0 not(TMP\_114) = 1 TMP\_115 = 1 not(TMP\_115) = 0 TMP\_116 = 1 not(TMP\_116) = 0 TMP\_117 = 1 not(TMP\_117) = 0 TMP\_118 = 1 not(TMP\_118) = 0 TMP\_119 = 1 not(TMP\_119) = 0 TMP\_120 = 5 TMP\_121 = 0 not(TMP\_121) = 1 TMP\_122 = 0 not(TMP\_122) = 1 TMP\_123 = 0 TMP\_124 = 1 not(TMP\_124) = 0 TMP\_125 = 1 not(TMP\_125) = 0 TMP\_126 = 2 TMP\_127 = 0 not(TMP\_127) = 1 TMP\_128 = 0 not(TMP\_128) = 1 TMP\_129 = 1 not(TMP\_129) = 0 TMP\_130 = 1 not(TMP\_130) = 0 TMP\_131 = 1 not(TMP\_131) = 0 TMP\_132 = 2 TMP\_133 = 1 not(TMP\_133) = 0 TMP\_134 = 1 not(TMP\_134) = 0 TMP\_135 = 1 not(TMP\_135) = 0 TMP\_136 = 1 not(TMP\_136) = 0 TMP\_137 = 0 not(TMP\_137) = 1 TMP\_138 = 1 not(TMP\_138) = 0 TMP\_139 = 5 TMP\_140 = 0 not(TMP\_140) = 1 TMP\_141 = 0 not(TMP\_141) = 1 TMP\_142 = 0 TMP\_143 = 1 not(TMP\_143) = 0 TMP\_144 = 1 not(TMP\_144) = 0 TMP\_145 = 2 TMP\_146 = 0 not(TMP\_146) = 1 TMP\_147 = 0 not(TMP\_147) = 1 TMP\_148 = 1 not(TMP\_148) = 0 TMP\_149 = 1 not(TMP\_149) = 0 TMP\_150 = 1 not(TMP\_150) = 0 TMP\_151 = 2 TMP\_152 = 1 not(TMP\_152) = 0 TMP\_153 = 1 not(TMP\_153) = 0 TMP\_154 = 1 not(TMP\_154) = 0 TMP\_155 = 1 not(TMP\_155) = 0 TMP\_156 = 1 not(TMP\_156) = 0 TMP\_157 = 0 not(TMP\_157) = 1 TMP\_158 = 5 TMP\_159 = 0 not(TMP\_159) = 1 TMP\_160 = 0 not(TMP\_160) = 1 TMP\_161 = 0 TMP\_162 = 1 not(TMP\_162) = 0 TMP\_163 = 1 not(TMP\_163) = 0 TMP\_164 = 2 TMP\_165 = 0 not(TMP\_165) = 1 TMP\_166 = 0 not(TMP\_166) = 1 TMP\_167 = 1 not(TMP\_167) = 0 TMP\_168 = 1 not(TMP\_168) = 0 TMP\_169 = 1 not(TMP\_169) = 0 TMP\_170 = 2 TMP\_171 = 1 not(TMP\_171) = 0 TMP\_172 = 1 not(TMP\_172) = 0 TMP\_173 = 1 not(TMP\_173) = 0 TMP\_174 = 1 not(TMP\_174) = 0 TMP\_175 = 1 not(TMP\_175) = 0 TMP\_176 = 0 not(TMP\_176) = 1 TMP\_177 = 5 TMP\_178 = 0 not(TMP\_178) = 1 TMP\_179 = 0 not(TMP\_179) = 1 TMP\_180 = 0 TMP\_181 = 1 not(TMP\_181) = 0 TMP\_182 = 1 not(TMP\_182) = 0 TMP\_183 = 2 TMP\_184 = 0 not(TMP\_184) = 1 TMP\_185 = 0 not(TMP\_185) = 1 TMP\_186 = 1 not(TMP\_186) = 0 TMP\_187 = 1 not(TMP\_187) = 0 TMP\_188 = 1 not(TMP\_188) = 0 TMP\_189 = 2 TMP\_190 = 1 not(TMP\_190) = 0 TMP\_191 = 1 not(TMP\_191) = 0 TMP\_192 = 1 not(TMP\_192) = 0 TMP\_193 = 1 not(TMP\_193) = 0 TMP\_194 = 1 not(TMP\_194) = 0 TMP\_195 = 0 not(TMP\_195) = 1 TMP\_196 = 5 TMP\_197 = 0 not(TMP\_197) = 1 TMP\_198 = 0 not(TMP\_198) = 1 TMP\_199 = 0 TMP\_200 = 1 not(TMP\_200) = 0 TMP\_201 = 1 not(TMP\_201) = 0 TMP\_202 = 2 TMP\_203 = 0 not(TMP\_203) = 1 TMP\_204 = 0 not(TMP\_204) = 1 TMP\_205 = 1 not(TMP\_205) = 0 TMP\_206 = 1 not(TMP\_206) = 0 TMP\_207 = 1 not(TMP\_207) = 0 TMP\_208 = 2 TMP\_209 = 1 not(TMP\_209) = 0 TMP\_210 = 1 not(TMP\_210) = 0 TMP\_211 = 1 not(TMP\_211) = 0 TMP\_212 = 1 not(TMP\_212) = 0 TMP\_213 = 1 not(TMP\_213) = 0 TMP\_214 = 0 not(TMP\_214) = 1 TMP\_215 = 5 TMP\_216 = 0 not(TMP\_216) = 1 TMP\_217 = 0 not(TMP\_217) = 1 TMP\_218 = 0 TMP\_219 = 1 not(TMP\_219) = 0 TMP\_220 = 1 not(TMP\_220) = 0 TMP\_221 = 2 TMP\_222 = 0 not(TMP\_222) = 1 TMP\_223 = 0 not(TMP\_223) = 1 TMP\_224 = 1 not(TMP\_224) = 0 TMP\_225 = 1 not(TMP\_225) = 0 TMP\_226 = 1 not(TMP\_226) = 0 TMP\_227 = 2 Area\_0 = 60 Distance\_0\_Rule\_0 = 20 Distance\_1\_Rule\_0 = 3 Distance\_2\_Rule\_0 = 1 Area\_1 = 174 Distance\_0\_Rule\_1 = 58 Distance\_1\_Rule\_1 = 3 Distance\_2\_Rule\_1 = 1 Area\_2 = 3 -(Rule\_2\_LB) = -20 Distance\_0\_Rule\_2 = 1 -(Rule\_2\_LB) = 0 Distance\_1\_Rule\_2 = 3 -(Rule\_2\_LB) = -1 Distance\_2\_Rule\_2 = 1 Area\_3 = 123 -(Rule\_3\_LB) = -79 Distance\_0\_Rule\_3 = 41 -(Rule\_3\_LB) = 0 Distance\_1\_Rule\_3 = 3 -(Rule\_3\_LB) = -1 Distance\_2\_Rule\_3 = 1 Area\_4 = 360 -(Rule\_4\_LB) = 0 Distance\_0\_Rule\_4 = 120 -(Rule\_4\_LB) = 0 Distance\_1\_Rule\_4 = 3 -(Rule\_4\_LB) = 0 Distance\_2\_Rule\_4 = 1 TMP\_228 = 720 .

- Solution #3 found. 3 Solutions, Resolution 0.383s, 635 Nodes (1,657.2 n/s), 1233 Backtracks, 623 Fails, 0 Restarts

Rule\_2\_LB = 20 Rule\_2\_UB = 21 Rule\_2\_LB = 0 Rule\_2\_UB = 3 Rule\_2\_LB = 1 Rule\_2\_UB = 2 Rule\_3\_LB = 79 Rule\_3\_UB = 120 Rule\_3\_LB = 0 Rule\_3\_UB = 3 Rule\_3\_LB = 1 Rule\_3\_UB = 2 Rule\_4\_LB = 0 Rule\_4\_UB = 120 Rule\_4\_LB = 0 Rule\_4\_UB = 3 Rule\_4\_LB = 0 Rule\_4\_UB = 1 Overlaps\_0\_0 = 0 Overlaps\_0\_1 = 1 Overlaps\_0\_2 = 0 Overlaps\_0\_3 = 0 Overlaps\_0\_4 = 0 Overlaps\_1\_0 = 0 Overlaps\_1\_1 = 0 Overlaps\_1\_2 = 0 Overlaps\_1\_3 = 0 Overlaps\_1\_4 = 0 Overlaps\_2\_0 = 0 Overlaps\_2\_1 = 0 Overlaps\_2\_2 = 0 Overlaps\_2\_3 = 0 Overlaps\_2\_4 = 0 Overlaps\_3\_0 = 0 Overlaps\_3\_1 = 0 Overlaps\_3\_2 = 0 Overlaps\_3\_3 = 0 Overlaps\_3\_4 = 0 Overlaps\_4\_0 = 0 Overlaps\_4\_1 = 0 Overlaps\_4\_2 = 0 Overlaps\_4\_3 = 0 Overlaps\_4\_4 = 0 TMP\_0 = 0 not(TMP\_0) = 1 TMP\_1 = 1 not(TMP\_1) = 0 TMP\_2 = 1 not(TMP\_2) = 0 TMP\_3 = 1 not(TMP\_3) = 0 TMP\_4 = 1 not(TMP\_4) = 0 TMP\_5 = 1 not(TMP\_5) = 0 TMP\_6 = 5 TMP\_7 = 0 not(TMP\_7) = 1 TMP\_8 = 0 not(TMP\_8) = 1 TMP\_9 = 0 TMP\_10 = 1 not(TMP\_10) = 0 TMP\_11 = 1 not(TMP\_11) = 0 TMP\_12 = 2 TMP\_13 = 0 not(TMP\_13) = 1 TMP\_14 = 0 not(TMP\_14) = 1 TMP\_15 = 1 not(TMP\_15) = 0 TMP\_16 = 1 not(TMP\_16) = 0 TMP\_17 = 1 not(TMP\_17) = 0 TMP\_18 = 2 TMP\_19 = 1 not(TMP\_19) = 0 TMP\_20 = 0 not(TMP\_20) = 1 TMP\_21 = 1 not(TMP\_21) = 0 TMP\_22 = 1 not(TMP\_22) = 0 TMP\_23 = 1 not(TMP\_23) = 0 TMP\_24 = 1 not(TMP\_24) = 0 TMP\_25 = 5 TMP\_26 = 0 not(TMP\_26) = 1 TMP\_27 = 0 not(TMP\_27) = 1 TMP\_28 = 0 TMP\_29 = 1 not(TMP\_29) = 0 TMP\_30 = 1 not(TMP\_30) = 0 TMP\_31 = 2 TMP\_32 = 0 not(TMP\_32) = 1 TMP\_33 = 0 not(TMP\_33) = 1 TMP\_34 = 1 not(TMP\_34) = 0 TMP\_35 = 1 not(TMP\_35) = 0 TMP\_36 = 1 not(TMP\_36) = 0 TMP\_37 = 2 TMP\_38 = 1 not(TMP\_38) = 0 TMP\_39 = 0 not(TMP\_39) = 1 TMP\_40 = 1 not(TMP\_40) = 0 TMP\_41 = 1 not(TMP\_41) = 0 TMP\_42 = 1 not(TMP\_42) = 0 TMP\_43 = 1 not(TMP\_43) = 0 TMP\_44 = 5 TMP\_45 = 0 not(TMP\_45) = 1 TMP\_46 = 0 not(TMP\_46) = 1 TMP\_47 = 0 TMP\_48 = 1 not(TMP\_48) = 0 TMP\_49 = 1 not(TMP\_49) = 0 TMP\_50 = 2 TMP\_51 = 0 not(TMP\_51) = 1 TMP\_52 = 0 not(TMP\_52) = 1 TMP\_53 = 1 not(TMP\_53) = 0 TMP\_54 = 1 not(TMP\_54) = 0 TMP\_55 = 1 not(TMP\_55) = 0 TMP\_56 = 2 TMP\_57 = 1 not(TMP\_57) = 0 TMP\_58 = 1 not(TMP\_58) = 0 TMP\_59 = 1 not(TMP\_59) = 0 TMP\_60 = 1 not(TMP\_60) = 0 TMP\_61 = 0 not(TMP\_61) = 1 TMP\_62 = 1 not(TMP\_62) = 0 TMP\_63 = 5 TMP\_64 = 0 not(TMP\_64) = 1 TMP\_65 = 0 not(TMP\_65) = 1 TMP\_66 = 0 TMP\_67 = 1 not(TMP\_67) = 0 TMP\_68 = 1 not(TMP\_68) = 0 TMP\_69 = 2 TMP\_70 = 0 not(TMP\_70) = 1 TMP\_71 = 0 not(TMP\_71) = 1 TMP\_72 = 1 not(TMP\_72) = 0 TMP\_73 = 1 not(TMP\_73) = 0 TMP\_74 = 1 not(TMP\_74) = 0 TMP\_75 = 2 TMP\_76 = 0 not(TMP\_76) = 1 TMP\_77 = 1 not(TMP\_77) = 0 TMP\_78 = 1 not(TMP\_78) = 0 TMP\_79 = 1 not(TMP\_79) = 0 TMP\_80 = 1 not(TMP\_80) = 0 TMP\_81 = 1 not(TMP\_81) = 0 TMP\_82 = 5 TMP\_83 = 0 not(TMP\_83) = 1 TMP\_84 = 0 not(TMP\_84) = 1 TMP\_85 = 0 TMP\_86 = 1 not(TMP\_86) = 0 TMP\_87 = 1 not(TMP\_87) = 0 TMP\_88 = 2 TMP\_89 = 0 not(TMP\_89) = 1 TMP\_90 = 0 not(TMP\_90) = 1 TMP\_91 = 1 not(TMP\_91) = 0 TMP\_92 = 1 not(TMP\_92) = 0 TMP\_93 = 1 not(TMP\_93) = 0 TMP\_94 = 2 TMP\_95 = 0 not(TMP\_95) = 1 TMP\_96 = 1 not(TMP\_96) = 0 TMP\_97 = 1 not(TMP\_97) = 0 TMP\_98 = 1 not(TMP\_98) = 0 TMP\_99 = 1 not(TMP\_99) = 0 TMP\_100 = 1 not(TMP\_100) = 0 TMP\_101 = 5 TMP\_102 = 0 not(TMP\_102) = 1 TMP\_103 = 0 not(TMP\_103) = 1 TMP\_104 = 0 TMP\_105 = 1 not(TMP\_105) = 0 TMP\_106 = 1 not(TMP\_106) = 0 TMP\_107 = 2 TMP\_108 = 0 not(TMP\_108) = 1 TMP\_109 = 0 not(TMP\_109) = 1 TMP\_110 = 1 not(TMP\_110) = 0 TMP\_111 = 1 not(TMP\_111) = 0 TMP\_112 = 1 not(TMP\_112) = 0 TMP\_113 = 2 TMP\_114 = 0 not(TMP\_114) = 1 TMP\_115 = 1 not(TMP\_115) = 0 TMP\_116 = 1 not(TMP\_116) = 0 TMP\_117 = 1 not(TMP\_117) = 0 TMP\_118 = 1 not(TMP\_118) = 0 TMP\_119 = 1 not(TMP\_119) = 0 TMP\_120 = 5 TMP\_121 = 0 not(TMP\_121) = 1 TMP\_122 = 0 not(TMP\_122) = 1 TMP\_123 = 0 TMP\_124 = 1 not(TMP\_124) = 0 TMP\_125 = 1 not(TMP\_125) = 0 TMP\_126 = 2 TMP\_127 = 0 not(TMP\_127) = 1 TMP\_128 = 0 not(TMP\_128) = 1 TMP\_129 = 1 not(TMP\_129) = 0 TMP\_130 = 1 not(TMP\_130) = 0 TMP\_131 = 1 not(TMP\_131) = 0 TMP\_132 = 2 TMP\_133 = 1 not(TMP\_133) = 0 TMP\_134 = 1 not(TMP\_134) = 0 TMP\_135 = 1 not(TMP\_135) = 0 TMP\_136 = 1 not(TMP\_136) = 0 TMP\_137 = 0 not(TMP\_137) = 1 TMP\_138 = 1 not(TMP\_138) = 0 TMP\_139 = 5 TMP\_140 = 0 not(TMP\_140) = 1 TMP\_141 = 0 not(TMP\_141) = 1 TMP\_142 = 0 TMP\_143 = 1 not(TMP\_143) = 0 TMP\_144 = 1 not(TMP\_144) = 0 TMP\_145 = 2 TMP\_146 = 0 not(TMP\_146) = 1 TMP\_147 = 0 not(TMP\_147) = 1 TMP\_148 = 1 not(TMP\_148) = 0 TMP\_149 = 1 not(TMP\_149) = 0 TMP\_150 = 1 not(TMP\_150) = 0 TMP\_151 = 2 TMP\_152 = 1 not(TMP\_152) = 0 TMP\_153 = 1 not(TMP\_153) = 0 TMP\_154 = 1 not(TMP\_154) = 0 TMP\_155 = 1 not(TMP\_155) = 0 TMP\_156 = 1 not(TMP\_156) = 0 TMP\_157 = 0 not(TMP\_157) = 1 TMP\_158 = 5 TMP\_159 = 0 not(TMP\_159) = 1 TMP\_160 = 0 not(TMP\_160) = 1 TMP\_161 = 0 TMP\_162 = 1 not(TMP\_162) = 0 TMP\_163 = 1 not(TMP\_163) = 0 TMP\_164 = 2 TMP\_165 = 0 not(TMP\_165) = 1 TMP\_166 = 0 not(TMP\_166) = 1 TMP\_167 = 1 not(TMP\_167) = 0 TMP\_168 = 1 not(TMP\_168) = 0 TMP\_169 = 1 not(TMP\_169) = 0 TMP\_170 = 2 TMP\_171 = 1 not(TMP\_171) = 0 TMP\_172 = 1 not(TMP\_172) = 0 TMP\_173 = 1 not(TMP\_173) = 0 TMP\_174 = 1 not(TMP\_174) = 0 TMP\_175 = 1 not(TMP\_175) = 0 TMP\_176 = 0 not(TMP\_176) = 1 TMP\_177 = 5 TMP\_178 = 0 not(TMP\_178) = 1 TMP\_179 = 0 not(TMP\_179) = 1 TMP\_180 = 0 TMP\_181 = 1 not(TMP\_181) = 0 TMP\_182 = 1 not(TMP\_182) = 0 TMP\_183 = 2 TMP\_184 = 0 not(TMP\_184) = 1 TMP\_185 = 0 not(TMP\_185) = 1 TMP\_186 = 1 not(TMP\_186) = 0 TMP\_187 = 1 not(TMP\_187) = 0 TMP\_188 = 1 not(TMP\_188) = 0 TMP\_189 = 2 TMP\_190 = 1 not(TMP\_190) = 0 TMP\_191 = 1 not(TMP\_191) = 0 TMP\_192 = 1 not(TMP\_192) = 0 TMP\_193 = 1 not(TMP\_193) = 0 TMP\_194 = 1 not(TMP\_194) = 0 TMP\_195 = 0 not(TMP\_195) = 1 TMP\_196 = 5 TMP\_197 = 0 not(TMP\_197) = 1 TMP\_198 = 0 not(TMP\_198) = 1 TMP\_199 = 0 TMP\_200 = 1 not(TMP\_200) = 0 TMP\_201 = 1 not(TMP\_201) = 0 TMP\_202 = 2 TMP\_203 = 0 not(TMP\_203) = 1 TMP\_204 = 0 not(TMP\_204) = 1 TMP\_205 = 1 not(TMP\_205) = 0 TMP\_206 = 1 not(TMP\_206) = 0 TMP\_207 = 1 not(TMP\_207) = 0 TMP\_208 = 2 TMP\_209 = 1 not(TMP\_209) = 0 TMP\_210 = 1 not(TMP\_210) = 0 TMP\_211 = 1 not(TMP\_211) = 0 TMP\_212 = 1 not(TMP\_212) = 0 TMP\_213 = 1 not(TMP\_213) = 0 TMP\_214 = 0 not(TMP\_214) = 1 TMP\_215 = 5 TMP\_216 = 0 not(TMP\_216) = 1 TMP\_217 = 0 not(TMP\_217) = 1 TMP\_218 = 0 TMP\_219 = 1 not(TMP\_219) = 0 TMP\_220 = 1 not(TMP\_220) = 0 TMP\_221 = 2 TMP\_222 = 0 not(TMP\_222) = 1 TMP\_223 = 0 not(TMP\_223) = 1 TMP\_224 = 1 not(TMP\_224) = 0 TMP\_225 = 1 not(TMP\_225) = 0 TMP\_226 = 1 not(TMP\_226) = 0 TMP\_227 = 2 Area\_0 = 60 Distance\_0\_Rule\_0 = 20 Distance\_1\_Rule\_0 = 3 Distance\_2\_Rule\_0 = 1 Area\_1 = 174 Distance\_0\_Rule\_1 = 58 Distance\_1\_Rule\_1 = 3 Distance\_2\_Rule\_1 = 1 Area\_2 = 3 -(Rule\_2\_LB) = -20 Distance\_0\_Rule\_2 = 1 -(Rule\_2\_LB) = 0 Distance\_1\_Rule\_2 = 3 -(Rule\_2\_LB) = -1 Distance\_2\_Rule\_2 = 1 Area\_3 = 123 -(Rule\_3\_LB) = -79 Distance\_0\_Rule\_3 = 41 -(Rule\_3\_LB) = 0 Distance\_1\_Rule\_3 = 3 -(Rule\_3\_LB) = -1 Distance\_2\_Rule\_3 = 1 Area\_4 = 360 -(Rule\_4\_LB) = 0 Distance\_0\_Rule\_4 = 120 -(Rule\_4\_LB) = 0 Distance\_1\_Rule\_4 = 3 -(Rule\_4\_LB) = 0 Distance\_2\_Rule\_4 = 1 TMP\_228 = 720 .

- Solution #4 found. 4 Solutions, Resolution 0.396s, 636 Nodes (1,605.6 n/s), 1234 Backtracks, 623 Fails, 0 Restarts

Rule\_2\_LB = 20 Rule\_2\_UB = 21 Rule\_2\_LB = 0 Rule\_2\_UB = 3 Rule\_2\_LB = 1 Rule\_2\_UB = 2 Rule\_3\_LB = 79 Rule\_3\_UB = 120 Rule\_3\_LB = 0 Rule\_3\_UB = 3 Rule\_3\_LB = 1 Rule\_3\_UB = 2 Rule\_4\_LB = 0 Rule\_4\_UB = 120 Rule\_4\_LB = 0 Rule\_4\_UB = 3 Rule\_4\_LB = 0 Rule\_4\_UB = 1 Overlaps\_0\_0 = 0 Overlaps\_0\_1 = 1 Overlaps\_0\_2 = 0 Overlaps\_0\_3 = 0 Overlaps\_0\_4 = 0 Overlaps\_1\_0 = 1 Overlaps\_1\_1 = 0 Overlaps\_1\_2 = 0 Overlaps\_1\_3 = 0 Overlaps\_1\_4 = 0 Overlaps\_2\_0 = 0 Overlaps\_2\_1 = 0 Overlaps\_2\_2 = 0 Overlaps\_2\_3 = 0 Overlaps\_2\_4 = 0 Overlaps\_3\_0 = 0 Overlaps\_3\_1 = 0 Overlaps\_3\_2 = 0 Overlaps\_3\_3 = 0 Overlaps\_3\_4 = 0 Overlaps\_4\_0 = 0 Overlaps\_4\_1 = 0 Overlaps\_4\_2 = 0 Overlaps\_4\_3 = 0 Overlaps\_4\_4 = 0 TMP\_0 = 0 not(TMP\_0) = 1 TMP\_1 = 1 not(TMP\_1) = 0 TMP\_2 = 1 not(TMP\_2) = 0 TMP\_3 = 1 not(TMP\_3) = 0 TMP\_4 = 1 not(TMP\_4) = 0 TMP\_5 = 1 not(TMP\_5) = 0 TMP\_6 = 5 TMP\_7 = 0 not(TMP\_7) = 1 TMP\_8 = 0 not(TMP\_8) = 1 TMP\_9 = 0 TMP\_10 = 1 not(TMP\_10) = 0 TMP\_11 = 1 not(TMP\_11) = 0 TMP\_12 = 2 TMP\_13 = 0 not(TMP\_13) = 1 TMP\_14 = 0 not(TMP\_14) = 1 TMP\_15 = 1 not(TMP\_15) = 0 TMP\_16 = 1 not(TMP\_16) = 0 TMP\_17 = 1 not(TMP\_17) = 0 TMP\_18 = 2 TMP\_19 = 1 not(TMP\_19) = 0 TMP\_20 = 0 not(TMP\_20) = 1 TMP\_21 = 1 not(TMP\_21) = 0 TMP\_22 = 1 not(TMP\_22) = 0 TMP\_23 = 1 not(TMP\_23) = 0 TMP\_24 = 1 not(TMP\_24) = 0 TMP\_25 = 5 TMP\_26 = 0 not(TMP\_26) = 1 TMP\_27 = 0 not(TMP\_27) = 1 TMP\_28 = 0 TMP\_29 = 1 not(TMP\_29) = 0 TMP\_30 = 1 not(TMP\_30) = 0 TMP\_31 = 2 TMP\_32 = 0 not(TMP\_32) = 1 TMP\_33 = 0 not(TMP\_33) = 1 TMP\_34 = 1 not(TMP\_34) = 0 TMP\_35 = 1 not(TMP\_35) = 0 TMP\_36 = 1 not(TMP\_36) = 0 TMP\_37 = 2 TMP\_38 = 1 not(TMP\_38) = 0 TMP\_39 = 0 not(TMP\_39) = 1 TMP\_40 = 1 not(TMP\_40) = 0 TMP\_41 = 1 not(TMP\_41) = 0 TMP\_42 = 1 not(TMP\_42) = 0 TMP\_43 = 1 not(TMP\_43) = 0 TMP\_44 = 5 TMP\_45 = 0 not(TMP\_45) = 1 TMP\_46 = 0 not(TMP\_46) = 1 TMP\_47 = 0 TMP\_48 = 1 not(TMP\_48) = 0 TMP\_49 = 1 not(TMP\_49) = 0 TMP\_50 = 2 TMP\_51 = 0 not(TMP\_51) = 1 TMP\_52 = 0 not(TMP\_52) = 1 TMP\_53 = 1 not(TMP\_53) = 0 TMP\_54 = 1 not(TMP\_54) = 0 TMP\_55 = 1 not(TMP\_55) = 0 TMP\_56 = 2 TMP\_57 = 1 not(TMP\_57) = 0 TMP\_58 = 1 not(TMP\_58) = 0 TMP\_59 = 1 not(TMP\_59) = 0 TMP\_60 = 1 not(TMP\_60) = 0 TMP\_61 = 0 not(TMP\_61) = 1 TMP\_62 = 1 not(TMP\_62) = 0 TMP\_63 = 5 TMP\_64 = 0 not(TMP\_64) = 1 TMP\_65 = 0 not(TMP\_65) = 1 TMP\_66 = 0 TMP\_67 = 1 not(TMP\_67) = 0 TMP\_68 = 1 not(TMP\_68) = 0 TMP\_69 = 2 TMP\_70 = 0 not(TMP\_70) = 1 TMP\_71 = 0 not(TMP\_71) = 1 TMP\_72 = 1 not(TMP\_72) = 0 TMP\_73 = 1 not(TMP\_73) = 0 TMP\_74 = 1 not(TMP\_74) = 0 TMP\_75 = 2 TMP\_76 = 0 not(TMP\_76) = 1 TMP\_77 = 1 not(TMP\_77) = 0 TMP\_78 = 1 not(TMP\_78) = 0 TMP\_79 = 1 not(TMP\_79) = 0 TMP\_80 = 1 not(TMP\_80) = 0 TMP\_81 = 1 not(TMP\_81) = 0 TMP\_82 = 5 TMP\_83 = 0 not(TMP\_83) = 1 TMP\_84 = 0 not(TMP\_84) = 1 TMP\_85 = 0 TMP\_86 = 1 not(TMP\_86) = 0 TMP\_87 = 1 not(TMP\_87) = 0 TMP\_88 = 2 TMP\_89 = 0 not(TMP\_89) = 1 TMP\_90 = 0 not(TMP\_90) = 1 TMP\_91 = 1 not(TMP\_91) = 0 TMP\_92 = 1 not(TMP\_92) = 0 TMP\_93 = 1 not(TMP\_93) = 0 TMP\_94 = 2 TMP\_95 = 0 not(TMP\_95) = 1 TMP\_96 = 1 not(TMP\_96) = 0 TMP\_97 = 1 not(TMP\_97) = 0 TMP\_98 = 1 not(TMP\_98) = 0 TMP\_99 = 1 not(TMP\_99) = 0 TMP\_100 = 1 not(TMP\_100) = 0 TMP\_101 = 5 TMP\_102 = 0 not(TMP\_102) = 1 TMP\_103 = 0 not(TMP\_103) = 1 TMP\_104 = 0 TMP\_105 = 1 not(TMP\_105) = 0 TMP\_106 = 1 not(TMP\_106) = 0 TMP\_107 = 2 TMP\_108 = 0 not(TMP\_108) = 1 TMP\_109 = 0 not(TMP\_109) = 1 TMP\_110 = 1 not(TMP\_110) = 0 TMP\_111 = 1 not(TMP\_111) = 0 TMP\_112 = 1 not(TMP\_112) = 0 TMP\_113 = 2 TMP\_114 = 0 not(TMP\_114) = 1 TMP\_115 = 1 not(TMP\_115) = 0 TMP\_116 = 1 not(TMP\_116) = 0 TMP\_117 = 1 not(TMP\_117) = 0 TMP\_118 = 1 not(TMP\_118) = 0 TMP\_119 = 1 not(TMP\_119) = 0 TMP\_120 = 5 TMP\_121 = 0 not(TMP\_121) = 1 TMP\_122 = 0 not(TMP\_122) = 1 TMP\_123 = 0 TMP\_124 = 1 not(TMP\_124) = 0 TMP\_125 = 1 not(TMP\_125) = 0 TMP\_126 = 2 TMP\_127 = 0 not(TMP\_127) = 1 TMP\_128 = 0 not(TMP\_128) = 1 TMP\_129 = 1 not(TMP\_129) = 0 TMP\_130 = 1 not(TMP\_130) = 0 TMP\_131 = 1 not(TMP\_131) = 0 TMP\_132 = 2 TMP\_133 = 1 not(TMP\_133) = 0 TMP\_134 = 1 not(TMP\_134) = 0 TMP\_135 = 1 not(TMP\_135) = 0 TMP\_136 = 1 not(TMP\_136) = 0 TMP\_137 = 0 not(TMP\_137) = 1 TMP\_138 = 1 not(TMP\_138) = 0 TMP\_139 = 5 TMP\_140 = 0 not(TMP\_140) = 1 TMP\_141 = 0 not(TMP\_141) = 1 TMP\_142 = 0 TMP\_143 = 1 not(TMP\_143) = 0 TMP\_144 = 1 not(TMP\_144) = 0 TMP\_145 = 2 TMP\_146 = 0 not(TMP\_146) = 1 TMP\_147 = 0 not(TMP\_147) = 1 TMP\_148 = 1 not(TMP\_148) = 0 TMP\_149 = 1 not(TMP\_149) = 0 TMP\_150 = 1 not(TMP\_150) = 0 TMP\_151 = 2 TMP\_152 = 1 not(TMP\_152) = 0 TMP\_153 = 1 not(TMP\_153) = 0 TMP\_154 = 1 not(TMP\_154) = 0 TMP\_155 = 1 not(TMP\_155) = 0 TMP\_156 = 1 not(TMP\_156) = 0 TMP\_157 = 0 not(TMP\_157) = 1 TMP\_158 = 5 TMP\_159 = 0 not(TMP\_159) = 1 TMP\_160 = 0 not(TMP\_160) = 1 TMP\_161 = 0 TMP\_162 = 1 not(TMP\_162) = 0 TMP\_163 = 1 not(TMP\_163) = 0 TMP\_164 = 2 TMP\_165 = 0 not(TMP\_165) = 1 TMP\_166 = 0 not(TMP\_166) = 1 TMP\_167 = 1 not(TMP\_167) = 0 TMP\_168 = 1 not(TMP\_168) = 0 TMP\_169 = 1 not(TMP\_169) = 0 TMP\_170 = 2 TMP\_171 = 1 not(TMP\_171) = 0 TMP\_172 = 1 not(TMP\_172) = 0 TMP\_173 = 1 not(TMP\_173) = 0 TMP\_174 = 1 not(TMP\_174) = 0 TMP\_175 = 1 not(TMP\_175) = 0 TMP\_176 = 0 not(TMP\_176) = 1 TMP\_177 = 5 TMP\_178 = 0 not(TMP\_178) = 1 TMP\_179 = 0 not(TMP\_179) = 1 TMP\_180 = 0 TMP\_181 = 1 not(TMP\_181) = 0 TMP\_182 = 1 not(TMP\_182) = 0 TMP\_183 = 2 TMP\_184 = 0 not(TMP\_184) = 1 TMP\_185 = 0 not(TMP\_185) = 1 TMP\_186 = 1 not(TMP\_186) = 0 TMP\_187 = 1 not(TMP\_187) = 0 TMP\_188 = 1 not(TMP\_188) = 0 TMP\_189 = 2 TMP\_190 = 1 not(TMP\_190) = 0 TMP\_191 = 1 not(TMP\_191) = 0 TMP\_192 = 1 not(TMP\_192) = 0 TMP\_193 = 1 not(TMP\_193) = 0 TMP\_194 = 1 not(TMP\_194) = 0 TMP\_195 = 0 not(TMP\_195) = 1 TMP\_196 = 5 TMP\_197 = 0 not(TMP\_197) = 1 TMP\_198 = 0 not(TMP\_198) = 1 TMP\_199 = 0 TMP\_200 = 1 not(TMP\_200) = 0 TMP\_201 = 1 not(TMP\_201) = 0 TMP\_202 = 2 TMP\_203 = 0 not(TMP\_203) = 1 TMP\_204 = 0 not(TMP\_204) = 1 TMP\_205 = 1 not(TMP\_205) = 0 TMP\_206 = 1 not(TMP\_206) = 0 TMP\_207 = 1 not(TMP\_207) = 0 TMP\_208 = 2 TMP\_209 = 1 not(TMP\_209) = 0 TMP\_210 = 1 not(TMP\_210) = 0 TMP\_211 = 1 not(TMP\_211) = 0 TMP\_212 = 1 not(TMP\_212) = 0 TMP\_213 = 1 not(TMP\_213) = 0 TMP\_214 = 0 not(TMP\_214) = 1 TMP\_215 = 5 TMP\_216 = 0 not(TMP\_216) = 1 TMP\_217 = 0 not(TMP\_217) = 1 TMP\_218 = 0 TMP\_219 = 1 not(TMP\_219) = 0 TMP\_220 = 1 not(TMP\_220) = 0 TMP\_221 = 2 TMP\_222 = 0 not(TMP\_222) = 1 TMP\_223 = 0 not(TMP\_223) = 1 TMP\_224 = 1 not(TMP\_224) = 0 TMP\_225 = 1 not(TMP\_225) = 0 TMP\_226 = 1 not(TMP\_226) = 0 TMP\_227 = 2 Area\_0 = 60 Distance\_0\_Rule\_0 = 20 Distance\_1\_Rule\_0 = 3 Distance\_2\_Rule\_0 = 1 Area\_1 = 174 Distance\_0\_Rule\_1 = 58 Distance\_1\_Rule\_1 = 3 Distance\_2\_Rule\_1 = 1 Area\_2 = 3 -(Rule\_2\_LB) = -20 Distance\_0\_Rule\_2 = 1 -(Rule\_2\_LB) = 0 Distance\_1\_Rule\_2 = 3 -(Rule\_2\_LB) = -1 Distance\_2\_Rule\_2 = 1 Area\_3 = 123 -(Rule\_3\_LB) = -79 Distance\_0\_Rule\_3 = 41 -(Rule\_3\_LB) = 0 Distance\_1\_Rule\_3 = 3 -(Rule\_3\_LB) = -1 Distance\_2\_Rule\_3 = 1 Area\_4 = 360 -(Rule\_4\_LB) = 0 Distance\_0\_Rule\_4 = 120 -(Rule\_4\_LB) = 0 Distance\_1\_Rule\_4 = 3 -(Rule\_4\_LB) = 0 Distance\_2\_Rule\_4 = 1 TMP\_228 = 720 .

- Solution #5 found. 5 Solutions, Resolution 0.413s, 684 Nodes (1,655.8 n/s), 1332 Backtracks, 669 Fails, 0 Restarts

Rule\_2\_LB = 0 Rule\_2\_UB = 120 Rule\_2\_LB = 0 Rule\_2\_UB = 3 Rule\_2\_LB = 0 Rule\_2\_UB = 1 Rule\_3\_LB = 79 Rule\_3\_UB = 120 Rule\_3\_LB = 0 Rule\_3\_UB = 3 Rule\_3\_LB = 1 Rule\_3\_UB = 2 Rule\_4\_LB = 20 Rule\_4\_UB = 21 Rule\_4\_LB = 0 Rule\_4\_UB = 3 Rule\_4\_LB = 1 Rule\_4\_UB = 2 Overlaps\_0\_0 = 0 Overlaps\_0\_1 = 0 Overlaps\_0\_2 = 0 Overlaps\_0\_3 = 0 Overlaps\_0\_4 = 0 Overlaps\_1\_0 = 0 Overlaps\_1\_1 = 0 Overlaps\_1\_2 = 0 Overlaps\_1\_3 = 0 Overlaps\_1\_4 = 0 Overlaps\_2\_0 = 0 Overlaps\_2\_1 = 0 Overlaps\_2\_2 = 0 Overlaps\_2\_3 = 0 Overlaps\_2\_4 = 0 Overlaps\_3\_0 = 0 Overlaps\_3\_1 = 0 Overlaps\_3\_2 = 0 Overlaps\_3\_3 = 0 Overlaps\_3\_4 = 0 Overlaps\_4\_0 = 0 Overlaps\_4\_1 = 0 Overlaps\_4\_2 = 0 Overlaps\_4\_3 = 0 Overlaps\_4\_4 = 0 TMP\_0 = 1 not(TMP\_0) = 0 TMP\_1 = 1 not(TMP\_1) = 0 TMP\_2 = 1 not(TMP\_2) = 0 TMP\_3 = 1 not(TMP\_3) = 0 TMP\_4 = 1 not(TMP\_4) = 0 TMP\_5 = 0 not(TMP\_5) = 1 TMP\_6 = 5 TMP\_7 = 0 not(TMP\_7) = 1 TMP\_8 = 0 not(TMP\_8) = 1 TMP\_9 = 0 TMP\_10 = 1 not(TMP\_10) = 0 TMP\_11 = 1 not(TMP\_11) = 0 TMP\_12 = 2 TMP\_13 = 0 not(TMP\_13) = 1 TMP\_14 = 0 not(TMP\_14) = 1 TMP\_15 = 1 not(TMP\_15) = 0 TMP\_16 = 1 not(TMP\_16) = 0 TMP\_17 = 1 not(TMP\_17) = 0 TMP\_18 = 2 TMP\_19 = 1 not(TMP\_19) = 0 TMP\_20 = 1 not(TMP\_20) = 0 TMP\_21 = 1 not(TMP\_21) = 0 TMP\_22 = 1 not(TMP\_22) = 0 TMP\_23 = 1 not(TMP\_23) = 0 TMP\_24 = 0 not(TMP\_24) = 1 TMP\_25 = 5 TMP\_26 = 0 not(TMP\_26) = 1 TMP\_27 = 0 not(TMP\_27) = 1 TMP\_28 = 0 TMP\_29 = 1 not(TMP\_29) = 0 TMP\_30 = 1 not(TMP\_30) = 0 TMP\_31 = 2 TMP\_32 = 0 not(TMP\_32) = 1 TMP\_33 = 0 not(TMP\_33) = 1 TMP\_34 = 1 not(TMP\_34) = 0 TMP\_35 = 1 not(TMP\_35) = 0 TMP\_36 = 1 not(TMP\_36) = 0 TMP\_37 = 2 TMP\_38 = 1 not(TMP\_38) = 0 TMP\_39 = 1 not(TMP\_39) = 0 TMP\_40 = 1 not(TMP\_40) = 0 TMP\_41 = 1 not(TMP\_41) = 0 TMP\_42 = 1 not(TMP\_42) = 0 TMP\_43 = 0 not(TMP\_43) = 1 TMP\_44 = 5 TMP\_45 = 0 not(TMP\_45) = 1 TMP\_46 = 0 not(TMP\_46) = 1 TMP\_47 = 0 TMP\_48 = 1 not(TMP\_48) = 0 TMP\_49 = 1 not(TMP\_49) = 0 TMP\_50 = 2 TMP\_51 = 0 not(TMP\_51) = 1 TMP\_52 = 0 not(TMP\_52) = 1 TMP\_53 = 1 not(TMP\_53) = 0 TMP\_54 = 1 not(TMP\_54) = 0 TMP\_55 = 1 not(TMP\_55) = 0 TMP\_56 = 2 TMP\_57 = 1 not(TMP\_57) = 0 TMP\_58 = 1 not(TMP\_58) = 0 TMP\_59 = 1 not(TMP\_59) = 0 TMP\_60 = 1 not(TMP\_60) = 0 TMP\_61 = 1 not(TMP\_61) = 0 TMP\_62 = 0 not(TMP\_62) = 1 TMP\_63 = 5 TMP\_64 = 0 not(TMP\_64) = 1 TMP\_65 = 0 not(TMP\_65) = 1 TMP\_66 = 0 TMP\_67 = 1 not(TMP\_67) = 0 TMP\_68 = 1 not(TMP\_68) = 0 TMP\_69 = 2 TMP\_70 = 0 not(TMP\_70) = 1 TMP\_71 = 0 not(TMP\_71) = 1 TMP\_72 = 1 not(TMP\_72) = 0 TMP\_73 = 1 not(TMP\_73) = 0 TMP\_74 = 1 not(TMP\_74) = 0 TMP\_75 = 2 TMP\_76 = 0 not(TMP\_76) = 1 TMP\_77 = 1 not(TMP\_77) = 0 TMP\_78 = 1 not(TMP\_78) = 0 TMP\_79 = 1 not(TMP\_79) = 0 TMP\_80 = 1 not(TMP\_80) = 0 TMP\_81 = 1 not(TMP\_81) = 0 TMP\_82 = 5 TMP\_83 = 0 not(TMP\_83) = 1 TMP\_84 = 0 not(TMP\_84) = 1 TMP\_85 = 0 TMP\_86 = 1 not(TMP\_86) = 0 TMP\_87 = 1 not(TMP\_87) = 0 TMP\_88 = 2 TMP\_89 = 0 not(TMP\_89) = 1 TMP\_90 = 0 not(TMP\_90) = 1 TMP\_91 = 1 not(TMP\_91) = 0 TMP\_92 = 1 not(TMP\_92) = 0 TMP\_93 = 1 not(TMP\_93) = 0 TMP\_94 = 2 TMP\_95 = 0 not(TMP\_95) = 1 TMP\_96 = 1 not(TMP\_96) = 0 TMP\_97 = 1 not(TMP\_97) = 0 TMP\_98 = 1 not(TMP\_98) = 0 TMP\_99 = 1 not(TMP\_99) = 0 TMP\_100 = 1 not(TMP\_100) = 0 TMP\_101 = 5 TMP\_102 = 0 not(TMP\_102) = 1 TMP\_103 = 0 not(TMP\_103) = 1 TMP\_104 = 0 TMP\_105 = 1 not(TMP\_105) = 0 TMP\_106 = 1 not(TMP\_106) = 0 TMP\_107 = 2 TMP\_108 = 0 not(TMP\_108) = 1 TMP\_109 = 0 not(TMP\_109) = 1 TMP\_110 = 1 not(TMP\_110) = 0 TMP\_111 = 1 not(TMP\_111) = 0 TMP\_112 = 1 not(TMP\_112) = 0 TMP\_113 = 2 TMP\_114 = 1 not(TMP\_114) = 0 TMP\_115 = 1 not(TMP\_115) = 0 TMP\_116 = 1 not(TMP\_116) = 0 TMP\_117 = 1 not(TMP\_117) = 0 TMP\_118 = 0 not(TMP\_118) = 1 TMP\_119 = 1 not(TMP\_119) = 0 TMP\_120 = 5 TMP\_121 = 0 not(TMP\_121) = 1 TMP\_122 = 0 not(TMP\_122) = 1 TMP\_123 = 0 TMP\_124 = 1 not(TMP\_124) = 0 TMP\_125 = 1 not(TMP\_125) = 0 TMP\_126 = 2 TMP\_127 = 0 not(TMP\_127) = 1 TMP\_128 = 0 not(TMP\_128) = 1 TMP\_129 = 1 not(TMP\_129) = 0 TMP\_130 = 1 not(TMP\_130) = 0 TMP\_131 = 1 not(TMP\_131) = 0 TMP\_132 = 2 TMP\_133 = 0 not(TMP\_133) = 1 TMP\_134 = 1 not(TMP\_134) = 0 TMP\_135 = 1 not(TMP\_135) = 0 TMP\_136 = 1 not(TMP\_136) = 0 TMP\_137 = 1 not(TMP\_137) = 0 TMP\_138 = 1 not(TMP\_138) = 0 TMP\_139 = 5 TMP\_140 = 0 not(TMP\_140) = 1 TMP\_141 = 0 not(TMP\_141) = 1 TMP\_142 = 0 TMP\_143 = 1 not(TMP\_143) = 0 TMP\_144 = 1 not(TMP\_144) = 0 TMP\_145 = 2 TMP\_146 = 0 not(TMP\_146) = 1 TMP\_147 = 0 not(TMP\_147) = 1 TMP\_148 = 1 not(TMP\_148) = 0 TMP\_149 = 1 not(TMP\_149) = 0 TMP\_150 = 1 not(TMP\_150) = 0 TMP\_151 = 2 TMP\_152 = 0 not(TMP\_152) = 1 TMP\_153 = 1 not(TMP\_153) = 0 TMP\_154 = 1 not(TMP\_154) = 0 TMP\_155 = 1 not(TMP\_155) = 0 TMP\_156 = 1 not(TMP\_156) = 0 TMP\_157 = 1 not(TMP\_157) = 0 TMP\_158 = 5 TMP\_159 = 0 not(TMP\_159) = 1 TMP\_160 = 0 not(TMP\_160) = 1 TMP\_161 = 0 TMP\_162 = 1 not(TMP\_162) = 0 TMP\_163 = 1 not(TMP\_163) = 0 TMP\_164 = 2 TMP\_165 = 0 not(TMP\_165) = 1 TMP\_166 = 0 not(TMP\_166) = 1 TMP\_167 = 1 not(TMP\_167) = 0 TMP\_168 = 1 not(TMP\_168) = 0 TMP\_169 = 1 not(TMP\_169) = 0 TMP\_170 = 2 TMP\_171 = 1 not(TMP\_171) = 0 TMP\_172 = 0 not(TMP\_172) = 1 TMP\_173 = 1 not(TMP\_173) = 0 TMP\_174 = 1 not(TMP\_174) = 0 TMP\_175 = 1 not(TMP\_175) = 0 TMP\_176 = 1 not(TMP\_176) = 0 TMP\_177 = 5 TMP\_178 = 0 not(TMP\_178) = 1 TMP\_179 = 0 not(TMP\_179) = 1 TMP\_180 = 0 TMP\_181 = 1 not(TMP\_181) = 0 TMP\_182 = 1 not(TMP\_182) = 0 TMP\_183 = 2 TMP\_184 = 0 not(TMP\_184) = 1 TMP\_185 = 0 not(TMP\_185) = 1 TMP\_186 = 1 not(TMP\_186) = 0 TMP\_187 = 1 not(TMP\_187) = 0 TMP\_188 = 1 not(TMP\_188) = 0 TMP\_189 = 2 TMP\_190 = 1 not(TMP\_190) = 0 TMP\_191 = 1 not(TMP\_191) = 0 TMP\_192 = 1 not(TMP\_192) = 0 TMP\_193 = 1 not(TMP\_193) = 0 TMP\_194 = 0 not(TMP\_194) = 1 TMP\_195 = 1 not(TMP\_195) = 0 TMP\_196 = 5 TMP\_197 = 0 not(TMP\_197) = 1 TMP\_198 = 0 not(TMP\_198) = 1 TMP\_199 = 0 TMP\_200 = 1 not(TMP\_200) = 0 TMP\_201 = 1 not(TMP\_201) = 0 TMP\_202 = 2 TMP\_203 = 0 not(TMP\_203) = 1 TMP\_204 = 0 not(TMP\_204) = 1 TMP\_205 = 1 not(TMP\_205) = 0 TMP\_206 = 1 not(TMP\_206) = 0 TMP\_207 = 1 not(TMP\_207) = 0 TMP\_208 = 2 TMP\_209 = 1 not(TMP\_209) = 0 TMP\_210 = 0 not(TMP\_210) = 1 TMP\_211 = 1 not(TMP\_211) = 0 TMP\_212 = 1 not(TMP\_212) = 0 TMP\_213 = 1 not(TMP\_213) = 0 TMP\_214 = 1 not(TMP\_214) = 0 TMP\_215 = 5 TMP\_216 = 0 not(TMP\_216) = 1 TMP\_217 = 0 not(TMP\_217) = 1 TMP\_218 = 0 TMP\_219 = 1 not(TMP\_219) = 0 TMP\_220 = 1 not(TMP\_220) = 0 TMP\_221 = 2 TMP\_222 = 0 not(TMP\_222) = 1 TMP\_223 = 0 not(TMP\_223) = 1 TMP\_224 = 1 not(TMP\_224) = 0 TMP\_225 = 1 not(TMP\_225) = 0 TMP\_226 = 1 not(TMP\_226) = 0 TMP\_227 = 2 Area\_0 = 60 Distance\_0\_Rule\_0 = 20 Distance\_1\_Rule\_0 = 3 Distance\_2\_Rule\_0 = 1 Area\_1 = 174 Distance\_0\_Rule\_1 = 58 Distance\_1\_Rule\_1 = 3 Distance\_2\_Rule\_1 = 1 Area\_2 = 360 -(Rule\_2\_LB) = 0 Distance\_0\_Rule\_2 = 120 -(Rule\_2\_LB) = 0 Distance\_1\_Rule\_2 = 3 -(Rule\_2\_LB) = 0 Distance\_2\_Rule\_2 = 1 Area\_3 = 123 -(Rule\_3\_LB) = -79 Distance\_0\_Rule\_3 = 41 -(Rule\_3\_LB) = 0 Distance\_1\_Rule\_3 = 3 -(Rule\_3\_LB) = -1 Distance\_2\_Rule\_3 = 1 Area\_4 = 3 -(Rule\_4\_LB) = -20 Distance\_0\_Rule\_4 = 1 -(Rule\_4\_LB) = 0 Distance\_1\_Rule\_4 = 3 -(Rule\_4\_LB) = -1 Distance\_2\_Rule\_4 = 1 TMP\_228 = 720 .

- Solution #6 found. 6 Solutions, Resolution 0.417s, 685 Nodes (1,644.6 n/s), 1333 Backtracks, 669 Fails, 0 Restarts

Rule\_2\_LB = 0 Rule\_2\_UB = 120 Rule\_2\_LB = 0 Rule\_2\_UB = 3 Rule\_2\_LB = 0 Rule\_2\_UB = 1 Rule\_3\_LB = 79 Rule\_3\_UB = 120 Rule\_3\_LB = 0 Rule\_3\_UB = 3 Rule\_3\_LB = 1 Rule\_3\_UB = 2 Rule\_4\_LB = 20 Rule\_4\_UB = 21 Rule\_4\_LB = 0 Rule\_4\_UB = 3 Rule\_4\_LB = 1 Rule\_4\_UB = 2 Overlaps\_0\_0 = 0 Overlaps\_0\_1 = 1 Overlaps\_0\_2 = 0 Overlaps\_0\_3 = 0 Overlaps\_0\_4 = 0 Overlaps\_1\_0 = 0 Overlaps\_1\_1 = 0 Overlaps\_1\_2 = 0 Overlaps\_1\_3 = 0 Overlaps\_1\_4 = 0 Overlaps\_2\_0 = 0 Overlaps\_2\_1 = 0 Overlaps\_2\_2 = 0 Overlaps\_2\_3 = 0 Overlaps\_2\_4 = 0 Overlaps\_3\_0 = 0 Overlaps\_3\_1 = 0 Overlaps\_3\_2 = 0 Overlaps\_3\_3 = 0 Overlaps\_3\_4 = 0 Overlaps\_4\_0 = 0 Overlaps\_4\_1 = 0 Overlaps\_4\_2 = 0 Overlaps\_4\_3 = 0 Overlaps\_4\_4 = 0 TMP\_0 = 1 not(TMP\_0) = 0 TMP\_1 = 1 not(TMP\_1) = 0 TMP\_2 = 1 not(TMP\_2) = 0 TMP\_3 = 1 not(TMP\_3) = 0 TMP\_4 = 1 not(TMP\_4) = 0 TMP\_5 = 0 not(TMP\_5) = 1 TMP\_6 = 5 TMP\_7 = 0 not(TMP\_7) = 1 TMP\_8 = 0 not(TMP\_8) = 1 TMP\_9 = 0 TMP\_10 = 1 not(TMP\_10) = 0 TMP\_11 = 1 not(TMP\_11) = 0 TMP\_12 = 2 TMP\_13 = 0 not(TMP\_13) = 1 TMP\_14 = 0 not(TMP\_14) = 1 TMP\_15 = 1 not(TMP\_15) = 0 TMP\_16 = 1 not(TMP\_16) = 0 TMP\_17 = 1 not(TMP\_17) = 0 TMP\_18 = 2 TMP\_19 = 1 not(TMP\_19) = 0 TMP\_20 = 1 not(TMP\_20) = 0 TMP\_21 = 1 not(TMP\_21) = 0 TMP\_22 = 1 not(TMP\_22) = 0 TMP\_23 = 1 not(TMP\_23) = 0 TMP\_24 = 0 not(TMP\_24) = 1 TMP\_25 = 5 TMP\_26 = 0 not(TMP\_26) = 1 TMP\_27 = 0 not(TMP\_27) = 1 TMP\_28 = 0 TMP\_29 = 1 not(TMP\_29) = 0 TMP\_30 = 1 not(TMP\_30) = 0 TMP\_31 = 2 TMP\_32 = 0 not(TMP\_32) = 1 TMP\_33 = 0 not(TMP\_33) = 1 TMP\_34 = 1 not(TMP\_34) = 0 TMP\_35 = 1 not(TMP\_35) = 0 TMP\_36 = 1 not(TMP\_36) = 0 TMP\_37 = 2 TMP\_38 = 1 not(TMP\_38) = 0 TMP\_39 = 1 not(TMP\_39) = 0 TMP\_40 = 1 not(TMP\_40) = 0 TMP\_41 = 1 not(TMP\_41) = 0 TMP\_42 = 1 not(TMP\_42) = 0 TMP\_43 = 0 not(TMP\_43) = 1 TMP\_44 = 5 TMP\_45 = 0 not(TMP\_45) = 1 TMP\_46 = 0 not(TMP\_46) = 1 TMP\_47 = 0 TMP\_48 = 1 not(TMP\_48) = 0 TMP\_49 = 1 not(TMP\_49) = 0 TMP\_50 = 2 TMP\_51 = 0 not(TMP\_51) = 1 TMP\_52 = 0 not(TMP\_52) = 1 TMP\_53 = 1 not(TMP\_53) = 0 TMP\_54 = 1 not(TMP\_54) = 0 TMP\_55 = 1 not(TMP\_55) = 0 TMP\_56 = 2 TMP\_57 = 1 not(TMP\_57) = 0 TMP\_58 = 1 not(TMP\_58) = 0 TMP\_59 = 1 not(TMP\_59) = 0 TMP\_60 = 1 not(TMP\_60) = 0 TMP\_61 = 1 not(TMP\_61) = 0 TMP\_62 = 0 not(TMP\_62) = 1 TMP\_63 = 5 TMP\_64 = 0 not(TMP\_64) = 1 TMP\_65 = 0 not(TMP\_65) = 1 TMP\_66 = 0 TMP\_67 = 1 not(TMP\_67) = 0 TMP\_68 = 1 not(TMP\_68) = 0 TMP\_69 = 2 TMP\_70 = 0 not(TMP\_70) = 1 TMP\_71 = 0 not(TMP\_71) = 1 TMP\_72 = 1 not(TMP\_72) = 0 TMP\_73 = 1 not(TMP\_73) = 0 TMP\_74 = 1 not(TMP\_74) = 0 TMP\_75 = 2 TMP\_76 = 0 not(TMP\_76) = 1 TMP\_77 = 1 not(TMP\_77) = 0 TMP\_78 = 1 not(TMP\_78) = 0 TMP\_79 = 1 not(TMP\_79) = 0 TMP\_80 = 1 not(TMP\_80) = 0 TMP\_81 = 1 not(TMP\_81) = 0 TMP\_82 = 5 TMP\_83 = 0 not(TMP\_83) = 1 TMP\_84 = 0 not(TMP\_84) = 1 TMP\_85 = 0 TMP\_86 = 1 not(TMP\_86) = 0 TMP\_87 = 1 not(TMP\_87) = 0 TMP\_88 = 2 TMP\_89 = 0 not(TMP\_89) = 1 TMP\_90 = 0 not(TMP\_90) = 1 TMP\_91 = 1 not(TMP\_91) = 0 TMP\_92 = 1 not(TMP\_92) = 0 TMP\_93 = 1 not(TMP\_93) = 0 TMP\_94 = 2 TMP\_95 = 0 not(TMP\_95) = 1 TMP\_96 = 1 not(TMP\_96) = 0 TMP\_97 = 1 not(TMP\_97) = 0 TMP\_98 = 1 not(TMP\_98) = 0 TMP\_99 = 1 not(TMP\_99) = 0 TMP\_100 = 1 not(TMP\_100) = 0 TMP\_101 = 5 TMP\_102 = 0 not(TMP\_102) = 1 TMP\_103 = 0 not(TMP\_103) = 1 TMP\_104 = 0 TMP\_105 = 1 not(TMP\_105) = 0 TMP\_106 = 1 not(TMP\_106) = 0 TMP\_107 = 2 TMP\_108 = 0 not(TMP\_108) = 1 TMP\_109 = 0 not(TMP\_109) = 1 TMP\_110 = 1 not(TMP\_110) = 0 TMP\_111 = 1 not(TMP\_111) = 0 TMP\_112 = 1 not(TMP\_112) = 0 TMP\_113 = 2 TMP\_114 = 1 not(TMP\_114) = 0 TMP\_115 = 1 not(TMP\_115) = 0 TMP\_116 = 1 not(TMP\_116) = 0 TMP\_117 = 1 not(TMP\_117) = 0 TMP\_118 = 0 not(TMP\_118) = 1 TMP\_119 = 1 not(TMP\_119) = 0 TMP\_120 = 5 TMP\_121 = 0 not(TMP\_121) = 1 TMP\_122 = 0 not(TMP\_122) = 1 TMP\_123 = 0 TMP\_124 = 1 not(TMP\_124) = 0 TMP\_125 = 1 not(TMP\_125) = 0 TMP\_126 = 2 TMP\_127 = 0 not(TMP\_127) = 1 TMP\_128 = 0 not(TMP\_128) = 1 TMP\_129 = 1 not(TMP\_129) = 0 TMP\_130 = 1 not(TMP\_130) = 0 TMP\_131 = 1 not(TMP\_131) = 0 TMP\_132 = 2 TMP\_133 = 0 not(TMP\_133) = 1 TMP\_134 = 1 not(TMP\_134) = 0 TMP\_135 = 1 not(TMP\_135) = 0 TMP\_136 = 1 not(TMP\_136) = 0 TMP\_137 = 1 not(TMP\_137) = 0 TMP\_138 = 1 not(TMP\_138) = 0 TMP\_139 = 5 TMP\_140 = 0 not(TMP\_140) = 1 TMP\_141 = 0 not(TMP\_141) = 1 TMP\_142 = 0 TMP\_143 = 1 not(TMP\_143) = 0 TMP\_144 = 1 not(TMP\_144) = 0 TMP\_145 = 2 TMP\_146 = 0 not(TMP\_146) = 1 TMP\_147 = 0 not(TMP\_147) = 1 TMP\_148 = 1 not(TMP\_148) = 0 TMP\_149 = 1 not(TMP\_149) = 0 TMP\_150 = 1 not(TMP\_150) = 0 TMP\_151 = 2 TMP\_152 = 0 not(TMP\_152) = 1 TMP\_153 = 1 not(TMP\_153) = 0 TMP\_154 = 1 not(TMP\_154) = 0 TMP\_155 = 1 not(TMP\_155) = 0 TMP\_156 = 1 not(TMP\_156) = 0 TMP\_157 = 1 not(TMP\_157) = 0 TMP\_158 = 5 TMP\_159 = 0 not(TMP\_159) = 1 TMP\_160 = 0 not(TMP\_160) = 1 TMP\_161 = 0 TMP\_162 = 1 not(TMP\_162) = 0 TMP\_163 = 1 not(TMP\_163) = 0 TMP\_164 = 2 TMP\_165 = 0 not(TMP\_165) = 1 TMP\_166 = 0 not(TMP\_166) = 1 TMP\_167 = 1 not(TMP\_167) = 0 TMP\_168 = 1 not(TMP\_168) = 0 TMP\_169 = 1 not(TMP\_169) = 0 TMP\_170 = 2 TMP\_171 = 1 not(TMP\_171) = 0 TMP\_172 = 0 not(TMP\_172) = 1 TMP\_173 = 1 not(TMP\_173) = 0 TMP\_174 = 1 not(TMP\_174) = 0 TMP\_175 = 1 not(TMP\_175) = 0 TMP\_176 = 1 not(TMP\_176) = 0 TMP\_177 = 5 TMP\_178 = 0 not(TMP\_178) = 1 TMP\_179 = 0 not(TMP\_179) = 1 TMP\_180 = 0 TMP\_181 = 1 not(TMP\_181) = 0 TMP\_182 = 1 not(TMP\_182) = 0 TMP\_183 = 2 TMP\_184 = 0 not(TMP\_184) = 1 TMP\_185 = 0 not(TMP\_185) = 1 TMP\_186 = 1 not(TMP\_186) = 0 TMP\_187 = 1 not(TMP\_187) = 0 TMP\_188 = 1 not(TMP\_188) = 0 TMP\_189 = 2 TMP\_190 = 1 not(TMP\_190) = 0 TMP\_191 = 1 not(TMP\_191) = 0 TMP\_192 = 1 not(TMP\_192) = 0 TMP\_193 = 1 not(TMP\_193) = 0 TMP\_194 = 0 not(TMP\_194) = 1 TMP\_195 = 1 not(TMP\_195) = 0 TMP\_196 = 5 TMP\_197 = 0 not(TMP\_197) = 1 TMP\_198 = 0 not(TMP\_198) = 1 TMP\_199 = 0 TMP\_200 = 1 not(TMP\_200) = 0 TMP\_201 = 1 not(TMP\_201) = 0 TMP\_202 = 2 TMP\_203 = 0 not(TMP\_203) = 1 TMP\_204 = 0 not(TMP\_204) = 1 TMP\_205 = 1 not(TMP\_205) = 0 TMP\_206 = 1 not(TMP\_206) = 0 TMP\_207 = 1 not(TMP\_207) = 0 TMP\_208 = 2 TMP\_209 = 1 not(TMP\_209) = 0 TMP\_210 = 0 not(TMP\_210) = 1 TMP\_211 = 1 not(TMP\_211) = 0 TMP\_212 = 1 not(TMP\_212) = 0 TMP\_213 = 1 not(TMP\_213) = 0 TMP\_214 = 1 not(TMP\_214) = 0 TMP\_215 = 5 TMP\_216 = 0 not(TMP\_216) = 1 TMP\_217 = 0 not(TMP\_217) = 1 TMP\_218 = 0 TMP\_219 = 1 not(TMP\_219) = 0 TMP\_220 = 1 not(TMP\_220) = 0 TMP\_221 = 2 TMP\_222 = 0 not(TMP\_222) = 1 TMP\_223 = 0 not(TMP\_223) = 1 TMP\_224 = 1 not(TMP\_224) = 0 TMP\_225 = 1 not(TMP\_225) = 0 TMP\_226 = 1 not(TMP\_226) = 0 TMP\_227 = 2 Area\_0 = 60 Distance\_0\_Rule\_0 = 20 Distance\_1\_Rule\_0 = 3 Distance\_2\_Rule\_0 = 1 Area\_1 = 174 Distance\_0\_Rule\_1 = 58 Distance\_1\_Rule\_1 = 3 Distance\_2\_Rule\_1 = 1 Area\_2 = 360 -(Rule\_2\_LB) = 0 Distance\_0\_Rule\_2 = 120 -(Rule\_2\_LB) = 0 Distance\_1\_Rule\_2 = 3 -(Rule\_2\_LB) = 0 Distance\_2\_Rule\_2 = 1 Area\_3 = 123 -(Rule\_3\_LB) = -79 Distance\_0\_Rule\_3 = 41 -(Rule\_3\_LB) = 0 Distance\_1\_Rule\_3 = 3 -(Rule\_3\_LB) = -1 Distance\_2\_Rule\_3 = 1 Area\_4 = 3 -(Rule\_4\_LB) = -20 Distance\_0\_Rule\_4 = 1 -(Rule\_4\_LB) = 0 Distance\_1\_Rule\_4 = 3 -(Rule\_4\_LB) = -1 Distance\_2\_Rule\_4 = 1 TMP\_228 = 720 .

- Solution #7 found. 7 Solutions, Resolution 0.426s, 687 Nodes (1,611.1 n/s), 1335 Backtracks, 669 Fails, 0 Restarts

Rule\_2\_LB = 0 Rule\_2\_UB = 120 Rule\_2\_LB = 0 Rule\_2\_UB = 3 Rule\_2\_LB = 0 Rule\_2\_UB = 1 Rule\_3\_LB = 79 Rule\_3\_UB = 120 Rule\_3\_LB = 0 Rule\_3\_UB = 3 Rule\_3\_LB = 1 Rule\_3\_UB = 2 Rule\_4\_LB = 20 Rule\_4\_UB = 21 Rule\_4\_LB = 0 Rule\_4\_UB = 3 Rule\_4\_LB = 1 Rule\_4\_UB = 2 Overlaps\_0\_0 = 0 Overlaps\_0\_1 = 0 Overlaps\_0\_2 = 0 Overlaps\_0\_3 = 0 Overlaps\_0\_4 = 0 Overlaps\_1\_0 = 1 Overlaps\_1\_1 = 0 Overlaps\_1\_2 = 0 Overlaps\_1\_3 = 0 Overlaps\_1\_4 = 0 Overlaps\_2\_0 = 0 Overlaps\_2\_1 = 0 Overlaps\_2\_2 = 0 Overlaps\_2\_3 = 0 Overlaps\_2\_4 = 0 Overlaps\_3\_0 = 0 Overlaps\_3\_1 = 0 Overlaps\_3\_2 = 0 Overlaps\_3\_3 = 0 Overlaps\_3\_4 = 0 Overlaps\_4\_0 = 0 Overlaps\_4\_1 = 0 Overlaps\_4\_2 = 0 Overlaps\_4\_3 = 0 Overlaps\_4\_4 = 0 TMP\_0 = 1 not(TMP\_0) = 0 TMP\_1 = 1 not(TMP\_1) = 0 TMP\_2 = 1 not(TMP\_2) = 0 TMP\_3 = 1 not(TMP\_3) = 0 TMP\_4 = 1 not(TMP\_4) = 0 TMP\_5 = 0 not(TMP\_5) = 1 TMP\_6 = 5 TMP\_7 = 0 not(TMP\_7) = 1 TMP\_8 = 0 not(TMP\_8) = 1 TMP\_9 = 0 TMP\_10 = 1 not(TMP\_10) = 0 TMP\_11 = 1 not(TMP\_11) = 0 TMP\_12 = 2 TMP\_13 = 0 not(TMP\_13) = 1 TMP\_14 = 0 not(TMP\_14) = 1 TMP\_15 = 1 not(TMP\_15) = 0 TMP\_16 = 1 not(TMP\_16) = 0 TMP\_17 = 1 not(TMP\_17) = 0 TMP\_18 = 2 TMP\_19 = 1 not(TMP\_19) = 0 TMP\_20 = 1 not(TMP\_20) = 0 TMP\_21 = 1 not(TMP\_21) = 0 TMP\_22 = 1 not(TMP\_22) = 0 TMP\_23 = 1 not(TMP\_23) = 0 TMP\_24 = 0 not(TMP\_24) = 1 TMP\_25 = 5 TMP\_26 = 0 not(TMP\_26) = 1 TMP\_27 = 0 not(TMP\_27) = 1 TMP\_28 = 0 TMP\_29 = 1 not(TMP\_29) = 0 TMP\_30 = 1 not(TMP\_30) = 0 TMP\_31 = 2 TMP\_32 = 0 not(TMP\_32) = 1 TMP\_33 = 0 not(TMP\_33) = 1 TMP\_34 = 1 not(TMP\_34) = 0 TMP\_35 = 1 not(TMP\_35) = 0 TMP\_36 = 1 not(TMP\_36) = 0 TMP\_37 = 2 TMP\_38 = 1 not(TMP\_38) = 0 TMP\_39 = 1 not(TMP\_39) = 0 TMP\_40 = 1 not(TMP\_40) = 0 TMP\_41 = 1 not(TMP\_41) = 0 TMP\_42 = 1 not(TMP\_42) = 0 TMP\_43 = 0 not(TMP\_43) = 1 TMP\_44 = 5 TMP\_45 = 0 not(TMP\_45) = 1 TMP\_46 = 0 not(TMP\_46) = 1 TMP\_47 = 0 TMP\_48 = 1 not(TMP\_48) = 0 TMP\_49 = 1 not(TMP\_49) = 0 TMP\_50 = 2 TMP\_51 = 0 not(TMP\_51) = 1 TMP\_52 = 0 not(TMP\_52) = 1 TMP\_53 = 1 not(TMP\_53) = 0 TMP\_54 = 1 not(TMP\_54) = 0 TMP\_55 = 1 not(TMP\_55) = 0 TMP\_56 = 2 TMP\_57 = 1 not(TMP\_57) = 0 TMP\_58 = 1 not(TMP\_58) = 0 TMP\_59 = 1 not(TMP\_59) = 0 TMP\_60 = 1 not(TMP\_60) = 0 TMP\_61 = 1 not(TMP\_61) = 0 TMP\_62 = 0 not(TMP\_62) = 1 TMP\_63 = 5 TMP\_64 = 0 not(TMP\_64) = 1 TMP\_65 = 0 not(TMP\_65) = 1 TMP\_66 = 0 TMP\_67 = 1 not(TMP\_67) = 0 TMP\_68 = 1 not(TMP\_68) = 0 TMP\_69 = 2 TMP\_70 = 0 not(TMP\_70) = 1 TMP\_71 = 0 not(TMP\_71) = 1 TMP\_72 = 1 not(TMP\_72) = 0 TMP\_73 = 1 not(TMP\_73) = 0 TMP\_74 = 1 not(TMP\_74) = 0 TMP\_75 = 2 TMP\_76 = 0 not(TMP\_76) = 1 TMP\_77 = 1 not(TMP\_77) = 0 TMP\_78 = 1 not(TMP\_78) = 0 TMP\_79 = 1 not(TMP\_79) = 0 TMP\_80 = 1 not(TMP\_80) = 0 TMP\_81 = 1 not(TMP\_81) = 0 TMP\_82 = 5 TMP\_83 = 0 not(TMP\_83) = 1 TMP\_84 = 0 not(TMP\_84) = 1 TMP\_85 = 0 TMP\_86 = 1 not(TMP\_86) = 0 TMP\_87 = 1 not(TMP\_87) = 0 TMP\_88 = 2 TMP\_89 = 0 not(TMP\_89) = 1 TMP\_90 = 0 not(TMP\_90) = 1 TMP\_91 = 1 not(TMP\_91) = 0 TMP\_92 = 1 not(TMP\_92) = 0 TMP\_93 = 1 not(TMP\_93) = 0 TMP\_94 = 2 TMP\_95 = 0 not(TMP\_95) = 1 TMP\_96 = 1 not(TMP\_96) = 0 TMP\_97 = 1 not(TMP\_97) = 0 TMP\_98 = 1 not(TMP\_98) = 0 TMP\_99 = 1 not(TMP\_99) = 0 TMP\_100 = 1 not(TMP\_100) = 0 TMP\_101 = 5 TMP\_102 = 0 not(TMP\_102) = 1 TMP\_103 = 0 not(TMP\_103) = 1 TMP\_104 = 0 TMP\_105 = 1 not(TMP\_105) = 0 TMP\_106 = 1 not(TMP\_106) = 0 TMP\_107 = 2 TMP\_108 = 0 not(TMP\_108) = 1 TMP\_109 = 0 not(TMP\_109) = 1 TMP\_110 = 1 not(TMP\_110) = 0 TMP\_111 = 1 not(TMP\_111) = 0 TMP\_112 = 1 not(TMP\_112) = 0 TMP\_113 = 2 TMP\_114 = 1 not(TMP\_114) = 0 TMP\_115 = 1 not(TMP\_115) = 0 TMP\_116 = 1 not(TMP\_116) = 0 TMP\_117 = 1 not(TMP\_117) = 0 TMP\_118 = 0 not(TMP\_118) = 1 TMP\_119 = 1 not(TMP\_119) = 0 TMP\_120 = 5 TMP\_121 = 0 not(TMP\_121) = 1 TMP\_122 = 0 not(TMP\_122) = 1 TMP\_123 = 0 TMP\_124 = 1 not(TMP\_124) = 0 TMP\_125 = 1 not(TMP\_125) = 0 TMP\_126 = 2 TMP\_127 = 0 not(TMP\_127) = 1 TMP\_128 = 0 not(TMP\_128) = 1 TMP\_129 = 1 not(TMP\_129) = 0 TMP\_130 = 1 not(TMP\_130) = 0 TMP\_131 = 1 not(TMP\_131) = 0 TMP\_132 = 2 TMP\_133 = 0 not(TMP\_133) = 1 TMP\_134 = 1 not(TMP\_134) = 0 TMP\_135 = 1 not(TMP\_135) = 0 TMP\_136 = 1 not(TMP\_136) = 0 TMP\_137 = 1 not(TMP\_137) = 0 TMP\_138 = 1 not(TMP\_138) = 0 TMP\_139 = 5 TMP\_140 = 0 not(TMP\_140) = 1 TMP\_141 = 0 not(TMP\_141) = 1 TMP\_142 = 0 TMP\_143 = 1 not(TMP\_143) = 0 TMP\_144 = 1 not(TMP\_144) = 0 TMP\_145 = 2 TMP\_146 = 0 not(TMP\_146) = 1 TMP\_147 = 0 not(TMP\_147) = 1 TMP\_148 = 1 not(TMP\_148) = 0 TMP\_149 = 1 not(TMP\_149) = 0 TMP\_150 = 1 not(TMP\_150) = 0 TMP\_151 = 2 TMP\_152 = 0 not(TMP\_152) = 1 TMP\_153 = 1 not(TMP\_153) = 0 TMP\_154 = 1 not(TMP\_154) = 0 TMP\_155 = 1 not(TMP\_155) = 0 TMP\_156 = 1 not(TMP\_156) = 0 TMP\_157 = 1 not(TMP\_157) = 0 TMP\_158 = 5 TMP\_159 = 0 not(TMP\_159) = 1 TMP\_160 = 0 not(TMP\_160) = 1 TMP\_161 = 0 TMP\_162 = 1 not(TMP\_162) = 0 TMP\_163 = 1 not(TMP\_163) = 0 TMP\_164 = 2 TMP\_165 = 0 not(TMP\_165) = 1 TMP\_166 = 0 not(TMP\_166) = 1 TMP\_167 = 1 not(TMP\_167) = 0 TMP\_168 = 1 not(TMP\_168) = 0 TMP\_169 = 1 not(TMP\_169) = 0 TMP\_170 = 2 TMP\_171 = 1 not(TMP\_171) = 0 TMP\_172 = 0 not(TMP\_172) = 1 TMP\_173 = 1 not(TMP\_173) = 0 TMP\_174 = 1 not(TMP\_174) = 0 TMP\_175 = 1 not(TMP\_175) = 0 TMP\_176 = 1 not(TMP\_176) = 0 TMP\_177 = 5 TMP\_178 = 0 not(TMP\_178) = 1 TMP\_179 = 0 not(TMP\_179) = 1 TMP\_180 = 0 TMP\_181 = 1 not(TMP\_181) = 0 TMP\_182 = 1 not(TMP\_182) = 0 TMP\_183 = 2 TMP\_184 = 0 not(TMP\_184) = 1 TMP\_185 = 0 not(TMP\_185) = 1 TMP\_186 = 1 not(TMP\_186) = 0 TMP\_187 = 1 not(TMP\_187) = 0 TMP\_188 = 1 not(TMP\_188) = 0 TMP\_189 = 2 TMP\_190 = 1 not(TMP\_190) = 0 TMP\_191 = 1 not(TMP\_191) = 0 TMP\_192 = 1 not(TMP\_192) = 0 TMP\_193 = 1 not(TMP\_193) = 0 TMP\_194 = 0 not(TMP\_194) = 1 TMP\_195 = 1 not(TMP\_195) = 0 TMP\_196 = 5 TMP\_197 = 0 not(TMP\_197) = 1 TMP\_198 = 0 not(TMP\_198) = 1 TMP\_199 = 0 TMP\_200 = 1 not(TMP\_200) = 0 TMP\_201 = 1 not(TMP\_201) = 0 TMP\_202 = 2 TMP\_203 = 0 not(TMP\_203) = 1 TMP\_204 = 0 not(TMP\_204) = 1 TMP\_205 = 1 not(TMP\_205) = 0 TMP\_206 = 1 not(TMP\_206) = 0 TMP\_207 = 1 not(TMP\_207) = 0 TMP\_208 = 2 TMP\_209 = 1 not(TMP\_209) = 0 TMP\_210 = 0 not(TMP\_210) = 1 TMP\_211 = 1 not(TMP\_211) = 0 TMP\_212 = 1 not(TMP\_212) = 0 TMP\_213 = 1 not(TMP\_213) = 0 TMP\_214 = 1 not(TMP\_214) = 0 TMP\_215 = 5 TMP\_216 = 0 not(TMP\_216) = 1 TMP\_217 = 0 not(TMP\_217) = 1 TMP\_218 = 0 TMP\_219 = 1 not(TMP\_219) = 0 TMP\_220 = 1 not(TMP\_220) = 0 TMP\_221 = 2 TMP\_222 = 0 not(TMP\_222) = 1 TMP\_223 = 0 not(TMP\_223) = 1 TMP\_224 = 1 not(TMP\_224) = 0 TMP\_225 = 1 not(TMP\_225) = 0 TMP\_226 = 1 not(TMP\_226) = 0 TMP\_227 = 2 Area\_0 = 60 Distance\_0\_Rule\_0 = 20 Distance\_1\_Rule\_0 = 3 Distance\_2\_Rule\_0 = 1 Area\_1 = 174 Distance\_0\_Rule\_1 = 58 Distance\_1\_Rule\_1 = 3 Distance\_2\_Rule\_1 = 1 Area\_2 = 360 -(Rule\_2\_LB) = 0 Distance\_0\_Rule\_2 = 120 -(Rule\_2\_LB) = 0 Distance\_1\_Rule\_2 = 3 -(Rule\_2\_LB) = 0 Distance\_2\_Rule\_2 = 1 Area\_3 = 123 -(Rule\_3\_LB) = -79 Distance\_0\_Rule\_3 = 41 -(Rule\_3\_LB) = 0 Distance\_1\_Rule\_3 = 3 -(Rule\_3\_LB) = -1 Distance\_2\_Rule\_3 = 1 Area\_4 = 3 -(Rule\_4\_LB) = -20 Distance\_0\_Rule\_4 = 1 -(Rule\_4\_LB) = 0 Distance\_1\_Rule\_4 = 3 -(Rule\_4\_LB) = -1 Distance\_2\_Rule\_4 = 1 TMP\_228 = 720 .

- Solution #8 found. 8 Solutions, Resolution 0.430s, 688 Nodes (1,601.5 n/s), 1336 Backtracks, 669 Fails, 0 Restarts

Rule\_2\_LB = 0 Rule\_2\_UB = 120 Rule\_2\_LB = 0 Rule\_2\_UB = 3 Rule\_2\_LB = 0 Rule\_2\_UB = 1 Rule\_3\_LB = 79 Rule\_3\_UB = 120 Rule\_3\_LB = 0 Rule\_3\_UB = 3 Rule\_3\_LB = 1 Rule\_3\_UB = 2 Rule\_4\_LB = 20 Rule\_4\_UB = 21 Rule\_4\_LB = 0 Rule\_4\_UB = 3 Rule\_4\_LB = 1 Rule\_4\_UB = 2 Overlaps\_0\_0 = 0 Overlaps\_0\_1 = 1 Overlaps\_0\_2 = 0 Overlaps\_0\_3 = 0 Overlaps\_0\_4 = 0 Overlaps\_1\_0 = 1 Overlaps\_1\_1 = 0 Overlaps\_1\_2 = 0 Overlaps\_1\_3 = 0 Overlaps\_1\_4 = 0 Overlaps\_2\_0 = 0 Overlaps\_2\_1 = 0 Overlaps\_2\_2 = 0 Overlaps\_2\_3 = 0 Overlaps\_2\_4 = 0 Overlaps\_3\_0 = 0 Overlaps\_3\_1 = 0 Overlaps\_3\_2 = 0 Overlaps\_3\_3 = 0 Overlaps\_3\_4 = 0 Overlaps\_4\_0 = 0 Overlaps\_4\_1 = 0 Overlaps\_4\_2 = 0 Overlaps\_4\_3 = 0 Overlaps\_4\_4 = 0 TMP\_0 = 1 not(TMP\_0) = 0 TMP\_1 = 1 not(TMP\_1) = 0 TMP\_2 = 1 not(TMP\_2) = 0 TMP\_3 = 1 not(TMP\_3) = 0 TMP\_4 = 1 not(TMP\_4) = 0 TMP\_5 = 0 not(TMP\_5) = 1 TMP\_6 = 5 TMP\_7 = 0 not(TMP\_7) = 1 TMP\_8 = 0 not(TMP\_8) = 1 TMP\_9 = 0 TMP\_10 = 1 not(TMP\_10) = 0 TMP\_11 = 1 not(TMP\_11) = 0 TMP\_12 = 2 TMP\_13 = 0 not(TMP\_13) = 1 TMP\_14 = 0 not(TMP\_14) = 1 TMP\_15 = 1 not(TMP\_15) = 0 TMP\_16 = 1 not(TMP\_16) = 0 TMP\_17 = 1 not(TMP\_17) = 0 TMP\_18 = 2 TMP\_19 = 1 not(TMP\_19) = 0 TMP\_20 = 1 not(TMP\_20) = 0 TMP\_21 = 1 not(TMP\_21) = 0 TMP\_22 = 1 not(TMP\_22) = 0 TMP\_23 = 1 not(TMP\_23) = 0 TMP\_24 = 0 not(TMP\_24) = 1 TMP\_25 = 5 TMP\_26 = 0 not(TMP\_26) = 1 TMP\_27 = 0 not(TMP\_27) = 1 TMP\_28 = 0 TMP\_29 = 1 not(TMP\_29) = 0 TMP\_30 = 1 not(TMP\_30) = 0 TMP\_31 = 2 TMP\_32 = 0 not(TMP\_32) = 1 TMP\_33 = 0 not(TMP\_33) = 1 TMP\_34 = 1 not(TMP\_34) = 0 TMP\_35 = 1 not(TMP\_35) = 0 TMP\_36 = 1 not(TMP\_36) = 0 TMP\_37 = 2 TMP\_38 = 1 not(TMP\_38) = 0 TMP\_39 = 1 not(TMP\_39) = 0 TMP\_40 = 1 not(TMP\_40) = 0 TMP\_41 = 1 not(TMP\_41) = 0 TMP\_42 = 1 not(TMP\_42) = 0 TMP\_43 = 0 not(TMP\_43) = 1 TMP\_44 = 5 TMP\_45 = 0 not(TMP\_45) = 1 TMP\_46 = 0 not(TMP\_46) = 1 TMP\_47 = 0 TMP\_48 = 1 not(TMP\_48) = 0 TMP\_49 = 1 not(TMP\_49) = 0 TMP\_50 = 2 TMP\_51 = 0 not(TMP\_51) = 1 TMP\_52 = 0 not(TMP\_52) = 1 TMP\_53 = 1 not(TMP\_53) = 0 TMP\_54 = 1 not(TMP\_54) = 0 TMP\_55 = 1 not(TMP\_55) = 0 TMP\_56 = 2 TMP\_57 = 1 not(TMP\_57) = 0 TMP\_58 = 1 not(TMP\_58) = 0 TMP\_59 = 1 not(TMP\_59) = 0 TMP\_60 = 1 not(TMP\_60) = 0 TMP\_61 = 1 not(TMP\_61) = 0 TMP\_62 = 0 not(TMP\_62) = 1 TMP\_63 = 5 TMP\_64 = 0 not(TMP\_64) = 1 TMP\_65 = 0 not(TMP\_65) = 1 TMP\_66 = 0 TMP\_67 = 1 not(TMP\_67) = 0 TMP\_68 = 1 not(TMP\_68) = 0 TMP\_69 = 2 TMP\_70 = 0 not(TMP\_70) = 1 TMP\_71 = 0 not(TMP\_71) = 1 TMP\_72 = 1 not(TMP\_72) = 0 TMP\_73 = 1 not(TMP\_73) = 0 TMP\_74 = 1 not(TMP\_74) = 0 TMP\_75 = 2 TMP\_76 = 0 not(TMP\_76) = 1 TMP\_77 = 1 not(TMP\_77) = 0 TMP\_78 = 1 not(TMP\_78) = 0 TMP\_79 = 1 not(TMP\_79) = 0 TMP\_80 = 1 not(TMP\_80) = 0 TMP\_81 = 1 not(TMP\_81) = 0 TMP\_82 = 5 TMP\_83 = 0 not(TMP\_83) = 1 TMP\_84 = 0 not(TMP\_84) = 1 TMP\_85 = 0 TMP\_86 = 1 not(TMP\_86) = 0 TMP\_87 = 1 not(TMP\_87) = 0 TMP\_88 = 2 TMP\_89 = 0 not(TMP\_89) = 1 TMP\_90 = 0 not(TMP\_90) = 1 TMP\_91 = 1 not(TMP\_91) = 0 TMP\_92 = 1 not(TMP\_92) = 0 TMP\_93 = 1 not(TMP\_93) = 0 TMP\_94 = 2 TMP\_95 = 0 not(TMP\_95) = 1 TMP\_96 = 1 not(TMP\_96) = 0 TMP\_97 = 1 not(TMP\_97) = 0 TMP\_98 = 1 not(TMP\_98) = 0 TMP\_99 = 1 not(TMP\_99) = 0 TMP\_100 = 1 not(TMP\_100) = 0 TMP\_101 = 5 TMP\_102 = 0 not(TMP\_102) = 1 TMP\_103 = 0 not(TMP\_103) = 1 TMP\_104 = 0 TMP\_105 = 1 not(TMP\_105) = 0 TMP\_106 = 1 not(TMP\_106) = 0 TMP\_107 = 2 TMP\_108 = 0 not(TMP\_108) = 1 TMP\_109 = 0 not(TMP\_109) = 1 TMP\_110 = 1 not(TMP\_110) = 0 TMP\_111 = 1 not(TMP\_111) = 0 TMP\_112 = 1 not(TMP\_112) = 0 TMP\_113 = 2 TMP\_114 = 1 not(TMP\_114) = 0 TMP\_115 = 1 not(TMP\_115) = 0 TMP\_116 = 1 not(TMP\_116) = 0 TMP\_117 = 1 not(TMP\_117) = 0 TMP\_118 = 0 not(TMP\_118) = 1 TMP\_119 = 1 not(TMP\_119) = 0 TMP\_120 = 5 TMP\_121 = 0 not(TMP\_121) = 1 TMP\_122 = 0 not(TMP\_122) = 1 TMP\_123 = 0 TMP\_124 = 1 not(TMP\_124) = 0 TMP\_125 = 1 not(TMP\_125) = 0 TMP\_126 = 2 TMP\_127 = 0 not(TMP\_127) = 1 TMP\_128 = 0 not(TMP\_128) = 1 TMP\_129 = 1 not(TMP\_129) = 0 TMP\_130 = 1 not(TMP\_130) = 0 TMP\_131 = 1 not(TMP\_131) = 0 TMP\_132 = 2 TMP\_133 = 0 not(TMP\_133) = 1 TMP\_134 = 1 not(TMP\_134) = 0 TMP\_135 = 1 not(TMP\_135) = 0 TMP\_136 = 1 not(TMP\_136) = 0 TMP\_137 = 1 not(TMP\_137) = 0 TMP\_138 = 1 not(TMP\_138) = 0 TMP\_139 = 5 TMP\_140 = 0 not(TMP\_140) = 1 TMP\_141 = 0 not(TMP\_141) = 1 TMP\_142 = 0 TMP\_143 = 1 not(TMP\_143) = 0 TMP\_144 = 1 not(TMP\_144) = 0 TMP\_145 = 2 TMP\_146 = 0 not(TMP\_146) = 1 TMP\_147 = 0 not(TMP\_147) = 1 TMP\_148 = 1 not(TMP\_148) = 0 TMP\_149 = 1 not(TMP\_149) = 0 TMP\_150 = 1 not(TMP\_150) = 0 TMP\_151 = 2 TMP\_152 = 0 not(TMP\_152) = 1 TMP\_153 = 1 not(TMP\_153) = 0 TMP\_154 = 1 not(TMP\_154) = 0 TMP\_155 = 1 not(TMP\_155) = 0 TMP\_156 = 1 not(TMP\_156) = 0 TMP\_157 = 1 not(TMP\_157) = 0 TMP\_158 = 5 TMP\_159 = 0 not(TMP\_159) = 1 TMP\_160 = 0 not(TMP\_160) = 1 TMP\_161 = 0 TMP\_162 = 1 not(TMP\_162) = 0 TMP\_163 = 1 not(TMP\_163) = 0 TMP\_164 = 2 TMP\_165 = 0 not(TMP\_165) = 1 TMP\_166 = 0 not(TMP\_166) = 1 TMP\_167 = 1 not(TMP\_167) = 0 TMP\_168 = 1 not(TMP\_168) = 0 TMP\_169 = 1 not(TMP\_169) = 0 TMP\_170 = 2 TMP\_171 = 1 not(TMP\_171) = 0 TMP\_172 = 0 not(TMP\_172) = 1 TMP\_173 = 1 not(TMP\_173) = 0 TMP\_174 = 1 not(TMP\_174) = 0 TMP\_175 = 1 not(TMP\_175) = 0 TMP\_176 = 1 not(TMP\_176) = 0 TMP\_177 = 5 TMP\_178 = 0 not(TMP\_178) = 1 TMP\_179 = 0 not(TMP\_179) = 1 TMP\_180 = 0 TMP\_181 = 1 not(TMP\_181) = 0 TMP\_182 = 1 not(TMP\_182) = 0 TMP\_183 = 2 TMP\_184 = 0 not(TMP\_184) = 1 TMP\_185 = 0 not(TMP\_185) = 1 TMP\_186 = 1 not(TMP\_186) = 0 TMP\_187 = 1 not(TMP\_187) = 0 TMP\_188 = 1 not(TMP\_188) = 0 TMP\_189 = 2 TMP\_190 = 1 not(TMP\_190) = 0 TMP\_191 = 1 not(TMP\_191) = 0 TMP\_192 = 1 not(TMP\_192) = 0 TMP\_193 = 1 not(TMP\_193) = 0 TMP\_194 = 0 not(TMP\_194) = 1 TMP\_195 = 1 not(TMP\_195) = 0 TMP\_196 = 5 TMP\_197 = 0 not(TMP\_197) = 1 TMP\_198 = 0 not(TMP\_198) = 1 TMP\_199 = 0 TMP\_200 = 1 not(TMP\_200) = 0 TMP\_201 = 1 not(TMP\_201) = 0 TMP\_202 = 2 TMP\_203 = 0 not(TMP\_203) = 1 TMP\_204 = 0 not(TMP\_204) = 1 TMP\_205 = 1 not(TMP\_205) = 0 TMP\_206 = 1 not(TMP\_206) = 0 TMP\_207 = 1 not(TMP\_207) = 0 TMP\_208 = 2 TMP\_209 = 1 not(TMP\_209) = 0 TMP\_210 = 0 not(TMP\_210) = 1 TMP\_211 = 1 not(TMP\_211) = 0 TMP\_212 = 1 not(TMP\_212) = 0 TMP\_213 = 1 not(TMP\_213) = 0 TMP\_214 = 1 not(TMP\_214) = 0 TMP\_215 = 5 TMP\_216 = 0 not(TMP\_216) = 1 TMP\_217 = 0 not(TMP\_217) = 1 TMP\_218 = 0 TMP\_219 = 1 not(TMP\_219) = 0 TMP\_220 = 1 not(TMP\_220) = 0 TMP\_221 = 2 TMP\_222 = 0 not(TMP\_222) = 1 TMP\_223 = 0 not(TMP\_223) = 1 TMP\_224 = 1 not(TMP\_224) = 0 TMP\_225 = 1 not(TMP\_225) = 0 TMP\_226 = 1 not(TMP\_226) = 0 TMP\_227 = 2 Area\_0 = 60 Distance\_0\_Rule\_0 = 20 Distance\_1\_Rule\_0 = 3 Distance\_2\_Rule\_0 = 1 Area\_1 = 174 Distance\_0\_Rule\_1 = 58 Distance\_1\_Rule\_1 = 3 Distance\_2\_Rule\_1 = 1 Area\_2 = 360 -(Rule\_2\_LB) = 0 Distance\_0\_Rule\_2 = 120 -(Rule\_2\_LB) = 0 Distance\_1\_Rule\_2 = 3 -(Rule\_2\_LB) = 0 Distance\_2\_Rule\_2 = 1 Area\_3 = 123 -(Rule\_3\_LB) = -79 Distance\_0\_Rule\_3 = 41 -(Rule\_3\_LB) = 0 Distance\_1\_Rule\_3 = 3 -(Rule\_3\_LB) = -1 Distance\_2\_Rule\_3 = 1 Area\_4 = 3 -(Rule\_4\_LB) = -20 Distance\_0\_Rule\_4 = 1 -(Rule\_4\_LB) = 0 Distance\_1\_Rule\_4 = 3 -(Rule\_4\_LB) = -1 Distance\_2\_Rule\_4 = 1 TMP\_228 = 720 .

- Solution #9 found. 9 Solutions, Resolution 0.451s, 716 Nodes (1,588.8 n/s), 1393 Backtracks, 692 Fails, 0 Restarts

Rule\_2\_LB = 0 Rule\_2\_UB = 120 Rule\_2\_LB = 0 Rule\_2\_UB = 3 Rule\_2\_LB = 0 Rule\_2\_UB = 1 Rule\_3\_LB = 20 Rule\_3\_UB = 21 Rule\_3\_LB = 0 Rule\_3\_UB = 3 Rule\_3\_LB = 1 Rule\_3\_UB = 2 Rule\_4\_LB = 79 Rule\_4\_UB = 120 Rule\_4\_LB = 0 Rule\_4\_UB = 3 Rule\_4\_LB = 1 Rule\_4\_UB = 2 Overlaps\_0\_0 = 0 Overlaps\_0\_1 = 0 Overlaps\_0\_2 = 0 Overlaps\_0\_3 = 0 Overlaps\_0\_4 = 0 Overlaps\_1\_0 = 0 Overlaps\_1\_1 = 0 Overlaps\_1\_2 = 0 Overlaps\_1\_3 = 0 Overlaps\_1\_4 = 0 Overlaps\_2\_0 = 0 Overlaps\_2\_1 = 0 Overlaps\_2\_2 = 0 Overlaps\_2\_3 = 0 Overlaps\_2\_4 = 0 Overlaps\_3\_0 = 0 Overlaps\_3\_1 = 0 Overlaps\_3\_2 = 0 Overlaps\_3\_3 = 0 Overlaps\_3\_4 = 0 Overlaps\_4\_0 = 0 Overlaps\_4\_1 = 0 Overlaps\_4\_2 = 0 Overlaps\_4\_3 = 0 Overlaps\_4\_4 = 0 TMP\_0 = 1 not(TMP\_0) = 0 TMP\_1 = 1 not(TMP\_1) = 0 TMP\_2 = 1 not(TMP\_2) = 0 TMP\_3 = 1 not(TMP\_3) = 0 TMP\_4 = 1 not(TMP\_4) = 0 TMP\_5 = 0 not(TMP\_5) = 1 TMP\_6 = 5 TMP\_7 = 0 not(TMP\_7) = 1 TMP\_8 = 0 not(TMP\_8) = 1 TMP\_9 = 0 TMP\_10 = 1 not(TMP\_10) = 0 TMP\_11 = 1 not(TMP\_11) = 0 TMP\_12 = 2 TMP\_13 = 0 not(TMP\_13) = 1 TMP\_14 = 0 not(TMP\_14) = 1 TMP\_15 = 1 not(TMP\_15) = 0 TMP\_16 = 1 not(TMP\_16) = 0 TMP\_17 = 1 not(TMP\_17) = 0 TMP\_18 = 2 TMP\_19 = 1 not(TMP\_19) = 0 TMP\_20 = 1 not(TMP\_20) = 0 TMP\_21 = 1 not(TMP\_21) = 0 TMP\_22 = 1 not(TMP\_22) = 0 TMP\_23 = 1 not(TMP\_23) = 0 TMP\_24 = 0 not(TMP\_24) = 1 TMP\_25 = 5 TMP\_26 = 0 not(TMP\_26) = 1 TMP\_27 = 0 not(TMP\_27) = 1 TMP\_28 = 0 TMP\_29 = 1 not(TMP\_29) = 0 TMP\_30 = 1 not(TMP\_30) = 0 TMP\_31 = 2 TMP\_32 = 0 not(TMP\_32) = 1 TMP\_33 = 0 not(TMP\_33) = 1 TMP\_34 = 1 not(TMP\_34) = 0 TMP\_35 = 1 not(TMP\_35) = 0 TMP\_36 = 1 not(TMP\_36) = 0 TMP\_37 = 2 TMP\_38 = 1 not(TMP\_38) = 0 TMP\_39 = 1 not(TMP\_39) = 0 TMP\_40 = 1 not(TMP\_40) = 0 TMP\_41 = 1 not(TMP\_41) = 0 TMP\_42 = 1 not(TMP\_42) = 0 TMP\_43 = 0 not(TMP\_43) = 1 TMP\_44 = 5 TMP\_45 = 0 not(TMP\_45) = 1 TMP\_46 = 0 not(TMP\_46) = 1 TMP\_47 = 0 TMP\_48 = 1 not(TMP\_48) = 0 TMP\_49 = 1 not(TMP\_49) = 0 TMP\_50 = 2 TMP\_51 = 0 not(TMP\_51) = 1 TMP\_52 = 0 not(TMP\_52) = 1 TMP\_53 = 1 not(TMP\_53) = 0 TMP\_54 = 1 not(TMP\_54) = 0 TMP\_55 = 1 not(TMP\_55) = 0 TMP\_56 = 2 TMP\_57 = 1 not(TMP\_57) = 0 TMP\_58 = 1 not(TMP\_58) = 0 TMP\_59 = 1 not(TMP\_59) = 0 TMP\_60 = 1 not(TMP\_60) = 0 TMP\_61 = 1 not(TMP\_61) = 0 TMP\_62 = 0 not(TMP\_62) = 1 TMP\_63 = 5 TMP\_64 = 0 not(TMP\_64) = 1 TMP\_65 = 0 not(TMP\_65) = 1 TMP\_66 = 0 TMP\_67 = 1 not(TMP\_67) = 0 TMP\_68 = 1 not(TMP\_68) = 0 TMP\_69 = 2 TMP\_70 = 0 not(TMP\_70) = 1 TMP\_71 = 0 not(TMP\_71) = 1 TMP\_72 = 1 not(TMP\_72) = 0 TMP\_73 = 1 not(TMP\_73) = 0 TMP\_74 = 1 not(TMP\_74) = 0 TMP\_75 = 2 TMP\_76 = 0 not(TMP\_76) = 1 TMP\_77 = 1 not(TMP\_77) = 0 TMP\_78 = 1 not(TMP\_78) = 0 TMP\_79 = 1 not(TMP\_79) = 0 TMP\_80 = 1 not(TMP\_80) = 0 TMP\_81 = 1 not(TMP\_81) = 0 TMP\_82 = 5 TMP\_83 = 0 not(TMP\_83) = 1 TMP\_84 = 0 not(TMP\_84) = 1 TMP\_85 = 0 TMP\_86 = 1 not(TMP\_86) = 0 TMP\_87 = 1 not(TMP\_87) = 0 TMP\_88 = 2 TMP\_89 = 0 not(TMP\_89) = 1 TMP\_90 = 0 not(TMP\_90) = 1 TMP\_91 = 1 not(TMP\_91) = 0 TMP\_92 = 1 not(TMP\_92) = 0 TMP\_93 = 1 not(TMP\_93) = 0 TMP\_94 = 2 TMP\_95 = 1 not(TMP\_95) = 0 TMP\_96 = 0 not(TMP\_96) = 1 TMP\_97 = 1 not(TMP\_97) = 0 TMP\_98 = 1 not(TMP\_98) = 0 TMP\_99 = 1 not(TMP\_99) = 0 TMP\_100 = 1 not(TMP\_100) = 0 TMP\_101 = 5 TMP\_102 = 0 not(TMP\_102) = 1 TMP\_103 = 0 not(TMP\_103) = 1 TMP\_104 = 0 TMP\_105 = 1 not(TMP\_105) = 0 TMP\_106 = 1 not(TMP\_106) = 0 TMP\_107 = 2 TMP\_108 = 0 not(TMP\_108) = 1 TMP\_109 = 0 not(TMP\_109) = 1 TMP\_110 = 1 not(TMP\_110) = 0 TMP\_111 = 1 not(TMP\_111) = 0 TMP\_112 = 1 not(TMP\_112) = 0 TMP\_113 = 2 TMP\_114 = 1 not(TMP\_114) = 0 TMP\_115 = 1 not(TMP\_115) = 0 TMP\_116 = 1 not(TMP\_116) = 0 TMP\_117 = 1 not(TMP\_117) = 0 TMP\_118 = 0 not(TMP\_118) = 1 TMP\_119 = 1 not(TMP\_119) = 0 TMP\_120 = 5 TMP\_121 = 0 not(TMP\_121) = 1 TMP\_122 = 0 not(TMP\_122) = 1 TMP\_123 = 0 TMP\_124 = 1 not(TMP\_124) = 0 TMP\_125 = 1 not(TMP\_125) = 0 TMP\_126 = 2 TMP\_127 = 0 not(TMP\_127) = 1 TMP\_128 = 0 not(TMP\_128) = 1 TMP\_129 = 1 not(TMP\_129) = 0 TMP\_130 = 1 not(TMP\_130) = 0 TMP\_131 = 1 not(TMP\_131) = 0 TMP\_132 = 2 TMP\_133 = 1 not(TMP\_133) = 0 TMP\_134 = 0 not(TMP\_134) = 1 TMP\_135 = 1 not(TMP\_135) = 0 TMP\_136 = 1 not(TMP\_136) = 0 TMP\_137 = 1 not(TMP\_137) = 0 TMP\_138 = 1 not(TMP\_138) = 0 TMP\_139 = 5 TMP\_140 = 0 not(TMP\_140) = 1 TMP\_141 = 0 not(TMP\_141) = 1 TMP\_142 = 0 TMP\_143 = 1 not(TMP\_143) = 0 TMP\_144 = 1 not(TMP\_144) = 0 TMP\_145 = 2 TMP\_146 = 0 not(TMP\_146) = 1 TMP\_147 = 0 not(TMP\_147) = 1 TMP\_148 = 1 not(TMP\_148) = 0 TMP\_149 = 1 not(TMP\_149) = 0 TMP\_150 = 1 not(TMP\_150) = 0 TMP\_151 = 2 TMP\_152 = 0 not(TMP\_152) = 1 TMP\_153 = 1 not(TMP\_153) = 0 TMP\_154 = 1 not(TMP\_154) = 0 TMP\_155 = 1 not(TMP\_155) = 0 TMP\_156 = 1 not(TMP\_156) = 0 TMP\_157 = 1 not(TMP\_157) = 0 TMP\_158 = 5 TMP\_159 = 0 not(TMP\_159) = 1 TMP\_160 = 0 not(TMP\_160) = 1 TMP\_161 = 0 TMP\_162 = 1 not(TMP\_162) = 0 TMP\_163 = 1 not(TMP\_163) = 0 TMP\_164 = 2 TMP\_165 = 0 not(TMP\_165) = 1 TMP\_166 = 0 not(TMP\_166) = 1 TMP\_167 = 1 not(TMP\_167) = 0 TMP\_168 = 1 not(TMP\_168) = 0 TMP\_169 = 1 not(TMP\_169) = 0 TMP\_170 = 2 TMP\_171 = 0 not(TMP\_171) = 1 TMP\_172 = 1 not(TMP\_172) = 0 TMP\_173 = 1 not(TMP\_173) = 0 TMP\_174 = 1 not(TMP\_174) = 0 TMP\_175 = 1 not(TMP\_175) = 0 TMP\_176 = 1 not(TMP\_176) = 0 TMP\_177 = 5 TMP\_178 = 0 not(TMP\_178) = 1 TMP\_179 = 0 not(TMP\_179) = 1 TMP\_180 = 0 TMP\_181 = 1 not(TMP\_181) = 0 TMP\_182 = 1 not(TMP\_182) = 0 TMP\_183 = 2 TMP\_184 = 0 not(TMP\_184) = 1 TMP\_185 = 0 not(TMP\_185) = 1 TMP\_186 = 1 not(TMP\_186) = 0 TMP\_187 = 1 not(TMP\_187) = 0 TMP\_188 = 1 not(TMP\_188) = 0 TMP\_189 = 2 TMP\_190 = 1 not(TMP\_190) = 0 TMP\_191 = 1 not(TMP\_191) = 0 TMP\_192 = 1 not(TMP\_192) = 0 TMP\_193 = 1 not(TMP\_193) = 0 TMP\_194 = 0 not(TMP\_194) = 1 TMP\_195 = 1 not(TMP\_195) = 0 TMP\_196 = 5 TMP\_197 = 0 not(TMP\_197) = 1 TMP\_198 = 0 not(TMP\_198) = 1 TMP\_199 = 0 TMP\_200 = 1 not(TMP\_200) = 0 TMP\_201 = 1 not(TMP\_201) = 0 TMP\_202 = 2 TMP\_203 = 0 not(TMP\_203) = 1 TMP\_204 = 0 not(TMP\_204) = 1 TMP\_205 = 1 not(TMP\_205) = 0 TMP\_206 = 1 not(TMP\_206) = 0 TMP\_207 = 1 not(TMP\_207) = 0 TMP\_208 = 2 TMP\_209 = 0 not(TMP\_209) = 1 TMP\_210 = 1 not(TMP\_210) = 0 TMP\_211 = 1 not(TMP\_211) = 0 TMP\_212 = 1 not(TMP\_212) = 0 TMP\_213 = 1 not(TMP\_213) = 0 TMP\_214 = 1 not(TMP\_214) = 0 TMP\_215 = 5 TMP\_216 = 0 not(TMP\_216) = 1 TMP\_217 = 0 not(TMP\_217) = 1 TMP\_218 = 0 TMP\_219 = 1 not(TMP\_219) = 0 TMP\_220 = 1 not(TMP\_220) = 0 TMP\_221 = 2 TMP\_222 = 0 not(TMP\_222) = 1 TMP\_223 = 0 not(TMP\_223) = 1 TMP\_224 = 1 not(TMP\_224) = 0 TMP\_225 = 1 not(TMP\_225) = 0 TMP\_226 = 1 not(TMP\_226) = 0 TMP\_227 = 2 Area\_0 = 60 Distance\_0\_Rule\_0 = 20 Distance\_1\_Rule\_0 = 3 Distance\_2\_Rule\_0 = 1 Area\_1 = 174 Distance\_0\_Rule\_1 = 58 Distance\_1\_Rule\_1 = 3 Distance\_2\_Rule\_1 = 1 Area\_2 = 360 -(Rule\_2\_LB) = 0 Distance\_0\_Rule\_2 = 120 -(Rule\_2\_LB) = 0 Distance\_1\_Rule\_2 = 3 -(Rule\_2\_LB) = 0 Distance\_2\_Rule\_2 = 1 Area\_3 = 3 -(Rule\_3\_LB) = -20 Distance\_0\_Rule\_3 = 1 -(Rule\_3\_LB) = 0 Distance\_1\_Rule\_3 = 3 -(Rule\_3\_LB) = -1 Distance\_2\_Rule\_3 = 1 Area\_4 = 123 -(Rule\_4\_LB) = -79 Distance\_0\_Rule\_4 = 41 -(Rule\_4\_LB) = 0 Distance\_1\_Rule\_4 = 3 -(Rule\_4\_LB) = -1 Distance\_2\_Rule\_4 = 1 TMP\_228 = 720 .

- Solution #10 found. 10 Solutions, Resolution 0.455s, 717 Nodes (1,574.2 n/s), 1394 Backtracks, 692 Fails, 0 Restarts

Rule\_2\_LB = 0 Rule\_2\_UB = 120 Rule\_2\_LB = 0 Rule\_2\_UB = 3 Rule\_2\_LB = 0 Rule\_2\_UB = 1 Rule\_3\_LB = 20 Rule\_3\_UB = 21 Rule\_3\_LB = 0 Rule\_3\_UB = 3 Rule\_3\_LB = 1 Rule\_3\_UB = 2 Rule\_4\_LB = 79 Rule\_4\_UB = 120 Rule\_4\_LB = 0 Rule\_4\_UB = 3 Rule\_4\_LB = 1 Rule\_4\_UB = 2 Overlaps\_0\_0 = 0 Overlaps\_0\_1 = 1 Overlaps\_0\_2 = 0 Overlaps\_0\_3 = 0 Overlaps\_0\_4 = 0 Overlaps\_1\_0 = 0 Overlaps\_1\_1 = 0 Overlaps\_1\_2 = 0 Overlaps\_1\_3 = 0 Overlaps\_1\_4 = 0 Overlaps\_2\_0 = 0 Overlaps\_2\_1 = 0 Overlaps\_2\_2 = 0 Overlaps\_2\_3 = 0 Overlaps\_2\_4 = 0 Overlaps\_3\_0 = 0 Overlaps\_3\_1 = 0 Overlaps\_3\_2 = 0 Overlaps\_3\_3 = 0 Overlaps\_3\_4 = 0 Overlaps\_4\_0 = 0 Overlaps\_4\_1 = 0 Overlaps\_4\_2 = 0 Overlaps\_4\_3 = 0 Overlaps\_4\_4 = 0 TMP\_0 = 1 not(TMP\_0) = 0 TMP\_1 = 1 not(TMP\_1) = 0 TMP\_2 = 1 not(TMP\_2) = 0 TMP\_3 = 1 not(TMP\_3) = 0 TMP\_4 = 1 not(TMP\_4) = 0 TMP\_5 = 0 not(TMP\_5) = 1 TMP\_6 = 5 TMP\_7 = 0 not(TMP\_7) = 1 TMP\_8 = 0 not(TMP\_8) = 1 TMP\_9 = 0 TMP\_10 = 1 not(TMP\_10) = 0 TMP\_11 = 1 not(TMP\_11) = 0 TMP\_12 = 2 TMP\_13 = 0 not(TMP\_13) = 1 TMP\_14 = 0 not(TMP\_14) = 1 TMP\_15 = 1 not(TMP\_15) = 0 TMP\_16 = 1 not(TMP\_16) = 0 TMP\_17 = 1 not(TMP\_17) = 0 TMP\_18 = 2 TMP\_19 = 1 not(TMP\_19) = 0 TMP\_20 = 1 not(TMP\_20) = 0 TMP\_21 = 1 not(TMP\_21) = 0 TMP\_22 = 1 not(TMP\_22) = 0 TMP\_23 = 1 not(TMP\_23) = 0 TMP\_24 = 0 not(TMP\_24) = 1 TMP\_25 = 5 TMP\_26 = 0 not(TMP\_26) = 1 TMP\_27 = 0 not(TMP\_27) = 1 TMP\_28 = 0 TMP\_29 = 1 not(TMP\_29) = 0 TMP\_30 = 1 not(TMP\_30) = 0 TMP\_31 = 2 TMP\_32 = 0 not(TMP\_32) = 1 TMP\_33 = 0 not(TMP\_33) = 1 TMP\_34 = 1 not(TMP\_34) = 0 TMP\_35 = 1 not(TMP\_35) = 0 TMP\_36 = 1 not(TMP\_36) = 0 TMP\_37 = 2 TMP\_38 = 1 not(TMP\_38) = 0 TMP\_39 = 1 not(TMP\_39) = 0 TMP\_40 = 1 not(TMP\_40) = 0 TMP\_41 = 1 not(TMP\_41) = 0 TMP\_42 = 1 not(TMP\_42) = 0 TMP\_43 = 0 not(TMP\_43) = 1 TMP\_44 = 5 TMP\_45 = 0 not(TMP\_45) = 1 TMP\_46 = 0 not(TMP\_46) = 1 TMP\_47 = 0 TMP\_48 = 1 not(TMP\_48) = 0 TMP\_49 = 1 not(TMP\_49) = 0 TMP\_50 = 2 TMP\_51 = 0 not(TMP\_51) = 1 TMP\_52 = 0 not(TMP\_52) = 1 TMP\_53 = 1 not(TMP\_53) = 0 TMP\_54 = 1 not(TMP\_54) = 0 TMP\_55 = 1 not(TMP\_55) = 0 TMP\_56 = 2 TMP\_57 = 1 not(TMP\_57) = 0 TMP\_58 = 1 not(TMP\_58) = 0 TMP\_59 = 1 not(TMP\_59) = 0 TMP\_60 = 1 not(TMP\_60) = 0 TMP\_61 = 1 not(TMP\_61) = 0 TMP\_62 = 0 not(TMP\_62) = 1 TMP\_63 = 5 TMP\_64 = 0 not(TMP\_64) = 1 TMP\_65 = 0 not(TMP\_65) = 1 TMP\_66 = 0 TMP\_67 = 1 not(TMP\_67) = 0 TMP\_68 = 1 not(TMP\_68) = 0 TMP\_69 = 2 TMP\_70 = 0 not(TMP\_70) = 1 TMP\_71 = 0 not(TMP\_71) = 1 TMP\_72 = 1 not(TMP\_72) = 0 TMP\_73 = 1 not(TMP\_73) = 0 TMP\_74 = 1 not(TMP\_74) = 0 TMP\_75 = 2 TMP\_76 = 0 not(TMP\_76) = 1 TMP\_77 = 1 not(TMP\_77) = 0 TMP\_78 = 1 not(TMP\_78) = 0 TMP\_79 = 1 not(TMP\_79) = 0 TMP\_80 = 1 not(TMP\_80) = 0 TMP\_81 = 1 not(TMP\_81) = 0 TMP\_82 = 5 TMP\_83 = 0 not(TMP\_83) = 1 TMP\_84 = 0 not(TMP\_84) = 1 TMP\_85 = 0 TMP\_86 = 1 not(TMP\_86) = 0 TMP\_87 = 1 not(TMP\_87) = 0 TMP\_88 = 2 TMP\_89 = 0 not(TMP\_89) = 1 TMP\_90 = 0 not(TMP\_90) = 1 TMP\_91 = 1 not(TMP\_91) = 0 TMP\_92 = 1 not(TMP\_92) = 0 TMP\_93 = 1 not(TMP\_93) = 0 TMP\_94 = 2 TMP\_95 = 1 not(TMP\_95) = 0 TMP\_96 = 0 not(TMP\_96) = 1 TMP\_97 = 1 not(TMP\_97) = 0 TMP\_98 = 1 not(TMP\_98) = 0 TMP\_99 = 1 not(TMP\_99) = 0 TMP\_100 = 1 not(TMP\_100) = 0 TMP\_101 = 5 TMP\_102 = 0 not(TMP\_102) = 1 TMP\_103 = 0 not(TMP\_103) = 1 TMP\_104 = 0 TMP\_105 = 1 not(TMP\_105) = 0 TMP\_106 = 1 not(TMP\_106) = 0 TMP\_107 = 2 TMP\_108 = 0 not(TMP\_108) = 1 TMP\_109 = 0 not(TMP\_109) = 1 TMP\_110 = 1 not(TMP\_110) = 0 TMP\_111 = 1 not(TMP\_111) = 0 TMP\_112 = 1 not(TMP\_112) = 0 TMP\_113 = 2 TMP\_114 = 1 not(TMP\_114) = 0 TMP\_115 = 1 not(TMP\_115) = 0 TMP\_116 = 1 not(TMP\_116) = 0 TMP\_117 = 1 not(TMP\_117) = 0 TMP\_118 = 0 not(TMP\_118) = 1 TMP\_119 = 1 not(TMP\_119) = 0 TMP\_120 = 5 TMP\_121 = 0 not(TMP\_121) = 1 TMP\_122 = 0 not(TMP\_122) = 1 TMP\_123 = 0 TMP\_124 = 1 not(TMP\_124) = 0 TMP\_125 = 1 not(TMP\_125) = 0 TMP\_126 = 2 TMP\_127 = 0 not(TMP\_127) = 1 TMP\_128 = 0 not(TMP\_128) = 1 TMP\_129 = 1 not(TMP\_129) = 0 TMP\_130 = 1 not(TMP\_130) = 0 TMP\_131 = 1 not(TMP\_131) = 0 TMP\_132 = 2 TMP\_133 = 1 not(TMP\_133) = 0 TMP\_134 = 0 not(TMP\_134) = 1 TMP\_135 = 1 not(TMP\_135) = 0 TMP\_136 = 1 not(TMP\_136) = 0 TMP\_137 = 1 not(TMP\_137) = 0 TMP\_138 = 1 not(TMP\_138) = 0 TMP\_139 = 5 TMP\_140 = 0 not(TMP\_140) = 1 TMP\_141 = 0 not(TMP\_141) = 1 TMP\_142 = 0 TMP\_143 = 1 not(TMP\_143) = 0 TMP\_144 = 1 not(TMP\_144) = 0 TMP\_145 = 2 TMP\_146 = 0 not(TMP\_146) = 1 TMP\_147 = 0 not(TMP\_147) = 1 TMP\_148 = 1 not(TMP\_148) = 0 TMP\_149 = 1 not(TMP\_149) = 0 TMP\_150 = 1 not(TMP\_150) = 0 TMP\_151 = 2 TMP\_152 = 0 not(TMP\_152) = 1 TMP\_153 = 1 not(TMP\_153) = 0 TMP\_154 = 1 not(TMP\_154) = 0 TMP\_155 = 1 not(TMP\_155) = 0 TMP\_156 = 1 not(TMP\_156) = 0 TMP\_157 = 1 not(TMP\_157) = 0 TMP\_158 = 5 TMP\_159 = 0 not(TMP\_159) = 1 TMP\_160 = 0 not(TMP\_160) = 1 TMP\_161 = 0 TMP\_162 = 1 not(TMP\_162) = 0 TMP\_163 = 1 not(TMP\_163) = 0 TMP\_164 = 2 TMP\_165 = 0 not(TMP\_165) = 1 TMP\_166 = 0 not(TMP\_166) = 1 TMP\_167 = 1 not(TMP\_167) = 0 TMP\_168 = 1 not(TMP\_168) = 0 TMP\_169 = 1 not(TMP\_169) = 0 TMP\_170 = 2 TMP\_171 = 0 not(TMP\_171) = 1 TMP\_172 = 1 not(TMP\_172) = 0 TMP\_173 = 1 not(TMP\_173) = 0 TMP\_174 = 1 not(TMP\_174) = 0 TMP\_175 = 1 not(TMP\_175) = 0 TMP\_176 = 1 not(TMP\_176) = 0 TMP\_177 = 5 TMP\_178 = 0 not(TMP\_178) = 1 TMP\_179 = 0 not(TMP\_179) = 1 TMP\_180 = 0 TMP\_181 = 1 not(TMP\_181) = 0 TMP\_182 = 1 not(TMP\_182) = 0 TMP\_183 = 2 TMP\_184 = 0 not(TMP\_184) = 1 TMP\_185 = 0 not(TMP\_185) = 1 TMP\_186 = 1 not(TMP\_186) = 0 TMP\_187 = 1 not(TMP\_187) = 0 TMP\_188 = 1 not(TMP\_188) = 0 TMP\_189 = 2 TMP\_190 = 1 not(TMP\_190) = 0 TMP\_191 = 1 not(TMP\_191) = 0 TMP\_192 = 1 not(TMP\_192) = 0 TMP\_193 = 1 not(TMP\_193) = 0 TMP\_194 = 0 not(TMP\_194) = 1 TMP\_195 = 1 not(TMP\_195) = 0 TMP\_196 = 5 TMP\_197 = 0 not(TMP\_197) = 1 TMP\_198 = 0 not(TMP\_198) = 1 TMP\_199 = 0 TMP\_200 = 1 not(TMP\_200) = 0 TMP\_201 = 1 not(TMP\_201) = 0 TMP\_202 = 2 TMP\_203 = 0 not(TMP\_203) = 1 TMP\_204 = 0 not(TMP\_204) = 1 TMP\_205 = 1 not(TMP\_205) = 0 TMP\_206 = 1 not(TMP\_206) = 0 TMP\_207 = 1 not(TMP\_207) = 0 TMP\_208 = 2 TMP\_209 = 0 not(TMP\_209) = 1 TMP\_210 = 1 not(TMP\_210) = 0 TMP\_211 = 1 not(TMP\_211) = 0 TMP\_212 = 1 not(TMP\_212) = 0 TMP\_213 = 1 not(TMP\_213) = 0 TMP\_214 = 1 not(TMP\_214) = 0 TMP\_215 = 5 TMP\_216 = 0 not(TMP\_216) = 1 TMP\_217 = 0 not(TMP\_217) = 1 TMP\_218 = 0 TMP\_219 = 1 not(TMP\_219) = 0 TMP\_220 = 1 not(TMP\_220) = 0 TMP\_221 = 2 TMP\_222 = 0 not(TMP\_222) = 1 TMP\_223 = 0 not(TMP\_223) = 1 TMP\_224 = 1 not(TMP\_224) = 0 TMP\_225 = 1 not(TMP\_225) = 0 TMP\_226 = 1 not(TMP\_226) = 0 TMP\_227 = 2 Area\_0 = 60 Distance\_0\_Rule\_0 = 20 Distance\_1\_Rule\_0 = 3 Distance\_2\_Rule\_0 = 1 Area\_1 = 174 Distance\_0\_Rule\_1 = 58 Distance\_1\_Rule\_1 = 3 Distance\_2\_Rule\_1 = 1 Area\_2 = 360 -(Rule\_2\_LB) = 0 Distance\_0\_Rule\_2 = 120 -(Rule\_2\_LB) = 0 Distance\_1\_Rule\_2 = 3 -(Rule\_2\_LB) = 0 Distance\_2\_Rule\_2 = 1 Area\_3 = 3 -(Rule\_3\_LB) = -20 Distance\_0\_Rule\_3 = 1 -(Rule\_3\_LB) = 0 Distance\_1\_Rule\_3 = 3 -(Rule\_3\_LB) = -1 Distance\_2\_Rule\_3 = 1 Area\_4 = 123 -(Rule\_4\_LB) = -79 Distance\_0\_Rule\_4 = 41 -(Rule\_4\_LB) = 0 Distance\_1\_Rule\_4 = 3 -(Rule\_4\_LB) = -1 Distance\_2\_Rule\_4 = 1 TMP\_228 = 720 .

- Solution #11 found. 11 Solutions, Resolution 0.462s, 719 Nodes (1,556.3 n/s), 1396 Backtracks, 692 Fails, 0 Restarts

Rule\_2\_LB = 0 Rule\_2\_UB = 120 Rule\_2\_LB = 0 Rule\_2\_UB = 3 Rule\_2\_LB = 0 Rule\_2\_UB = 1 Rule\_3\_LB = 20 Rule\_3\_UB = 21 Rule\_3\_LB = 0 Rule\_3\_UB = 3 Rule\_3\_LB = 1 Rule\_3\_UB = 2 Rule\_4\_LB = 79 Rule\_4\_UB = 120 Rule\_4\_LB = 0 Rule\_4\_UB = 3 Rule\_4\_LB = 1 Rule\_4\_UB = 2 Overlaps\_0\_0 = 0 Overlaps\_0\_1 = 0 Overlaps\_0\_2 = 0 Overlaps\_0\_3 = 0 Overlaps\_0\_4 = 0 Overlaps\_1\_0 = 1 Overlaps\_1\_1 = 0 Overlaps\_1\_2 = 0 Overlaps\_1\_3 = 0 Overlaps\_1\_4 = 0 Overlaps\_2\_0 = 0 Overlaps\_2\_1 = 0 Overlaps\_2\_2 = 0 Overlaps\_2\_3 = 0 Overlaps\_2\_4 = 0 Overlaps\_3\_0 = 0 Overlaps\_3\_1 = 0 Overlaps\_3\_2 = 0 Overlaps\_3\_3 = 0 Overlaps\_3\_4 = 0 Overlaps\_4\_0 = 0 Overlaps\_4\_1 = 0 Overlaps\_4\_2 = 0 Overlaps\_4\_3 = 0 Overlaps\_4\_4 = 0 TMP\_0 = 1 not(TMP\_0) = 0 TMP\_1 = 1 not(TMP\_1) = 0 TMP\_2 = 1 not(TMP\_2) = 0 TMP\_3 = 1 not(TMP\_3) = 0 TMP\_4 = 1 not(TMP\_4) = 0 TMP\_5 = 0 not(TMP\_5) = 1 TMP\_6 = 5 TMP\_7 = 0 not(TMP\_7) = 1 TMP\_8 = 0 not(TMP\_8) = 1 TMP\_9 = 0 TMP\_10 = 1 not(TMP\_10) = 0 TMP\_11 = 1 not(TMP\_11) = 0 TMP\_12 = 2 TMP\_13 = 0 not(TMP\_13) = 1 TMP\_14 = 0 not(TMP\_14) = 1 TMP\_15 = 1 not(TMP\_15) = 0 TMP\_16 = 1 not(TMP\_16) = 0 TMP\_17 = 1 not(TMP\_17) = 0 TMP\_18 = 2 TMP\_19 = 1 not(TMP\_19) = 0 TMP\_20 = 1 not(TMP\_20) = 0 TMP\_21 = 1 not(TMP\_21) = 0 TMP\_22 = 1 not(TMP\_22) = 0 TMP\_23 = 1 not(TMP\_23) = 0 TMP\_24 = 0 not(TMP\_24) = 1 TMP\_25 = 5 TMP\_26 = 0 not(TMP\_26) = 1 TMP\_27 = 0 not(TMP\_27) = 1 TMP\_28 = 0 TMP\_29 = 1 not(TMP\_29) = 0 TMP\_30 = 1 not(TMP\_30) = 0 TMP\_31 = 2 TMP\_32 = 0 not(TMP\_32) = 1 TMP\_33 = 0 not(TMP\_33) = 1 TMP\_34 = 1 not(TMP\_34) = 0 TMP\_35 = 1 not(TMP\_35) = 0 TMP\_36 = 1 not(TMP\_36) = 0 TMP\_37 = 2 TMP\_38 = 1 not(TMP\_38) = 0 TMP\_39 = 1 not(TMP\_39) = 0 TMP\_40 = 1 not(TMP\_40) = 0 TMP\_41 = 1 not(TMP\_41) = 0 TMP\_42 = 1 not(TMP\_42) = 0 TMP\_43 = 0 not(TMP\_43) = 1 TMP\_44 = 5 TMP\_45 = 0 not(TMP\_45) = 1 TMP\_46 = 0 not(TMP\_46) = 1 TMP\_47 = 0 TMP\_48 = 1 not(TMP\_48) = 0 TMP\_49 = 1 not(TMP\_49) = 0 TMP\_50 = 2 TMP\_51 = 0 not(TMP\_51) = 1 TMP\_52 = 0 not(TMP\_52) = 1 TMP\_53 = 1 not(TMP\_53) = 0 TMP\_54 = 1 not(TMP\_54) = 0 TMP\_55 = 1 not(TMP\_55) = 0 TMP\_56 = 2 TMP\_57 = 1 not(TMP\_57) = 0 TMP\_58 = 1 not(TMP\_58) = 0 TMP\_59 = 1 not(TMP\_59) = 0 TMP\_60 = 1 not(TMP\_60) = 0 TMP\_61 = 1 not(TMP\_61) = 0 TMP\_62 = 0 not(TMP\_62) = 1 TMP\_63 = 5 TMP\_64 = 0 not(TMP\_64) = 1 TMP\_65 = 0 not(TMP\_65) = 1 TMP\_66 = 0 TMP\_67 = 1 not(TMP\_67) = 0 TMP\_68 = 1 not(TMP\_68) = 0 TMP\_69 = 2 TMP\_70 = 0 not(TMP\_70) = 1 TMP\_71 = 0 not(TMP\_71) = 1 TMP\_72 = 1 not(TMP\_72) = 0 TMP\_73 = 1 not(TMP\_73) = 0 TMP\_74 = 1 not(TMP\_74) = 0 TMP\_75 = 2 TMP\_76 = 0 not(TMP\_76) = 1 TMP\_77 = 1 not(TMP\_77) = 0 TMP\_78 = 1 not(TMP\_78) = 0 TMP\_79 = 1 not(TMP\_79) = 0 TMP\_80 = 1 not(TMP\_80) = 0 TMP\_81 = 1 not(TMP\_81) = 0 TMP\_82 = 5 TMP\_83 = 0 not(TMP\_83) = 1 TMP\_84 = 0 not(TMP\_84) = 1 TMP\_85 = 0 TMP\_86 = 1 not(TMP\_86) = 0 TMP\_87 = 1 not(TMP\_87) = 0 TMP\_88 = 2 TMP\_89 = 0 not(TMP\_89) = 1 TMP\_90 = 0 not(TMP\_90) = 1 TMP\_91 = 1 not(TMP\_91) = 0 TMP\_92 = 1 not(TMP\_92) = 0 TMP\_93 = 1 not(TMP\_93) = 0 TMP\_94 = 2 TMP\_95 = 1 not(TMP\_95) = 0 TMP\_96 = 0 not(TMP\_96) = 1 TMP\_97 = 1 not(TMP\_97) = 0 TMP\_98 = 1 not(TMP\_98) = 0 TMP\_99 = 1 not(TMP\_99) = 0 TMP\_100 = 1 not(TMP\_100) = 0 TMP\_101 = 5 TMP\_102 = 0 not(TMP\_102) = 1 TMP\_103 = 0 not(TMP\_103) = 1 TMP\_104 = 0 TMP\_105 = 1 not(TMP\_105) = 0 TMP\_106 = 1 not(TMP\_106) = 0 TMP\_107 = 2 TMP\_108 = 0 not(TMP\_108) = 1 TMP\_109 = 0 not(TMP\_109) = 1 TMP\_110 = 1 not(TMP\_110) = 0 TMP\_111 = 1 not(TMP\_111) = 0 TMP\_112 = 1 not(TMP\_112) = 0 TMP\_113 = 2 TMP\_114 = 1 not(TMP\_114) = 0 TMP\_115 = 1 not(TMP\_115) = 0 TMP\_116 = 1 not(TMP\_116) = 0 TMP\_117 = 1 not(TMP\_117) = 0 TMP\_118 = 0 not(TMP\_118) = 1 TMP\_119 = 1 not(TMP\_119) = 0 TMP\_120 = 5 TMP\_121 = 0 not(TMP\_121) = 1 TMP\_122 = 0 not(TMP\_122) = 1 TMP\_123 = 0 TMP\_124 = 1 not(TMP\_124) = 0 TMP\_125 = 1 not(TMP\_125) = 0 TMP\_126 = 2 TMP\_127 = 0 not(TMP\_127) = 1 TMP\_128 = 0 not(TMP\_128) = 1 TMP\_129 = 1 not(TMP\_129) = 0 TMP\_130 = 1 not(TMP\_130) = 0 TMP\_131 = 1 not(TMP\_131) = 0 TMP\_132 = 2 TMP\_133 = 1 not(TMP\_133) = 0 TMP\_134 = 0 not(TMP\_134) = 1 TMP\_135 = 1 not(TMP\_135) = 0 TMP\_136 = 1 not(TMP\_136) = 0 TMP\_137 = 1 not(TMP\_137) = 0 TMP\_138 = 1 not(TMP\_138) = 0 TMP\_139 = 5 TMP\_140 = 0 not(TMP\_140) = 1 TMP\_141 = 0 not(TMP\_141) = 1 TMP\_142 = 0 TMP\_143 = 1 not(TMP\_143) = 0 TMP\_144 = 1 not(TMP\_144) = 0 TMP\_145 = 2 TMP\_146 = 0 not(TMP\_146) = 1 TMP\_147 = 0 not(TMP\_147) = 1 TMP\_148 = 1 not(TMP\_148) = 0 TMP\_149 = 1 not(TMP\_149) = 0 TMP\_150 = 1 not(TMP\_150) = 0 TMP\_151 = 2 TMP\_152 = 0 not(TMP\_152) = 1 TMP\_153 = 1 not(TMP\_153) = 0 TMP\_154 = 1 not(TMP\_154) = 0 TMP\_155 = 1 not(TMP\_155) = 0 TMP\_156 = 1 not(TMP\_156) = 0 TMP\_157 = 1 not(TMP\_157) = 0 TMP\_158 = 5 TMP\_159 = 0 not(TMP\_159) = 1 TMP\_160 = 0 not(TMP\_160) = 1 TMP\_161 = 0 TMP\_162 = 1 not(TMP\_162) = 0 TMP\_163 = 1 not(TMP\_163) = 0 TMP\_164 = 2 TMP\_165 = 0 not(TMP\_165) = 1 TMP\_166 = 0 not(TMP\_166) = 1 TMP\_167 = 1 not(TMP\_167) = 0 TMP\_168 = 1 not(TMP\_168) = 0 TMP\_169 = 1 not(TMP\_169) = 0 TMP\_170 = 2 TMP\_171 = 0 not(TMP\_171) = 1 TMP\_172 = 1 not(TMP\_172) = 0 TMP\_173 = 1 not(TMP\_173) = 0 TMP\_174 = 1 not(TMP\_174) = 0 TMP\_175 = 1 not(TMP\_175) = 0 TMP\_176 = 1 not(TMP\_176) = 0 TMP\_177 = 5 TMP\_178 = 0 not(TMP\_178) = 1 TMP\_179 = 0 not(TMP\_179) = 1 TMP\_180 = 0 TMP\_181 = 1 not(TMP\_181) = 0 TMP\_182 = 1 not(TMP\_182) = 0 TMP\_183 = 2 TMP\_184 = 0 not(TMP\_184) = 1 TMP\_185 = 0 not(TMP\_185) = 1 TMP\_186 = 1 not(TMP\_186) = 0 TMP\_187 = 1 not(TMP\_187) = 0 TMP\_188 = 1 not(TMP\_188) = 0 TMP\_189 = 2 TMP\_190 = 1 not(TMP\_190) = 0 TMP\_191 = 1 not(TMP\_191) = 0 TMP\_192 = 1 not(TMP\_192) = 0 TMP\_193 = 1 not(TMP\_193) = 0 TMP\_194 = 0 not(TMP\_194) = 1 TMP\_195 = 1 not(TMP\_195) = 0 TMP\_196 = 5 TMP\_197 = 0 not(TMP\_197) = 1 TMP\_198 = 0 not(TMP\_198) = 1 TMP\_199 = 0 TMP\_200 = 1 not(TMP\_200) = 0 TMP\_201 = 1 not(TMP\_201) = 0 TMP\_202 = 2 TMP\_203 = 0 not(TMP\_203) = 1 TMP\_204 = 0 not(TMP\_204) = 1 TMP\_205 = 1 not(TMP\_205) = 0 TMP\_206 = 1 not(TMP\_206) = 0 TMP\_207 = 1 not(TMP\_207) = 0 TMP\_208 = 2 TMP\_209 = 0 not(TMP\_209) = 1 TMP\_210 = 1 not(TMP\_210) = 0 TMP\_211 = 1 not(TMP\_211) = 0 TMP\_212 = 1 not(TMP\_212) = 0 TMP\_213 = 1 not(TMP\_213) = 0 TMP\_214 = 1 not(TMP\_214) = 0 TMP\_215 = 5 TMP\_216 = 0 not(TMP\_216) = 1 TMP\_217 = 0 not(TMP\_217) = 1 TMP\_218 = 0 TMP\_219 = 1 not(TMP\_219) = 0 TMP\_220 = 1 not(TMP\_220) = 0 TMP\_221 = 2 TMP\_222 = 0 not(TMP\_222) = 1 TMP\_223 = 0 not(TMP\_223) = 1 TMP\_224 = 1 not(TMP\_224) = 0 TMP\_225 = 1 not(TMP\_225) = 0 TMP\_226 = 1 not(TMP\_226) = 0 TMP\_227 = 2 Area\_0 = 60 Distance\_0\_Rule\_0 = 20 Distance\_1\_Rule\_0 = 3 Distance\_2\_Rule\_0 = 1 Area\_1 = 174 Distance\_0\_Rule\_1 = 58 Distance\_1\_Rule\_1 = 3 Distance\_2\_Rule\_1 = 1 Area\_2 = 360 -(Rule\_2\_LB) = 0 Distance\_0\_Rule\_2 = 120 -(Rule\_2\_LB) = 0 Distance\_1\_Rule\_2 = 3 -(Rule\_2\_LB) = 0 Distance\_2\_Rule\_2 = 1 Area\_3 = 3 -(Rule\_3\_LB) = -20 Distance\_0\_Rule\_3 = 1 -(Rule\_3\_LB) = 0 Distance\_1\_Rule\_3 = 3 -(Rule\_3\_LB) = -1 Distance\_2\_Rule\_3 = 1 Area\_4 = 123 -(Rule\_4\_LB) = -79 Distance\_0\_Rule\_4 = 41 -(Rule\_4\_LB) = 0 Distance\_1\_Rule\_4 = 3 -(Rule\_4\_LB) = -1 Distance\_2\_Rule\_4 = 1 TMP\_228 = 720 .

- Solution #12 found. 12 Solutions, Resolution 0.466s, 720 Nodes (1,545.0 n/s), 1397 Backtracks, 692 Fails, 0 Restarts

Rule\_2\_LB = 0 Rule\_2\_UB = 120 Rule\_2\_LB = 0 Rule\_2\_UB = 3 Rule\_2\_LB = 0 Rule\_2\_UB = 1 Rule\_3\_LB = 20 Rule\_3\_UB = 21 Rule\_3\_LB = 0 Rule\_3\_UB = 3 Rule\_3\_LB = 1 Rule\_3\_UB = 2 Rule\_4\_LB = 79 Rule\_4\_UB = 120 Rule\_4\_LB = 0 Rule\_4\_UB = 3 Rule\_4\_LB = 1 Rule\_4\_UB = 2 Overlaps\_0\_0 = 0 Overlaps\_0\_1 = 1 Overlaps\_0\_2 = 0 Overlaps\_0\_3 = 0 Overlaps\_0\_4 = 0 Overlaps\_1\_0 = 1 Overlaps\_1\_1 = 0 Overlaps\_1\_2 = 0 Overlaps\_1\_3 = 0 Overlaps\_1\_4 = 0 Overlaps\_2\_0 = 0 Overlaps\_2\_1 = 0 Overlaps\_2\_2 = 0 Overlaps\_2\_3 = 0 Overlaps\_2\_4 = 0 Overlaps\_3\_0 = 0 Overlaps\_3\_1 = 0 Overlaps\_3\_2 = 0 Overlaps\_3\_3 = 0 Overlaps\_3\_4 = 0 Overlaps\_4\_0 = 0 Overlaps\_4\_1 = 0 Overlaps\_4\_2 = 0 Overlaps\_4\_3 = 0 Overlaps\_4\_4 = 0 TMP\_0 = 1 not(TMP\_0) = 0 TMP\_1 = 1 not(TMP\_1) = 0 TMP\_2 = 1 not(TMP\_2) = 0 TMP\_3 = 1 not(TMP\_3) = 0 TMP\_4 = 1 not(TMP\_4) = 0 TMP\_5 = 0 not(TMP\_5) = 1 TMP\_6 = 5 TMP\_7 = 0 not(TMP\_7) = 1 TMP\_8 = 0 not(TMP\_8) = 1 TMP\_9 = 0 TMP\_10 = 1 not(TMP\_10) = 0 TMP\_11 = 1 not(TMP\_11) = 0 TMP\_12 = 2 TMP\_13 = 0 not(TMP\_13) = 1 TMP\_14 = 0 not(TMP\_14) = 1 TMP\_15 = 1 not(TMP\_15) = 0 TMP\_16 = 1 not(TMP\_16) = 0 TMP\_17 = 1 not(TMP\_17) = 0 TMP\_18 = 2 TMP\_19 = 1 not(TMP\_19) = 0 TMP\_20 = 1 not(TMP\_20) = 0 TMP\_21 = 1 not(TMP\_21) = 0 TMP\_22 = 1 not(TMP\_22) = 0 TMP\_23 = 1 not(TMP\_23) = 0 TMP\_24 = 0 not(TMP\_24) = 1 TMP\_25 = 5 TMP\_26 = 0 not(TMP\_26) = 1 TMP\_27 = 0 not(TMP\_27) = 1 TMP\_28 = 0 TMP\_29 = 1 not(TMP\_29) = 0 TMP\_30 = 1 not(TMP\_30) = 0 TMP\_31 = 2 TMP\_32 = 0 not(TMP\_32) = 1 TMP\_33 = 0 not(TMP\_33) = 1 TMP\_34 = 1 not(TMP\_34) = 0 TMP\_35 = 1 not(TMP\_35) = 0 TMP\_36 = 1 not(TMP\_36) = 0 TMP\_37 = 2 TMP\_38 = 1 not(TMP\_38) = 0 TMP\_39 = 1 not(TMP\_39) = 0 TMP\_40 = 1 not(TMP\_40) = 0 TMP\_41 = 1 not(TMP\_41) = 0 TMP\_42 = 1 not(TMP\_42) = 0 TMP\_43 = 0 not(TMP\_43) = 1 TMP\_44 = 5 TMP\_45 = 0 not(TMP\_45) = 1 TMP\_46 = 0 not(TMP\_46) = 1 TMP\_47 = 0 TMP\_48 = 1 not(TMP\_48) = 0 TMP\_49 = 1 not(TMP\_49) = 0 TMP\_50 = 2 TMP\_51 = 0 not(TMP\_51) = 1 TMP\_52 = 0 not(TMP\_52) = 1 TMP\_53 = 1 not(TMP\_53) = 0 TMP\_54 = 1 not(TMP\_54) = 0 TMP\_55 = 1 not(TMP\_55) = 0 TMP\_56 = 2 TMP\_57 = 1 not(TMP\_57) = 0 TMP\_58 = 1 not(TMP\_58) = 0 TMP\_59 = 1 not(TMP\_59) = 0 TMP\_60 = 1 not(TMP\_60) = 0 TMP\_61 = 1 not(TMP\_61) = 0 TMP\_62 = 0 not(TMP\_62) = 1 TMP\_63 = 5 TMP\_64 = 0 not(TMP\_64) = 1 TMP\_65 = 0 not(TMP\_65) = 1 TMP\_66 = 0 TMP\_67 = 1 not(TMP\_67) = 0 TMP\_68 = 1 not(TMP\_68) = 0 TMP\_69 = 2 TMP\_70 = 0 not(TMP\_70) = 1 TMP\_71 = 0 not(TMP\_71) = 1 TMP\_72 = 1 not(TMP\_72) = 0 TMP\_73 = 1 not(TMP\_73) = 0 TMP\_74 = 1 not(TMP\_74) = 0 TMP\_75 = 2 TMP\_76 = 0 not(TMP\_76) = 1 TMP\_77 = 1 not(TMP\_77) = 0 TMP\_78 = 1 not(TMP\_78) = 0 TMP\_79 = 1 not(TMP\_79) = 0 TMP\_80 = 1 not(TMP\_80) = 0 TMP\_81 = 1 not(TMP\_81) = 0 TMP\_82 = 5 TMP\_83 = 0 not(TMP\_83) = 1 TMP\_84 = 0 not(TMP\_84) = 1 TMP\_85 = 0 TMP\_86 = 1 not(TMP\_86) = 0 TMP\_87 = 1 not(TMP\_87) = 0 TMP\_88 = 2 TMP\_89 = 0 not(TMP\_89) = 1 TMP\_90 = 0 not(TMP\_90) = 1 TMP\_91 = 1 not(TMP\_91) = 0 TMP\_92 = 1 not(TMP\_92) = 0 TMP\_93 = 1 not(TMP\_93) = 0 TMP\_94 = 2 TMP\_95 = 1 not(TMP\_95) = 0 TMP\_96 = 0 not(TMP\_96) = 1 TMP\_97 = 1 not(TMP\_97) = 0 TMP\_98 = 1 not(TMP\_98) = 0 TMP\_99 = 1 not(TMP\_99) = 0 TMP\_100 = 1 not(TMP\_100) = 0 TMP\_101 = 5 TMP\_102 = 0 not(TMP\_102) = 1 TMP\_103 = 0 not(TMP\_103) = 1 TMP\_104 = 0 TMP\_105 = 1 not(TMP\_105) = 0 TMP\_106 = 1 not(TMP\_106) = 0 TMP\_107 = 2 TMP\_108 = 0 not(TMP\_108) = 1 TMP\_109 = 0 not(TMP\_109) = 1 TMP\_110 = 1 not(TMP\_110) = 0 TMP\_111 = 1 not(TMP\_111) = 0 TMP\_112 = 1 not(TMP\_112) = 0 TMP\_113 = 2 TMP\_114 = 1 not(TMP\_114) = 0 TMP\_115 = 1 not(TMP\_115) = 0 TMP\_116 = 1 not(TMP\_116) = 0 TMP\_117 = 1 not(TMP\_117) = 0 TMP\_118 = 0 not(TMP\_118) = 1 TMP\_119 = 1 not(TMP\_119) = 0 TMP\_120 = 5 TMP\_121 = 0 not(TMP\_121) = 1 TMP\_122 = 0 not(TMP\_122) = 1 TMP\_123 = 0 TMP\_124 = 1 not(TMP\_124) = 0 TMP\_125 = 1 not(TMP\_125) = 0 TMP\_126 = 2 TMP\_127 = 0 not(TMP\_127) = 1 TMP\_128 = 0 not(TMP\_128) = 1 TMP\_129 = 1 not(TMP\_129) = 0 TMP\_130 = 1 not(TMP\_130) = 0 TMP\_131 = 1 not(TMP\_131) = 0 TMP\_132 = 2 TMP\_133 = 1 not(TMP\_133) = 0 TMP\_134 = 0 not(TMP\_134) = 1 TMP\_135 = 1 not(TMP\_135) = 0 TMP\_136 = 1 not(TMP\_136) = 0 TMP\_137 = 1 not(TMP\_137) = 0 TMP\_138 = 1 not(TMP\_138) = 0 TMP\_139 = 5 TMP\_140 = 0 not(TMP\_140) = 1 TMP\_141 = 0 not(TMP\_141) = 1 TMP\_142 = 0 TMP\_143 = 1 not(TMP\_143) = 0 TMP\_144 = 1 not(TMP\_144) = 0 TMP\_145 = 2 TMP\_146 = 0 not(TMP\_146) = 1 TMP\_147 = 0 not(TMP\_147) = 1 TMP\_148 = 1 not(TMP\_148) = 0 TMP\_149 = 1 not(TMP\_149) = 0 TMP\_150 = 1 not(TMP\_150) = 0 TMP\_151 = 2 TMP\_152 = 0 not(TMP\_152) = 1 TMP\_153 = 1 not(TMP\_153) = 0 TMP\_154 = 1 not(TMP\_154) = 0 TMP\_155 = 1 not(TMP\_155) = 0 TMP\_156 = 1 not(TMP\_156) = 0 TMP\_157 = 1 not(TMP\_157) = 0 TMP\_158 = 5 TMP\_159 = 0 not(TMP\_159) = 1 TMP\_160 = 0 not(TMP\_160) = 1 TMP\_161 = 0 TMP\_162 = 1 not(TMP\_162) = 0 TMP\_163 = 1 not(TMP\_163) = 0 TMP\_164 = 2 TMP\_165 = 0 not(TMP\_165) = 1 TMP\_166 = 0 not(TMP\_166) = 1 TMP\_167 = 1 not(TMP\_167) = 0 TMP\_168 = 1 not(TMP\_168) = 0 TMP\_169 = 1 not(TMP\_169) = 0 TMP\_170 = 2 TMP\_171 = 0 not(TMP\_171) = 1 TMP\_172 = 1 not(TMP\_172) = 0 TMP\_173 = 1 not(TMP\_173) = 0 TMP\_174 = 1 not(TMP\_174) = 0 TMP\_175 = 1 not(TMP\_175) = 0 TMP\_176 = 1 not(TMP\_176) = 0 TMP\_177 = 5 TMP\_178 = 0 not(TMP\_178) = 1 TMP\_179 = 0 not(TMP\_179) = 1 TMP\_180 = 0 TMP\_181 = 1 not(TMP\_181) = 0 TMP\_182 = 1 not(TMP\_182) = 0 TMP\_183 = 2 TMP\_184 = 0 not(TMP\_184) = 1 TMP\_185 = 0 not(TMP\_185) = 1 TMP\_186 = 1 not(TMP\_186) = 0 TMP\_187 = 1 not(TMP\_187) = 0 TMP\_188 = 1 not(TMP\_188) = 0 TMP\_189 = 2 TMP\_190 = 1 not(TMP\_190) = 0 TMP\_191 = 1 not(TMP\_191) = 0 TMP\_192 = 1 not(TMP\_192) = 0 TMP\_193 = 1 not(TMP\_193) = 0 TMP\_194 = 0 not(TMP\_194) = 1 TMP\_195 = 1 not(TMP\_195) = 0 TMP\_196 = 5 TMP\_197 = 0 not(TMP\_197) = 1 TMP\_198 = 0 not(TMP\_198) = 1 TMP\_199 = 0 TMP\_200 = 1 not(TMP\_200) = 0 TMP\_201 = 1 not(TMP\_201) = 0 TMP\_202 = 2 TMP\_203 = 0 not(TMP\_203) = 1 TMP\_204 = 0 not(TMP\_204) = 1 TMP\_205 = 1 not(TMP\_205) = 0 TMP\_206 = 1 not(TMP\_206) = 0 TMP\_207 = 1 not(TMP\_207) = 0 TMP\_208 = 2 TMP\_209 = 0 not(TMP\_209) = 1 TMP\_210 = 1 not(TMP\_210) = 0 TMP\_211 = 1 not(TMP\_211) = 0 TMP\_212 = 1 not(TMP\_212) = 0 TMP\_213 = 1 not(TMP\_213) = 0 TMP\_214 = 1 not(TMP\_214) = 0 TMP\_215 = 5 TMP\_216 = 0 not(TMP\_216) = 1 TMP\_217 = 0 not(TMP\_217) = 1 TMP\_218 = 0 TMP\_219 = 1 not(TMP\_219) = 0 TMP\_220 = 1 not(TMP\_220) = 0 TMP\_221 = 2 TMP\_222 = 0 not(TMP\_222) = 1 TMP\_223 = 0 not(TMP\_223) = 1 TMP\_224 = 1 not(TMP\_224) = 0 TMP\_225 = 1 not(TMP\_225) = 0 TMP\_226 = 1 not(TMP\_226) = 0 TMP\_227 = 2 Area\_0 = 60 Distance\_0\_Rule\_0 = 20 Distance\_1\_Rule\_0 = 3 Distance\_2\_Rule\_0 = 1 Area\_1 = 174 Distance\_0\_Rule\_1 = 58 Distance\_1\_Rule\_1 = 3 Distance\_2\_Rule\_1 = 1 Area\_2 = 360 -(Rule\_2\_LB) = 0 Distance\_0\_Rule\_2 = 120 -(Rule\_2\_LB) = 0 Distance\_1\_Rule\_2 = 3 -(Rule\_2\_LB) = 0 Distance\_2\_Rule\_2 = 1 Area\_3 = 3 -(Rule\_3\_LB) = -20 Distance\_0\_Rule\_3 = 1 -(Rule\_3\_LB) = 0 Distance\_1\_Rule\_3 = 3 -(Rule\_3\_LB) = -1 Distance\_2\_Rule\_3 = 1 Area\_4 = 123 -(Rule\_4\_LB) = -79 Distance\_0\_Rule\_4 = 41 -(Rule\_4\_LB) = 0 Distance\_1\_Rule\_4 = 3 -(Rule\_4\_LB) = -1 Distance\_2\_Rule\_4 = 1 TMP\_228 = 720 .

- Solution #13 found. 13 Solutions, Resolution 0.481s, 768 Nodes (1,597.4 n/s), 1476 Backtracks, 733 Fails, 0 Restarts

Rule\_2\_LB = 20 Rule\_2\_UB = 21 Rule\_2\_LB = 0 Rule\_2\_UB = 3 Rule\_2\_LB = 1 Rule\_2\_UB = 2 Rule\_3\_LB = 0 Rule\_3\_UB = 120 Rule\_3\_LB = 0 Rule\_3\_UB = 3 Rule\_3\_LB = 0 Rule\_3\_UB = 1 Rule\_4\_LB = 79 Rule\_4\_UB = 120 Rule\_4\_LB = 0 Rule\_4\_UB = 3 Rule\_4\_LB = 1 Rule\_4\_UB = 2 Overlaps\_0\_0 = 0 Overlaps\_0\_1 = 0 Overlaps\_0\_2 = 0 Overlaps\_0\_3 = 0 Overlaps\_0\_4 = 0 Overlaps\_1\_0 = 0 Overlaps\_1\_1 = 0 Overlaps\_1\_2 = 0 Overlaps\_1\_3 = 0 Overlaps\_1\_4 = 0 Overlaps\_2\_0 = 0 Overlaps\_2\_1 = 0 Overlaps\_2\_2 = 0 Overlaps\_2\_3 = 0 Overlaps\_2\_4 = 0 Overlaps\_3\_0 = 0 Overlaps\_3\_1 = 0 Overlaps\_3\_2 = 0 Overlaps\_3\_3 = 0 Overlaps\_3\_4 = 0 Overlaps\_4\_0 = 0 Overlaps\_4\_1 = 0 Overlaps\_4\_2 = 0 Overlaps\_4\_3 = 0 Overlaps\_4\_4 = 0 TMP\_0 = 0 not(TMP\_0) = 1 TMP\_1 = 1 not(TMP\_1) = 0 TMP\_2 = 1 not(TMP\_2) = 0 TMP\_3 = 1 not(TMP\_3) = 0 TMP\_4 = 1 not(TMP\_4) = 0 TMP\_5 = 1 not(TMP\_5) = 0 TMP\_6 = 5 TMP\_7 = 0 not(TMP\_7) = 1 TMP\_8 = 0 not(TMP\_8) = 1 TMP\_9 = 0 TMP\_10 = 1 not(TMP\_10) = 0 TMP\_11 = 1 not(TMP\_11) = 0 TMP\_12 = 2 TMP\_13 = 0 not(TMP\_13) = 1 TMP\_14 = 0 not(TMP\_14) = 1 TMP\_15 = 1 not(TMP\_15) = 0 TMP\_16 = 1 not(TMP\_16) = 0 TMP\_17 = 1 not(TMP\_17) = 0 TMP\_18 = 2 TMP\_19 = 1 not(TMP\_19) = 0 TMP\_20 = 0 not(TMP\_20) = 1 TMP\_21 = 1 not(TMP\_21) = 0 TMP\_22 = 1 not(TMP\_22) = 0 TMP\_23 = 1 not(TMP\_23) = 0 TMP\_24 = 1 not(TMP\_24) = 0 TMP\_25 = 5 TMP\_26 = 0 not(TMP\_26) = 1 TMP\_27 = 0 not(TMP\_27) = 1 TMP\_28 = 0 TMP\_29 = 1 not(TMP\_29) = 0 TMP\_30 = 1 not(TMP\_30) = 0 TMP\_31 = 2 TMP\_32 = 0 not(TMP\_32) = 1 TMP\_33 = 0 not(TMP\_33) = 1 TMP\_34 = 1 not(TMP\_34) = 0 TMP\_35 = 1 not(TMP\_35) = 0 TMP\_36 = 1 not(TMP\_36) = 0 TMP\_37 = 2 TMP\_38 = 1 not(TMP\_38) = 0 TMP\_39 = 1 not(TMP\_39) = 0 TMP\_40 = 1 not(TMP\_40) = 0 TMP\_41 = 1 not(TMP\_41) = 0 TMP\_42 = 0 not(TMP\_42) = 1 TMP\_43 = 1 not(TMP\_43) = 0 TMP\_44 = 5 TMP\_45 = 0 not(TMP\_45) = 1 TMP\_46 = 0 not(TMP\_46) = 1 TMP\_47 = 0 TMP\_48 = 1 not(TMP\_48) = 0 TMP\_49 = 1 not(TMP\_49) = 0 TMP\_50 = 2 TMP\_51 = 0 not(TMP\_51) = 1 TMP\_52 = 0 not(TMP\_52) = 1 TMP\_53 = 1 not(TMP\_53) = 0 TMP\_54 = 1 not(TMP\_54) = 0 TMP\_55 = 1 not(TMP\_55) = 0 TMP\_56 = 2 TMP\_57 = 1 not(TMP\_57) = 0 TMP\_58 = 0 not(TMP\_58) = 1 TMP\_59 = 1 not(TMP\_59) = 0 TMP\_60 = 1 not(TMP\_60) = 0 TMP\_61 = 1 not(TMP\_61) = 0 TMP\_62 = 1 not(TMP\_62) = 0 TMP\_63 = 5 TMP\_64 = 0 not(TMP\_64) = 1 TMP\_65 = 0 not(TMP\_65) = 1 TMP\_66 = 0 TMP\_67 = 1 not(TMP\_67) = 0 TMP\_68 = 1 not(TMP\_68) = 0 TMP\_69 = 2 TMP\_70 = 0 not(TMP\_70) = 1 TMP\_71 = 0 not(TMP\_71) = 1 TMP\_72 = 1 not(TMP\_72) = 0 TMP\_73 = 1 not(TMP\_73) = 0 TMP\_74 = 1 not(TMP\_74) = 0 TMP\_75 = 2 TMP\_76 = 1 not(TMP\_76) = 0 TMP\_77 = 1 not(TMP\_77) = 0 TMP\_78 = 1 not(TMP\_78) = 0 TMP\_79 = 1 not(TMP\_79) = 0 TMP\_80 = 1 not(TMP\_80) = 0 TMP\_81 = 0 not(TMP\_81) = 1 TMP\_82 = 5 TMP\_83 = 0 not(TMP\_83) = 1 TMP\_84 = 0 not(TMP\_84) = 1 TMP\_85 = 0 TMP\_86 = 1 not(TMP\_86) = 0 TMP\_87 = 1 not(TMP\_87) = 0 TMP\_88 = 2 TMP\_89 = 0 not(TMP\_89) = 1 TMP\_90 = 0 not(TMP\_90) = 1 TMP\_91 = 1 not(TMP\_91) = 0 TMP\_92 = 1 not(TMP\_92) = 0 TMP\_93 = 1 not(TMP\_93) = 0 TMP\_94 = 2 TMP\_95 = 1 not(TMP\_95) = 0 TMP\_96 = 1 not(TMP\_96) = 0 TMP\_97 = 1 not(TMP\_97) = 0 TMP\_98 = 1 not(TMP\_98) = 0 TMP\_99 = 1 not(TMP\_99) = 0 TMP\_100 = 0 not(TMP\_100) = 1 TMP\_101 = 5 TMP\_102 = 0 not(TMP\_102) = 1 TMP\_103 = 0 not(TMP\_103) = 1 TMP\_104 = 0 TMP\_105 = 1 not(TMP\_105) = 0 TMP\_106 = 1 not(TMP\_106) = 0 TMP\_107 = 2 TMP\_108 = 0 not(TMP\_108) = 1 TMP\_109 = 0 not(TMP\_109) = 1 TMP\_110 = 1 not(TMP\_110) = 0 TMP\_111 = 1 not(TMP\_111) = 0 TMP\_112 = 1 not(TMP\_112) = 0 TMP\_113 = 2 TMP\_114 = 1 not(TMP\_114) = 0 TMP\_115 = 1 not(TMP\_115) = 0 TMP\_116 = 1 not(TMP\_116) = 0 TMP\_117 = 1 not(TMP\_117) = 0 TMP\_118 = 1 not(TMP\_118) = 0 TMP\_119 = 0 not(TMP\_119) = 1 TMP\_120 = 5 TMP\_121 = 0 not(TMP\_121) = 1 TMP\_122 = 0 not(TMP\_122) = 1 TMP\_123 = 0 TMP\_124 = 1 not(TMP\_124) = 0 TMP\_125 = 1 not(TMP\_125) = 0 TMP\_126 = 2 TMP\_127 = 0 not(TMP\_127) = 1 TMP\_128 = 0 not(TMP\_128) = 1 TMP\_129 = 1 not(TMP\_129) = 0 TMP\_130 = 1 not(TMP\_130) = 0 TMP\_131 = 1 not(TMP\_131) = 0 TMP\_132 = 2 TMP\_133 = 1 not(TMP\_133) = 0 TMP\_134 = 1 not(TMP\_134) = 0 TMP\_135 = 1 not(TMP\_135) = 0 TMP\_136 = 1 not(TMP\_136) = 0 TMP\_137 = 1 not(TMP\_137) = 0 TMP\_138 = 0 not(TMP\_138) = 1 TMP\_139 = 5 TMP\_140 = 0 not(TMP\_140) = 1 TMP\_141 = 0 not(TMP\_141) = 1 TMP\_142 = 0 TMP\_143 = 1 not(TMP\_143) = 0 TMP\_144 = 1 not(TMP\_144) = 0 TMP\_145 = 2 TMP\_146 = 0 not(TMP\_146) = 1 TMP\_147 = 0 not(TMP\_147) = 1 TMP\_148 = 1 not(TMP\_148) = 0 TMP\_149 = 1 not(TMP\_149) = 0 TMP\_150 = 1 not(TMP\_150) = 0 TMP\_151 = 2 TMP\_152 = 0 not(TMP\_152) = 1 TMP\_153 = 1 not(TMP\_153) = 0 TMP\_154 = 1 not(TMP\_154) = 0 TMP\_155 = 1 not(TMP\_155) = 0 TMP\_156 = 1 not(TMP\_156) = 0 TMP\_157 = 1 not(TMP\_157) = 0 TMP\_158 = 5 TMP\_159 = 0 not(TMP\_159) = 1 TMP\_160 = 0 not(TMP\_160) = 1 TMP\_161 = 0 TMP\_162 = 1 not(TMP\_162) = 0 TMP\_163 = 1 not(TMP\_163) = 0 TMP\_164 = 2 TMP\_165 = 0 not(TMP\_165) = 1 TMP\_166 = 0 not(TMP\_166) = 1 TMP\_167 = 1 not(TMP\_167) = 0 TMP\_168 = 1 not(TMP\_168) = 0 TMP\_169 = 1 not(TMP\_169) = 0 TMP\_170 = 2 TMP\_171 = 0 not(TMP\_171) = 1 TMP\_172 = 1 not(TMP\_172) = 0 TMP\_173 = 1 not(TMP\_173) = 0 TMP\_174 = 1 not(TMP\_174) = 0 TMP\_175 = 1 not(TMP\_175) = 0 TMP\_176 = 1 not(TMP\_176) = 0 TMP\_177 = 5 TMP\_178 = 0 not(TMP\_178) = 1 TMP\_179 = 0 not(TMP\_179) = 1 TMP\_180 = 0 TMP\_181 = 1 not(TMP\_181) = 0 TMP\_182 = 1 not(TMP\_182) = 0 TMP\_183 = 2 TMP\_184 = 0 not(TMP\_184) = 1 TMP\_185 = 0 not(TMP\_185) = 1 TMP\_186 = 1 not(TMP\_186) = 0 TMP\_187 = 1 not(TMP\_187) = 0 TMP\_188 = 1 not(TMP\_188) = 0 TMP\_189 = 2 TMP\_190 = 0 not(TMP\_190) = 1 TMP\_191 = 1 not(TMP\_191) = 0 TMP\_192 = 1 not(TMP\_192) = 0 TMP\_193 = 1 not(TMP\_193) = 0 TMP\_194 = 1 not(TMP\_194) = 0 TMP\_195 = 1 not(TMP\_195) = 0 TMP\_196 = 5 TMP\_197 = 0 not(TMP\_197) = 1 TMP\_198 = 0 not(TMP\_198) = 1 TMP\_199 = 0 TMP\_200 = 1 not(TMP\_200) = 0 TMP\_201 = 1 not(TMP\_201) = 0 TMP\_202 = 2 TMP\_203 = 0 not(TMP\_203) = 1 TMP\_204 = 0 not(TMP\_204) = 1 TMP\_205 = 1 not(TMP\_205) = 0 TMP\_206 = 1 not(TMP\_206) = 0 TMP\_207 = 1 not(TMP\_207) = 0 TMP\_208 = 2 TMP\_209 = 1 not(TMP\_209) = 0 TMP\_210 = 1 not(TMP\_210) = 0 TMP\_211 = 1 not(TMP\_211) = 0 TMP\_212 = 1 not(TMP\_212) = 0 TMP\_213 = 0 not(TMP\_213) = 1 TMP\_214 = 1 not(TMP\_214) = 0 TMP\_215 = 5 TMP\_216 = 0 not(TMP\_216) = 1 TMP\_217 = 0 not(TMP\_217) = 1 TMP\_218 = 0 TMP\_219 = 1 not(TMP\_219) = 0 TMP\_220 = 1 not(TMP\_220) = 0 TMP\_221 = 2 TMP\_222 = 0 not(TMP\_222) = 1 TMP\_223 = 0 not(TMP\_223) = 1 TMP\_224 = 1 not(TMP\_224) = 0 TMP\_225 = 1 not(TMP\_225) = 0 TMP\_226 = 1 not(TMP\_226) = 0 TMP\_227 = 2 Area\_0 = 60 Distance\_0\_Rule\_0 = 20 Distance\_1\_Rule\_0 = 3 Distance\_2\_Rule\_0 = 1 Area\_1 = 174 Distance\_0\_Rule\_1 = 58 Distance\_1\_Rule\_1 = 3 Distance\_2\_Rule\_1 = 1 Area\_2 = 3 -(Rule\_2\_LB) = -20 Distance\_0\_Rule\_2 = 1 -(Rule\_2\_LB) = 0 Distance\_1\_Rule\_2 = 3 -(Rule\_2\_LB) = -1 Distance\_2\_Rule\_2 = 1 Area\_3 = 360 -(Rule\_3\_LB) = 0 Distance\_0\_Rule\_3 = 120 -(Rule\_3\_LB) = 0 Distance\_1\_Rule\_3 = 3 -(Rule\_3\_LB) = 0 Distance\_2\_Rule\_3 = 1 Area\_4 = 123 -(Rule\_4\_LB) = -79 Distance\_0\_Rule\_4 = 41 -(Rule\_4\_LB) = 0 Distance\_1\_Rule\_4 = 3 -(Rule\_4\_LB) = -1 Distance\_2\_Rule\_4 = 1 TMP\_228 = 720 .

- Solution #14 found. 14 Solutions, Resolution 0.483s, 769 Nodes (1,591.5 n/s), 1477 Backtracks, 733 Fails, 0 Restarts

Rule\_2\_LB = 20 Rule\_2\_UB = 21 Rule\_2\_LB = 0 Rule\_2\_UB = 3 Rule\_2\_LB = 1 Rule\_2\_UB = 2 Rule\_3\_LB = 0 Rule\_3\_UB = 120 Rule\_3\_LB = 0 Rule\_3\_UB = 3 Rule\_3\_LB = 0 Rule\_3\_UB = 1 Rule\_4\_LB = 79 Rule\_4\_UB = 120 Rule\_4\_LB = 0 Rule\_4\_UB = 3 Rule\_4\_LB = 1 Rule\_4\_UB = 2 Overlaps\_0\_0 = 0 Overlaps\_0\_1 = 0 Overlaps\_0\_2 = 0 Overlaps\_0\_3 = 0 Overlaps\_0\_4 = 0 Overlaps\_1\_0 = 1 Overlaps\_1\_1 = 0 Overlaps\_1\_2 = 0 Overlaps\_1\_3 = 0 Overlaps\_1\_4 = 0 Overlaps\_2\_0 = 0 Overlaps\_2\_1 = 0 Overlaps\_2\_2 = 0 Overlaps\_2\_3 = 0 Overlaps\_2\_4 = 0 Overlaps\_3\_0 = 0 Overlaps\_3\_1 = 0 Overlaps\_3\_2 = 0 Overlaps\_3\_3 = 0 Overlaps\_3\_4 = 0 Overlaps\_4\_0 = 0 Overlaps\_4\_1 = 0 Overlaps\_4\_2 = 0 Overlaps\_4\_3 = 0 Overlaps\_4\_4 = 0 TMP\_0 = 0 not(TMP\_0) = 1 TMP\_1 = 1 not(TMP\_1) = 0 TMP\_2 = 1 not(TMP\_2) = 0 TMP\_3 = 1 not(TMP\_3) = 0 TMP\_4 = 1 not(TMP\_4) = 0 TMP\_5 = 1 not(TMP\_5) = 0 TMP\_6 = 5 TMP\_7 = 0 not(TMP\_7) = 1 TMP\_8 = 0 not(TMP\_8) = 1 TMP\_9 = 0 TMP\_10 = 1 not(TMP\_10) = 0 TMP\_11 = 1 not(TMP\_11) = 0 TMP\_12 = 2 TMP\_13 = 0 not(TMP\_13) = 1 TMP\_14 = 0 not(TMP\_14) = 1 TMP\_15 = 1 not(TMP\_15) = 0 TMP\_16 = 1 not(TMP\_16) = 0 TMP\_17 = 1 not(TMP\_17) = 0 TMP\_18 = 2 TMP\_19 = 1 not(TMP\_19) = 0 TMP\_20 = 0 not(TMP\_20) = 1 TMP\_21 = 1 not(TMP\_21) = 0 TMP\_22 = 1 not(TMP\_22) = 0 TMP\_23 = 1 not(TMP\_23) = 0 TMP\_24 = 1 not(TMP\_24) = 0 TMP\_25 = 5 TMP\_26 = 0 not(TMP\_26) = 1 TMP\_27 = 0 not(TMP\_27) = 1 TMP\_28 = 0 TMP\_29 = 1 not(TMP\_29) = 0 TMP\_30 = 1 not(TMP\_30) = 0 TMP\_31 = 2 TMP\_32 = 0 not(TMP\_32) = 1 TMP\_33 = 0 not(TMP\_33) = 1 TMP\_34 = 1 not(TMP\_34) = 0 TMP\_35 = 1 not(TMP\_35) = 0 TMP\_36 = 1 not(TMP\_36) = 0 TMP\_37 = 2 TMP\_38 = 1 not(TMP\_38) = 0 TMP\_39 = 1 not(TMP\_39) = 0 TMP\_40 = 1 not(TMP\_40) = 0 TMP\_41 = 1 not(TMP\_41) = 0 TMP\_42 = 0 not(TMP\_42) = 1 TMP\_43 = 1 not(TMP\_43) = 0 TMP\_44 = 5 TMP\_45 = 0 not(TMP\_45) = 1 TMP\_46 = 0 not(TMP\_46) = 1 TMP\_47 = 0 TMP\_48 = 1 not(TMP\_48) = 0 TMP\_49 = 1 not(TMP\_49) = 0 TMP\_50 = 2 TMP\_51 = 0 not(TMP\_51) = 1 TMP\_52 = 0 not(TMP\_52) = 1 TMP\_53 = 1 not(TMP\_53) = 0 TMP\_54 = 1 not(TMP\_54) = 0 TMP\_55 = 1 not(TMP\_55) = 0 TMP\_56 = 2 TMP\_57 = 1 not(TMP\_57) = 0 TMP\_58 = 0 not(TMP\_58) = 1 TMP\_59 = 1 not(TMP\_59) = 0 TMP\_60 = 1 not(TMP\_60) = 0 TMP\_61 = 1 not(TMP\_61) = 0 TMP\_62 = 1 not(TMP\_62) = 0 TMP\_63 = 5 TMP\_64 = 0 not(TMP\_64) = 1 TMP\_65 = 0 not(TMP\_65) = 1 TMP\_66 = 0 TMP\_67 = 1 not(TMP\_67) = 0 TMP\_68 = 1 not(TMP\_68) = 0 TMP\_69 = 2 TMP\_70 = 0 not(TMP\_70) = 1 TMP\_71 = 0 not(TMP\_71) = 1 TMP\_72 = 1 not(TMP\_72) = 0 TMP\_73 = 1 not(TMP\_73) = 0 TMP\_74 = 1 not(TMP\_74) = 0 TMP\_75 = 2 TMP\_76 = 1 not(TMP\_76) = 0 TMP\_77 = 1 not(TMP\_77) = 0 TMP\_78 = 1 not(TMP\_78) = 0 TMP\_79 = 1 not(TMP\_79) = 0 TMP\_80 = 1 not(TMP\_80) = 0 TMP\_81 = 0 not(TMP\_81) = 1 TMP\_82 = 5 TMP\_83 = 0 not(TMP\_83) = 1 TMP\_84 = 0 not(TMP\_84) = 1 TMP\_85 = 0 TMP\_86 = 1 not(TMP\_86) = 0 TMP\_87 = 1 not(TMP\_87) = 0 TMP\_88 = 2 TMP\_89 = 0 not(TMP\_89) = 1 TMP\_90 = 0 not(TMP\_90) = 1 TMP\_91 = 1 not(TMP\_91) = 0 TMP\_92 = 1 not(TMP\_92) = 0 TMP\_93 = 1 not(TMP\_93) = 0 TMP\_94 = 2 TMP\_95 = 1 not(TMP\_95) = 0 TMP\_96 = 1 not(TMP\_96) = 0 TMP\_97 = 1 not(TMP\_97) = 0 TMP\_98 = 1 not(TMP\_98) = 0 TMP\_99 = 1 not(TMP\_99) = 0 TMP\_100 = 0 not(TMP\_100) = 1 TMP\_101 = 5 TMP\_102 = 0 not(TMP\_102) = 1 TMP\_103 = 0 not(TMP\_103) = 1 TMP\_104 = 0 TMP\_105 = 1 not(TMP\_105) = 0 TMP\_106 = 1 not(TMP\_106) = 0 TMP\_107 = 2 TMP\_108 = 0 not(TMP\_108) = 1 TMP\_109 = 0 not(TMP\_109) = 1 TMP\_110 = 1 not(TMP\_110) = 0 TMP\_111 = 1 not(TMP\_111) = 0 TMP\_112 = 1 not(TMP\_112) = 0 TMP\_113 = 2 TMP\_114 = 1 not(TMP\_114) = 0 TMP\_115 = 1 not(TMP\_115) = 0 TMP\_116 = 1 not(TMP\_116) = 0 TMP\_117 = 1 not(TMP\_117) = 0 TMP\_118 = 1 not(TMP\_118) = 0 TMP\_119 = 0 not(TMP\_119) = 1 TMP\_120 = 5 TMP\_121 = 0 not(TMP\_121) = 1 TMP\_122 = 0 not(TMP\_122) = 1 TMP\_123 = 0 TMP\_124 = 1 not(TMP\_124) = 0 TMP\_125 = 1 not(TMP\_125) = 0 TMP\_126 = 2 TMP\_127 = 0 not(TMP\_127) = 1 TMP\_128 = 0 not(TMP\_128) = 1 TMP\_129 = 1 not(TMP\_129) = 0 TMP\_130 = 1 not(TMP\_130) = 0 TMP\_131 = 1 not(TMP\_131) = 0 TMP\_132 = 2 TMP\_133 = 1 not(TMP\_133) = 0 TMP\_134 = 1 not(TMP\_134) = 0 TMP\_135 = 1 not(TMP\_135) = 0 TMP\_136 = 1 not(TMP\_136) = 0 TMP\_137 = 1 not(TMP\_137) = 0 TMP\_138 = 0 not(TMP\_138) = 1 TMP\_139 = 5 TMP\_140 = 0 not(TMP\_140) = 1 TMP\_141 = 0 not(TMP\_141) = 1 TMP\_142 = 0 TMP\_143 = 1 not(TMP\_143) = 0 TMP\_144 = 1 not(TMP\_144) = 0 TMP\_145 = 2 TMP\_146 = 0 not(TMP\_146) = 1 TMP\_147 = 0 not(TMP\_147) = 1 TMP\_148 = 1 not(TMP\_148) = 0 TMP\_149 = 1 not(TMP\_149) = 0 TMP\_150 = 1 not(TMP\_150) = 0 TMP\_151 = 2 TMP\_152 = 0 not(TMP\_152) = 1 TMP\_153 = 1 not(TMP\_153) = 0 TMP\_154 = 1 not(TMP\_154) = 0 TMP\_155 = 1 not(TMP\_155) = 0 TMP\_156 = 1 not(TMP\_156) = 0 TMP\_157 = 1 not(TMP\_157) = 0 TMP\_158 = 5 TMP\_159 = 0 not(TMP\_159) = 1 TMP\_160 = 0 not(TMP\_160) = 1 TMP\_161 = 0 TMP\_162 = 1 not(TMP\_162) = 0 TMP\_163 = 1 not(TMP\_163) = 0 TMP\_164 = 2 TMP\_165 = 0 not(TMP\_165) = 1 TMP\_166 = 0 not(TMP\_166) = 1 TMP\_167 = 1 not(TMP\_167) = 0 TMP\_168 = 1 not(TMP\_168) = 0 TMP\_169 = 1 not(TMP\_169) = 0 TMP\_170 = 2 TMP\_171 = 0 not(TMP\_171) = 1 TMP\_172 = 1 not(TMP\_172) = 0 TMP\_173 = 1 not(TMP\_173) = 0 TMP\_174 = 1 not(TMP\_174) = 0 TMP\_175 = 1 not(TMP\_175) = 0 TMP\_176 = 1 not(TMP\_176) = 0 TMP\_177 = 5 TMP\_178 = 0 not(TMP\_178) = 1 TMP\_179 = 0 not(TMP\_179) = 1 TMP\_180 = 0 TMP\_181 = 1 not(TMP\_181) = 0 TMP\_182 = 1 not(TMP\_182) = 0 TMP\_183 = 2 TMP\_184 = 0 not(TMP\_184) = 1 TMP\_185 = 0 not(TMP\_185) = 1 TMP\_186 = 1 not(TMP\_186) = 0 TMP\_187 = 1 not(TMP\_187) = 0 TMP\_188 = 1 not(TMP\_188) = 0 TMP\_189 = 2 TMP\_190 = 0 not(TMP\_190) = 1 TMP\_191 = 1 not(TMP\_191) = 0 TMP\_192 = 1 not(TMP\_192) = 0 TMP\_193 = 1 not(TMP\_193) = 0 TMP\_194 = 1 not(TMP\_194) = 0 TMP\_195 = 1 not(TMP\_195) = 0 TMP\_196 = 5 TMP\_197 = 0 not(TMP\_197) = 1 TMP\_198 = 0 not(TMP\_198) = 1 TMP\_199 = 0 TMP\_200 = 1 not(TMP\_200) = 0 TMP\_201 = 1 not(TMP\_201) = 0 TMP\_202 = 2 TMP\_203 = 0 not(TMP\_203) = 1 TMP\_204 = 0 not(TMP\_204) = 1 TMP\_205 = 1 not(TMP\_205) = 0 TMP\_206 = 1 not(TMP\_206) = 0 TMP\_207 = 1 not(TMP\_207) = 0 TMP\_208 = 2 TMP\_209 = 1 not(TMP\_209) = 0 TMP\_210 = 1 not(TMP\_210) = 0 TMP\_211 = 1 not(TMP\_211) = 0 TMP\_212 = 1 not(TMP\_212) = 0 TMP\_213 = 0 not(TMP\_213) = 1 TMP\_214 = 1 not(TMP\_214) = 0 TMP\_215 = 5 TMP\_216 = 0 not(TMP\_216) = 1 TMP\_217 = 0 not(TMP\_217) = 1 TMP\_218 = 0 TMP\_219 = 1 not(TMP\_219) = 0 TMP\_220 = 1 not(TMP\_220) = 0 TMP\_221 = 2 TMP\_222 = 0 not(TMP\_222) = 1 TMP\_223 = 0 not(TMP\_223) = 1 TMP\_224 = 1 not(TMP\_224) = 0 TMP\_225 = 1 not(TMP\_225) = 0 TMP\_226 = 1 not(TMP\_226) = 0 TMP\_227 = 2 Area\_0 = 60 Distance\_0\_Rule\_0 = 20 Distance\_1\_Rule\_0 = 3 Distance\_2\_Rule\_0 = 1 Area\_1 = 174 Distance\_0\_Rule\_1 = 58 Distance\_1\_Rule\_1 = 3 Distance\_2\_Rule\_1 = 1 Area\_2 = 3 -(Rule\_2\_LB) = -20 Distance\_0\_Rule\_2 = 1 -(Rule\_2\_LB) = 0 Distance\_1\_Rule\_2 = 3 -(Rule\_2\_LB) = -1 Distance\_2\_Rule\_2 = 1 Area\_3 = 360 -(Rule\_3\_LB) = 0 Distance\_0\_Rule\_3 = 120 -(Rule\_3\_LB) = 0 Distance\_1\_Rule\_3 = 3 -(Rule\_3\_LB) = 0 Distance\_2\_Rule\_3 = 1 Area\_4 = 123 -(Rule\_4\_LB) = -79 Distance\_0\_Rule\_4 = 41 -(Rule\_4\_LB) = 0 Distance\_1\_Rule\_4 = 3 -(Rule\_4\_LB) = -1 Distance\_2\_Rule\_4 = 1 TMP\_228 = 720 .

- Solution #15 found. 15 Solutions, Resolution 0.487s, 771 Nodes (1,582.3 n/s), 1479 Backtracks, 733 Fails, 0 Restarts

Rule\_2\_LB = 20 Rule\_2\_UB = 21 Rule\_2\_LB = 0 Rule\_2\_UB = 3 Rule\_2\_LB = 1 Rule\_2\_UB = 2 Rule\_3\_LB = 0 Rule\_3\_UB = 120 Rule\_3\_LB = 0 Rule\_3\_UB = 3 Rule\_3\_LB = 0 Rule\_3\_UB = 1 Rule\_4\_LB = 79 Rule\_4\_UB = 120 Rule\_4\_LB = 0 Rule\_4\_UB = 3 Rule\_4\_LB = 1 Rule\_4\_UB = 2 Overlaps\_0\_0 = 0 Overlaps\_0\_1 = 1 Overlaps\_0\_2 = 0 Overlaps\_0\_3 = 0 Overlaps\_0\_4 = 0 Overlaps\_1\_0 = 0 Overlaps\_1\_1 = 0 Overlaps\_1\_2 = 0 Overlaps\_1\_3 = 0 Overlaps\_1\_4 = 0 Overlaps\_2\_0 = 0 Overlaps\_2\_1 = 0 Overlaps\_2\_2 = 0 Overlaps\_2\_3 = 0 Overlaps\_2\_4 = 0 Overlaps\_3\_0 = 0 Overlaps\_3\_1 = 0 Overlaps\_3\_2 = 0 Overlaps\_3\_3 = 0 Overlaps\_3\_4 = 0 Overlaps\_4\_0 = 0 Overlaps\_4\_1 = 0 Overlaps\_4\_2 = 0 Overlaps\_4\_3 = 0 Overlaps\_4\_4 = 0 TMP\_0 = 0 not(TMP\_0) = 1 TMP\_1 = 1 not(TMP\_1) = 0 TMP\_2 = 1 not(TMP\_2) = 0 TMP\_3 = 1 not(TMP\_3) = 0 TMP\_4 = 1 not(TMP\_4) = 0 TMP\_5 = 1 not(TMP\_5) = 0 TMP\_6 = 5 TMP\_7 = 0 not(TMP\_7) = 1 TMP\_8 = 0 not(TMP\_8) = 1 TMP\_9 = 0 TMP\_10 = 1 not(TMP\_10) = 0 TMP\_11 = 1 not(TMP\_11) = 0 TMP\_12 = 2 TMP\_13 = 0 not(TMP\_13) = 1 TMP\_14 = 0 not(TMP\_14) = 1 TMP\_15 = 1 not(TMP\_15) = 0 TMP\_16 = 1 not(TMP\_16) = 0 TMP\_17 = 1 not(TMP\_17) = 0 TMP\_18 = 2 TMP\_19 = 1 not(TMP\_19) = 0 TMP\_20 = 0 not(TMP\_20) = 1 TMP\_21 = 1 not(TMP\_21) = 0 TMP\_22 = 1 not(TMP\_22) = 0 TMP\_23 = 1 not(TMP\_23) = 0 TMP\_24 = 1 not(TMP\_24) = 0 TMP\_25 = 5 TMP\_26 = 0 not(TMP\_26) = 1 TMP\_27 = 0 not(TMP\_27) = 1 TMP\_28 = 0 TMP\_29 = 1 not(TMP\_29) = 0 TMP\_30 = 1 not(TMP\_30) = 0 TMP\_31 = 2 TMP\_32 = 0 not(TMP\_32) = 1 TMP\_33 = 0 not(TMP\_33) = 1 TMP\_34 = 1 not(TMP\_34) = 0 TMP\_35 = 1 not(TMP\_35) = 0 TMP\_36 = 1 not(TMP\_36) = 0 TMP\_37 = 2 TMP\_38 = 1 not(TMP\_38) = 0 TMP\_39 = 1 not(TMP\_39) = 0 TMP\_40 = 1 not(TMP\_40) = 0 TMP\_41 = 1 not(TMP\_41) = 0 TMP\_42 = 0 not(TMP\_42) = 1 TMP\_43 = 1 not(TMP\_43) = 0 TMP\_44 = 5 TMP\_45 = 0 not(TMP\_45) = 1 TMP\_46 = 0 not(TMP\_46) = 1 TMP\_47 = 0 TMP\_48 = 1 not(TMP\_48) = 0 TMP\_49 = 1 not(TMP\_49) = 0 TMP\_50 = 2 TMP\_51 = 0 not(TMP\_51) = 1 TMP\_52 = 0 not(TMP\_52) = 1 TMP\_53 = 1 not(TMP\_53) = 0 TMP\_54 = 1 not(TMP\_54) = 0 TMP\_55 = 1 not(TMP\_55) = 0 TMP\_56 = 2 TMP\_57 = 1 not(TMP\_57) = 0 TMP\_58 = 0 not(TMP\_58) = 1 TMP\_59 = 1 not(TMP\_59) = 0 TMP\_60 = 1 not(TMP\_60) = 0 TMP\_61 = 1 not(TMP\_61) = 0 TMP\_62 = 1 not(TMP\_62) = 0 TMP\_63 = 5 TMP\_64 = 0 not(TMP\_64) = 1 TMP\_65 = 0 not(TMP\_65) = 1 TMP\_66 = 0 TMP\_67 = 1 not(TMP\_67) = 0 TMP\_68 = 1 not(TMP\_68) = 0 TMP\_69 = 2 TMP\_70 = 0 not(TMP\_70) = 1 TMP\_71 = 0 not(TMP\_71) = 1 TMP\_72 = 1 not(TMP\_72) = 0 TMP\_73 = 1 not(TMP\_73) = 0 TMP\_74 = 1 not(TMP\_74) = 0 TMP\_75 = 2 TMP\_76 = 1 not(TMP\_76) = 0 TMP\_77 = 1 not(TMP\_77) = 0 TMP\_78 = 1 not(TMP\_78) = 0 TMP\_79 = 1 not(TMP\_79) = 0 TMP\_80 = 1 not(TMP\_80) = 0 TMP\_81 = 0 not(TMP\_81) = 1 TMP\_82 = 5 TMP\_83 = 0 not(TMP\_83) = 1 TMP\_84 = 0 not(TMP\_84) = 1 TMP\_85 = 0 TMP\_86 = 1 not(TMP\_86) = 0 TMP\_87 = 1 not(TMP\_87) = 0 TMP\_88 = 2 TMP\_89 = 0 not(TMP\_89) = 1 TMP\_90 = 0 not(TMP\_90) = 1 TMP\_91 = 1 not(TMP\_91) = 0 TMP\_92 = 1 not(TMP\_92) = 0 TMP\_93 = 1 not(TMP\_93) = 0 TMP\_94 = 2 TMP\_95 = 1 not(TMP\_95) = 0 TMP\_96 = 1 not(TMP\_96) = 0 TMP\_97 = 1 not(TMP\_97) = 0 TMP\_98 = 1 not(TMP\_98) = 0 TMP\_99 = 1 not(TMP\_99) = 0 TMP\_100 = 0 not(TMP\_100) = 1 TMP\_101 = 5 TMP\_102 = 0 not(TMP\_102) = 1 TMP\_103 = 0 not(TMP\_103) = 1 TMP\_104 = 0 TMP\_105 = 1 not(TMP\_105) = 0 TMP\_106 = 1 not(TMP\_106) = 0 TMP\_107 = 2 TMP\_108 = 0 not(TMP\_108) = 1 TMP\_109 = 0 not(TMP\_109) = 1 TMP\_110 = 1 not(TMP\_110) = 0 TMP\_111 = 1 not(TMP\_111) = 0 TMP\_112 = 1 not(TMP\_112) = 0 TMP\_113 = 2 TMP\_114 = 1 not(TMP\_114) = 0 TMP\_115 = 1 not(TMP\_115) = 0 TMP\_116 = 1 not(TMP\_116) = 0 TMP\_117 = 1 not(TMP\_117) = 0 TMP\_118 = 1 not(TMP\_118) = 0 TMP\_119 = 0 not(TMP\_119) = 1 TMP\_120 = 5 TMP\_121 = 0 not(TMP\_121) = 1 TMP\_122 = 0 not(TMP\_122) = 1 TMP\_123 = 0 TMP\_124 = 1 not(TMP\_124) = 0 TMP\_125 = 1 not(TMP\_125) = 0 TMP\_126 = 2 TMP\_127 = 0 not(TMP\_127) = 1 TMP\_128 = 0 not(TMP\_128) = 1 TMP\_129 = 1 not(TMP\_129) = 0 TMP\_130 = 1 not(TMP\_130) = 0 TMP\_131 = 1 not(TMP\_131) = 0 TMP\_132 = 2 TMP\_133 = 1 not(TMP\_133) = 0 TMP\_134 = 1 not(TMP\_134) = 0 TMP\_135 = 1 not(TMP\_135) = 0 TMP\_136 = 1 not(TMP\_136) = 0 TMP\_137 = 1 not(TMP\_137) = 0 TMP\_138 = 0 not(TMP\_138) = 1 TMP\_139 = 5 TMP\_140 = 0 not(TMP\_140) = 1 TMP\_141 = 0 not(TMP\_141) = 1 TMP\_142 = 0 TMP\_143 = 1 not(TMP\_143) = 0 TMP\_144 = 1 not(TMP\_144) = 0 TMP\_145 = 2 TMP\_146 = 0 not(TMP\_146) = 1 TMP\_147 = 0 not(TMP\_147) = 1 TMP\_148 = 1 not(TMP\_148) = 0 TMP\_149 = 1 not(TMP\_149) = 0 TMP\_150 = 1 not(TMP\_150) = 0 TMP\_151 = 2 TMP\_152 = 0 not(TMP\_152) = 1 TMP\_153 = 1 not(TMP\_153) = 0 TMP\_154 = 1 not(TMP\_154) = 0 TMP\_155 = 1 not(TMP\_155) = 0 TMP\_156 = 1 not(TMP\_156) = 0 TMP\_157 = 1 not(TMP\_157) = 0 TMP\_158 = 5 TMP\_159 = 0 not(TMP\_159) = 1 TMP\_160 = 0 not(TMP\_160) = 1 TMP\_161 = 0 TMP\_162 = 1 not(TMP\_162) = 0 TMP\_163 = 1 not(TMP\_163) = 0 TMP\_164 = 2 TMP\_165 = 0 not(TMP\_165) = 1 TMP\_166 = 0 not(TMP\_166) = 1 TMP\_167 = 1 not(TMP\_167) = 0 TMP\_168 = 1 not(TMP\_168) = 0 TMP\_169 = 1 not(TMP\_169) = 0 TMP\_170 = 2 TMP\_171 = 0 not(TMP\_171) = 1 TMP\_172 = 1 not(TMP\_172) = 0 TMP\_173 = 1 not(TMP\_173) = 0 TMP\_174 = 1 not(TMP\_174) = 0 TMP\_175 = 1 not(TMP\_175) = 0 TMP\_176 = 1 not(TMP\_176) = 0 TMP\_177 = 5 TMP\_178 = 0 not(TMP\_178) = 1 TMP\_179 = 0 not(TMP\_179) = 1 TMP\_180 = 0 TMP\_181 = 1 not(TMP\_181) = 0 TMP\_182 = 1 not(TMP\_182) = 0 TMP\_183 = 2 TMP\_184 = 0 not(TMP\_184) = 1 TMP\_185 = 0 not(TMP\_185) = 1 TMP\_186 = 1 not(TMP\_186) = 0 TMP\_187 = 1 not(TMP\_187) = 0 TMP\_188 = 1 not(TMP\_188) = 0 TMP\_189 = 2 TMP\_190 = 0 not(TMP\_190) = 1 TMP\_191 = 1 not(TMP\_191) = 0 TMP\_192 = 1 not(TMP\_192) = 0 TMP\_193 = 1 not(TMP\_193) = 0 TMP\_194 = 1 not(TMP\_194) = 0 TMP\_195 = 1 not(TMP\_195) = 0 TMP\_196 = 5 TMP\_197 = 0 not(TMP\_197) = 1 TMP\_198 = 0 not(TMP\_198) = 1 TMP\_199 = 0 TMP\_200 = 1 not(TMP\_200) = 0 TMP\_201 = 1 not(TMP\_201) = 0 TMP\_202 = 2 TMP\_203 = 0 not(TMP\_203) = 1 TMP\_204 = 0 not(TMP\_204) = 1 TMP\_205 = 1 not(TMP\_205) = 0 TMP\_206 = 1 not(TMP\_206) = 0 TMP\_207 = 1 not(TMP\_207) = 0 TMP\_208 = 2 TMP\_209 = 1 not(TMP\_209) = 0 TMP\_210 = 1 not(TMP\_210) = 0 TMP\_211 = 1 not(TMP\_211) = 0 TMP\_212 = 1 not(TMP\_212) = 0 TMP\_213 = 0 not(TMP\_213) = 1 TMP\_214 = 1 not(TMP\_214) = 0 TMP\_215 = 5 TMP\_216 = 0 not(TMP\_216) = 1 TMP\_217 = 0 not(TMP\_217) = 1 TMP\_218 = 0 TMP\_219 = 1 not(TMP\_219) = 0 TMP\_220 = 1 not(TMP\_220) = 0 TMP\_221 = 2 TMP\_222 = 0 not(TMP\_222) = 1 TMP\_223 = 0 not(TMP\_223) = 1 TMP\_224 = 1 not(TMP\_224) = 0 TMP\_225 = 1 not(TMP\_225) = 0 TMP\_226 = 1 not(TMP\_226) = 0 TMP\_227 = 2 Area\_0 = 60 Distance\_0\_Rule\_0 = 20 Distance\_1\_Rule\_0 = 3 Distance\_2\_Rule\_0 = 1 Area\_1 = 174 Distance\_0\_Rule\_1 = 58 Distance\_1\_Rule\_1 = 3 Distance\_2\_Rule\_1 = 1 Area\_2 = 3 -(Rule\_2\_LB) = -20 Distance\_0\_Rule\_2 = 1 -(Rule\_2\_LB) = 0 Distance\_1\_Rule\_2 = 3 -(Rule\_2\_LB) = -1 Distance\_2\_Rule\_2 = 1 Area\_3 = 360 -(Rule\_3\_LB) = 0 Distance\_0\_Rule\_3 = 120 -(Rule\_3\_LB) = 0 Distance\_1\_Rule\_3 = 3 -(Rule\_3\_LB) = 0 Distance\_2\_Rule\_3 = 1 Area\_4 = 123 -(Rule\_4\_LB) = -79 Distance\_0\_Rule\_4 = 41 -(Rule\_4\_LB) = 0 Distance\_1\_Rule\_4 = 3 -(Rule\_4\_LB) = -1 Distance\_2\_Rule\_4 = 1 TMP\_228 = 720 .

- Solution #16 found. 16 Solutions, Resolution 0.490s, 772 Nodes (1,576.8 n/s), 1480 Backtracks, 733 Fails, 0 Restarts

Rule\_2\_LB = 20 Rule\_2\_UB = 21 Rule\_2\_LB = 0 Rule\_2\_UB = 3 Rule\_2\_LB = 1 Rule\_2\_UB = 2 Rule\_3\_LB = 0 Rule\_3\_UB = 120 Rule\_3\_LB = 0 Rule\_3\_UB = 3 Rule\_3\_LB = 0 Rule\_3\_UB = 1 Rule\_4\_LB = 79 Rule\_4\_UB = 120 Rule\_4\_LB = 0 Rule\_4\_UB = 3 Rule\_4\_LB = 1 Rule\_4\_UB = 2 Overlaps\_0\_0 = 0 Overlaps\_0\_1 = 1 Overlaps\_0\_2 = 0 Overlaps\_0\_3 = 0 Overlaps\_0\_4 = 0 Overlaps\_1\_0 = 1 Overlaps\_1\_1 = 0 Overlaps\_1\_2 = 0 Overlaps\_1\_3 = 0 Overlaps\_1\_4 = 0 Overlaps\_2\_0 = 0 Overlaps\_2\_1 = 0 Overlaps\_2\_2 = 0 Overlaps\_2\_3 = 0 Overlaps\_2\_4 = 0 Overlaps\_3\_0 = 0 Overlaps\_3\_1 = 0 Overlaps\_3\_2 = 0 Overlaps\_3\_3 = 0 Overlaps\_3\_4 = 0 Overlaps\_4\_0 = 0 Overlaps\_4\_1 = 0 Overlaps\_4\_2 = 0 Overlaps\_4\_3 = 0 Overlaps\_4\_4 = 0 TMP\_0 = 0 not(TMP\_0) = 1 TMP\_1 = 1 not(TMP\_1) = 0 TMP\_2 = 1 not(TMP\_2) = 0 TMP\_3 = 1 not(TMP\_3) = 0 TMP\_4 = 1 not(TMP\_4) = 0 TMP\_5 = 1 not(TMP\_5) = 0 TMP\_6 = 5 TMP\_7 = 0 not(TMP\_7) = 1 TMP\_8 = 0 not(TMP\_8) = 1 TMP\_9 = 0 TMP\_10 = 1 not(TMP\_10) = 0 TMP\_11 = 1 not(TMP\_11) = 0 TMP\_12 = 2 TMP\_13 = 0 not(TMP\_13) = 1 TMP\_14 = 0 not(TMP\_14) = 1 TMP\_15 = 1 not(TMP\_15) = 0 TMP\_16 = 1 not(TMP\_16) = 0 TMP\_17 = 1 not(TMP\_17) = 0 TMP\_18 = 2 TMP\_19 = 1 not(TMP\_19) = 0 TMP\_20 = 0 not(TMP\_20) = 1 TMP\_21 = 1 not(TMP\_21) = 0 TMP\_22 = 1 not(TMP\_22) = 0 TMP\_23 = 1 not(TMP\_23) = 0 TMP\_24 = 1 not(TMP\_24) = 0 TMP\_25 = 5 TMP\_26 = 0 not(TMP\_26) = 1 TMP\_27 = 0 not(TMP\_27) = 1 TMP\_28 = 0 TMP\_29 = 1 not(TMP\_29) = 0 TMP\_30 = 1 not(TMP\_30) = 0 TMP\_31 = 2 TMP\_32 = 0 not(TMP\_32) = 1 TMP\_33 = 0 not(TMP\_33) = 1 TMP\_34 = 1 not(TMP\_34) = 0 TMP\_35 = 1 not(TMP\_35) = 0 TMP\_36 = 1 not(TMP\_36) = 0 TMP\_37 = 2 TMP\_38 = 1 not(TMP\_38) = 0 TMP\_39 = 1 not(TMP\_39) = 0 TMP\_40 = 1 not(TMP\_40) = 0 TMP\_41 = 1 not(TMP\_41) = 0 TMP\_42 = 0 not(TMP\_42) = 1 TMP\_43 = 1 not(TMP\_43) = 0 TMP\_44 = 5 TMP\_45 = 0 not(TMP\_45) = 1 TMP\_46 = 0 not(TMP\_46) = 1 TMP\_47 = 0 TMP\_48 = 1 not(TMP\_48) = 0 TMP\_49 = 1 not(TMP\_49) = 0 TMP\_50 = 2 TMP\_51 = 0 not(TMP\_51) = 1 TMP\_52 = 0 not(TMP\_52) = 1 TMP\_53 = 1 not(TMP\_53) = 0 TMP\_54 = 1 not(TMP\_54) = 0 TMP\_55 = 1 not(TMP\_55) = 0 TMP\_56 = 2 TMP\_57 = 1 not(TMP\_57) = 0 TMP\_58 = 0 not(TMP\_58) = 1 TMP\_59 = 1 not(TMP\_59) = 0 TMP\_60 = 1 not(TMP\_60) = 0 TMP\_61 = 1 not(TMP\_61) = 0 TMP\_62 = 1 not(TMP\_62) = 0 TMP\_63 = 5 TMP\_64 = 0 not(TMP\_64) = 1 TMP\_65 = 0 not(TMP\_65) = 1 TMP\_66 = 0 TMP\_67 = 1 not(TMP\_67) = 0 TMP\_68 = 1 not(TMP\_68) = 0 TMP\_69 = 2 TMP\_70 = 0 not(TMP\_70) = 1 TMP\_71 = 0 not(TMP\_71) = 1 TMP\_72 = 1 not(TMP\_72) = 0 TMP\_73 = 1 not(TMP\_73) = 0 TMP\_74 = 1 not(TMP\_74) = 0 TMP\_75 = 2 TMP\_76 = 1 not(TMP\_76) = 0 TMP\_77 = 1 not(TMP\_77) = 0 TMP\_78 = 1 not(TMP\_78) = 0 TMP\_79 = 1 not(TMP\_79) = 0 TMP\_80 = 1 not(TMP\_80) = 0 TMP\_81 = 0 not(TMP\_81) = 1 TMP\_82 = 5 TMP\_83 = 0 not(TMP\_83) = 1 TMP\_84 = 0 not(TMP\_84) = 1 TMP\_85 = 0 TMP\_86 = 1 not(TMP\_86) = 0 TMP\_87 = 1 not(TMP\_87) = 0 TMP\_88 = 2 TMP\_89 = 0 not(TMP\_89) = 1 TMP\_90 = 0 not(TMP\_90) = 1 TMP\_91 = 1 not(TMP\_91) = 0 TMP\_92 = 1 not(TMP\_92) = 0 TMP\_93 = 1 not(TMP\_93) = 0 TMP\_94 = 2 TMP\_95 = 1 not(TMP\_95) = 0 TMP\_96 = 1 not(TMP\_96) = 0 TMP\_97 = 1 not(TMP\_97) = 0 TMP\_98 = 1 not(TMP\_98) = 0 TMP\_99 = 1 not(TMP\_99) = 0 TMP\_100 = 0 not(TMP\_100) = 1 TMP\_101 = 5 TMP\_102 = 0 not(TMP\_102) = 1 TMP\_103 = 0 not(TMP\_103) = 1 TMP\_104 = 0 TMP\_105 = 1 not(TMP\_105) = 0 TMP\_106 = 1 not(TMP\_106) = 0 TMP\_107 = 2 TMP\_108 = 0 not(TMP\_108) = 1 TMP\_109 = 0 not(TMP\_109) = 1 TMP\_110 = 1 not(TMP\_110) = 0 TMP\_111 = 1 not(TMP\_111) = 0 TMP\_112 = 1 not(TMP\_112) = 0 TMP\_113 = 2 TMP\_114 = 1 not(TMP\_114) = 0 TMP\_115 = 1 not(TMP\_115) = 0 TMP\_116 = 1 not(TMP\_116) = 0 TMP\_117 = 1 not(TMP\_117) = 0 TMP\_118 = 1 not(TMP\_118) = 0 TMP\_119 = 0 not(TMP\_119) = 1 TMP\_120 = 5 TMP\_121 = 0 not(TMP\_121) = 1 TMP\_122 = 0 not(TMP\_122) = 1 TMP\_123 = 0 TMP\_124 = 1 not(TMP\_124) = 0 TMP\_125 = 1 not(TMP\_125) = 0 TMP\_126 = 2 TMP\_127 = 0 not(TMP\_127) = 1 TMP\_128 = 0 not(TMP\_128) = 1 TMP\_129 = 1 not(TMP\_129) = 0 TMP\_130 = 1 not(TMP\_130) = 0 TMP\_131 = 1 not(TMP\_131) = 0 TMP\_132 = 2 TMP\_133 = 1 not(TMP\_133) = 0 TMP\_134 = 1 not(TMP\_134) = 0 TMP\_135 = 1 not(TMP\_135) = 0 TMP\_136 = 1 not(TMP\_136) = 0 TMP\_137 = 1 not(TMP\_137) = 0 TMP\_138 = 0 not(TMP\_138) = 1 TMP\_139 = 5 TMP\_140 = 0 not(TMP\_140) = 1 TMP\_141 = 0 not(TMP\_141) = 1 TMP\_142 = 0 TMP\_143 = 1 not(TMP\_143) = 0 TMP\_144 = 1 not(TMP\_144) = 0 TMP\_145 = 2 TMP\_146 = 0 not(TMP\_146) = 1 TMP\_147 = 0 not(TMP\_147) = 1 TMP\_148 = 1 not(TMP\_148) = 0 TMP\_149 = 1 not(TMP\_149) = 0 TMP\_150 = 1 not(TMP\_150) = 0 TMP\_151 = 2 TMP\_152 = 0 not(TMP\_152) = 1 TMP\_153 = 1 not(TMP\_153) = 0 TMP\_154 = 1 not(TMP\_154) = 0 TMP\_155 = 1 not(TMP\_155) = 0 TMP\_156 = 1 not(TMP\_156) = 0 TMP\_157 = 1 not(TMP\_157) = 0 TMP\_158 = 5 TMP\_159 = 0 not(TMP\_159) = 1 TMP\_160 = 0 not(TMP\_160) = 1 TMP\_161 = 0 TMP\_162 = 1 not(TMP\_162) = 0 TMP\_163 = 1 not(TMP\_163) = 0 TMP\_164 = 2 TMP\_165 = 0 not(TMP\_165) = 1 TMP\_166 = 0 not(TMP\_166) = 1 TMP\_167 = 1 not(TMP\_167) = 0 TMP\_168 = 1 not(TMP\_168) = 0 TMP\_169 = 1 not(TMP\_169) = 0 TMP\_170 = 2 TMP\_171 = 0 not(TMP\_171) = 1 TMP\_172 = 1 not(TMP\_172) = 0 TMP\_173 = 1 not(TMP\_173) = 0 TMP\_174 = 1 not(TMP\_174) = 0 TMP\_175 = 1 not(TMP\_175) = 0 TMP\_176 = 1 not(TMP\_176) = 0 TMP\_177 = 5 TMP\_178 = 0 not(TMP\_178) = 1 TMP\_179 = 0 not(TMP\_179) = 1 TMP\_180 = 0 TMP\_181 = 1 not(TMP\_181) = 0 TMP\_182 = 1 not(TMP\_182) = 0 TMP\_183 = 2 TMP\_184 = 0 not(TMP\_184) = 1 TMP\_185 = 0 not(TMP\_185) = 1 TMP\_186 = 1 not(TMP\_186) = 0 TMP\_187 = 1 not(TMP\_187) = 0 TMP\_188 = 1 not(TMP\_188) = 0 TMP\_189 = 2 TMP\_190 = 0 not(TMP\_190) = 1 TMP\_191 = 1 not(TMP\_191) = 0 TMP\_192 = 1 not(TMP\_192) = 0 TMP\_193 = 1 not(TMP\_193) = 0 TMP\_194 = 1 not(TMP\_194) = 0 TMP\_195 = 1 not(TMP\_195) = 0 TMP\_196 = 5 TMP\_197 = 0 not(TMP\_197) = 1 TMP\_198 = 0 not(TMP\_198) = 1 TMP\_199 = 0 TMP\_200 = 1 not(TMP\_200) = 0 TMP\_201 = 1 not(TMP\_201) = 0 TMP\_202 = 2 TMP\_203 = 0 not(TMP\_203) = 1 TMP\_204 = 0 not(TMP\_204) = 1 TMP\_205 = 1 not(TMP\_205) = 0 TMP\_206 = 1 not(TMP\_206) = 0 TMP\_207 = 1 not(TMP\_207) = 0 TMP\_208 = 2 TMP\_209 = 1 not(TMP\_209) = 0 TMP\_210 = 1 not(TMP\_210) = 0 TMP\_211 = 1 not(TMP\_211) = 0 TMP\_212 = 1 not(TMP\_212) = 0 TMP\_213 = 0 not(TMP\_213) = 1 TMP\_214 = 1 not(TMP\_214) = 0 TMP\_215 = 5 TMP\_216 = 0 not(TMP\_216) = 1 TMP\_217 = 0 not(TMP\_217) = 1 TMP\_218 = 0 TMP\_219 = 1 not(TMP\_219) = 0 TMP\_220 = 1 not(TMP\_220) = 0 TMP\_221 = 2 TMP\_222 = 0 not(TMP\_222) = 1 TMP\_223 = 0 not(TMP\_223) = 1 TMP\_224 = 1 not(TMP\_224) = 0 TMP\_225 = 1 not(TMP\_225) = 0 TMP\_226 = 1 not(TMP\_226) = 0 TMP\_227 = 2 Area\_0 = 60 Distance\_0\_Rule\_0 = 20 Distance\_1\_Rule\_0 = 3 Distance\_2\_Rule\_0 = 1 Area\_1 = 174 Distance\_0\_Rule\_1 = 58 Distance\_1\_Rule\_1 = 3 Distance\_2\_Rule\_1 = 1 Area\_2 = 3 -(Rule\_2\_LB) = -20 Distance\_0\_Rule\_2 = 1 -(Rule\_2\_LB) = 0 Distance\_1\_Rule\_2 = 3 -(Rule\_2\_LB) = -1 Distance\_2\_Rule\_2 = 1 Area\_3 = 360 -(Rule\_3\_LB) = 0 Distance\_0\_Rule\_3 = 120 -(Rule\_3\_LB) = 0 Distance\_1\_Rule\_3 = 3 -(Rule\_3\_LB) = 0 Distance\_2\_Rule\_3 = 1 Area\_4 = 123 -(Rule\_4\_LB) = -79 Distance\_0\_Rule\_4 = 41 -(Rule\_4\_LB) = 0 Distance\_1\_Rule\_4 = 3 -(Rule\_4\_LB) = -1 Distance\_2\_Rule\_4 = 1 TMP\_228 = 720 .

- Solution #17 found. 17 Solutions, Resolution 0.584s, 1286 Nodes (2,203.2 n/s), 2517 Backtracks, 1247 Fails, 0 Restarts

Rule\_2\_LB = 79 Rule\_2\_UB = 120 Rule\_2\_LB = 0 Rule\_2\_UB = 3 Rule\_2\_LB = 1 Rule\_2\_UB = 2 Rule\_3\_LB = 0 Rule\_3\_UB = 120 Rule\_3\_LB = 0 Rule\_3\_UB = 3 Rule\_3\_LB = 0 Rule\_3\_UB = 1 Rule\_4\_LB = 20 Rule\_4\_UB = 21 Rule\_4\_LB = 0 Rule\_4\_UB = 3 Rule\_4\_LB = 1 Rule\_4\_UB = 2 Overlaps\_0\_0 = 0 Overlaps\_0\_1 = 0 Overlaps\_0\_2 = 0 Overlaps\_0\_3 = 0 Overlaps\_0\_4 = 0 Overlaps\_1\_0 = 0 Overlaps\_1\_1 = 0 Overlaps\_1\_2 = 0 Overlaps\_1\_3 = 0 Overlaps\_1\_4 = 0 Overlaps\_2\_0 = 0 Overlaps\_2\_1 = 0 Overlaps\_2\_2 = 0 Overlaps\_2\_3 = 0 Overlaps\_2\_4 = 0 Overlaps\_3\_0 = 0 Overlaps\_3\_1 = 0 Overlaps\_3\_2 = 0 Overlaps\_3\_3 = 0 Overlaps\_3\_4 = 0 Overlaps\_4\_0 = 0 Overlaps\_4\_1 = 0 Overlaps\_4\_2 = 0 Overlaps\_4\_3 = 0 Overlaps\_4\_4 = 0 TMP\_0 = 0 not(TMP\_0) = 1 TMP\_1 = 1 not(TMP\_1) = 0 TMP\_2 = 1 not(TMP\_2) = 0 TMP\_3 = 1 not(TMP\_3) = 0 TMP\_4 = 1 not(TMP\_4) = 0 TMP\_5 = 1 not(TMP\_5) = 0 TMP\_6 = 5 TMP\_7 = 0 not(TMP\_7) = 1 TMP\_8 = 0 not(TMP\_8) = 1 TMP\_9 = 0 TMP\_10 = 1 not(TMP\_10) = 0 TMP\_11 = 1 not(TMP\_11) = 0 TMP\_12 = 2 TMP\_13 = 0 not(TMP\_13) = 1 TMP\_14 = 0 not(TMP\_14) = 1 TMP\_15 = 1 not(TMP\_15) = 0 TMP\_16 = 1 not(TMP\_16) = 0 TMP\_17 = 1 not(TMP\_17) = 0 TMP\_18 = 2 TMP\_19 = 0 not(TMP\_19) = 1 TMP\_20 = 1 not(TMP\_20) = 0 TMP\_21 = 1 not(TMP\_21) = 0 TMP\_22 = 1 not(TMP\_22) = 0 TMP\_23 = 1 not(TMP\_23) = 0 TMP\_24 = 1 not(TMP\_24) = 0 TMP\_25 = 5 TMP\_26 = 0 not(TMP\_26) = 1 TMP\_27 = 0 not(TMP\_27) = 1 TMP\_28 = 0 TMP\_29 = 1 not(TMP\_29) = 0 TMP\_30 = 1 not(TMP\_30) = 0 TMP\_31 = 2 TMP\_32 = 0 not(TMP\_32) = 1 TMP\_33 = 0 not(TMP\_33) = 1 TMP\_34 = 1 not(TMP\_34) = 0 TMP\_35 = 1 not(TMP\_35) = 0 TMP\_36 = 1 not(TMP\_36) = 0 TMP\_37 = 2 TMP\_38 = 1 not(TMP\_38) = 0 TMP\_39 = 1 not(TMP\_39) = 0 TMP\_40 = 1 not(TMP\_40) = 0 TMP\_41 = 1 not(TMP\_41) = 0 TMP\_42 = 0 not(TMP\_42) = 1 TMP\_43 = 1 not(TMP\_43) = 0 TMP\_44 = 5 TMP\_45 = 0 not(TMP\_45) = 1 TMP\_46 = 0 not(TMP\_46) = 1 TMP\_47 = 0 TMP\_48 = 1 not(TMP\_48) = 0 TMP\_49 = 1 not(TMP\_49) = 0 TMP\_50 = 2 TMP\_51 = 0 not(TMP\_51) = 1 TMP\_52 = 0 not(TMP\_52) = 1 TMP\_53 = 1 not(TMP\_53) = 0 TMP\_54 = 1 not(TMP\_54) = 0 TMP\_55 = 1 not(TMP\_55) = 0 TMP\_56 = 2 TMP\_57 = 0 not(TMP\_57) = 1 TMP\_58 = 1 not(TMP\_58) = 0 TMP\_59 = 1 not(TMP\_59) = 0 TMP\_60 = 1 not(TMP\_60) = 0 TMP\_61 = 1 not(TMP\_61) = 0 TMP\_62 = 1 not(TMP\_62) = 0 TMP\_63 = 5 TMP\_64 = 0 not(TMP\_64) = 1 TMP\_65 = 0 not(TMP\_65) = 1 TMP\_66 = 0 TMP\_67 = 1 not(TMP\_67) = 0 TMP\_68 = 1 not(TMP\_68) = 0 TMP\_69 = 2 TMP\_70 = 0 not(TMP\_70) = 1 TMP\_71 = 0 not(TMP\_71) = 1 TMP\_72 = 1 not(TMP\_72) = 0 TMP\_73 = 1 not(TMP\_73) = 0 TMP\_74 = 1 not(TMP\_74) = 0 TMP\_75 = 2 TMP\_76 = 1 not(TMP\_76) = 0 TMP\_77 = 1 not(TMP\_77) = 0 TMP\_78 = 1 not(TMP\_78) = 0 TMP\_79 = 1 not(TMP\_79) = 0 TMP\_80 = 1 not(TMP\_80) = 0 TMP\_81 = 0 not(TMP\_81) = 1 TMP\_82 = 5 TMP\_83 = 0 not(TMP\_83) = 1 TMP\_84 = 0 not(TMP\_84) = 1 TMP\_85 = 0 TMP\_86 = 1 not(TMP\_86) = 0 TMP\_87 = 1 not(TMP\_87) = 0 TMP\_88 = 2 TMP\_89 = 0 not(TMP\_89) = 1 TMP\_90 = 0 not(TMP\_90) = 1 TMP\_91 = 1 not(TMP\_91) = 0 TMP\_92 = 1 not(TMP\_92) = 0 TMP\_93 = 1 not(TMP\_93) = 0 TMP\_94 = 2 TMP\_95 = 1 not(TMP\_95) = 0 TMP\_96 = 1 not(TMP\_96) = 0 TMP\_97 = 1 not(TMP\_97) = 0 TMP\_98 = 1 not(TMP\_98) = 0 TMP\_99 = 1 not(TMP\_99) = 0 TMP\_100 = 0 not(TMP\_100) = 1 TMP\_101 = 5 TMP\_102 = 0 not(TMP\_102) = 1 TMP\_103 = 0 not(TMP\_103) = 1 TMP\_104 = 0 TMP\_105 = 1 not(TMP\_105) = 0 TMP\_106 = 1 not(TMP\_106) = 0 TMP\_107 = 2 TMP\_108 = 0 not(TMP\_108) = 1 TMP\_109 = 0 not(TMP\_109) = 1 TMP\_110 = 1 not(TMP\_110) = 0 TMP\_111 = 1 not(TMP\_111) = 0 TMP\_112 = 1 not(TMP\_112) = 0 TMP\_113 = 2 TMP\_114 = 1 not(TMP\_114) = 0 TMP\_115 = 1 not(TMP\_115) = 0 TMP\_116 = 1 not(TMP\_116) = 0 TMP\_117 = 1 not(TMP\_117) = 0 TMP\_118 = 1 not(TMP\_118) = 0 TMP\_119 = 0 not(TMP\_119) = 1 TMP\_120 = 5 TMP\_121 = 0 not(TMP\_121) = 1 TMP\_122 = 0 not(TMP\_122) = 1 TMP\_123 = 0 TMP\_124 = 1 not(TMP\_124) = 0 TMP\_125 = 1 not(TMP\_125) = 0 TMP\_126 = 2 TMP\_127 = 0 not(TMP\_127) = 1 TMP\_128 = 0 not(TMP\_128) = 1 TMP\_129 = 1 not(TMP\_129) = 0 TMP\_130 = 1 not(TMP\_130) = 0 TMP\_131 = 1 not(TMP\_131) = 0 TMP\_132 = 2 TMP\_133 = 1 not(TMP\_133) = 0 TMP\_134 = 1 not(TMP\_134) = 0 TMP\_135 = 1 not(TMP\_135) = 0 TMP\_136 = 1 not(TMP\_136) = 0 TMP\_137 = 1 not(TMP\_137) = 0 TMP\_138 = 0 not(TMP\_138) = 1 TMP\_139 = 5 TMP\_140 = 0 not(TMP\_140) = 1 TMP\_141 = 0 not(TMP\_141) = 1 TMP\_142 = 0 TMP\_143 = 1 not(TMP\_143) = 0 TMP\_144 = 1 not(TMP\_144) = 0 TMP\_145 = 2 TMP\_146 = 0 not(TMP\_146) = 1 TMP\_147 = 0 not(TMP\_147) = 1 TMP\_148 = 1 not(TMP\_148) = 0 TMP\_149 = 1 not(TMP\_149) = 0 TMP\_150 = 1 not(TMP\_150) = 0 TMP\_151 = 2 TMP\_152 = 0 not(TMP\_152) = 1 TMP\_153 = 1 not(TMP\_153) = 0 TMP\_154 = 1 not(TMP\_154) = 0 TMP\_155 = 1 not(TMP\_155) = 0 TMP\_156 = 1 not(TMP\_156) = 0 TMP\_157 = 1 not(TMP\_157) = 0 TMP\_158 = 5 TMP\_159 = 0 not(TMP\_159) = 1 TMP\_160 = 0 not(TMP\_160) = 1 TMP\_161 = 0 TMP\_162 = 1 not(TMP\_162) = 0 TMP\_163 = 1 not(TMP\_163) = 0 TMP\_164 = 2 TMP\_165 = 0 not(TMP\_165) = 1 TMP\_166 = 0 not(TMP\_166) = 1 TMP\_167 = 1 not(TMP\_167) = 0 TMP\_168 = 1 not(TMP\_168) = 0 TMP\_169 = 1 not(TMP\_169) = 0 TMP\_170 = 2 TMP\_171 = 1 not(TMP\_171) = 0 TMP\_172 = 0 not(TMP\_172) = 1 TMP\_173 = 1 not(TMP\_173) = 0 TMP\_174 = 1 not(TMP\_174) = 0 TMP\_175 = 1 not(TMP\_175) = 0 TMP\_176 = 1 not(TMP\_176) = 0 TMP\_177 = 5 TMP\_178 = 0 not(TMP\_178) = 1 TMP\_179 = 0 not(TMP\_179) = 1 TMP\_180 = 0 TMP\_181 = 1 not(TMP\_181) = 0 TMP\_182 = 1 not(TMP\_182) = 0 TMP\_183 = 2 TMP\_184 = 0 not(TMP\_184) = 1 TMP\_185 = 0 not(TMP\_185) = 1 TMP\_186 = 1 not(TMP\_186) = 0 TMP\_187 = 1 not(TMP\_187) = 0 TMP\_188 = 1 not(TMP\_188) = 0 TMP\_189 = 2 TMP\_190 = 1 not(TMP\_190) = 0 TMP\_191 = 0 not(TMP\_191) = 1 TMP\_192 = 1 not(TMP\_192) = 0 TMP\_193 = 1 not(TMP\_193) = 0 TMP\_194 = 1 not(TMP\_194) = 0 TMP\_195 = 1 not(TMP\_195) = 0 TMP\_196 = 5 TMP\_197 = 0 not(TMP\_197) = 1 TMP\_198 = 0 not(TMP\_198) = 1 TMP\_199 = 0 TMP\_200 = 1 not(TMP\_200) = 0 TMP\_201 = 1 not(TMP\_201) = 0 TMP\_202 = 2 TMP\_203 = 0 not(TMP\_203) = 1 TMP\_204 = 0 not(TMP\_204) = 1 TMP\_205 = 1 not(TMP\_205) = 0 TMP\_206 = 1 not(TMP\_206) = 0 TMP\_207 = 1 not(TMP\_207) = 0 TMP\_208 = 2 TMP\_209 = 1 not(TMP\_209) = 0 TMP\_210 = 1 not(TMP\_210) = 0 TMP\_211 = 1 not(TMP\_211) = 0 TMP\_212 = 1 not(TMP\_212) = 0 TMP\_213 = 0 not(TMP\_213) = 1 TMP\_214 = 1 not(TMP\_214) = 0 TMP\_215 = 5 TMP\_216 = 0 not(TMP\_216) = 1 TMP\_217 = 0 not(TMP\_217) = 1 TMP\_218 = 0 TMP\_219 = 1 not(TMP\_219) = 0 TMP\_220 = 1 not(TMP\_220) = 0 TMP\_221 = 2 TMP\_222 = 0 not(TMP\_222) = 1 TMP\_223 = 0 not(TMP\_223) = 1 TMP\_224 = 1 not(TMP\_224) = 0 TMP\_225 = 1 not(TMP\_225) = 0 TMP\_226 = 1 not(TMP\_226) = 0 TMP\_227 = 2 Area\_0 = 60 Distance\_0\_Rule\_0 = 20 Distance\_1\_Rule\_0 = 3 Distance\_2\_Rule\_0 = 1 Area\_1 = 174 Distance\_0\_Rule\_1 = 58 Distance\_1\_Rule\_1 = 3 Distance\_2\_Rule\_1 = 1 Area\_2 = 123 -(Rule\_2\_LB) = -79 Distance\_0\_Rule\_2 = 41 -(Rule\_2\_LB) = 0 Distance\_1\_Rule\_2 = 3 -(Rule\_2\_LB) = -1 Distance\_2\_Rule\_2 = 1 Area\_3 = 360 -(Rule\_3\_LB) = 0 Distance\_0\_Rule\_3 = 120 -(Rule\_3\_LB) = 0 Distance\_1\_Rule\_3 = 3 -(Rule\_3\_LB) = 0 Distance\_2\_Rule\_3 = 1 Area\_4 = 3 -(Rule\_4\_LB) = -20 Distance\_0\_Rule\_4 = 1 -(Rule\_4\_LB) = 0 Distance\_1\_Rule\_4 = 3 -(Rule\_4\_LB) = -1 Distance\_2\_Rule\_4 = 1 TMP\_228 = 720 .

- Solution #18 found. 18 Solutions, Resolution 0.587s, 1287 Nodes (2,190.9 n/s), 2518 Backtracks, 1247 Fails, 0 Restarts

Rule\_2\_LB = 79 Rule\_2\_UB = 120 Rule\_2\_LB = 0 Rule\_2\_UB = 3 Rule\_2\_LB = 1 Rule\_2\_UB = 2 Rule\_3\_LB = 0 Rule\_3\_UB = 120 Rule\_3\_LB = 0 Rule\_3\_UB = 3 Rule\_3\_LB = 0 Rule\_3\_UB = 1 Rule\_4\_LB = 20 Rule\_4\_UB = 21 Rule\_4\_LB = 0 Rule\_4\_UB = 3 Rule\_4\_LB = 1 Rule\_4\_UB = 2 Overlaps\_0\_0 = 0 Overlaps\_0\_1 = 1 Overlaps\_0\_2 = 0 Overlaps\_0\_3 = 0 Overlaps\_0\_4 = 0 Overlaps\_1\_0 = 0 Overlaps\_1\_1 = 0 Overlaps\_1\_2 = 0 Overlaps\_1\_3 = 0 Overlaps\_1\_4 = 0 Overlaps\_2\_0 = 0 Overlaps\_2\_1 = 0 Overlaps\_2\_2 = 0 Overlaps\_2\_3 = 0 Overlaps\_2\_4 = 0 Overlaps\_3\_0 = 0 Overlaps\_3\_1 = 0 Overlaps\_3\_2 = 0 Overlaps\_3\_3 = 0 Overlaps\_3\_4 = 0 Overlaps\_4\_0 = 0 Overlaps\_4\_1 = 0 Overlaps\_4\_2 = 0 Overlaps\_4\_3 = 0 Overlaps\_4\_4 = 0 TMP\_0 = 0 not(TMP\_0) = 1 TMP\_1 = 1 not(TMP\_1) = 0 TMP\_2 = 1 not(TMP\_2) = 0 TMP\_3 = 1 not(TMP\_3) = 0 TMP\_4 = 1 not(TMP\_4) = 0 TMP\_5 = 1 not(TMP\_5) = 0 TMP\_6 = 5 TMP\_7 = 0 not(TMP\_7) = 1 TMP\_8 = 0 not(TMP\_8) = 1 TMP\_9 = 0 TMP\_10 = 1 not(TMP\_10) = 0 TMP\_11 = 1 not(TMP\_11) = 0 TMP\_12 = 2 TMP\_13 = 0 not(TMP\_13) = 1 TMP\_14 = 0 not(TMP\_14) = 1 TMP\_15 = 1 not(TMP\_15) = 0 TMP\_16 = 1 not(TMP\_16) = 0 TMP\_17 = 1 not(TMP\_17) = 0 TMP\_18 = 2 TMP\_19 = 0 not(TMP\_19) = 1 TMP\_20 = 1 not(TMP\_20) = 0 TMP\_21 = 1 not(TMP\_21) = 0 TMP\_22 = 1 not(TMP\_22) = 0 TMP\_23 = 1 not(TMP\_23) = 0 TMP\_24 = 1 not(TMP\_24) = 0 TMP\_25 = 5 TMP\_26 = 0 not(TMP\_26) = 1 TMP\_27 = 0 not(TMP\_27) = 1 TMP\_28 = 0 TMP\_29 = 1 not(TMP\_29) = 0 TMP\_30 = 1 not(TMP\_30) = 0 TMP\_31 = 2 TMP\_32 = 0 not(TMP\_32) = 1 TMP\_33 = 0 not(TMP\_33) = 1 TMP\_34 = 1 not(TMP\_34) = 0 TMP\_35 = 1 not(TMP\_35) = 0 TMP\_36 = 1 not(TMP\_36) = 0 TMP\_37 = 2 TMP\_38 = 1 not(TMP\_38) = 0 TMP\_39 = 1 not(TMP\_39) = 0 TMP\_40 = 1 not(TMP\_40) = 0 TMP\_41 = 1 not(TMP\_41) = 0 TMP\_42 = 0 not(TMP\_42) = 1 TMP\_43 = 1 not(TMP\_43) = 0 TMP\_44 = 5 TMP\_45 = 0 not(TMP\_45) = 1 TMP\_46 = 0 not(TMP\_46) = 1 TMP\_47 = 0 TMP\_48 = 1 not(TMP\_48) = 0 TMP\_49 = 1 not(TMP\_49) = 0 TMP\_50 = 2 TMP\_51 = 0 not(TMP\_51) = 1 TMP\_52 = 0 not(TMP\_52) = 1 TMP\_53 = 1 not(TMP\_53) = 0 TMP\_54 = 1 not(TMP\_54) = 0 TMP\_55 = 1 not(TMP\_55) = 0 TMP\_56 = 2 TMP\_57 = 0 not(TMP\_57) = 1 TMP\_58 = 1 not(TMP\_58) = 0 TMP\_59 = 1 not(TMP\_59) = 0 TMP\_60 = 1 not(TMP\_60) = 0 TMP\_61 = 1 not(TMP\_61) = 0 TMP\_62 = 1 not(TMP\_62) = 0 TMP\_63 = 5 TMP\_64 = 0 not(TMP\_64) = 1 TMP\_65 = 0 not(TMP\_65) = 1 TMP\_66 = 0 TMP\_67 = 1 not(TMP\_67) = 0 TMP\_68 = 1 not(TMP\_68) = 0 TMP\_69 = 2 TMP\_70 = 0 not(TMP\_70) = 1 TMP\_71 = 0 not(TMP\_71) = 1 TMP\_72 = 1 not(TMP\_72) = 0 TMP\_73 = 1 not(TMP\_73) = 0 TMP\_74 = 1 not(TMP\_74) = 0 TMP\_75 = 2 TMP\_76 = 1 not(TMP\_76) = 0 TMP\_77 = 1 not(TMP\_77) = 0 TMP\_78 = 1 not(TMP\_78) = 0 TMP\_79 = 1 not(TMP\_79) = 0 TMP\_80 = 1 not(TMP\_80) = 0 TMP\_81 = 0 not(TMP\_81) = 1 TMP\_82 = 5 TMP\_83 = 0 not(TMP\_83) = 1 TMP\_84 = 0 not(TMP\_84) = 1 TMP\_85 = 0 TMP\_86 = 1 not(TMP\_86) = 0 TMP\_87 = 1 not(TMP\_87) = 0 TMP\_88 = 2 TMP\_89 = 0 not(TMP\_89) = 1 TMP\_90 = 0 not(TMP\_90) = 1 TMP\_91 = 1 not(TMP\_91) = 0 TMP\_92 = 1 not(TMP\_92) = 0 TMP\_93 = 1 not(TMP\_93) = 0 TMP\_94 = 2 TMP\_95 = 1 not(TMP\_95) = 0 TMP\_96 = 1 not(TMP\_96) = 0 TMP\_97 = 1 not(TMP\_97) = 0 TMP\_98 = 1 not(TMP\_98) = 0 TMP\_99 = 1 not(TMP\_99) = 0 TMP\_100 = 0 not(TMP\_100) = 1 TMP\_101 = 5 TMP\_102 = 0 not(TMP\_102) = 1 TMP\_103 = 0 not(TMP\_103) = 1 TMP\_104 = 0 TMP\_105 = 1 not(TMP\_105) = 0 TMP\_106 = 1 not(TMP\_106) = 0 TMP\_107 = 2 TMP\_108 = 0 not(TMP\_108) = 1 TMP\_109 = 0 not(TMP\_109) = 1 TMP\_110 = 1 not(TMP\_110) = 0 TMP\_111 = 1 not(TMP\_111) = 0 TMP\_112 = 1 not(TMP\_112) = 0 TMP\_113 = 2 TMP\_114 = 1 not(TMP\_114) = 0 TMP\_115 = 1 not(TMP\_115) = 0 TMP\_116 = 1 not(TMP\_116) = 0 TMP\_117 = 1 not(TMP\_117) = 0 TMP\_118 = 1 not(TMP\_118) = 0 TMP\_119 = 0 not(TMP\_119) = 1 TMP\_120 = 5 TMP\_121 = 0 not(TMP\_121) = 1 TMP\_122 = 0 not(TMP\_122) = 1 TMP\_123 = 0 TMP\_124 = 1 not(TMP\_124) = 0 TMP\_125 = 1 not(TMP\_125) = 0 TMP\_126 = 2 TMP\_127 = 0 not(TMP\_127) = 1 TMP\_128 = 0 not(TMP\_128) = 1 TMP\_129 = 1 not(TMP\_129) = 0 TMP\_130 = 1 not(TMP\_130) = 0 TMP\_131 = 1 not(TMP\_131) = 0 TMP\_132 = 2 TMP\_133 = 1 not(TMP\_133) = 0 TMP\_134 = 1 not(TMP\_134) = 0 TMP\_135 = 1 not(TMP\_135) = 0 TMP\_136 = 1 not(TMP\_136) = 0 TMP\_137 = 1 not(TMP\_137) = 0 TMP\_138 = 0 not(TMP\_138) = 1 TMP\_139 = 5 TMP\_140 = 0 not(TMP\_140) = 1 TMP\_141 = 0 not(TMP\_141) = 1 TMP\_142 = 0 TMP\_143 = 1 not(TMP\_143) = 0 TMP\_144 = 1 not(TMP\_144) = 0 TMP\_145 = 2 TMP\_146 = 0 not(TMP\_146) = 1 TMP\_147 = 0 not(TMP\_147) = 1 TMP\_148 = 1 not(TMP\_148) = 0 TMP\_149 = 1 not(TMP\_149) = 0 TMP\_150 = 1 not(TMP\_150) = 0 TMP\_151 = 2 TMP\_152 = 0 not(TMP\_152) = 1 TMP\_153 = 1 not(TMP\_153) = 0 TMP\_154 = 1 not(TMP\_154) = 0 TMP\_155 = 1 not(TMP\_155) = 0 TMP\_156 = 1 not(TMP\_156) = 0 TMP\_157 = 1 not(TMP\_157) = 0 TMP\_158 = 5 TMP\_159 = 0 not(TMP\_159) = 1 TMP\_160 = 0 not(TMP\_160) = 1 TMP\_161 = 0 TMP\_162 = 1 not(TMP\_162) = 0 TMP\_163 = 1 not(TMP\_163) = 0 TMP\_164 = 2 TMP\_165 = 0 not(TMP\_165) = 1 TMP\_166 = 0 not(TMP\_166) = 1 TMP\_167 = 1 not(TMP\_167) = 0 TMP\_168 = 1 not(TMP\_168) = 0 TMP\_169 = 1 not(TMP\_169) = 0 TMP\_170 = 2 TMP\_171 = 1 not(TMP\_171) = 0 TMP\_172 = 0 not(TMP\_172) = 1 TMP\_173 = 1 not(TMP\_173) = 0 TMP\_174 = 1 not(TMP\_174) = 0 TMP\_175 = 1 not(TMP\_175) = 0 TMP\_176 = 1 not(TMP\_176) = 0 TMP\_177 = 5 TMP\_178 = 0 not(TMP\_178) = 1 TMP\_179 = 0 not(TMP\_179) = 1 TMP\_180 = 0 TMP\_181 = 1 not(TMP\_181) = 0 TMP\_182 = 1 not(TMP\_182) = 0 TMP\_183 = 2 TMP\_184 = 0 not(TMP\_184) = 1 TMP\_185 = 0 not(TMP\_185) = 1 TMP\_186 = 1 not(TMP\_186) = 0 TMP\_187 = 1 not(TMP\_187) = 0 TMP\_188 = 1 not(TMP\_188) = 0 TMP\_189 = 2 TMP\_190 = 1 not(TMP\_190) = 0 TMP\_191 = 0 not(TMP\_191) = 1 TMP\_192 = 1 not(TMP\_192) = 0 TMP\_193 = 1 not(TMP\_193) = 0 TMP\_194 = 1 not(TMP\_194) = 0 TMP\_195 = 1 not(TMP\_195) = 0 TMP\_196 = 5 TMP\_197 = 0 not(TMP\_197) = 1 TMP\_198 = 0 not(TMP\_198) = 1 TMP\_199 = 0 TMP\_200 = 1 not(TMP\_200) = 0 TMP\_201 = 1 not(TMP\_201) = 0 TMP\_202 = 2 TMP\_203 = 0 not(TMP\_203) = 1 TMP\_204 = 0 not(TMP\_204) = 1 TMP\_205 = 1 not(TMP\_205) = 0 TMP\_206 = 1 not(TMP\_206) = 0 TMP\_207 = 1 not(TMP\_207) = 0 TMP\_208 = 2 TMP\_209 = 1 not(TMP\_209) = 0 TMP\_210 = 1 not(TMP\_210) = 0 TMP\_211 = 1 not(TMP\_211) = 0 TMP\_212 = 1 not(TMP\_212) = 0 TMP\_213 = 0 not(TMP\_213) = 1 TMP\_214 = 1 not(TMP\_214) = 0 TMP\_215 = 5 TMP\_216 = 0 not(TMP\_216) = 1 TMP\_217 = 0 not(TMP\_217) = 1 TMP\_218 = 0 TMP\_219 = 1 not(TMP\_219) = 0 TMP\_220 = 1 not(TMP\_220) = 0 TMP\_221 = 2 TMP\_222 = 0 not(TMP\_222) = 1 TMP\_223 = 0 not(TMP\_223) = 1 TMP\_224 = 1 not(TMP\_224) = 0 TMP\_225 = 1 not(TMP\_225) = 0 TMP\_226 = 1 not(TMP\_226) = 0 TMP\_227 = 2 Area\_0 = 60 Distance\_0\_Rule\_0 = 20 Distance\_1\_Rule\_0 = 3 Distance\_2\_Rule\_0 = 1 Area\_1 = 174 Distance\_0\_Rule\_1 = 58 Distance\_1\_Rule\_1 = 3 Distance\_2\_Rule\_1 = 1 Area\_2 = 123 -(Rule\_2\_LB) = -79 Distance\_0\_Rule\_2 = 41 -(Rule\_2\_LB) = 0 Distance\_1\_Rule\_2 = 3 -(Rule\_2\_LB) = -1 Distance\_2\_Rule\_2 = 1 Area\_3 = 360 -(Rule\_3\_LB) = 0 Distance\_0\_Rule\_3 = 120 -(Rule\_3\_LB) = 0 Distance\_1\_Rule\_3 = 3 -(Rule\_3\_LB) = 0 Distance\_2\_Rule\_3 = 1 Area\_4 = 3 -(Rule\_4\_LB) = -20 Distance\_0\_Rule\_4 = 1 -(Rule\_4\_LB) = 0 Distance\_1\_Rule\_4 = 3 -(Rule\_4\_LB) = -1 Distance\_2\_Rule\_4 = 1 TMP\_228 = 720 .

- Solution #19 found. 19 Solutions, Resolution 0.590s, 1289 Nodes (2,184.8 n/s), 2520 Backtracks, 1247 Fails, 0 Restarts

Rule\_2\_LB = 79 Rule\_2\_UB = 120 Rule\_2\_LB = 0 Rule\_2\_UB = 3 Rule\_2\_LB = 1 Rule\_2\_UB = 2 Rule\_3\_LB = 0 Rule\_3\_UB = 120 Rule\_3\_LB = 0 Rule\_3\_UB = 3 Rule\_3\_LB = 0 Rule\_3\_UB = 1 Rule\_4\_LB = 20 Rule\_4\_UB = 21 Rule\_4\_LB = 0 Rule\_4\_UB = 3 Rule\_4\_LB = 1 Rule\_4\_UB = 2 Overlaps\_0\_0 = 0 Overlaps\_0\_1 = 0 Overlaps\_0\_2 = 0 Overlaps\_0\_3 = 0 Overlaps\_0\_4 = 0 Overlaps\_1\_0 = 1 Overlaps\_1\_1 = 0 Overlaps\_1\_2 = 0 Overlaps\_1\_3 = 0 Overlaps\_1\_4 = 0 Overlaps\_2\_0 = 0 Overlaps\_2\_1 = 0 Overlaps\_2\_2 = 0 Overlaps\_2\_3 = 0 Overlaps\_2\_4 = 0 Overlaps\_3\_0 = 0 Overlaps\_3\_1 = 0 Overlaps\_3\_2 = 0 Overlaps\_3\_3 = 0 Overlaps\_3\_4 = 0 Overlaps\_4\_0 = 0 Overlaps\_4\_1 = 0 Overlaps\_4\_2 = 0 Overlaps\_4\_3 = 0 Overlaps\_4\_4 = 0 TMP\_0 = 0 not(TMP\_0) = 1 TMP\_1 = 1 not(TMP\_1) = 0 TMP\_2 = 1 not(TMP\_2) = 0 TMP\_3 = 1 not(TMP\_3) = 0 TMP\_4 = 1 not(TMP\_4) = 0 TMP\_5 = 1 not(TMP\_5) = 0 TMP\_6 = 5 TMP\_7 = 0 not(TMP\_7) = 1 TMP\_8 = 0 not(TMP\_8) = 1 TMP\_9 = 0 TMP\_10 = 1 not(TMP\_10) = 0 TMP\_11 = 1 not(TMP\_11) = 0 TMP\_12 = 2 TMP\_13 = 0 not(TMP\_13) = 1 TMP\_14 = 0 not(TMP\_14) = 1 TMP\_15 = 1 not(TMP\_15) = 0 TMP\_16 = 1 not(TMP\_16) = 0 TMP\_17 = 1 not(TMP\_17) = 0 TMP\_18 = 2 TMP\_19 = 0 not(TMP\_19) = 1 TMP\_20 = 1 not(TMP\_20) = 0 TMP\_21 = 1 not(TMP\_21) = 0 TMP\_22 = 1 not(TMP\_22) = 0 TMP\_23 = 1 not(TMP\_23) = 0 TMP\_24 = 1 not(TMP\_24) = 0 TMP\_25 = 5 TMP\_26 = 0 not(TMP\_26) = 1 TMP\_27 = 0 not(TMP\_27) = 1 TMP\_28 = 0 TMP\_29 = 1 not(TMP\_29) = 0 TMP\_30 = 1 not(TMP\_30) = 0 TMP\_31 = 2 TMP\_32 = 0 not(TMP\_32) = 1 TMP\_33 = 0 not(TMP\_33) = 1 TMP\_34 = 1 not(TMP\_34) = 0 TMP\_35 = 1 not(TMP\_35) = 0 TMP\_36 = 1 not(TMP\_36) = 0 TMP\_37 = 2 TMP\_38 = 1 not(TMP\_38) = 0 TMP\_39 = 1 not(TMP\_39) = 0 TMP\_40 = 1 not(TMP\_40) = 0 TMP\_41 = 1 not(TMP\_41) = 0 TMP\_42 = 0 not(TMP\_42) = 1 TMP\_43 = 1 not(TMP\_43) = 0 TMP\_44 = 5 TMP\_45 = 0 not(TMP\_45) = 1 TMP\_46 = 0 not(TMP\_46) = 1 TMP\_47 = 0 TMP\_48 = 1 not(TMP\_48) = 0 TMP\_49 = 1 not(TMP\_49) = 0 TMP\_50 = 2 TMP\_51 = 0 not(TMP\_51) = 1 TMP\_52 = 0 not(TMP\_52) = 1 TMP\_53 = 1 not(TMP\_53) = 0 TMP\_54 = 1 not(TMP\_54) = 0 TMP\_55 = 1 not(TMP\_55) = 0 TMP\_56 = 2 TMP\_57 = 0 not(TMP\_57) = 1 TMP\_58 = 1 not(TMP\_58) = 0 TMP\_59 = 1 not(TMP\_59) = 0 TMP\_60 = 1 not(TMP\_60) = 0 TMP\_61 = 1 not(TMP\_61) = 0 TMP\_62 = 1 not(TMP\_62) = 0 TMP\_63 = 5 TMP\_64 = 0 not(TMP\_64) = 1 TMP\_65 = 0 not(TMP\_65) = 1 TMP\_66 = 0 TMP\_67 = 1 not(TMP\_67) = 0 TMP\_68 = 1 not(TMP\_68) = 0 TMP\_69 = 2 TMP\_70 = 0 not(TMP\_70) = 1 TMP\_71 = 0 not(TMP\_71) = 1 TMP\_72 = 1 not(TMP\_72) = 0 TMP\_73 = 1 not(TMP\_73) = 0 TMP\_74 = 1 not(TMP\_74) = 0 TMP\_75 = 2 TMP\_76 = 1 not(TMP\_76) = 0 TMP\_77 = 1 not(TMP\_77) = 0 TMP\_78 = 1 not(TMP\_78) = 0 TMP\_79 = 1 not(TMP\_79) = 0 TMP\_80 = 1 not(TMP\_80) = 0 TMP\_81 = 0 not(TMP\_81) = 1 TMP\_82 = 5 TMP\_83 = 0 not(TMP\_83) = 1 TMP\_84 = 0 not(TMP\_84) = 1 TMP\_85 = 0 TMP\_86 = 1 not(TMP\_86) = 0 TMP\_87 = 1 not(TMP\_87) = 0 TMP\_88 = 2 TMP\_89 = 0 not(TMP\_89) = 1 TMP\_90 = 0 not(TMP\_90) = 1 TMP\_91 = 1 not(TMP\_91) = 0 TMP\_92 = 1 not(TMP\_92) = 0 TMP\_93 = 1 not(TMP\_93) = 0 TMP\_94 = 2 TMP\_95 = 1 not(TMP\_95) = 0 TMP\_96 = 1 not(TMP\_96) = 0 TMP\_97 = 1 not(TMP\_97) = 0 TMP\_98 = 1 not(TMP\_98) = 0 TMP\_99 = 1 not(TMP\_99) = 0 TMP\_100 = 0 not(TMP\_100) = 1 TMP\_101 = 5 TMP\_102 = 0 not(TMP\_102) = 1 TMP\_103 = 0 not(TMP\_103) = 1 TMP\_104 = 0 TMP\_105 = 1 not(TMP\_105) = 0 TMP\_106 = 1 not(TMP\_106) = 0 TMP\_107 = 2 TMP\_108 = 0 not(TMP\_108) = 1 TMP\_109 = 0 not(TMP\_109) = 1 TMP\_110 = 1 not(TMP\_110) = 0 TMP\_111 = 1 not(TMP\_111) = 0 TMP\_112 = 1 not(TMP\_112) = 0 TMP\_113 = 2 TMP\_114 = 1 not(TMP\_114) = 0 TMP\_115 = 1 not(TMP\_115) = 0 TMP\_116 = 1 not(TMP\_116) = 0 TMP\_117 = 1 not(TMP\_117) = 0 TMP\_118 = 1 not(TMP\_118) = 0 TMP\_119 = 0 not(TMP\_119) = 1 TMP\_120 = 5 TMP\_121 = 0 not(TMP\_121) = 1 TMP\_122 = 0 not(TMP\_122) = 1 TMP\_123 = 0 TMP\_124 = 1 not(TMP\_124) = 0 TMP\_125 = 1 not(TMP\_125) = 0 TMP\_126 = 2 TMP\_127 = 0 not(TMP\_127) = 1 TMP\_128 = 0 not(TMP\_128) = 1 TMP\_129 = 1 not(TMP\_129) = 0 TMP\_130 = 1 not(TMP\_130) = 0 TMP\_131 = 1 not(TMP\_131) = 0 TMP\_132 = 2 TMP\_133 = 1 not(TMP\_133) = 0 TMP\_134 = 1 not(TMP\_134) = 0 TMP\_135 = 1 not(TMP\_135) = 0 TMP\_136 = 1 not(TMP\_136) = 0 TMP\_137 = 1 not(TMP\_137) = 0 TMP\_138 = 0 not(TMP\_138) = 1 TMP\_139 = 5 TMP\_140 = 0 not(TMP\_140) = 1 TMP\_141 = 0 not(TMP\_141) = 1 TMP\_142 = 0 TMP\_143 = 1 not(TMP\_143) = 0 TMP\_144 = 1 not(TMP\_144) = 0 TMP\_145 = 2 TMP\_146 = 0 not(TMP\_146) = 1 TMP\_147 = 0 not(TMP\_147) = 1 TMP\_148 = 1 not(TMP\_148) = 0 TMP\_149 = 1 not(TMP\_149) = 0 TMP\_150 = 1 not(TMP\_150) = 0 TMP\_151 = 2 TMP\_152 = 0 not(TMP\_152) = 1 TMP\_153 = 1 not(TMP\_153) = 0 TMP\_154 = 1 not(TMP\_154) = 0 TMP\_155 = 1 not(TMP\_155) = 0 TMP\_156 = 1 not(TMP\_156) = 0 TMP\_157 = 1 not(TMP\_157) = 0 TMP\_158 = 5 TMP\_159 = 0 not(TMP\_159) = 1 TMP\_160 = 0 not(TMP\_160) = 1 TMP\_161 = 0 TMP\_162 = 1 not(TMP\_162) = 0 TMP\_163 = 1 not(TMP\_163) = 0 TMP\_164 = 2 TMP\_165 = 0 not(TMP\_165) = 1 TMP\_166 = 0 not(TMP\_166) = 1 TMP\_167 = 1 not(TMP\_167) = 0 TMP\_168 = 1 not(TMP\_168) = 0 TMP\_169 = 1 not(TMP\_169) = 0 TMP\_170 = 2 TMP\_171 = 1 not(TMP\_171) = 0 TMP\_172 = 0 not(TMP\_172) = 1 TMP\_173 = 1 not(TMP\_173) = 0 TMP\_174 = 1 not(TMP\_174) = 0 TMP\_175 = 1 not(TMP\_175) = 0 TMP\_176 = 1 not(TMP\_176) = 0 TMP\_177 = 5 TMP\_178 = 0 not(TMP\_178) = 1 TMP\_179 = 0 not(TMP\_179) = 1 TMP\_180 = 0 TMP\_181 = 1 not(TMP\_181) = 0 TMP\_182 = 1 not(TMP\_182) = 0 TMP\_183 = 2 TMP\_184 = 0 not(TMP\_184) = 1 TMP\_185 = 0 not(TMP\_185) = 1 TMP\_186 = 1 not(TMP\_186) = 0 TMP\_187 = 1 not(TMP\_187) = 0 TMP\_188 = 1 not(TMP\_188) = 0 TMP\_189 = 2 TMP\_190 = 1 not(TMP\_190) = 0 TMP\_191 = 0 not(TMP\_191) = 1 TMP\_192 = 1 not(TMP\_192) = 0 TMP\_193 = 1 not(TMP\_193) = 0 TMP\_194 = 1 not(TMP\_194) = 0 TMP\_195 = 1 not(TMP\_195) = 0 TMP\_196 = 5 TMP\_197 = 0 not(TMP\_197) = 1 TMP\_198 = 0 not(TMP\_198) = 1 TMP\_199 = 0 TMP\_200 = 1 not(TMP\_200) = 0 TMP\_201 = 1 not(TMP\_201) = 0 TMP\_202 = 2 TMP\_203 = 0 not(TMP\_203) = 1 TMP\_204 = 0 not(TMP\_204) = 1 TMP\_205 = 1 not(TMP\_205) = 0 TMP\_206 = 1 not(TMP\_206) = 0 TMP\_207 = 1 not(TMP\_207) = 0 TMP\_208 = 2 TMP\_209 = 1 not(TMP\_209) = 0 TMP\_210 = 1 not(TMP\_210) = 0 TMP\_211 = 1 not(TMP\_211) = 0 TMP\_212 = 1 not(TMP\_212) = 0 TMP\_213 = 0 not(TMP\_213) = 1 TMP\_214 = 1 not(TMP\_214) = 0 TMP\_215 = 5 TMP\_216 = 0 not(TMP\_216) = 1 TMP\_217 = 0 not(TMP\_217) = 1 TMP\_218 = 0 TMP\_219 = 1 not(TMP\_219) = 0 TMP\_220 = 1 not(TMP\_220) = 0 TMP\_221 = 2 TMP\_222 = 0 not(TMP\_222) = 1 TMP\_223 = 0 not(TMP\_223) = 1 TMP\_224 = 1 not(TMP\_224) = 0 TMP\_225 = 1 not(TMP\_225) = 0 TMP\_226 = 1 not(TMP\_226) = 0 TMP\_227 = 2 Area\_0 = 60 Distance\_0\_Rule\_0 = 20 Distance\_1\_Rule\_0 = 3 Distance\_2\_Rule\_0 = 1 Area\_1 = 174 Distance\_0\_Rule\_1 = 58 Distance\_1\_Rule\_1 = 3 Distance\_2\_Rule\_1 = 1 Area\_2 = 123 -(Rule\_2\_LB) = -79 Distance\_0\_Rule\_2 = 41 -(Rule\_2\_LB) = 0 Distance\_1\_Rule\_2 = 3 -(Rule\_2\_LB) = -1 Distance\_2\_Rule\_2 = 1 Area\_3 = 360 -(Rule\_3\_LB) = 0 Distance\_0\_Rule\_3 = 120 -(Rule\_3\_LB) = 0 Distance\_1\_Rule\_3 = 3 -(Rule\_3\_LB) = 0 Distance\_2\_Rule\_3 = 1 Area\_4 = 3 -(Rule\_4\_LB) = -20 Distance\_0\_Rule\_4 = 1 -(Rule\_4\_LB) = 0 Distance\_1\_Rule\_4 = 3 -(Rule\_4\_LB) = -1 Distance\_2\_Rule\_4 = 1 TMP\_228 = 720 .

- Solution #20 found. 20 Solutions, Resolution 0.592s, 1290 Nodes (2,179.0 n/s), 2521 Backtracks, 1247 Fails, 0 Restarts

Rule\_2\_LB = 79 Rule\_2\_UB = 120 Rule\_2\_LB = 0 Rule\_2\_UB = 3 Rule\_2\_LB = 1 Rule\_2\_UB = 2 Rule\_3\_LB = 0 Rule\_3\_UB = 120 Rule\_3\_LB = 0 Rule\_3\_UB = 3 Rule\_3\_LB = 0 Rule\_3\_UB = 1 Rule\_4\_LB = 20 Rule\_4\_UB = 21 Rule\_4\_LB = 0 Rule\_4\_UB = 3 Rule\_4\_LB = 1 Rule\_4\_UB = 2 Overlaps\_0\_0 = 0 Overlaps\_0\_1 = 1 Overlaps\_0\_2 = 0 Overlaps\_0\_3 = 0 Overlaps\_0\_4 = 0 Overlaps\_1\_0 = 1 Overlaps\_1\_1 = 0 Overlaps\_1\_2 = 0 Overlaps\_1\_3 = 0 Overlaps\_1\_4 = 0 Overlaps\_2\_0 = 0 Overlaps\_2\_1 = 0 Overlaps\_2\_2 = 0 Overlaps\_2\_3 = 0 Overlaps\_2\_4 = 0 Overlaps\_3\_0 = 0 Overlaps\_3\_1 = 0 Overlaps\_3\_2 = 0 Overlaps\_3\_3 = 0 Overlaps\_3\_4 = 0 Overlaps\_4\_0 = 0 Overlaps\_4\_1 = 0 Overlaps\_4\_2 = 0 Overlaps\_4\_3 = 0 Overlaps\_4\_4 = 0 TMP\_0 = 0 not(TMP\_0) = 1 TMP\_1 = 1 not(TMP\_1) = 0 TMP\_2 = 1 not(TMP\_2) = 0 TMP\_3 = 1 not(TMP\_3) = 0 TMP\_4 = 1 not(TMP\_4) = 0 TMP\_5 = 1 not(TMP\_5) = 0 TMP\_6 = 5 TMP\_7 = 0 not(TMP\_7) = 1 TMP\_8 = 0 not(TMP\_8) = 1 TMP\_9 = 0 TMP\_10 = 1 not(TMP\_10) = 0 TMP\_11 = 1 not(TMP\_11) = 0 TMP\_12 = 2 TMP\_13 = 0 not(TMP\_13) = 1 TMP\_14 = 0 not(TMP\_14) = 1 TMP\_15 = 1 not(TMP\_15) = 0 TMP\_16 = 1 not(TMP\_16) = 0 TMP\_17 = 1 not(TMP\_17) = 0 TMP\_18 = 2 TMP\_19 = 0 not(TMP\_19) = 1 TMP\_20 = 1 not(TMP\_20) = 0 TMP\_21 = 1 not(TMP\_21) = 0 TMP\_22 = 1 not(TMP\_22) = 0 TMP\_23 = 1 not(TMP\_23) = 0 TMP\_24 = 1 not(TMP\_24) = 0 TMP\_25 = 5 TMP\_26 = 0 not(TMP\_26) = 1 TMP\_27 = 0 not(TMP\_27) = 1 TMP\_28 = 0 TMP\_29 = 1 not(TMP\_29) = 0 TMP\_30 = 1 not(TMP\_30) = 0 TMP\_31 = 2 TMP\_32 = 0 not(TMP\_32) = 1 TMP\_33 = 0 not(TMP\_33) = 1 TMP\_34 = 1 not(TMP\_34) = 0 TMP\_35 = 1 not(TMP\_35) = 0 TMP\_36 = 1 not(TMP\_36) = 0 TMP\_37 = 2 TMP\_38 = 1 not(TMP\_38) = 0 TMP\_39 = 1 not(TMP\_39) = 0 TMP\_40 = 1 not(TMP\_40) = 0 TMP\_41 = 1 not(TMP\_41) = 0 TMP\_42 = 0 not(TMP\_42) = 1 TMP\_43 = 1 not(TMP\_43) = 0 TMP\_44 = 5 TMP\_45 = 0 not(TMP\_45) = 1 TMP\_46 = 0 not(TMP\_46) = 1 TMP\_47 = 0 TMP\_48 = 1 not(TMP\_48) = 0 TMP\_49 = 1 not(TMP\_49) = 0 TMP\_50 = 2 TMP\_51 = 0 not(TMP\_51) = 1 TMP\_52 = 0 not(TMP\_52) = 1 TMP\_53 = 1 not(TMP\_53) = 0 TMP\_54 = 1 not(TMP\_54) = 0 TMP\_55 = 1 not(TMP\_55) = 0 TMP\_56 = 2 TMP\_57 = 0 not(TMP\_57) = 1 TMP\_58 = 1 not(TMP\_58) = 0 TMP\_59 = 1 not(TMP\_59) = 0 TMP\_60 = 1 not(TMP\_60) = 0 TMP\_61 = 1 not(TMP\_61) = 0 TMP\_62 = 1 not(TMP\_62) = 0 TMP\_63 = 5 TMP\_64 = 0 not(TMP\_64) = 1 TMP\_65 = 0 not(TMP\_65) = 1 TMP\_66 = 0 TMP\_67 = 1 not(TMP\_67) = 0 TMP\_68 = 1 not(TMP\_68) = 0 TMP\_69 = 2 TMP\_70 = 0 not(TMP\_70) = 1 TMP\_71 = 0 not(TMP\_71) = 1 TMP\_72 = 1 not(TMP\_72) = 0 TMP\_73 = 1 not(TMP\_73) = 0 TMP\_74 = 1 not(TMP\_74) = 0 TMP\_75 = 2 TMP\_76 = 1 not(TMP\_76) = 0 TMP\_77 = 1 not(TMP\_77) = 0 TMP\_78 = 1 not(TMP\_78) = 0 TMP\_79 = 1 not(TMP\_79) = 0 TMP\_80 = 1 not(TMP\_80) = 0 TMP\_81 = 0 not(TMP\_81) = 1 TMP\_82 = 5 TMP\_83 = 0 not(TMP\_83) = 1 TMP\_84 = 0 not(TMP\_84) = 1 TMP\_85 = 0 TMP\_86 = 1 not(TMP\_86) = 0 TMP\_87 = 1 not(TMP\_87) = 0 TMP\_88 = 2 TMP\_89 = 0 not(TMP\_89) = 1 TMP\_90 = 0 not(TMP\_90) = 1 TMP\_91 = 1 not(TMP\_91) = 0 TMP\_92 = 1 not(TMP\_92) = 0 TMP\_93 = 1 not(TMP\_93) = 0 TMP\_94 = 2 TMP\_95 = 1 not(TMP\_95) = 0 TMP\_96 = 1 not(TMP\_96) = 0 TMP\_97 = 1 not(TMP\_97) = 0 TMP\_98 = 1 not(TMP\_98) = 0 TMP\_99 = 1 not(TMP\_99) = 0 TMP\_100 = 0 not(TMP\_100) = 1 TMP\_101 = 5 TMP\_102 = 0 not(TMP\_102) = 1 TMP\_103 = 0 not(TMP\_103) = 1 TMP\_104 = 0 TMP\_105 = 1 not(TMP\_105) = 0 TMP\_106 = 1 not(TMP\_106) = 0 TMP\_107 = 2 TMP\_108 = 0 not(TMP\_108) = 1 TMP\_109 = 0 not(TMP\_109) = 1 TMP\_110 = 1 not(TMP\_110) = 0 TMP\_111 = 1 not(TMP\_111) = 0 TMP\_112 = 1 not(TMP\_112) = 0 TMP\_113 = 2 TMP\_114 = 1 not(TMP\_114) = 0 TMP\_115 = 1 not(TMP\_115) = 0 TMP\_116 = 1 not(TMP\_116) = 0 TMP\_117 = 1 not(TMP\_117) = 0 TMP\_118 = 1 not(TMP\_118) = 0 TMP\_119 = 0 not(TMP\_119) = 1 TMP\_120 = 5 TMP\_121 = 0 not(TMP\_121) = 1 TMP\_122 = 0 not(TMP\_122) = 1 TMP\_123 = 0 TMP\_124 = 1 not(TMP\_124) = 0 TMP\_125 = 1 not(TMP\_125) = 0 TMP\_126 = 2 TMP\_127 = 0 not(TMP\_127) = 1 TMP\_128 = 0 not(TMP\_128) = 1 TMP\_129 = 1 not(TMP\_129) = 0 TMP\_130 = 1 not(TMP\_130) = 0 TMP\_131 = 1 not(TMP\_131) = 0 TMP\_132 = 2 TMP\_133 = 1 not(TMP\_133) = 0 TMP\_134 = 1 not(TMP\_134) = 0 TMP\_135 = 1 not(TMP\_135) = 0 TMP\_136 = 1 not(TMP\_136) = 0 TMP\_137 = 1 not(TMP\_137) = 0 TMP\_138 = 0 not(TMP\_138) = 1 TMP\_139 = 5 TMP\_140 = 0 not(TMP\_140) = 1 TMP\_141 = 0 not(TMP\_141) = 1 TMP\_142 = 0 TMP\_143 = 1 not(TMP\_143) = 0 TMP\_144 = 1 not(TMP\_144) = 0 TMP\_145 = 2 TMP\_146 = 0 not(TMP\_146) = 1 TMP\_147 = 0 not(TMP\_147) = 1 TMP\_148 = 1 not(TMP\_148) = 0 TMP\_149 = 1 not(TMP\_149) = 0 TMP\_150 = 1 not(TMP\_150) = 0 TMP\_151 = 2 TMP\_152 = 0 not(TMP\_152) = 1 TMP\_153 = 1 not(TMP\_153) = 0 TMP\_154 = 1 not(TMP\_154) = 0 TMP\_155 = 1 not(TMP\_155) = 0 TMP\_156 = 1 not(TMP\_156) = 0 TMP\_157 = 1 not(TMP\_157) = 0 TMP\_158 = 5 TMP\_159 = 0 not(TMP\_159) = 1 TMP\_160 = 0 not(TMP\_160) = 1 TMP\_161 = 0 TMP\_162 = 1 not(TMP\_162) = 0 TMP\_163 = 1 not(TMP\_163) = 0 TMP\_164 = 2 TMP\_165 = 0 not(TMP\_165) = 1 TMP\_166 = 0 not(TMP\_166) = 1 TMP\_167 = 1 not(TMP\_167) = 0 TMP\_168 = 1 not(TMP\_168) = 0 TMP\_169 = 1 not(TMP\_169) = 0 TMP\_170 = 2 TMP\_171 = 1 not(TMP\_171) = 0 TMP\_172 = 0 not(TMP\_172) = 1 TMP\_173 = 1 not(TMP\_173) = 0 TMP\_174 = 1 not(TMP\_174) = 0 TMP\_175 = 1 not(TMP\_175) = 0 TMP\_176 = 1 not(TMP\_176) = 0 TMP\_177 = 5 TMP\_178 = 0 not(TMP\_178) = 1 TMP\_179 = 0 not(TMP\_179) = 1 TMP\_180 = 0 TMP\_181 = 1 not(TMP\_181) = 0 TMP\_182 = 1 not(TMP\_182) = 0 TMP\_183 = 2 TMP\_184 = 0 not(TMP\_184) = 1 TMP\_185 = 0 not(TMP\_185) = 1 TMP\_186 = 1 not(TMP\_186) = 0 TMP\_187 = 1 not(TMP\_187) = 0 TMP\_188 = 1 not(TMP\_188) = 0 TMP\_189 = 2 TMP\_190 = 1 not(TMP\_190) = 0 TMP\_191 = 0 not(TMP\_191) = 1 TMP\_192 = 1 not(TMP\_192) = 0 TMP\_193 = 1 not(TMP\_193) = 0 TMP\_194 = 1 not(TMP\_194) = 0 TMP\_195 = 1 not(TMP\_195) = 0 TMP\_196 = 5 TMP\_197 = 0 not(TMP\_197) = 1 TMP\_198 = 0 not(TMP\_198) = 1 TMP\_199 = 0 TMP\_200 = 1 not(TMP\_200) = 0 TMP\_201 = 1 not(TMP\_201) = 0 TMP\_202 = 2 TMP\_203 = 0 not(TMP\_203) = 1 TMP\_204 = 0 not(TMP\_204) = 1 TMP\_205 = 1 not(TMP\_205) = 0 TMP\_206 = 1 not(TMP\_206) = 0 TMP\_207 = 1 not(TMP\_207) = 0 TMP\_208 = 2 TMP\_209 = 1 not(TMP\_209) = 0 TMP\_210 = 1 not(TMP\_210) = 0 TMP\_211 = 1 not(TMP\_211) = 0 TMP\_212 = 1 not(TMP\_212) = 0 TMP\_213 = 0 not(TMP\_213) = 1 TMP\_214 = 1 not(TMP\_214) = 0 TMP\_215 = 5 TMP\_216 = 0 not(TMP\_216) = 1 TMP\_217 = 0 not(TMP\_217) = 1 TMP\_218 = 0 TMP\_219 = 1 not(TMP\_219) = 0 TMP\_220 = 1 not(TMP\_220) = 0 TMP\_221 = 2 TMP\_222 = 0 not(TMP\_222) = 1 TMP\_223 = 0 not(TMP\_223) = 1 TMP\_224 = 1 not(TMP\_224) = 0 TMP\_225 = 1 not(TMP\_225) = 0 TMP\_226 = 1 not(TMP\_226) = 0 TMP\_227 = 2 Area\_0 = 60 Distance\_0\_Rule\_0 = 20 Distance\_1\_Rule\_0 = 3 Distance\_2\_Rule\_0 = 1 Area\_1 = 174 Distance\_0\_Rule\_1 = 58 Distance\_1\_Rule\_1 = 3 Distance\_2\_Rule\_1 = 1 Area\_2 = 123 -(Rule\_2\_LB) = -79 Distance\_0\_Rule\_2 = 41 -(Rule\_2\_LB) = 0 Distance\_1\_Rule\_2 = 3 -(Rule\_2\_LB) = -1 Distance\_2\_Rule\_2 = 1 Area\_3 = 360 -(Rule\_3\_LB) = 0 Distance\_0\_Rule\_3 = 120 -(Rule\_3\_LB) = 0 Distance\_1\_Rule\_3 = 3 -(Rule\_3\_LB) = 0 Distance\_2\_Rule\_3 = 1 Area\_4 = 3 -(Rule\_4\_LB) = -20 Distance\_0\_Rule\_4 = 1 -(Rule\_4\_LB) = 0 Distance\_1\_Rule\_4 = 3 -(Rule\_4\_LB) = -1 Distance\_2\_Rule\_4 = 1 TMP\_228 = 720 .

- Incomplete search - Limit reached.

Solutions: 20

Building time : 0.168s

Initialisation : 0.003s

Initial propagation : 0.030s

Resolution : 0.597s

Nodes: 1,290 (2,161.4 n/s)

Backtracks: 2,521

Fails: 1,247

Restarts: 0

Max depth: 116

Memory: -6mb

Variables: 502

Constraints: 506

## Rules = 3 - Missing Rules = 5

- Solution #1 found. 1 Solutions, Resolution 3.105s, 23818 Nodes (7,670.8 n/s), 47589 Backtracks, 23801 Fails, 0 Restarts

Rule\_3\_LB = 0 Rule\_3\_UB = 79 Rule\_3\_LB = 0 Rule\_3\_UB = 1 Rule\_3\_LB = 0 Rule\_3\_UB = 1 Rule\_4\_LB = 79 Rule\_4\_UB = 120 Rule\_4\_LB = 0 Rule\_4\_UB = 3 Rule\_4\_LB = 0 Rule\_4\_UB = 1 Rule\_5\_LB = 79 Rule\_5\_UB = 120 Rule\_5\_LB = 0 Rule\_5\_UB = 3 Rule\_5\_LB = 1 Rule\_5\_UB = 2 Rule\_6\_LB = 20 Rule\_6\_UB = 21 Rule\_6\_LB = 0 Rule\_6\_UB = 3 Rule\_6\_LB = 1 Rule\_6\_UB = 2 Rule\_7\_LB = 0 Rule\_7\_UB = 21 Rule\_7\_LB = 1 Rule\_7\_UB = 3 Rule\_7\_LB = 0 Rule\_7\_UB = 1 Overlaps\_0\_0 = 0 Overlaps\_0\_1 = 0 Overlaps\_0\_2 = 0 Overlaps\_0\_3 = 0 Overlaps\_0\_4 = 0 Overlaps\_0\_5 = 0 Overlaps\_0\_6 = 0 Overlaps\_0\_7 = 0 Overlaps\_1\_0 = 0 Overlaps\_1\_1 = 0 Overlaps\_1\_2 = 0 Overlaps\_1\_3 = 0 Overlaps\_1\_4 = 0 Overlaps\_1\_5 = 0 Overlaps\_1\_6 = 0 Overlaps\_1\_7 = 0 Overlaps\_2\_0 = 0 Overlaps\_2\_1 = 0 Overlaps\_2\_2 = 0 Overlaps\_2\_3 = 0 Overlaps\_2\_4 = 0 Overlaps\_2\_5 = 0 Overlaps\_2\_6 = 0 Overlaps\_2\_7 = 0 Overlaps\_3\_0 = 0 Overlaps\_3\_1 = 0 Overlaps\_3\_2 = 0 Overlaps\_3\_3 = 0 Overlaps\_3\_4 = 0 Overlaps\_3\_5 = 0 Overlaps\_3\_6 = 0 Overlaps\_3\_7 = 0 Overlaps\_4\_0 = 0 Overlaps\_4\_1 = 0 Overlaps\_4\_2 = 0 Overlaps\_4\_3 = 0 Overlaps\_4\_4 = 0 Overlaps\_4\_5 = 0 Overlaps\_4\_6 = 0 Overlaps\_4\_7 = 0 Overlaps\_5\_0 = 0 Overlaps\_5\_1 = 0 Overlaps\_5\_2 = 0 Overlaps\_5\_3 = 0 Overlaps\_5\_4 = 0 Overlaps\_5\_5 = 0 Overlaps\_5\_6 = 0 Overlaps\_5\_7 = 0 Overlaps\_6\_0 = 0 Overlaps\_6\_1 = 0 Overlaps\_6\_2 = 0 Overlaps\_6\_3 = 0 Overlaps\_6\_4 = 0 Overlaps\_6\_5 = 0 Overlaps\_6\_6 = 0 Overlaps\_6\_7 = 0 Overlaps\_7\_0 = 0 Overlaps\_7\_1 = 0 Overlaps\_7\_2 = 0 Overlaps\_7\_3 = 0 Overlaps\_7\_4 = 0 Overlaps\_7\_5 = 0 Overlaps\_7\_6 = 0 Overlaps\_7\_7 = 0 TMP\_0 = 1 not(TMP\_0) = 0 TMP\_1 = 1 not(TMP\_1) = 0 TMP\_2 = 1 not(TMP\_2) = 0 TMP\_3 = 1 not(TMP\_3) = 0 TMP\_4 = 1 not(TMP\_4) = 0 TMP\_5 = 0 not(TMP\_5) = 1 TMP\_6 = 5 TMP\_7 = 0 not(TMP\_7) = 1 TMP\_8 = 0 not(TMP\_8) = 1 TMP\_9 = 0 TMP\_10 = 1 not(TMP\_10) = 0 TMP\_11 = 1 not(TMP\_11) = 0 TMP\_12 = 2 TMP\_13 = 0 not(TMP\_13) = 1 TMP\_14 = 0 not(TMP\_14) = 1 TMP\_15 = 1 not(TMP\_15) = 0 TMP\_16 = 1 not(TMP\_16) = 0 TMP\_17 = 1 not(TMP\_17) = 0 TMP\_18 = 2 TMP\_19 = 1 not(TMP\_19) = 0 TMP\_20 = 1 not(TMP\_20) = 0 TMP\_21 = 1 not(TMP\_21) = 0 TMP\_22 = 1 not(TMP\_22) = 0 TMP\_23 = 1 not(TMP\_23) = 0 TMP\_24 = 0 not(TMP\_24) = 1 TMP\_25 = 5 TMP\_26 = 0 not(TMP\_26) = 1 TMP\_27 = 0 not(TMP\_27) = 1 TMP\_28 = 0 TMP\_29 = 1 not(TMP\_29) = 0 TMP\_30 = 1 not(TMP\_30) = 0 TMP\_31 = 2 TMP\_32 = 0 not(TMP\_32) = 1 TMP\_33 = 0 not(TMP\_33) = 1 TMP\_34 = 1 not(TMP\_34) = 0 TMP\_35 = 1 not(TMP\_35) = 0 TMP\_36 = 1 not(TMP\_36) = 0 TMP\_37 = 2 TMP\_38 = 1 not(TMP\_38) = 0 TMP\_39 = 1 not(TMP\_39) = 0 TMP\_40 = 1 not(TMP\_40) = 0 TMP\_41 = 0 not(TMP\_41) = 1 TMP\_42 = 1 not(TMP\_42) = 0 TMP\_43 = 1 not(TMP\_43) = 0 TMP\_44 = 5 TMP\_45 = 0 not(TMP\_45) = 1 TMP\_46 = 0 not(TMP\_46) = 1 TMP\_47 = 0 TMP\_48 = 1 not(TMP\_48) = 0 TMP\_49 = 1 not(TMP\_49) = 0 TMP\_50 = 2 TMP\_51 = 0 not(TMP\_51) = 1 TMP\_52 = 0 not(TMP\_52) = 1 TMP\_53 = 1 not(TMP\_53) = 0 TMP\_54 = 1 not(TMP\_54) = 0 TMP\_55 = 1 not(TMP\_55) = 0 TMP\_56 = 2 TMP\_57 = 1 not(TMP\_57) = 0 TMP\_58 = 0 not(TMP\_58) = 1 TMP\_59 = 1 not(TMP\_59) = 0 TMP\_60 = 1 not(TMP\_60) = 0 TMP\_61 = 1 not(TMP\_61) = 0 TMP\_62 = 1 not(TMP\_62) = 0 TMP\_63 = 5 TMP\_64 = 0 not(TMP\_64) = 1 TMP\_65 = 0 not(TMP\_65) = 1 TMP\_66 = 0 TMP\_67 = 1 not(TMP\_67) = 0 TMP\_68 = 1 not(TMP\_68) = 0 TMP\_69 = 2 TMP\_70 = 0 not(TMP\_70) = 1 TMP\_71 = 0 not(TMP\_71) = 1 TMP\_72 = 1 not(TMP\_72) = 0 TMP\_73 = 1 not(TMP\_73) = 0 TMP\_74 = 1 not(TMP\_74) = 0 TMP\_75 = 2 TMP\_76 = 1 not(TMP\_76) = 0 TMP\_77 = 0 not(TMP\_77) = 1 TMP\_78 = 1 not(TMP\_78) = 0 TMP\_79 = 1 not(TMP\_79) = 0 TMP\_80 = 1 not(TMP\_80) = 0 TMP\_81 = 0 not(TMP\_81) = 1 TMP\_82 = 4 TMP\_83 = 0 not(TMP\_83) = 1 TMP\_84 = 0 not(TMP\_84) = 1 TMP\_85 = 0 TMP\_86 = 1 not(TMP\_86) = 0 TMP\_87 = 1 not(TMP\_87) = 0 TMP\_88 = 2 TMP\_89 = 0 not(TMP\_89) = 1 TMP\_90 = 0 not(TMP\_90) = 1 TMP\_91 = 1 not(TMP\_91) = 0 TMP\_92 = 1 not(TMP\_92) = 0 TMP\_93 = 1 not(TMP\_93) = 0 TMP\_94 = 2 TMP\_95 = 1 not(TMP\_95) = 0 TMP\_96 = 1 not(TMP\_96) = 0 TMP\_97 = 1 not(TMP\_97) = 0 TMP\_98 = 1 not(TMP\_98) = 0 TMP\_99 = 1 not(TMP\_99) = 0 TMP\_100 = 0 not(TMP\_100) = 1 TMP\_101 = 5 TMP\_102 = 0 not(TMP\_102) = 1 TMP\_103 = 0 not(TMP\_103) = 1 TMP\_104 = 0 TMP\_105 = 1 not(TMP\_105) = 0 TMP\_106 = 1 not(TMP\_106) = 0 TMP\_107 = 2 TMP\_108 = 0 not(TMP\_108) = 1 TMP\_109 = 0 not(TMP\_109) = 1 TMP\_110 = 1 not(TMP\_110) = 0 TMP\_111 = 1 not(TMP\_111) = 0 TMP\_112 = 1 not(TMP\_112) = 0 TMP\_113 = 2 TMP\_114 = 1 not(TMP\_114) = 0 TMP\_115 = 1 not(TMP\_115) = 0 TMP\_116 = 1 not(TMP\_116) = 0 TMP\_117 = 0 not(TMP\_117) = 1 TMP\_118 = 1 not(TMP\_118) = 0 TMP\_119 = 1 not(TMP\_119) = 0 TMP\_120 = 5 TMP\_121 = 0 not(TMP\_121) = 1 TMP\_122 = 0 not(TMP\_122) = 1 TMP\_123 = 0 TMP\_124 = 1 not(TMP\_124) = 0 TMP\_125 = 1 not(TMP\_125) = 0 TMP\_126 = 2 TMP\_127 = 0 not(TMP\_127) = 1 TMP\_128 = 0 not(TMP\_128) = 1 TMP\_129 = 1 not(TMP\_129) = 0 TMP\_130 = 1 not(TMP\_130) = 0 TMP\_131 = 1 not(TMP\_131) = 0 TMP\_132 = 2 TMP\_133 = 0 not(TMP\_133) = 1 TMP\_134 = 1 not(TMP\_134) = 0 TMP\_135 = 1 not(TMP\_135) = 0 TMP\_136 = 1 not(TMP\_136) = 0 TMP\_137 = 1 not(TMP\_137) = 0 TMP\_138 = 0 not(TMP\_138) = 1 TMP\_139 = 4 TMP\_140 = 0 not(TMP\_140) = 1 TMP\_141 = 0 not(TMP\_141) = 1 TMP\_142 = 0 TMP\_143 = 1 not(TMP\_143) = 0 TMP\_144 = 1 not(TMP\_144) = 0 TMP\_145 = 2 TMP\_146 = 0 not(TMP\_146) = 1 TMP\_147 = 0 not(TMP\_147) = 1 TMP\_148 = 1 not(TMP\_148) = 0 TMP\_149 = 1 not(TMP\_149) = 0 TMP\_150 = 1 not(TMP\_150) = 0 TMP\_151 = 2 TMP\_152 = 0 not(TMP\_152) = 1 TMP\_153 = 1 not(TMP\_153) = 0 TMP\_154 = 1 not(TMP\_154) = 0 TMP\_155 = 1 not(TMP\_155) = 0 TMP\_156 = 1 not(TMP\_156) = 0 TMP\_157 = 0 not(TMP\_157) = 1 TMP\_158 = 4 TMP\_159 = 0 not(TMP\_159) = 1 TMP\_160 = 0 not(TMP\_160) = 1 TMP\_161 = 0 TMP\_162 = 1 not(TMP\_162) = 0 TMP\_163 = 1 not(TMP\_163) = 0 TMP\_164 = 2 TMP\_165 = 0 not(TMP\_165) = 1 TMP\_166 = 0 not(TMP\_166) = 1 TMP\_167 = 1 not(TMP\_167) = 0 TMP\_168 = 1 not(TMP\_168) = 0 TMP\_169 = 1 not(TMP\_169) = 0 TMP\_170 = 2 TMP\_171 = 0 not(TMP\_171) = 1 TMP\_172 = 1 not(TMP\_172) = 0 TMP\_173 = 1 not(TMP\_173) = 0 TMP\_174 = 1 not(TMP\_174) = 0 TMP\_175 = 1 not(TMP\_175) = 0 TMP\_176 = 1 not(TMP\_176) = 0 TMP\_177 = 5 TMP\_178 = 0 not(TMP\_178) = 1 TMP\_179 = 0 not(TMP\_179) = 1 TMP\_180 = 0 TMP\_181 = 1 not(TMP\_181) = 0 TMP\_182 = 1 not(TMP\_182) = 0 TMP\_183 = 2 TMP\_184 = 0 not(TMP\_184) = 1 TMP\_185 = 0 not(TMP\_185) = 1 TMP\_186 = 1 not(TMP\_186) = 0 TMP\_187 = 1 not(TMP\_187) = 0 TMP\_188 = 1 not(TMP\_188) = 0 TMP\_189 = 2 TMP\_190 = 0 not(TMP\_190) = 1 TMP\_191 = 1 not(TMP\_191) = 0 TMP\_192 = 1 not(TMP\_192) = 0 TMP\_193 = 1 not(TMP\_193) = 0 TMP\_194 = 1 not(TMP\_194) = 0 TMP\_195 = 1 not(TMP\_195) = 0 TMP\_196 = 5 TMP\_197 = 0 not(TMP\_197) = 1 TMP\_198 = 0 not(TMP\_198) = 1 TMP\_199 = 0 TMP\_200 = 1 not(TMP\_200) = 0 TMP\_201 = 1 not(TMP\_201) = 0 TMP\_202 = 2 TMP\_203 = 0 not(TMP\_203) = 1 TMP\_204 = 0 not(TMP\_204) = 1 TMP\_205 = 1 not(TMP\_205) = 0 TMP\_206 = 1 not(TMP\_206) = 0 TMP\_207 = 1 not(TMP\_207) = 0 TMP\_208 = 2 TMP\_209 = 1 not(TMP\_209) = 0 TMP\_210 = 1 not(TMP\_210) = 0 TMP\_211 = 1 not(TMP\_211) = 0 TMP\_212 = 1 not(TMP\_212) = 0 TMP\_213 = 1 not(TMP\_213) = 0 TMP\_214 = 0 not(TMP\_214) = 1 TMP\_215 = 5 TMP\_216 = 0 not(TMP\_216) = 1 TMP\_217 = 0 not(TMP\_217) = 1 TMP\_218 = 0 TMP\_219 = 1 not(TMP\_219) = 0 TMP\_220 = 1 not(TMP\_220) = 0 TMP\_221 = 2 TMP\_222 = 0 not(TMP\_222) = 1 TMP\_223 = 0 not(TMP\_223) = 1 TMP\_224 = 1 not(TMP\_224) = 0 TMP\_225 = 1 not(TMP\_225) = 0 TMP\_226 = 1 not(TMP\_226) = 0 TMP\_227 = 2 TMP\_228 = 0 not(TMP\_228) = 1 TMP\_229 = 1 not(TMP\_229) = 0 TMP\_230 = 1 not(TMP\_230) = 0 TMP\_231 = 1 not(TMP\_231) = 0 TMP\_232 = 1 not(TMP\_232) = 0 TMP\_233 = 0 not(TMP\_233) = 1 TMP\_234 = 4 TMP\_235 = 0 not(TMP\_235) = 1 TMP\_236 = 0 not(TMP\_236) = 1 TMP\_237 = 0 TMP\_238 = 1 not(TMP\_238) = 0 TMP\_239 = 1 not(TMP\_239) = 0 TMP\_240 = 2 TMP\_241 = 0 not(TMP\_241) = 1 TMP\_242 = 0 not(TMP\_242) = 1 TMP\_243 = 1 not(TMP\_243) = 0 TMP\_244 = 1 not(TMP\_244) = 0 TMP\_245 = 1 not(TMP\_245) = 0 TMP\_246 = 2 TMP\_247 = 0 not(TMP\_247) = 1 TMP\_248 = 1 not(TMP\_248) = 0 TMP\_249 = 1 not(TMP\_249) = 0 TMP\_250 = 1 not(TMP\_250) = 0 TMP\_251 = 1 not(TMP\_251) = 0 TMP\_252 = 1 not(TMP\_252) = 0 TMP\_253 = 5 TMP\_254 = 0 not(TMP\_254) = 1 TMP\_255 = 0 not(TMP\_255) = 1 TMP\_256 = 0 TMP\_257 = 1 not(TMP\_257) = 0 TMP\_258 = 1 not(TMP\_258) = 0 TMP\_259 = 2 TMP\_260 = 0 not(TMP\_260) = 1 TMP\_261 = 0 not(TMP\_261) = 1 TMP\_262 = 1 not(TMP\_262) = 0 TMP\_263 = 1 not(TMP\_263) = 0 TMP\_264 = 1 not(TMP\_264) = 0 TMP\_265 = 2 TMP\_266 = 0 not(TMP\_266) = 1 TMP\_267 = 1 not(TMP\_267) = 0 TMP\_268 = 1 not(TMP\_268) = 0 TMP\_269 = 1 not(TMP\_269) = 0 TMP\_270 = 1 not(TMP\_270) = 0 TMP\_271 = 1 not(TMP\_271) = 0 TMP\_272 = 5 TMP\_273 = 0 not(TMP\_273) = 1 TMP\_274 = 0 not(TMP\_274) = 1 TMP\_275 = 0 TMP\_276 = 1 not(TMP\_276) = 0 TMP\_277 = 1 not(TMP\_277) = 0 TMP\_278 = 2 TMP\_279 = 0 not(TMP\_279) = 1 TMP\_280 = 0 not(TMP\_280) = 1 TMP\_281 = 1 not(TMP\_281) = 0 TMP\_282 = 1 not(TMP\_282) = 0 TMP\_283 = 1 not(TMP\_283) = 0 TMP\_284 = 2 TMP\_285 = 0 not(TMP\_285) = 1 TMP\_286 = 1 not(TMP\_286) = 0 TMP\_287 = 1 not(TMP\_287) = 0 TMP\_288 = 1 not(TMP\_288) = 0 TMP\_289 = 1 not(TMP\_289) = 0 TMP\_290 = 1 not(TMP\_290) = 0 TMP\_291 = 5 TMP\_292 = 0 not(TMP\_292) = 1 TMP\_293 = 0 not(TMP\_293) = 1 TMP\_294 = 0 TMP\_295 = 1 not(TMP\_295) = 0 TMP\_296 = 1 not(TMP\_296) = 0 TMP\_297 = 2 TMP\_298 = 0 not(TMP\_298) = 1 TMP\_299 = 0 not(TMP\_299) = 1 TMP\_300 = 1 not(TMP\_300) = 0 TMP\_301 = 1 not(TMP\_301) = 0 TMP\_302 = 1 not(TMP\_302) = 0 TMP\_303 = 2 TMP\_304 = 0 not(TMP\_304) = 1 TMP\_305 = 1 not(TMP\_305) = 0 TMP\_306 = 1 not(TMP\_306) = 0 TMP\_307 = 1 not(TMP\_307) = 0 TMP\_308 = 0 not(TMP\_308) = 1 TMP\_309 = 1 not(TMP\_309) = 0 TMP\_310 = 4 TMP\_311 = 0 not(TMP\_311) = 1 TMP\_312 = 0 not(TMP\_312) = 1 TMP\_313 = 0 TMP\_314 = 1 not(TMP\_314) = 0 TMP\_315 = 1 not(TMP\_315) = 0 TMP\_316 = 2 TMP\_317 = 0 not(TMP\_317) = 1 TMP\_318 = 0 not(TMP\_318) = 1 TMP\_319 = 1 not(TMP\_319) = 0 TMP\_320 = 1 not(TMP\_320) = 0 TMP\_321 = 1 not(TMP\_321) = 0 TMP\_322 = 2 TMP\_323 = 0 not(TMP\_323) = 1 TMP\_324 = 1 not(TMP\_324) = 0 TMP\_325 = 1 not(TMP\_325) = 0 TMP\_326 = 1 not(TMP\_326) = 0 TMP\_327 = 0 not(TMP\_327) = 1 TMP\_328 = 1 not(TMP\_328) = 0 TMP\_329 = 4 TMP\_330 = 0 not(TMP\_330) = 1 TMP\_331 = 0 not(TMP\_331) = 1 TMP\_332 = 0 TMP\_333 = 1 not(TMP\_333) = 0 TMP\_334 = 1 not(TMP\_334) = 0 TMP\_335 = 2 TMP\_336 = 0 not(TMP\_336) = 1 TMP\_337 = 0 not(TMP\_337) = 1 TMP\_338 = 1 not(TMP\_338) = 0 TMP\_339 = 1 not(TMP\_339) = 0 TMP\_340 = 1 not(TMP\_340) = 0 TMP\_341 = 2 TMP\_342 = 1 not(TMP\_342) = 0 TMP\_343 = 1 not(TMP\_343) = 0 TMP\_344 = 1 not(TMP\_344) = 0 TMP\_345 = 1 not(TMP\_345) = 0 TMP\_346 = 0 not(TMP\_346) = 1 TMP\_347 = 1 not(TMP\_347) = 0 TMP\_348 = 5 TMP\_349 = 0 not(TMP\_349) = 1 TMP\_350 = 0 not(TMP\_350) = 1 TMP\_351 = 0 TMP\_352 = 1 not(TMP\_352) = 0 TMP\_353 = 1 not(TMP\_353) = 0 TMP\_354 = 2 TMP\_355 = 0 not(TMP\_355) = 1 TMP\_356 = 0 not(TMP\_356) = 1 TMP\_357 = 1 not(TMP\_357) = 0 TMP\_358 = 1 not(TMP\_358) = 0 TMP\_359 = 1 not(TMP\_359) = 0 TMP\_360 = 2 TMP\_361 = 0 not(TMP\_361) = 1 TMP\_362 = 1 not(TMP\_362) = 0 TMP\_363 = 1 not(TMP\_363) = 0 TMP\_364 = 1 not(TMP\_364) = 0 TMP\_365 = 1 not(TMP\_365) = 0 TMP\_366 = 1 not(TMP\_366) = 0 TMP\_367 = 5 TMP\_368 = 0 not(TMP\_368) = 1 TMP\_369 = 0 not(TMP\_369) = 1 TMP\_370 = 0 TMP\_371 = 1 not(TMP\_371) = 0 TMP\_372 = 1 not(TMP\_372) = 0 TMP\_373 = 2 TMP\_374 = 0 not(TMP\_374) = 1 TMP\_375 = 0 not(TMP\_375) = 1 TMP\_376 = 1 not(TMP\_376) = 0 TMP\_377 = 1 not(TMP\_377) = 0 TMP\_378 = 1 not(TMP\_378) = 0 TMP\_379 = 2 TMP\_380 = 0 not(TMP\_380) = 1 TMP\_381 = 1 not(TMP\_381) = 0 TMP\_382 = 1 not(TMP\_382) = 0 TMP\_383 = 1 not(TMP\_383) = 0 TMP\_384 = 0 not(TMP\_384) = 1 TMP\_385 = 1 not(TMP\_385) = 0 TMP\_386 = 4 TMP\_387 = 0 not(TMP\_387) = 1 TMP\_388 = 0 not(TMP\_388) = 1 TMP\_389 = 0 TMP\_390 = 1 not(TMP\_390) = 0 TMP\_391 = 1 not(TMP\_391) = 0 TMP\_392 = 2 TMP\_393 = 0 not(TMP\_393) = 1 TMP\_394 = 0 not(TMP\_394) = 1 TMP\_395 = 1 not(TMP\_395) = 0 TMP\_396 = 1 not(TMP\_396) = 0 TMP\_397 = 1 not(TMP\_397) = 0 TMP\_398 = 2 TMP\_399 = 0 not(TMP\_399) = 1 TMP\_400 = 1 not(TMP\_400) = 0 TMP\_401 = 1 not(TMP\_401) = 0 TMP\_402 = 1 not(TMP\_402) = 0 TMP\_403 = 1 not(TMP\_403) = 0 TMP\_404 = 1 not(TMP\_404) = 0 TMP\_405 = 5 TMP\_406 = 0 not(TMP\_406) = 1 TMP\_407 = 0 not(TMP\_407) = 1 TMP\_408 = 0 TMP\_409 = 1 not(TMP\_409) = 0 TMP\_410 = 1 not(TMP\_410) = 0 TMP\_411 = 2 TMP\_412 = 0 not(TMP\_412) = 1 TMP\_413 = 0 not(TMP\_413) = 1 TMP\_414 = 1 not(TMP\_414) = 0 TMP\_415 = 1 not(TMP\_415) = 0 TMP\_416 = 1 not(TMP\_416) = 0 TMP\_417 = 2 TMP\_418 = 1 not(TMP\_418) = 0 TMP\_419 = 0 not(TMP\_419) = 1 TMP\_420 = 1 not(TMP\_420) = 0 TMP\_421 = 1 not(TMP\_421) = 0 TMP\_422 = 1 not(TMP\_422) = 0 TMP\_423 = 1 not(TMP\_423) = 0 TMP\_424 = 5 TMP\_425 = 0 not(TMP\_425) = 1 TMP\_426 = 0 not(TMP\_426) = 1 TMP\_427 = 0 TMP\_428 = 1 not(TMP\_428) = 0 TMP\_429 = 1 not(TMP\_429) = 0 TMP\_430 = 2 TMP\_431 = 0 not(TMP\_431) = 1 TMP\_432 = 0 not(TMP\_432) = 1 TMP\_433 = 1 not(TMP\_433) = 0 TMP\_434 = 1 not(TMP\_434) = 0 TMP\_435 = 1 not(TMP\_435) = 0 TMP\_436 = 2 TMP\_437 = 1 not(TMP\_437) = 0 TMP\_438 = 0 not(TMP\_438) = 1 TMP\_439 = 1 not(TMP\_439) = 0 TMP\_440 = 1 not(TMP\_440) = 0 TMP\_441 = 0 not(TMP\_441) = 1 TMP\_442 = 1 not(TMP\_442) = 0 TMP\_443 = 4 TMP\_444 = 0 not(TMP\_444) = 1 TMP\_445 = 0 not(TMP\_445) = 1 TMP\_446 = 0 TMP\_447 = 1 not(TMP\_447) = 0 TMP\_448 = 1 not(TMP\_448) = 0 TMP\_449 = 2 TMP\_450 = 0 not(TMP\_450) = 1 TMP\_451 = 0 not(TMP\_451) = 1 TMP\_452 = 1 not(TMP\_452) = 0 TMP\_453 = 1 not(TMP\_453) = 0 TMP\_454 = 1 not(TMP\_454) = 0 TMP\_455 = 2 TMP\_456 = 1 not(TMP\_456) = 0 TMP\_457 = 1 not(TMP\_457) = 0 TMP\_458 = 1 not(TMP\_458) = 0 TMP\_459 = 1 not(TMP\_459) = 0 TMP\_460 = 0 not(TMP\_460) = 1 TMP\_461 = 1 not(TMP\_461) = 0 TMP\_462 = 5 TMP\_463 = 0 not(TMP\_463) = 1 TMP\_464 = 0 not(TMP\_464) = 1 TMP\_465 = 0 TMP\_466 = 1 not(TMP\_466) = 0 TMP\_467 = 1 not(TMP\_467) = 0 TMP\_468 = 2 TMP\_469 = 0 not(TMP\_469) = 1 TMP\_470 = 0 not(TMP\_470) = 1 TMP\_471 = 1 not(TMP\_471) = 0 TMP\_472 = 1 not(TMP\_472) = 0 TMP\_473 = 1 not(TMP\_473) = 0 TMP\_474 = 2 TMP\_475 = 1 not(TMP\_475) = 0 TMP\_476 = 0 not(TMP\_476) = 1 TMP\_477 = 1 not(TMP\_477) = 0 TMP\_478 = 1 not(TMP\_478) = 0 TMP\_479 = 0 not(TMP\_479) = 1 TMP\_480 = 1 not(TMP\_480) = 0 TMP\_481 = 4 TMP\_482 = 0 not(TMP\_482) = 1 TMP\_483 = 0 not(TMP\_483) = 1 TMP\_484 = 0 TMP\_485 = 1 not(TMP\_485) = 0 TMP\_486 = 1 not(TMP\_486) = 0 TMP\_487 = 2 TMP\_488 = 0 not(TMP\_488) = 1 TMP\_489 = 0 not(TMP\_489) = 1 TMP\_490 = 1 not(TMP\_490) = 0 TMP\_491 = 1 not(TMP\_491) = 0 TMP\_492 = 1 not(TMP\_492) = 0 TMP\_493 = 2 TMP\_494 = 1 not(TMP\_494) = 0 TMP\_495 = 0 not(TMP\_495) = 1 TMP\_496 = 1 not(TMP\_496) = 0 TMP\_497 = 1 not(TMP\_497) = 0 TMP\_498 = 1 not(TMP\_498) = 0 TMP\_499 = 1 not(TMP\_499) = 0 TMP\_500 = 5 TMP\_501 = 0 not(TMP\_501) = 1 TMP\_502 = 0 not(TMP\_502) = 1 TMP\_503 = 0 TMP\_504 = 1 not(TMP\_504) = 0 TMP\_505 = 1 not(TMP\_505) = 0 TMP\_506 = 2 TMP\_507 = 0 not(TMP\_507) = 1 TMP\_508 = 0 not(TMP\_508) = 1 TMP\_509 = 1 not(TMP\_509) = 0 TMP\_510 = 1 not(TMP\_510) = 0 TMP\_511 = 1 not(TMP\_511) = 0 TMP\_512 = 2 TMP\_513 = 1 not(TMP\_513) = 0 TMP\_514 = 1 not(TMP\_514) = 0 TMP\_515 = 1 not(TMP\_515) = 0 TMP\_516 = 1 not(TMP\_516) = 0 TMP\_517 = 0 not(TMP\_517) = 1 TMP\_518 = 1 not(TMP\_518) = 0 TMP\_519 = 5 TMP\_520 = 0 not(TMP\_520) = 1 TMP\_521 = 0 not(TMP\_521) = 1 TMP\_522 = 0 TMP\_523 = 1 not(TMP\_523) = 0 TMP\_524 = 1 not(TMP\_524) = 0 TMP\_525 = 2 TMP\_526 = 0 not(TMP\_526) = 1 TMP\_527 = 0 not(TMP\_527) = 1 TMP\_528 = 1 not(TMP\_528) = 0 TMP\_529 = 1 not(TMP\_529) = 0 TMP\_530 = 1 not(TMP\_530) = 0 TMP\_531 = 2 TMP\_532 = 1 not(TMP\_532) = 0 TMP\_533 = 1 not(TMP\_533) = 0 TMP\_534 = 1 not(TMP\_534) = 0 TMP\_535 = 1 not(TMP\_535) = 0 TMP\_536 = 1 not(TMP\_536) = 0 TMP\_537 = 0 not(TMP\_537) = 1 TMP\_538 = 5 TMP\_539 = 0 not(TMP\_539) = 1 TMP\_540 = 0 not(TMP\_540) = 1 TMP\_541 = 0 TMP\_542 = 1 not(TMP\_542) = 0 TMP\_543 = 1 not(TMP\_543) = 0 TMP\_544 = 2 TMP\_545 = 0 not(TMP\_545) = 1 TMP\_546 = 0 not(TMP\_546) = 1 TMP\_547 = 1 not(TMP\_547) = 0 TMP\_548 = 1 not(TMP\_548) = 0 TMP\_549 = 1 not(TMP\_549) = 0 TMP\_550 = 2 TMP\_551 = 1 not(TMP\_551) = 0 TMP\_552 = 0 not(TMP\_552) = 1 TMP\_553 = 1 not(TMP\_553) = 0 TMP\_554 = 1 not(TMP\_554) = 0 TMP\_555 = 1 not(TMP\_555) = 0 TMP\_556 = 0 not(TMP\_556) = 1 TMP\_557 = 4 TMP\_558 = 0 not(TMP\_558) = 1 TMP\_559 = 0 not(TMP\_559) = 1 TMP\_560 = 0 TMP\_561 = 1 not(TMP\_561) = 0 TMP\_562 = 1 not(TMP\_562) = 0 TMP\_563 = 2 TMP\_564 = 0 not(TMP\_564) = 1 TMP\_565 = 0 not(TMP\_565) = 1 TMP\_566 = 1 not(TMP\_566) = 0 TMP\_567 = 1 not(TMP\_567) = 0 TMP\_568 = 1 not(TMP\_568) = 0 TMP\_569 = 2 TMP\_570 = 1 not(TMP\_570) = 0 TMP\_571 = 0 not(TMP\_571) = 1 TMP\_572 = 1 not(TMP\_572) = 0 TMP\_573 = 1 not(TMP\_573) = 0 TMP\_574 = 1 not(TMP\_574) = 0 TMP\_575 = 1 not(TMP\_575) = 0 TMP\_576 = 5 TMP\_577 = 0 not(TMP\_577) = 1 TMP\_578 = 0 not(TMP\_578) = 1 TMP\_579 = 0 TMP\_580 = 1 not(TMP\_580) = 0 TMP\_581 = 1 not(TMP\_581) = 0 TMP\_582 = 2 TMP\_583 = 0 not(TMP\_583) = 1 TMP\_584 = 0 not(TMP\_584) = 1 TMP\_585 = 1 not(TMP\_585) = 0 TMP\_586 = 1 not(TMP\_586) = 0 TMP\_587 = 1 not(TMP\_587) = 0 TMP\_588 = 2 TMP\_589 = 1 not(TMP\_589) = 0 TMP\_590 = 1 not(TMP\_590) = 0 TMP\_591 = 0 not(TMP\_591) = 1 TMP\_592 = 1 not(TMP\_592) = 0 TMP\_593 = 1 not(TMP\_593) = 0 TMP\_594 = 1 not(TMP\_594) = 0 TMP\_595 = 5 TMP\_596 = 0 not(TMP\_596) = 1 TMP\_597 = 0 not(TMP\_597) = 1 TMP\_598 = 0 TMP\_599 = 1 not(TMP\_599) = 0 TMP\_600 = 1 not(TMP\_600) = 0 TMP\_601 = 2 TMP\_602 = 0 not(TMP\_602) = 1 TMP\_603 = 0 not(TMP\_603) = 1 TMP\_604 = 1 not(TMP\_604) = 0 TMP\_605 = 1 not(TMP\_605) = 0 TMP\_606 = 1 not(TMP\_606) = 0 TMP\_607 = 2 TMP\_608 = 1 not(TMP\_608) = 0 TMP\_609 = 0 not(TMP\_609) = 1 TMP\_610 = 1 not(TMP\_610) = 0 TMP\_611 = 1 not(TMP\_611) = 0 TMP\_612 = 1 not(TMP\_612) = 0 TMP\_613 = 1 not(TMP\_613) = 0 TMP\_614 = 5 TMP\_615 = 0 not(TMP\_615) = 1 TMP\_616 = 0 not(TMP\_616) = 1 TMP\_617 = 0 TMP\_618 = 1 not(TMP\_618) = 0 TMP\_619 = 1 not(TMP\_619) = 0 TMP\_620 = 2 TMP\_621 = 0 not(TMP\_621) = 1 TMP\_622 = 0 not(TMP\_622) = 1 TMP\_623 = 1 not(TMP\_623) = 0 TMP\_624 = 1 not(TMP\_624) = 0 TMP\_625 = 1 not(TMP\_625) = 0 TMP\_626 = 2 TMP\_627 = 1 not(TMP\_627) = 0 TMP\_628 = 0 not(TMP\_628) = 1 TMP\_629 = 1 not(TMP\_629) = 0 TMP\_630 = 1 not(TMP\_630) = 0 TMP\_631 = 1 not(TMP\_631) = 0 TMP\_632 = 0 not(TMP\_632) = 1 TMP\_633 = 4 TMP\_634 = 0 not(TMP\_634) = 1 TMP\_635 = 0 not(TMP\_635) = 1 TMP\_636 = 0 TMP\_637 = 1 not(TMP\_637) = 0 TMP\_638 = 1 not(TMP\_638) = 0 TMP\_639 = 2 TMP\_640 = 0 not(TMP\_640) = 1 TMP\_641 = 0 not(TMP\_641) = 1 TMP\_642 = 1 not(TMP\_642) = 0 TMP\_643 = 1 not(TMP\_643) = 0 TMP\_644 = 1 not(TMP\_644) = 0 TMP\_645 = 2 TMP\_646 = 1 not(TMP\_646) = 0 TMP\_647 = 1 not(TMP\_647) = 0 TMP\_648 = 1 not(TMP\_648) = 0 TMP\_649 = 1 not(TMP\_649) = 0 TMP\_650 = 1 not(TMP\_650) = 0 TMP\_651 = 0 not(TMP\_651) = 1 TMP\_652 = 5 TMP\_653 = 0 not(TMP\_653) = 1 TMP\_654 = 0 not(TMP\_654) = 1 TMP\_655 = 0 TMP\_656 = 1 not(TMP\_656) = 0 TMP\_657 = 1 not(TMP\_657) = 0 TMP\_658 = 2 TMP\_659 = 0 not(TMP\_659) = 1 TMP\_660 = 0 not(TMP\_660) = 1 TMP\_661 = 1 not(TMP\_661) = 0 TMP\_662 = 1 not(TMP\_662) = 0 TMP\_663 = 1 not(TMP\_663) = 0 TMP\_664 = 2 Area\_0 = 60 Distance\_0\_Rule\_0 = 20 Distance\_1\_Rule\_0 = 3 Distance\_2\_Rule\_0 = 1 Area\_1 = 174 Distance\_0\_Rule\_1 = 58 Distance\_1\_Rule\_1 = 3 Distance\_2\_Rule\_1 = 1 Area\_2 = 116 Distance\_0\_Rule\_2 = 58 Distance\_1\_Rule\_2 = 2 Distance\_2\_Rule\_2 = 1 Area\_3 = 79 -(Rule\_3\_LB) = 0 Distance\_0\_Rule\_3 = 79 -(Rule\_3\_LB) = 0 Distance\_1\_Rule\_3 = 1 -(Rule\_3\_LB) = 0 Distance\_2\_Rule\_3 = 1 Area\_4 = 123 -(Rule\_4\_LB) = -79 Distance\_0\_Rule\_4 = 41 -(Rule\_4\_LB) = 0 Distance\_1\_Rule\_4 = 3 -(Rule\_4\_LB) = 0 Distance\_2\_Rule\_4 = 1 Area\_5 = 123 -(Rule\_5\_LB) = -79 Distance\_0\_Rule\_5 = 41 -(Rule\_5\_LB) = 0 Distance\_1\_Rule\_5 = 3 -(Rule\_5\_LB) = -1 Distance\_2\_Rule\_5 = 1 Area\_6 = 3 -(Rule\_6\_LB) = -20 Distance\_0\_Rule\_6 = 1 -(Rule\_6\_LB) = 0 Distance\_1\_Rule\_6 = 3 -(Rule\_6\_LB) = -1 Distance\_2\_Rule\_6 = 1 Area\_7 = 42 -(Rule\_7\_LB) = 0 Distance\_0\_Rule\_7 = 21 -(Rule\_7\_LB) = -1 Distance\_1\_Rule\_7 = 2 -(Rule\_7\_LB) = 0 Distance\_2\_Rule\_7 = 1 TMP\_665 = 720 .

- Solution #2 found. 2 Solutions, Resolution 3.119s, 23819 Nodes (7,635.9 n/s), 47590 Backtracks, 23801 Fails, 0 Restarts

Rule\_3\_LB = 0 Rule\_3\_UB = 79 Rule\_3\_LB = 0 Rule\_3\_UB = 1 Rule\_3\_LB = 0 Rule\_3\_UB = 1 Rule\_4\_LB = 79 Rule\_4\_UB = 120 Rule\_4\_LB = 0 Rule\_4\_UB = 3 Rule\_4\_LB = 0 Rule\_4\_UB = 1 Rule\_5\_LB = 79 Rule\_5\_UB = 120 Rule\_5\_LB = 0 Rule\_5\_UB = 3 Rule\_5\_LB = 1 Rule\_5\_UB = 2 Rule\_6\_LB = 20 Rule\_6\_UB = 21 Rule\_6\_LB = 0 Rule\_6\_UB = 3 Rule\_6\_LB = 1 Rule\_6\_UB = 2 Rule\_7\_LB = 0 Rule\_7\_UB = 21 Rule\_7\_LB = 1 Rule\_7\_UB = 3 Rule\_7\_LB = 0 Rule\_7\_UB = 1 Overlaps\_0\_0 = 0 Overlaps\_0\_1 = 0 Overlaps\_0\_2 = 0 Overlaps\_0\_3 = 0 Overlaps\_0\_4 = 0 Overlaps\_0\_5 = 0 Overlaps\_0\_6 = 0 Overlaps\_0\_7 = 0 Overlaps\_1\_0 = 0 Overlaps\_1\_1 = 0 Overlaps\_1\_2 = 0 Overlaps\_1\_3 = 0 Overlaps\_1\_4 = 0 Overlaps\_1\_5 = 0 Overlaps\_1\_6 = 0 Overlaps\_1\_7 = 0 Overlaps\_2\_0 = 1 Overlaps\_2\_1 = 0 Overlaps\_2\_2 = 0 Overlaps\_2\_3 = 0 Overlaps\_2\_4 = 0 Overlaps\_2\_5 = 0 Overlaps\_2\_6 = 0 Overlaps\_2\_7 = 0 Overlaps\_3\_0 = 0 Overlaps\_3\_1 = 0 Overlaps\_3\_2 = 0 Overlaps\_3\_3 = 0 Overlaps\_3\_4 = 0 Overlaps\_3\_5 = 0 Overlaps\_3\_6 = 0 Overlaps\_3\_7 = 0 Overlaps\_4\_0 = 0 Overlaps\_4\_1 = 0 Overlaps\_4\_2 = 0 Overlaps\_4\_3 = 0 Overlaps\_4\_4 = 0 Overlaps\_4\_5 = 0 Overlaps\_4\_6 = 0 Overlaps\_4\_7 = 0 Overlaps\_5\_0 = 0 Overlaps\_5\_1 = 0 Overlaps\_5\_2 = 0 Overlaps\_5\_3 = 0 Overlaps\_5\_4 = 0 Overlaps\_5\_5 = 0 Overlaps\_5\_6 = 0 Overlaps\_5\_7 = 0 Overlaps\_6\_0 = 0 Overlaps\_6\_1 = 0 Overlaps\_6\_2 = 0 Overlaps\_6\_3 = 0 Overlaps\_6\_4 = 0 Overlaps\_6\_5 = 0 Overlaps\_6\_6 = 0 Overlaps\_6\_7 = 0 Overlaps\_7\_0 = 0 Overlaps\_7\_1 = 0 Overlaps\_7\_2 = 0 Overlaps\_7\_3 = 0 Overlaps\_7\_4 = 0 Overlaps\_7\_5 = 0 Overlaps\_7\_6 = 0 Overlaps\_7\_7 = 0 TMP\_0 = 1 not(TMP\_0) = 0 TMP\_1 = 1 not(TMP\_1) = 0 TMP\_2 = 1 not(TMP\_2) = 0 TMP\_3 = 1 not(TMP\_3) = 0 TMP\_4 = 1 not(TMP\_4) = 0 TMP\_5 = 0 not(TMP\_5) = 1 TMP\_6 = 5 TMP\_7 = 0 not(TMP\_7) = 1 TMP\_8 = 0 not(TMP\_8) = 1 TMP\_9 = 0 TMP\_10 = 1 not(TMP\_10) = 0 TMP\_11 = 1 not(TMP\_11) = 0 TMP\_12 = 2 TMP\_13 = 0 not(TMP\_13) = 1 TMP\_14 = 0 not(TMP\_14) = 1 TMP\_15 = 1 not(TMP\_15) = 0 TMP\_16 = 1 not(TMP\_16) = 0 TMP\_17 = 1 not(TMP\_17) = 0 TMP\_18 = 2 TMP\_19 = 1 not(TMP\_19) = 0 TMP\_20 = 1 not(TMP\_20) = 0 TMP\_21 = 1 not(TMP\_21) = 0 TMP\_22 = 1 not(TMP\_22) = 0 TMP\_23 = 1 not(TMP\_23) = 0 TMP\_24 = 0 not(TMP\_24) = 1 TMP\_25 = 5 TMP\_26 = 0 not(TMP\_26) = 1 TMP\_27 = 0 not(TMP\_27) = 1 TMP\_28 = 0 TMP\_29 = 1 not(TMP\_29) = 0 TMP\_30 = 1 not(TMP\_30) = 0 TMP\_31 = 2 TMP\_32 = 0 not(TMP\_32) = 1 TMP\_33 = 0 not(TMP\_33) = 1 TMP\_34 = 1 not(TMP\_34) = 0 TMP\_35 = 1 not(TMP\_35) = 0 TMP\_36 = 1 not(TMP\_36) = 0 TMP\_37 = 2 TMP\_38 = 1 not(TMP\_38) = 0 TMP\_39 = 1 not(TMP\_39) = 0 TMP\_40 = 1 not(TMP\_40) = 0 TMP\_41 = 0 not(TMP\_41) = 1 TMP\_42 = 1 not(TMP\_42) = 0 TMP\_43 = 1 not(TMP\_43) = 0 TMP\_44 = 5 TMP\_45 = 0 not(TMP\_45) = 1 TMP\_46 = 0 not(TMP\_46) = 1 TMP\_47 = 0 TMP\_48 = 1 not(TMP\_48) = 0 TMP\_49 = 1 not(TMP\_49) = 0 TMP\_50 = 2 TMP\_51 = 0 not(TMP\_51) = 1 TMP\_52 = 0 not(TMP\_52) = 1 TMP\_53 = 1 not(TMP\_53) = 0 TMP\_54 = 1 not(TMP\_54) = 0 TMP\_55 = 1 not(TMP\_55) = 0 TMP\_56 = 2 TMP\_57 = 1 not(TMP\_57) = 0 TMP\_58 = 0 not(TMP\_58) = 1 TMP\_59 = 1 not(TMP\_59) = 0 TMP\_60 = 1 not(TMP\_60) = 0 TMP\_61 = 1 not(TMP\_61) = 0 TMP\_62 = 1 not(TMP\_62) = 0 TMP\_63 = 5 TMP\_64 = 0 not(TMP\_64) = 1 TMP\_65 = 0 not(TMP\_65) = 1 TMP\_66 = 0 TMP\_67 = 1 not(TMP\_67) = 0 TMP\_68 = 1 not(TMP\_68) = 0 TMP\_69 = 2 TMP\_70 = 0 not(TMP\_70) = 1 TMP\_71 = 0 not(TMP\_71) = 1 TMP\_72 = 1 not(TMP\_72) = 0 TMP\_73 = 1 not(TMP\_73) = 0 TMP\_74 = 1 not(TMP\_74) = 0 TMP\_75 = 2 TMP\_76 = 1 not(TMP\_76) = 0 TMP\_77 = 0 not(TMP\_77) = 1 TMP\_78 = 1 not(TMP\_78) = 0 TMP\_79 = 1 not(TMP\_79) = 0 TMP\_80 = 1 not(TMP\_80) = 0 TMP\_81 = 0 not(TMP\_81) = 1 TMP\_82 = 4 TMP\_83 = 0 not(TMP\_83) = 1 TMP\_84 = 0 not(TMP\_84) = 1 TMP\_85 = 0 TMP\_86 = 1 not(TMP\_86) = 0 TMP\_87 = 1 not(TMP\_87) = 0 TMP\_88 = 2 TMP\_89 = 0 not(TMP\_89) = 1 TMP\_90 = 0 not(TMP\_90) = 1 TMP\_91 = 1 not(TMP\_91) = 0 TMP\_92 = 1 not(TMP\_92) = 0 TMP\_93 = 1 not(TMP\_93) = 0 TMP\_94 = 2 TMP\_95 = 1 not(TMP\_95) = 0 TMP\_96 = 1 not(TMP\_96) = 0 TMP\_97 = 1 not(TMP\_97) = 0 TMP\_98 = 1 not(TMP\_98) = 0 TMP\_99 = 1 not(TMP\_99) = 0 TMP\_100 = 0 not(TMP\_100) = 1 TMP\_101 = 5 TMP\_102 = 0 not(TMP\_102) = 1 TMP\_103 = 0 not(TMP\_103) = 1 TMP\_104 = 0 TMP\_105 = 1 not(TMP\_105) = 0 TMP\_106 = 1 not(TMP\_106) = 0 TMP\_107 = 2 TMP\_108 = 0 not(TMP\_108) = 1 TMP\_109 = 0 not(TMP\_109) = 1 TMP\_110 = 1 not(TMP\_110) = 0 TMP\_111 = 1 not(TMP\_111) = 0 TMP\_112 = 1 not(TMP\_112) = 0 TMP\_113 = 2 TMP\_114 = 1 not(TMP\_114) = 0 TMP\_115 = 1 not(TMP\_115) = 0 TMP\_116 = 1 not(TMP\_116) = 0 TMP\_117 = 0 not(TMP\_117) = 1 TMP\_118 = 1 not(TMP\_118) = 0 TMP\_119 = 1 not(TMP\_119) = 0 TMP\_120 = 5 TMP\_121 = 0 not(TMP\_121) = 1 TMP\_122 = 0 not(TMP\_122) = 1 TMP\_123 = 0 TMP\_124 = 1 not(TMP\_124) = 0 TMP\_125 = 1 not(TMP\_125) = 0 TMP\_126 = 2 TMP\_127 = 0 not(TMP\_127) = 1 TMP\_128 = 0 not(TMP\_128) = 1 TMP\_129 = 1 not(TMP\_129) = 0 TMP\_130 = 1 not(TMP\_130) = 0 TMP\_131 = 1 not(TMP\_131) = 0 TMP\_132 = 2 TMP\_133 = 0 not(TMP\_133) = 1 TMP\_134 = 1 not(TMP\_134) = 0 TMP\_135 = 1 not(TMP\_135) = 0 TMP\_136 = 1 not(TMP\_136) = 0 TMP\_137 = 1 not(TMP\_137) = 0 TMP\_138 = 0 not(TMP\_138) = 1 TMP\_139 = 4 TMP\_140 = 0 not(TMP\_140) = 1 TMP\_141 = 0 not(TMP\_141) = 1 TMP\_142 = 0 TMP\_143 = 1 not(TMP\_143) = 0 TMP\_144 = 1 not(TMP\_144) = 0 TMP\_145 = 2 TMP\_146 = 0 not(TMP\_146) = 1 TMP\_147 = 0 not(TMP\_147) = 1 TMP\_148 = 1 not(TMP\_148) = 0 TMP\_149 = 1 not(TMP\_149) = 0 TMP\_150 = 1 not(TMP\_150) = 0 TMP\_151 = 2 TMP\_152 = 0 not(TMP\_152) = 1 TMP\_153 = 1 not(TMP\_153) = 0 TMP\_154 = 1 not(TMP\_154) = 0 TMP\_155 = 1 not(TMP\_155) = 0 TMP\_156 = 1 not(TMP\_156) = 0 TMP\_157 = 0 not(TMP\_157) = 1 TMP\_158 = 4 TMP\_159 = 0 not(TMP\_159) = 1 TMP\_160 = 0 not(TMP\_160) = 1 TMP\_161 = 0 TMP\_162 = 1 not(TMP\_162) = 0 TMP\_163 = 1 not(TMP\_163) = 0 TMP\_164 = 2 TMP\_165 = 0 not(TMP\_165) = 1 TMP\_166 = 0 not(TMP\_166) = 1 TMP\_167 = 1 not(TMP\_167) = 0 TMP\_168 = 1 not(TMP\_168) = 0 TMP\_169 = 1 not(TMP\_169) = 0 TMP\_170 = 2 TMP\_171 = 0 not(TMP\_171) = 1 TMP\_172 = 1 not(TMP\_172) = 0 TMP\_173 = 1 not(TMP\_173) = 0 TMP\_174 = 1 not(TMP\_174) = 0 TMP\_175 = 1 not(TMP\_175) = 0 TMP\_176 = 1 not(TMP\_176) = 0 TMP\_177 = 5 TMP\_178 = 0 not(TMP\_178) = 1 TMP\_179 = 0 not(TMP\_179) = 1 TMP\_180 = 0 TMP\_181 = 1 not(TMP\_181) = 0 TMP\_182 = 1 not(TMP\_182) = 0 TMP\_183 = 2 TMP\_184 = 0 not(TMP\_184) = 1 TMP\_185 = 0 not(TMP\_185) = 1 TMP\_186 = 1 not(TMP\_186) = 0 TMP\_187 = 1 not(TMP\_187) = 0 TMP\_188 = 1 not(TMP\_188) = 0 TMP\_189 = 2 TMP\_190 = 0 not(TMP\_190) = 1 TMP\_191 = 1 not(TMP\_191) = 0 TMP\_192 = 1 not(TMP\_192) = 0 TMP\_193 = 1 not(TMP\_193) = 0 TMP\_194 = 1 not(TMP\_194) = 0 TMP\_195 = 1 not(TMP\_195) = 0 TMP\_196 = 5 TMP\_197 = 0 not(TMP\_197) = 1 TMP\_198 = 0 not(TMP\_198) = 1 TMP\_199 = 0 TMP\_200 = 1 not(TMP\_200) = 0 TMP\_201 = 1 not(TMP\_201) = 0 TMP\_202 = 2 TMP\_203 = 0 not(TMP\_203) = 1 TMP\_204 = 0 not(TMP\_204) = 1 TMP\_205 = 1 not(TMP\_205) = 0 TMP\_206 = 1 not(TMP\_206) = 0 TMP\_207 = 1 not(TMP\_207) = 0 TMP\_208 = 2 TMP\_209 = 1 not(TMP\_209) = 0 TMP\_210 = 1 not(TMP\_210) = 0 TMP\_211 = 1 not(TMP\_211) = 0 TMP\_212 = 1 not(TMP\_212) = 0 TMP\_213 = 1 not(TMP\_213) = 0 TMP\_214 = 0 not(TMP\_214) = 1 TMP\_215 = 5 TMP\_216 = 0 not(TMP\_216) = 1 TMP\_217 = 0 not(TMP\_217) = 1 TMP\_218 = 0 TMP\_219 = 1 not(TMP\_219) = 0 TMP\_220 = 1 not(TMP\_220) = 0 TMP\_221 = 2 TMP\_222 = 0 not(TMP\_222) = 1 TMP\_223 = 0 not(TMP\_223) = 1 TMP\_224 = 1 not(TMP\_224) = 0 TMP\_225 = 1 not(TMP\_225) = 0 TMP\_226 = 1 not(TMP\_226) = 0 TMP\_227 = 2 TMP\_228 = 0 not(TMP\_228) = 1 TMP\_229 = 1 not(TMP\_229) = 0 TMP\_230 = 1 not(TMP\_230) = 0 TMP\_231 = 1 not(TMP\_231) = 0 TMP\_232 = 1 not(TMP\_232) = 0 TMP\_233 = 0 not(TMP\_233) = 1 TMP\_234 = 4 TMP\_235 = 0 not(TMP\_235) = 1 TMP\_236 = 0 not(TMP\_236) = 1 TMP\_237 = 0 TMP\_238 = 1 not(TMP\_238) = 0 TMP\_239 = 1 not(TMP\_239) = 0 TMP\_240 = 2 TMP\_241 = 0 not(TMP\_241) = 1 TMP\_242 = 0 not(TMP\_242) = 1 TMP\_243 = 1 not(TMP\_243) = 0 TMP\_244 = 1 not(TMP\_244) = 0 TMP\_245 = 1 not(TMP\_245) = 0 TMP\_246 = 2 TMP\_247 = 0 not(TMP\_247) = 1 TMP\_248 = 1 not(TMP\_248) = 0 TMP\_249 = 1 not(TMP\_249) = 0 TMP\_250 = 1 not(TMP\_250) = 0 TMP\_251 = 1 not(TMP\_251) = 0 TMP\_252 = 1 not(TMP\_252) = 0 TMP\_253 = 5 TMP\_254 = 0 not(TMP\_254) = 1 TMP\_255 = 0 not(TMP\_255) = 1 TMP\_256 = 0 TMP\_257 = 1 not(TMP\_257) = 0 TMP\_258 = 1 not(TMP\_258) = 0 TMP\_259 = 2 TMP\_260 = 0 not(TMP\_260) = 1 TMP\_261 = 0 not(TMP\_261) = 1 TMP\_262 = 1 not(TMP\_262) = 0 TMP\_263 = 1 not(TMP\_263) = 0 TMP\_264 = 1 not(TMP\_264) = 0 TMP\_265 = 2 TMP\_266 = 0 not(TMP\_266) = 1 TMP\_267 = 1 not(TMP\_267) = 0 TMP\_268 = 1 not(TMP\_268) = 0 TMP\_269 = 1 not(TMP\_269) = 0 TMP\_270 = 1 not(TMP\_270) = 0 TMP\_271 = 1 not(TMP\_271) = 0 TMP\_272 = 5 TMP\_273 = 0 not(TMP\_273) = 1 TMP\_274 = 0 not(TMP\_274) = 1 TMP\_275 = 0 TMP\_276 = 1 not(TMP\_276) = 0 TMP\_277 = 1 not(TMP\_277) = 0 TMP\_278 = 2 TMP\_279 = 0 not(TMP\_279) = 1 TMP\_280 = 0 not(TMP\_280) = 1 TMP\_281 = 1 not(TMP\_281) = 0 TMP\_282 = 1 not(TMP\_282) = 0 TMP\_283 = 1 not(TMP\_283) = 0 TMP\_284 = 2 TMP\_285 = 0 not(TMP\_285) = 1 TMP\_286 = 1 not(TMP\_286) = 0 TMP\_287 = 1 not(TMP\_287) = 0 TMP\_288 = 1 not(TMP\_288) = 0 TMP\_289 = 1 not(TMP\_289) = 0 TMP\_290 = 1 not(TMP\_290) = 0 TMP\_291 = 5 TMP\_292 = 0 not(TMP\_292) = 1 TMP\_293 = 0 not(TMP\_293) = 1 TMP\_294 = 0 TMP\_295 = 1 not(TMP\_295) = 0 TMP\_296 = 1 not(TMP\_296) = 0 TMP\_297 = 2 TMP\_298 = 0 not(TMP\_298) = 1 TMP\_299 = 0 not(TMP\_299) = 1 TMP\_300 = 1 not(TMP\_300) = 0 TMP\_301 = 1 not(TMP\_301) = 0 TMP\_302 = 1 not(TMP\_302) = 0 TMP\_303 = 2 TMP\_304 = 0 not(TMP\_304) = 1 TMP\_305 = 1 not(TMP\_305) = 0 TMP\_306 = 1 not(TMP\_306) = 0 TMP\_307 = 1 not(TMP\_307) = 0 TMP\_308 = 0 not(TMP\_308) = 1 TMP\_309 = 1 not(TMP\_309) = 0 TMP\_310 = 4 TMP\_311 = 0 not(TMP\_311) = 1 TMP\_312 = 0 not(TMP\_312) = 1 TMP\_313 = 0 TMP\_314 = 1 not(TMP\_314) = 0 TMP\_315 = 1 not(TMP\_315) = 0 TMP\_316 = 2 TMP\_317 = 0 not(TMP\_317) = 1 TMP\_318 = 0 not(TMP\_318) = 1 TMP\_319 = 1 not(TMP\_319) = 0 TMP\_320 = 1 not(TMP\_320) = 0 TMP\_321 = 1 not(TMP\_321) = 0 TMP\_322 = 2 TMP\_323 = 0 not(TMP\_323) = 1 TMP\_324 = 1 not(TMP\_324) = 0 TMP\_325 = 1 not(TMP\_325) = 0 TMP\_326 = 1 not(TMP\_326) = 0 TMP\_327 = 0 not(TMP\_327) = 1 TMP\_328 = 1 not(TMP\_328) = 0 TMP\_329 = 4 TMP\_330 = 0 not(TMP\_330) = 1 TMP\_331 = 0 not(TMP\_331) = 1 TMP\_332 = 0 TMP\_333 = 1 not(TMP\_333) = 0 TMP\_334 = 1 not(TMP\_334) = 0 TMP\_335 = 2 TMP\_336 = 0 not(TMP\_336) = 1 TMP\_337 = 0 not(TMP\_337) = 1 TMP\_338 = 1 not(TMP\_338) = 0 TMP\_339 = 1 not(TMP\_339) = 0 TMP\_340 = 1 not(TMP\_340) = 0 TMP\_341 = 2 TMP\_342 = 1 not(TMP\_342) = 0 TMP\_343 = 1 not(TMP\_343) = 0 TMP\_344 = 1 not(TMP\_344) = 0 TMP\_345 = 1 not(TMP\_345) = 0 TMP\_346 = 0 not(TMP\_346) = 1 TMP\_347 = 1 not(TMP\_347) = 0 TMP\_348 = 5 TMP\_349 = 0 not(TMP\_349) = 1 TMP\_350 = 0 not(TMP\_350) = 1 TMP\_351 = 0 TMP\_352 = 1 not(TMP\_352) = 0 TMP\_353 = 1 not(TMP\_353) = 0 TMP\_354 = 2 TMP\_355 = 0 not(TMP\_355) = 1 TMP\_356 = 0 not(TMP\_356) = 1 TMP\_357 = 1 not(TMP\_357) = 0 TMP\_358 = 1 not(TMP\_358) = 0 TMP\_359 = 1 not(TMP\_359) = 0 TMP\_360 = 2 TMP\_361 = 0 not(TMP\_361) = 1 TMP\_362 = 1 not(TMP\_362) = 0 TMP\_363 = 1 not(TMP\_363) = 0 TMP\_364 = 1 not(TMP\_364) = 0 TMP\_365 = 1 not(TMP\_365) = 0 TMP\_366 = 1 not(TMP\_366) = 0 TMP\_367 = 5 TMP\_368 = 0 not(TMP\_368) = 1 TMP\_369 = 0 not(TMP\_369) = 1 TMP\_370 = 0 TMP\_371 = 1 not(TMP\_371) = 0 TMP\_372 = 1 not(TMP\_372) = 0 TMP\_373 = 2 TMP\_374 = 0 not(TMP\_374) = 1 TMP\_375 = 0 not(TMP\_375) = 1 TMP\_376 = 1 not(TMP\_376) = 0 TMP\_377 = 1 not(TMP\_377) = 0 TMP\_378 = 1 not(TMP\_378) = 0 TMP\_379 = 2 TMP\_380 = 0 not(TMP\_380) = 1 TMP\_381 = 1 not(TMP\_381) = 0 TMP\_382 = 1 not(TMP\_382) = 0 TMP\_383 = 1 not(TMP\_383) = 0 TMP\_384 = 0 not(TMP\_384) = 1 TMP\_385 = 1 not(TMP\_385) = 0 TMP\_386 = 4 TMP\_387 = 0 not(TMP\_387) = 1 TMP\_388 = 0 not(TMP\_388) = 1 TMP\_389 = 0 TMP\_390 = 1 not(TMP\_390) = 0 TMP\_391 = 1 not(TMP\_391) = 0 TMP\_392 = 2 TMP\_393 = 0 not(TMP\_393) = 1 TMP\_394 = 0 not(TMP\_394) = 1 TMP\_395 = 1 not(TMP\_395) = 0 TMP\_396 = 1 not(TMP\_396) = 0 TMP\_397 = 1 not(TMP\_397) = 0 TMP\_398 = 2 TMP\_399 = 0 not(TMP\_399) = 1 TMP\_400 = 1 not(TMP\_400) = 0 TMP\_401 = 1 not(TMP\_401) = 0 TMP\_402 = 1 not(TMP\_402) = 0 TMP\_403 = 1 not(TMP\_403) = 0 TMP\_404 = 1 not(TMP\_404) = 0 TMP\_405 = 5 TMP\_406 = 0 not(TMP\_406) = 1 TMP\_407 = 0 not(TMP\_407) = 1 TMP\_408 = 0 TMP\_409 = 1 not(TMP\_409) = 0 TMP\_410 = 1 not(TMP\_410) = 0 TMP\_411 = 2 TMP\_412 = 0 not(TMP\_412) = 1 TMP\_413 = 0 not(TMP\_413) = 1 TMP\_414 = 1 not(TMP\_414) = 0 TMP\_415 = 1 not(TMP\_415) = 0 TMP\_416 = 1 not(TMP\_416) = 0 TMP\_417 = 2 TMP\_418 = 1 not(TMP\_418) = 0 TMP\_419 = 0 not(TMP\_419) = 1 TMP\_420 = 1 not(TMP\_420) = 0 TMP\_421 = 1 not(TMP\_421) = 0 TMP\_422 = 1 not(TMP\_422) = 0 TMP\_423 = 1 not(TMP\_423) = 0 TMP\_424 = 5 TMP\_425 = 0 not(TMP\_425) = 1 TMP\_426 = 0 not(TMP\_426) = 1 TMP\_427 = 0 TMP\_428 = 1 not(TMP\_428) = 0 TMP\_429 = 1 not(TMP\_429) = 0 TMP\_430 = 2 TMP\_431 = 0 not(TMP\_431) = 1 TMP\_432 = 0 not(TMP\_432) = 1 TMP\_433 = 1 not(TMP\_433) = 0 TMP\_434 = 1 not(TMP\_434) = 0 TMP\_435 = 1 not(TMP\_435) = 0 TMP\_436 = 2 TMP\_437 = 1 not(TMP\_437) = 0 TMP\_438 = 0 not(TMP\_438) = 1 TMP\_439 = 1 not(TMP\_439) = 0 TMP\_440 = 1 not(TMP\_440) = 0 TMP\_441 = 0 not(TMP\_441) = 1 TMP\_442 = 1 not(TMP\_442) = 0 TMP\_443 = 4 TMP\_444 = 0 not(TMP\_444) = 1 TMP\_445 = 0 not(TMP\_445) = 1 TMP\_446 = 0 TMP\_447 = 1 not(TMP\_447) = 0 TMP\_448 = 1 not(TMP\_448) = 0 TMP\_449 = 2 TMP\_450 = 0 not(TMP\_450) = 1 TMP\_451 = 0 not(TMP\_451) = 1 TMP\_452 = 1 not(TMP\_452) = 0 TMP\_453 = 1 not(TMP\_453) = 0 TMP\_454 = 1 not(TMP\_454) = 0 TMP\_455 = 2 TMP\_456 = 1 not(TMP\_456) = 0 TMP\_457 = 1 not(TMP\_457) = 0 TMP\_458 = 1 not(TMP\_458) = 0 TMP\_459 = 1 not(TMP\_459) = 0 TMP\_460 = 0 not(TMP\_460) = 1 TMP\_461 = 1 not(TMP\_461) = 0 TMP\_462 = 5 TMP\_463 = 0 not(TMP\_463) = 1 TMP\_464 = 0 not(TMP\_464) = 1 TMP\_465 = 0 TMP\_466 = 1 not(TMP\_466) = 0 TMP\_467 = 1 not(TMP\_467) = 0 TMP\_468 = 2 TMP\_469 = 0 not(TMP\_469) = 1 TMP\_470 = 0 not(TMP\_470) = 1 TMP\_471 = 1 not(TMP\_471) = 0 TMP\_472 = 1 not(TMP\_472) = 0 TMP\_473 = 1 not(TMP\_473) = 0 TMP\_474 = 2 TMP\_475 = 1 not(TMP\_475) = 0 TMP\_476 = 0 not(TMP\_476) = 1 TMP\_477 = 1 not(TMP\_477) = 0 TMP\_478 = 1 not(TMP\_478) = 0 TMP\_479 = 0 not(TMP\_479) = 1 TMP\_480 = 1 not(TMP\_480) = 0 TMP\_481 = 4 TMP\_482 = 0 not(TMP\_482) = 1 TMP\_483 = 0 not(TMP\_483) = 1 TMP\_484 = 0 TMP\_485 = 1 not(TMP\_485) = 0 TMP\_486 = 1 not(TMP\_486) = 0 TMP\_487 = 2 TMP\_488 = 0 not(TMP\_488) = 1 TMP\_489 = 0 not(TMP\_489) = 1 TMP\_490 = 1 not(TMP\_490) = 0 TMP\_491 = 1 not(TMP\_491) = 0 TMP\_492 = 1 not(TMP\_492) = 0 TMP\_493 = 2 TMP\_494 = 1 not(TMP\_494) = 0 TMP\_495 = 0 not(TMP\_495) = 1 TMP\_496 = 1 not(TMP\_496) = 0 TMP\_497 = 1 not(TMP\_497) = 0 TMP\_498 = 1 not(TMP\_498) = 0 TMP\_499 = 1 not(TMP\_499) = 0 TMP\_500 = 5 TMP\_501 = 0 not(TMP\_501) = 1 TMP\_502 = 0 not(TMP\_502) = 1 TMP\_503 = 0 TMP\_504 = 1 not(TMP\_504) = 0 TMP\_505 = 1 not(TMP\_505) = 0 TMP\_506 = 2 TMP\_507 = 0 not(TMP\_507) = 1 TMP\_508 = 0 not(TMP\_508) = 1 TMP\_509 = 1 not(TMP\_509) = 0 TMP\_510 = 1 not(TMP\_510) = 0 TMP\_511 = 1 not(TMP\_511) = 0 TMP\_512 = 2 TMP\_513 = 1 not(TMP\_513) = 0 TMP\_514 = 1 not(TMP\_514) = 0 TMP\_515 = 1 not(TMP\_515) = 0 TMP\_516 = 1 not(TMP\_516) = 0 TMP\_517 = 0 not(TMP\_517) = 1 TMP\_518 = 1 not(TMP\_518) = 0 TMP\_519 = 5 TMP\_520 = 0 not(TMP\_520) = 1 TMP\_521 = 0 not(TMP\_521) = 1 TMP\_522 = 0 TMP\_523 = 1 not(TMP\_523) = 0 TMP\_524 = 1 not(TMP\_524) = 0 TMP\_525 = 2 TMP\_526 = 0 not(TMP\_526) = 1 TMP\_527 = 0 not(TMP\_527) = 1 TMP\_528 = 1 not(TMP\_528) = 0 TMP\_529 = 1 not(TMP\_529) = 0 TMP\_530 = 1 not(TMP\_530) = 0 TMP\_531 = 2 TMP\_532 = 1 not(TMP\_532) = 0 TMP\_533 = 1 not(TMP\_533) = 0 TMP\_534 = 1 not(TMP\_534) = 0 TMP\_535 = 1 not(TMP\_535) = 0 TMP\_536 = 1 not(TMP\_536) = 0 TMP\_537 = 0 not(TMP\_537) = 1 TMP\_538 = 5 TMP\_539 = 0 not(TMP\_539) = 1 TMP\_540 = 0 not(TMP\_540) = 1 TMP\_541 = 0 TMP\_542 = 1 not(TMP\_542) = 0 TMP\_543 = 1 not(TMP\_543) = 0 TMP\_544 = 2 TMP\_545 = 0 not(TMP\_545) = 1 TMP\_546 = 0 not(TMP\_546) = 1 TMP\_547 = 1 not(TMP\_547) = 0 TMP\_548 = 1 not(TMP\_548) = 0 TMP\_549 = 1 not(TMP\_549) = 0 TMP\_550 = 2 TMP\_551 = 1 not(TMP\_551) = 0 TMP\_552 = 0 not(TMP\_552) = 1 TMP\_553 = 1 not(TMP\_553) = 0 TMP\_554 = 1 not(TMP\_554) = 0 TMP\_555 = 1 not(TMP\_555) = 0 TMP\_556 = 0 not(TMP\_556) = 1 TMP\_557 = 4 TMP\_558 = 0 not(TMP\_558) = 1 TMP\_559 = 0 not(TMP\_559) = 1 TMP\_560 = 0 TMP\_561 = 1 not(TMP\_561) = 0 TMP\_562 = 1 not(TMP\_562) = 0 TMP\_563 = 2 TMP\_564 = 0 not(TMP\_564) = 1 TMP\_565 = 0 not(TMP\_565) = 1 TMP\_566 = 1 not(TMP\_566) = 0 TMP\_567 = 1 not(TMP\_567) = 0 TMP\_568 = 1 not(TMP\_568) = 0 TMP\_569 = 2 TMP\_570 = 1 not(TMP\_570) = 0 TMP\_571 = 0 not(TMP\_571) = 1 TMP\_572 = 1 not(TMP\_572) = 0 TMP\_573 = 1 not(TMP\_573) = 0 TMP\_574 = 1 not(TMP\_574) = 0 TMP\_575 = 1 not(TMP\_575) = 0 TMP\_576 = 5 TMP\_577 = 0 not(TMP\_577) = 1 TMP\_578 = 0 not(TMP\_578) = 1 TMP\_579 = 0 TMP\_580 = 1 not(TMP\_580) = 0 TMP\_581 = 1 not(TMP\_581) = 0 TMP\_582 = 2 TMP\_583 = 0 not(TMP\_583) = 1 TMP\_584 = 0 not(TMP\_584) = 1 TMP\_585 = 1 not(TMP\_585) = 0 TMP\_586 = 1 not(TMP\_586) = 0 TMP\_587 = 1 not(TMP\_587) = 0 TMP\_588 = 2 TMP\_589 = 1 not(TMP\_589) = 0 TMP\_590 = 1 not(TMP\_590) = 0 TMP\_591 = 0 not(TMP\_591) = 1 TMP\_592 = 1 not(TMP\_592) = 0 TMP\_593 = 1 not(TMP\_593) = 0 TMP\_594 = 1 not(TMP\_594) = 0 TMP\_595 = 5 TMP\_596 = 0 not(TMP\_596) = 1 TMP\_597 = 0 not(TMP\_597) = 1 TMP\_598 = 0 TMP\_599 = 1 not(TMP\_599) = 0 TMP\_600 = 1 not(TMP\_600) = 0 TMP\_601 = 2 TMP\_602 = 0 not(TMP\_602) = 1 TMP\_603 = 0 not(TMP\_603) = 1 TMP\_604 = 1 not(TMP\_604) = 0 TMP\_605 = 1 not(TMP\_605) = 0 TMP\_606 = 1 not(TMP\_606) = 0 TMP\_607 = 2 TMP\_608 = 1 not(TMP\_608) = 0 TMP\_609 = 0 not(TMP\_609) = 1 TMP\_610 = 1 not(TMP\_610) = 0 TMP\_611 = 1 not(TMP\_611) = 0 TMP\_612 = 1 not(TMP\_612) = 0 TMP\_613 = 1 not(TMP\_613) = 0 TMP\_614 = 5 TMP\_615 = 0 not(TMP\_615) = 1 TMP\_616 = 0 not(TMP\_616) = 1 TMP\_617 = 0 TMP\_618 = 1 not(TMP\_618) = 0 TMP\_619 = 1 not(TMP\_619) = 0 TMP\_620 = 2 TMP\_621 = 0 not(TMP\_621) = 1 TMP\_622 = 0 not(TMP\_622) = 1 TMP\_623 = 1 not(TMP\_623) = 0 TMP\_624 = 1 not(TMP\_624) = 0 TMP\_625 = 1 not(TMP\_625) = 0 TMP\_626 = 2 TMP\_627 = 1 not(TMP\_627) = 0 TMP\_628 = 0 not(TMP\_628) = 1 TMP\_629 = 1 not(TMP\_629) = 0 TMP\_630 = 1 not(TMP\_630) = 0 TMP\_631 = 1 not(TMP\_631) = 0 TMP\_632 = 0 not(TMP\_632) = 1 TMP\_633 = 4 TMP\_634 = 0 not(TMP\_634) = 1 TMP\_635 = 0 not(TMP\_635) = 1 TMP\_636 = 0 TMP\_637 = 1 not(TMP\_637) = 0 TMP\_638 = 1 not(TMP\_638) = 0 TMP\_639 = 2 TMP\_640 = 0 not(TMP\_640) = 1 TMP\_641 = 0 not(TMP\_641) = 1 TMP\_642 = 1 not(TMP\_642) = 0 TMP\_643 = 1 not(TMP\_643) = 0 TMP\_644 = 1 not(TMP\_644) = 0 TMP\_645 = 2 TMP\_646 = 1 not(TMP\_646) = 0 TMP\_647 = 1 not(TMP\_647) = 0 TMP\_648 = 1 not(TMP\_648) = 0 TMP\_649 = 1 not(TMP\_649) = 0 TMP\_650 = 1 not(TMP\_650) = 0 TMP\_651 = 0 not(TMP\_651) = 1 TMP\_652 = 5 TMP\_653 = 0 not(TMP\_653) = 1 TMP\_654 = 0 not(TMP\_654) = 1 TMP\_655 = 0 TMP\_656 = 1 not(TMP\_656) = 0 TMP\_657 = 1 not(TMP\_657) = 0 TMP\_658 = 2 TMP\_659 = 0 not(TMP\_659) = 1 TMP\_660 = 0 not(TMP\_660) = 1 TMP\_661 = 1 not(TMP\_661) = 0 TMP\_662 = 1 not(TMP\_662) = 0 TMP\_663 = 1 not(TMP\_663) = 0 TMP\_664 = 2 Area\_0 = 60 Distance\_0\_Rule\_0 = 20 Distance\_1\_Rule\_0 = 3 Distance\_2\_Rule\_0 = 1 Area\_1 = 174 Distance\_0\_Rule\_1 = 58 Distance\_1\_Rule\_1 = 3 Distance\_2\_Rule\_1 = 1 Area\_2 = 116 Distance\_0\_Rule\_2 = 58 Distance\_1\_Rule\_2 = 2 Distance\_2\_Rule\_2 = 1 Area\_3 = 79 -(Rule\_3\_LB) = 0 Distance\_0\_Rule\_3 = 79 -(Rule\_3\_LB) = 0 Distance\_1\_Rule\_3 = 1 -(Rule\_3\_LB) = 0 Distance\_2\_Rule\_3 = 1 Area\_4 = 123 -(Rule\_4\_LB) = -79 Distance\_0\_Rule\_4 = 41 -(Rule\_4\_LB) = 0 Distance\_1\_Rule\_4 = 3 -(Rule\_4\_LB) = 0 Distance\_2\_Rule\_4 = 1 Area\_5 = 123 -(Rule\_5\_LB) = -79 Distance\_0\_Rule\_5 = 41 -(Rule\_5\_LB) = 0 Distance\_1\_Rule\_5 = 3 -(Rule\_5\_LB) = -1 Distance\_2\_Rule\_5 = 1 Area\_6 = 3 -(Rule\_6\_LB) = -20 Distance\_0\_Rule\_6 = 1 -(Rule\_6\_LB) = 0 Distance\_1\_Rule\_6 = 3 -(Rule\_6\_LB) = -1 Distance\_2\_Rule\_6 = 1 Area\_7 = 42 -(Rule\_7\_LB) = 0 Distance\_0\_Rule\_7 = 21 -(Rule\_7\_LB) = -1 Distance\_1\_Rule\_7 = 2 -(Rule\_7\_LB) = 0 Distance\_2\_Rule\_7 = 1 TMP\_665 = 720 .

- Solution #3 found. 3 Solutions, Resolution 3.128s, 23821 Nodes (7,615.8 n/s), 47592 Backtracks, 23801 Fails, 0 Restarts

Rule\_3\_LB = 0 Rule\_3\_UB = 79 Rule\_3\_LB = 0 Rule\_3\_UB = 1 Rule\_3\_LB = 0 Rule\_3\_UB = 1 Rule\_4\_LB = 79 Rule\_4\_UB = 120 Rule\_4\_LB = 0 Rule\_4\_UB = 3 Rule\_4\_LB = 0 Rule\_4\_UB = 1 Rule\_5\_LB = 79 Rule\_5\_UB = 120 Rule\_5\_LB = 0 Rule\_5\_UB = 3 Rule\_5\_LB = 1 Rule\_5\_UB = 2 Rule\_6\_LB = 20 Rule\_6\_UB = 21 Rule\_6\_LB = 0 Rule\_6\_UB = 3 Rule\_6\_LB = 1 Rule\_6\_UB = 2 Rule\_7\_LB = 0 Rule\_7\_UB = 21 Rule\_7\_LB = 1 Rule\_7\_UB = 3 Rule\_7\_LB = 0 Rule\_7\_UB = 1 Overlaps\_0\_0 = 0 Overlaps\_0\_1 = 0 Overlaps\_0\_2 = 0 Overlaps\_0\_3 = 0 Overlaps\_0\_4 = 0 Overlaps\_0\_5 = 0 Overlaps\_0\_6 = 0 Overlaps\_0\_7 = 0 Overlaps\_1\_0 = 0 Overlaps\_1\_1 = 0 Overlaps\_1\_2 = 1 Overlaps\_1\_3 = 0 Overlaps\_1\_4 = 0 Overlaps\_1\_5 = 0 Overlaps\_1\_6 = 0 Overlaps\_1\_7 = 0 Overlaps\_2\_0 = 0 Overlaps\_2\_1 = 0 Overlaps\_2\_2 = 0 Overlaps\_2\_3 = 0 Overlaps\_2\_4 = 0 Overlaps\_2\_5 = 0 Overlaps\_2\_6 = 0 Overlaps\_2\_7 = 0 Overlaps\_3\_0 = 0 Overlaps\_3\_1 = 0 Overlaps\_3\_2 = 0 Overlaps\_3\_3 = 0 Overlaps\_3\_4 = 0 Overlaps\_3\_5 = 0 Overlaps\_3\_6 = 0 Overlaps\_3\_7 = 0 Overlaps\_4\_0 = 0 Overlaps\_4\_1 = 0 Overlaps\_4\_2 = 0 Overlaps\_4\_3 = 0 Overlaps\_4\_4 = 0 Overlaps\_4\_5 = 0 Overlaps\_4\_6 = 0 Overlaps\_4\_7 = 0 Overlaps\_5\_0 = 0 Overlaps\_5\_1 = 0 Overlaps\_5\_2 = 0 Overlaps\_5\_3 = 0 Overlaps\_5\_4 = 0 Overlaps\_5\_5 = 0 Overlaps\_5\_6 = 0 Overlaps\_5\_7 = 0 Overlaps\_6\_0 = 0 Overlaps\_6\_1 = 0 Overlaps\_6\_2 = 0 Overlaps\_6\_3 = 0 Overlaps\_6\_4 = 0 Overlaps\_6\_5 = 0 Overlaps\_6\_6 = 0 Overlaps\_6\_7 = 0 Overlaps\_7\_0 = 0 Overlaps\_7\_1 = 0 Overlaps\_7\_2 = 0 Overlaps\_7\_3 = 0 Overlaps\_7\_4 = 0 Overlaps\_7\_5 = 0 Overlaps\_7\_6 = 0 Overlaps\_7\_7 = 0 TMP\_0 = 1 not(TMP\_0) = 0 TMP\_1 = 1 not(TMP\_1) = 0 TMP\_2 = 1 not(TMP\_2) = 0 TMP\_3 = 1 not(TMP\_3) = 0 TMP\_4 = 1 not(TMP\_4) = 0 TMP\_5 = 0 not(TMP\_5) = 1 TMP\_6 = 5 TMP\_7 = 0 not(TMP\_7) = 1 TMP\_8 = 0 not(TMP\_8) = 1 TMP\_9 = 0 TMP\_10 = 1 not(TMP\_10) = 0 TMP\_11 = 1 not(TMP\_11) = 0 TMP\_12 = 2 TMP\_13 = 0 not(TMP\_13) = 1 TMP\_14 = 0 not(TMP\_14) = 1 TMP\_15 = 1 not(TMP\_15) = 0 TMP\_16 = 1 not(TMP\_16) = 0 TMP\_17 = 1 not(TMP\_17) = 0 TMP\_18 = 2 TMP\_19 = 1 not(TMP\_19) = 0 TMP\_20 = 1 not(TMP\_20) = 0 TMP\_21 = 1 not(TMP\_21) = 0 TMP\_22 = 1 not(TMP\_22) = 0 TMP\_23 = 1 not(TMP\_23) = 0 TMP\_24 = 0 not(TMP\_24) = 1 TMP\_25 = 5 TMP\_26 = 0 not(TMP\_26) = 1 TMP\_27 = 0 not(TMP\_27) = 1 TMP\_28 = 0 TMP\_29 = 1 not(TMP\_29) = 0 TMP\_30 = 1 not(TMP\_30) = 0 TMP\_31 = 2 TMP\_32 = 0 not(TMP\_32) = 1 TMP\_33 = 0 not(TMP\_33) = 1 TMP\_34 = 1 not(TMP\_34) = 0 TMP\_35 = 1 not(TMP\_35) = 0 TMP\_36 = 1 not(TMP\_36) = 0 TMP\_37 = 2 TMP\_38 = 1 not(TMP\_38) = 0 TMP\_39 = 1 not(TMP\_39) = 0 TMP\_40 = 1 not(TMP\_40) = 0 TMP\_41 = 0 not(TMP\_41) = 1 TMP\_42 = 1 not(TMP\_42) = 0 TMP\_43 = 1 not(TMP\_43) = 0 TMP\_44 = 5 TMP\_45 = 0 not(TMP\_45) = 1 TMP\_46 = 0 not(TMP\_46) = 1 TMP\_47 = 0 TMP\_48 = 1 not(TMP\_48) = 0 TMP\_49 = 1 not(TMP\_49) = 0 TMP\_50 = 2 TMP\_51 = 0 not(TMP\_51) = 1 TMP\_52 = 0 not(TMP\_52) = 1 TMP\_53 = 1 not(TMP\_53) = 0 TMP\_54 = 1 not(TMP\_54) = 0 TMP\_55 = 1 not(TMP\_55) = 0 TMP\_56 = 2 TMP\_57 = 1 not(TMP\_57) = 0 TMP\_58 = 0 not(TMP\_58) = 1 TMP\_59 = 1 not(TMP\_59) = 0 TMP\_60 = 1 not(TMP\_60) = 0 TMP\_61 = 1 not(TMP\_61) = 0 TMP\_62 = 1 not(TMP\_62) = 0 TMP\_63 = 5 TMP\_64 = 0 not(TMP\_64) = 1 TMP\_65 = 0 not(TMP\_65) = 1 TMP\_66 = 0 TMP\_67 = 1 not(TMP\_67) = 0 TMP\_68 = 1 not(TMP\_68) = 0 TMP\_69 = 2 TMP\_70 = 0 not(TMP\_70) = 1 TMP\_71 = 0 not(TMP\_71) = 1 TMP\_72 = 1 not(TMP\_72) = 0 TMP\_73 = 1 not(TMP\_73) = 0 TMP\_74 = 1 not(TMP\_74) = 0 TMP\_75 = 2 TMP\_76 = 1 not(TMP\_76) = 0 TMP\_77 = 0 not(TMP\_77) = 1 TMP\_78 = 1 not(TMP\_78) = 0 TMP\_79 = 1 not(TMP\_79) = 0 TMP\_80 = 1 not(TMP\_80) = 0 TMP\_81 = 0 not(TMP\_81) = 1 TMP\_82 = 4 TMP\_83 = 0 not(TMP\_83) = 1 TMP\_84 = 0 not(TMP\_84) = 1 TMP\_85 = 0 TMP\_86 = 1 not(TMP\_86) = 0 TMP\_87 = 1 not(TMP\_87) = 0 TMP\_88 = 2 TMP\_89 = 0 not(TMP\_89) = 1 TMP\_90 = 0 not(TMP\_90) = 1 TMP\_91 = 1 not(TMP\_91) = 0 TMP\_92 = 1 not(TMP\_92) = 0 TMP\_93 = 1 not(TMP\_93) = 0 TMP\_94 = 2 TMP\_95 = 1 not(TMP\_95) = 0 TMP\_96 = 1 not(TMP\_96) = 0 TMP\_97 = 1 not(TMP\_97) = 0 TMP\_98 = 1 not(TMP\_98) = 0 TMP\_99 = 1 not(TMP\_99) = 0 TMP\_100 = 0 not(TMP\_100) = 1 TMP\_101 = 5 TMP\_102 = 0 not(TMP\_102) = 1 TMP\_103 = 0 not(TMP\_103) = 1 TMP\_104 = 0 TMP\_105 = 1 not(TMP\_105) = 0 TMP\_106 = 1 not(TMP\_106) = 0 TMP\_107 = 2 TMP\_108 = 0 not(TMP\_108) = 1 TMP\_109 = 0 not(TMP\_109) = 1 TMP\_110 = 1 not(TMP\_110) = 0 TMP\_111 = 1 not(TMP\_111) = 0 TMP\_112 = 1 not(TMP\_112) = 0 TMP\_113 = 2 TMP\_114 = 1 not(TMP\_114) = 0 TMP\_115 = 1 not(TMP\_115) = 0 TMP\_116 = 1 not(TMP\_116) = 0 TMP\_117 = 0 not(TMP\_117) = 1 TMP\_118 = 1 not(TMP\_118) = 0 TMP\_119 = 1 not(TMP\_119) = 0 TMP\_120 = 5 TMP\_121 = 0 not(TMP\_121) = 1 TMP\_122 = 0 not(TMP\_122) = 1 TMP\_123 = 0 TMP\_124 = 1 not(TMP\_124) = 0 TMP\_125 = 1 not(TMP\_125) = 0 TMP\_126 = 2 TMP\_127 = 0 not(TMP\_127) = 1 TMP\_128 = 0 not(TMP\_128) = 1 TMP\_129 = 1 not(TMP\_129) = 0 TMP\_130 = 1 not(TMP\_130) = 0 TMP\_131 = 1 not(TMP\_131) = 0 TMP\_132 = 2 TMP\_133 = 0 not(TMP\_133) = 1 TMP\_134 = 1 not(TMP\_134) = 0 TMP\_135 = 1 not(TMP\_135) = 0 TMP\_136 = 1 not(TMP\_136) = 0 TMP\_137 = 1 not(TMP\_137) = 0 TMP\_138 = 0 not(TMP\_138) = 1 TMP\_139 = 4 TMP\_140 = 0 not(TMP\_140) = 1 TMP\_141 = 0 not(TMP\_141) = 1 TMP\_142 = 0 TMP\_143 = 1 not(TMP\_143) = 0 TMP\_144 = 1 not(TMP\_144) = 0 TMP\_145 = 2 TMP\_146 = 0 not(TMP\_146) = 1 TMP\_147 = 0 not(TMP\_147) = 1 TMP\_148 = 1 not(TMP\_148) = 0 TMP\_149 = 1 not(TMP\_149) = 0 TMP\_150 = 1 not(TMP\_150) = 0 TMP\_151 = 2 TMP\_152 = 0 not(TMP\_152) = 1 TMP\_153 = 1 not(TMP\_153) = 0 TMP\_154 = 1 not(TMP\_154) = 0 TMP\_155 = 1 not(TMP\_155) = 0 TMP\_156 = 1 not(TMP\_156) = 0 TMP\_157 = 0 not(TMP\_157) = 1 TMP\_158 = 4 TMP\_159 = 0 not(TMP\_159) = 1 TMP\_160 = 0 not(TMP\_160) = 1 TMP\_161 = 0 TMP\_162 = 1 not(TMP\_162) = 0 TMP\_163 = 1 not(TMP\_163) = 0 TMP\_164 = 2 TMP\_165 = 0 not(TMP\_165) = 1 TMP\_166 = 0 not(TMP\_166) = 1 TMP\_167 = 1 not(TMP\_167) = 0 TMP\_168 = 1 not(TMP\_168) = 0 TMP\_169 = 1 not(TMP\_169) = 0 TMP\_170 = 2 TMP\_171 = 0 not(TMP\_171) = 1 TMP\_172 = 1 not(TMP\_172) = 0 TMP\_173 = 1 not(TMP\_173) = 0 TMP\_174 = 1 not(TMP\_174) = 0 TMP\_175 = 1 not(TMP\_175) = 0 TMP\_176 = 1 not(TMP\_176) = 0 TMP\_177 = 5 TMP\_178 = 0 not(TMP\_178) = 1 TMP\_179 = 0 not(TMP\_179) = 1 TMP\_180 = 0 TMP\_181 = 1 not(TMP\_181) = 0 TMP\_182 = 1 not(TMP\_182) = 0 TMP\_183 = 2 TMP\_184 = 0 not(TMP\_184) = 1 TMP\_185 = 0 not(TMP\_185) = 1 TMP\_186 = 1 not(TMP\_186) = 0 TMP\_187 = 1 not(TMP\_187) = 0 TMP\_188 = 1 not(TMP\_188) = 0 TMP\_189 = 2 TMP\_190 = 0 not(TMP\_190) = 1 TMP\_191 = 1 not(TMP\_191) = 0 TMP\_192 = 1 not(TMP\_192) = 0 TMP\_193 = 1 not(TMP\_193) = 0 TMP\_194 = 1 not(TMP\_194) = 0 TMP\_195 = 1 not(TMP\_195) = 0 TMP\_196 = 5 TMP\_197 = 0 not(TMP\_197) = 1 TMP\_198 = 0 not(TMP\_198) = 1 TMP\_199 = 0 TMP\_200 = 1 not(TMP\_200) = 0 TMP\_201 = 1 not(TMP\_201) = 0 TMP\_202 = 2 TMP\_203 = 0 not(TMP\_203) = 1 TMP\_204 = 0 not(TMP\_204) = 1 TMP\_205 = 1 not(TMP\_205) = 0 TMP\_206 = 1 not(TMP\_206) = 0 TMP\_207 = 1 not(TMP\_207) = 0 TMP\_208 = 2 TMP\_209 = 1 not(TMP\_209) = 0 TMP\_210 = 1 not(TMP\_210) = 0 TMP\_211 = 1 not(TMP\_211) = 0 TMP\_212 = 1 not(TMP\_212) = 0 TMP\_213 = 1 not(TMP\_213) = 0 TMP\_214 = 0 not(TMP\_214) = 1 TMP\_215 = 5 TMP\_216 = 0 not(TMP\_216) = 1 TMP\_217 = 0 not(TMP\_217) = 1 TMP\_218 = 0 TMP\_219 = 1 not(TMP\_219) = 0 TMP\_220 = 1 not(TMP\_220) = 0 TMP\_221 = 2 TMP\_222 = 0 not(TMP\_222) = 1 TMP\_223 = 0 not(TMP\_223) = 1 TMP\_224 = 1 not(TMP\_224) = 0 TMP\_225 = 1 not(TMP\_225) = 0 TMP\_226 = 1 not(TMP\_226) = 0 TMP\_227 = 2 TMP\_228 = 0 not(TMP\_228) = 1 TMP\_229 = 1 not(TMP\_229) = 0 TMP\_230 = 1 not(TMP\_230) = 0 TMP\_231 = 1 not(TMP\_231) = 0 TMP\_232 = 1 not(TMP\_232) = 0 TMP\_233 = 0 not(TMP\_233) = 1 TMP\_234 = 4 TMP\_235 = 0 not(TMP\_235) = 1 TMP\_236 = 0 not(TMP\_236) = 1 TMP\_237 = 0 TMP\_238 = 1 not(TMP\_238) = 0 TMP\_239 = 1 not(TMP\_239) = 0 TMP\_240 = 2 TMP\_241 = 0 not(TMP\_241) = 1 TMP\_242 = 0 not(TMP\_242) = 1 TMP\_243 = 1 not(TMP\_243) = 0 TMP\_244 = 1 not(TMP\_244) = 0 TMP\_245 = 1 not(TMP\_245) = 0 TMP\_246 = 2 TMP\_247 = 0 not(TMP\_247) = 1 TMP\_248 = 1 not(TMP\_248) = 0 TMP\_249 = 1 not(TMP\_249) = 0 TMP\_250 = 1 not(TMP\_250) = 0 TMP\_251 = 1 not(TMP\_251) = 0 TMP\_252 = 1 not(TMP\_252) = 0 TMP\_253 = 5 TMP\_254 = 0 not(TMP\_254) = 1 TMP\_255 = 0 not(TMP\_255) = 1 TMP\_256 = 0 TMP\_257 = 1 not(TMP\_257) = 0 TMP\_258 = 1 not(TMP\_258) = 0 TMP\_259 = 2 TMP\_260 = 0 not(TMP\_260) = 1 TMP\_261 = 0 not(TMP\_261) = 1 TMP\_262 = 1 not(TMP\_262) = 0 TMP\_263 = 1 not(TMP\_263) = 0 TMP\_264 = 1 not(TMP\_264) = 0 TMP\_265 = 2 TMP\_266 = 0 not(TMP\_266) = 1 TMP\_267 = 1 not(TMP\_267) = 0 TMP\_268 = 1 not(TMP\_268) = 0 TMP\_269 = 1 not(TMP\_269) = 0 TMP\_270 = 1 not(TMP\_270) = 0 TMP\_271 = 1 not(TMP\_271) = 0 TMP\_272 = 5 TMP\_273 = 0 not(TMP\_273) = 1 TMP\_274 = 0 not(TMP\_274) = 1 TMP\_275 = 0 TMP\_276 = 1 not(TMP\_276) = 0 TMP\_277 = 1 not(TMP\_277) = 0 TMP\_278 = 2 TMP\_279 = 0 not(TMP\_279) = 1 TMP\_280 = 0 not(TMP\_280) = 1 TMP\_281 = 1 not(TMP\_281) = 0 TMP\_282 = 1 not(TMP\_282) = 0 TMP\_283 = 1 not(TMP\_283) = 0 TMP\_284 = 2 TMP\_285 = 0 not(TMP\_285) = 1 TMP\_286 = 1 not(TMP\_286) = 0 TMP\_287 = 1 not(TMP\_287) = 0 TMP\_288 = 1 not(TMP\_288) = 0 TMP\_289 = 1 not(TMP\_289) = 0 TMP\_290 = 1 not(TMP\_290) = 0 TMP\_291 = 5 TMP\_292 = 0 not(TMP\_292) = 1 TMP\_293 = 0 not(TMP\_293) = 1 TMP\_294 = 0 TMP\_295 = 1 not(TMP\_295) = 0 TMP\_296 = 1 not(TMP\_296) = 0 TMP\_297 = 2 TMP\_298 = 0 not(TMP\_298) = 1 TMP\_299 = 0 not(TMP\_299) = 1 TMP\_300 = 1 not(TMP\_300) = 0 TMP\_301 = 1 not(TMP\_301) = 0 TMP\_302 = 1 not(TMP\_302) = 0 TMP\_303 = 2 TMP\_304 = 0 not(TMP\_304) = 1 TMP\_305 = 1 not(TMP\_305) = 0 TMP\_306 = 1 not(TMP\_306) = 0 TMP\_307 = 1 not(TMP\_307) = 0 TMP\_308 = 0 not(TMP\_308) = 1 TMP\_309 = 1 not(TMP\_309) = 0 TMP\_310 = 4 TMP\_311 = 0 not(TMP\_311) = 1 TMP\_312 = 0 not(TMP\_312) = 1 TMP\_313 = 0 TMP\_314 = 1 not(TMP\_314) = 0 TMP\_315 = 1 not(TMP\_315) = 0 TMP\_316 = 2 TMP\_317 = 0 not(TMP\_317) = 1 TMP\_318 = 0 not(TMP\_318) = 1 TMP\_319 = 1 not(TMP\_319) = 0 TMP\_320 = 1 not(TMP\_320) = 0 TMP\_321 = 1 not(TMP\_321) = 0 TMP\_322 = 2 TMP\_323 = 0 not(TMP\_323) = 1 TMP\_324 = 1 not(TMP\_324) = 0 TMP\_325 = 1 not(TMP\_325) = 0 TMP\_326 = 1 not(TMP\_326) = 0 TMP\_327 = 0 not(TMP\_327) = 1 TMP\_328 = 1 not(TMP\_328) = 0 TMP\_329 = 4 TMP\_330 = 0 not(TMP\_330) = 1 TMP\_331 = 0 not(TMP\_331) = 1 TMP\_332 = 0 TMP\_333 = 1 not(TMP\_333) = 0 TMP\_334 = 1 not(TMP\_334) = 0 TMP\_335 = 2 TMP\_336 = 0 not(TMP\_336) = 1 TMP\_337 = 0 not(TMP\_337) = 1 TMP\_338 = 1 not(TMP\_338) = 0 TMP\_339 = 1 not(TMP\_339) = 0 TMP\_340 = 1 not(TMP\_340) = 0 TMP\_341 = 2 TMP\_342 = 1 not(TMP\_342) = 0 TMP\_343 = 1 not(TMP\_343) = 0 TMP\_344 = 1 not(TMP\_344) = 0 TMP\_345 = 1 not(TMP\_345) = 0 TMP\_346 = 0 not(TMP\_346) = 1 TMP\_347 = 1 not(TMP\_347) = 0 TMP\_348 = 5 TMP\_349 = 0 not(TMP\_349) = 1 TMP\_350 = 0 not(TMP\_350) = 1 TMP\_351 = 0 TMP\_352 = 1 not(TMP\_352) = 0 TMP\_353 = 1 not(TMP\_353) = 0 TMP\_354 = 2 TMP\_355 = 0 not(TMP\_355) = 1 TMP\_356 = 0 not(TMP\_356) = 1 TMP\_357 = 1 not(TMP\_357) = 0 TMP\_358 = 1 not(TMP\_358) = 0 TMP\_359 = 1 not(TMP\_359) = 0 TMP\_360 = 2 TMP\_361 = 0 not(TMP\_361) = 1 TMP\_362 = 1 not(TMP\_362) = 0 TMP\_363 = 1 not(TMP\_363) = 0 TMP\_364 = 1 not(TMP\_364) = 0 TMP\_365 = 1 not(TMP\_365) = 0 TMP\_366 = 1 not(TMP\_366) = 0 TMP\_367 = 5 TMP\_368 = 0 not(TMP\_368) = 1 TMP\_369 = 0 not(TMP\_369) = 1 TMP\_370 = 0 TMP\_371 = 1 not(TMP\_371) = 0 TMP\_372 = 1 not(TMP\_372) = 0 TMP\_373 = 2 TMP\_374 = 0 not(TMP\_374) = 1 TMP\_375 = 0 not(TMP\_375) = 1 TMP\_376 = 1 not(TMP\_376) = 0 TMP\_377 = 1 not(TMP\_377) = 0 TMP\_378 = 1 not(TMP\_378) = 0 TMP\_379 = 2 TMP\_380 = 0 not(TMP\_380) = 1 TMP\_381 = 1 not(TMP\_381) = 0 TMP\_382 = 1 not(TMP\_382) = 0 TMP\_383 = 1 not(TMP\_383) = 0 TMP\_384 = 0 not(TMP\_384) = 1 TMP\_385 = 1 not(TMP\_385) = 0 TMP\_386 = 4 TMP\_387 = 0 not(TMP\_387) = 1 TMP\_388 = 0 not(TMP\_388) = 1 TMP\_389 = 0 TMP\_390 = 1 not(TMP\_390) = 0 TMP\_391 = 1 not(TMP\_391) = 0 TMP\_392 = 2 TMP\_393 = 0 not(TMP\_393) = 1 TMP\_394 = 0 not(TMP\_394) = 1 TMP\_395 = 1 not(TMP\_395) = 0 TMP\_396 = 1 not(TMP\_396) = 0 TMP\_397 = 1 not(TMP\_397) = 0 TMP\_398 = 2 TMP\_399 = 0 not(TMP\_399) = 1 TMP\_400 = 1 not(TMP\_400) = 0 TMP\_401 = 1 not(TMP\_401) = 0 TMP\_402 = 1 not(TMP\_402) = 0 TMP\_403 = 1 not(TMP\_403) = 0 TMP\_404 = 1 not(TMP\_404) = 0 TMP\_405 = 5 TMP\_406 = 0 not(TMP\_406) = 1 TMP\_407 = 0 not(TMP\_407) = 1 TMP\_408 = 0 TMP\_409 = 1 not(TMP\_409) = 0 TMP\_410 = 1 not(TMP\_410) = 0 TMP\_411 = 2 TMP\_412 = 0 not(TMP\_412) = 1 TMP\_413 = 0 not(TMP\_413) = 1 TMP\_414 = 1 not(TMP\_414) = 0 TMP\_415 = 1 not(TMP\_415) = 0 TMP\_416 = 1 not(TMP\_416) = 0 TMP\_417 = 2 TMP\_418 = 1 not(TMP\_418) = 0 TMP\_419 = 0 not(TMP\_419) = 1 TMP\_420 = 1 not(TMP\_420) = 0 TMP\_421 = 1 not(TMP\_421) = 0 TMP\_422 = 1 not(TMP\_422) = 0 TMP\_423 = 1 not(TMP\_423) = 0 TMP\_424 = 5 TMP\_425 = 0 not(TMP\_425) = 1 TMP\_426 = 0 not(TMP\_426) = 1 TMP\_427 = 0 TMP\_428 = 1 not(TMP\_428) = 0 TMP\_429 = 1 not(TMP\_429) = 0 TMP\_430 = 2 TMP\_431 = 0 not(TMP\_431) = 1 TMP\_432 = 0 not(TMP\_432) = 1 TMP\_433 = 1 not(TMP\_433) = 0 TMP\_434 = 1 not(TMP\_434) = 0 TMP\_435 = 1 not(TMP\_435) = 0 TMP\_436 = 2 TMP\_437 = 1 not(TMP\_437) = 0 TMP\_438 = 0 not(TMP\_438) = 1 TMP\_439 = 1 not(TMP\_439) = 0 TMP\_440 = 1 not(TMP\_440) = 0 TMP\_441 = 0 not(TMP\_441) = 1 TMP\_442 = 1 not(TMP\_442) = 0 TMP\_443 = 4 TMP\_444 = 0 not(TMP\_444) = 1 TMP\_445 = 0 not(TMP\_445) = 1 TMP\_446 = 0 TMP\_447 = 1 not(TMP\_447) = 0 TMP\_448 = 1 not(TMP\_448) = 0 TMP\_449 = 2 TMP\_450 = 0 not(TMP\_450) = 1 TMP\_451 = 0 not(TMP\_451) = 1 TMP\_452 = 1 not(TMP\_452) = 0 TMP\_453 = 1 not(TMP\_453) = 0 TMP\_454 = 1 not(TMP\_454) = 0 TMP\_455 = 2 TMP\_456 = 1 not(TMP\_456) = 0 TMP\_457 = 1 not(TMP\_457) = 0 TMP\_458 = 1 not(TMP\_458) = 0 TMP\_459 = 1 not(TMP\_459) = 0 TMP\_460 = 0 not(TMP\_460) = 1 TMP\_461 = 1 not(TMP\_461) = 0 TMP\_462 = 5 TMP\_463 = 0 not(TMP\_463) = 1 TMP\_464 = 0 not(TMP\_464) = 1 TMP\_465 = 0 TMP\_466 = 1 not(TMP\_466) = 0 TMP\_467 = 1 not(TMP\_467) = 0 TMP\_468 = 2 TMP\_469 = 0 not(TMP\_469) = 1 TMP\_470 = 0 not(TMP\_470) = 1 TMP\_471 = 1 not(TMP\_471) = 0 TMP\_472 = 1 not(TMP\_472) = 0 TMP\_473 = 1 not(TMP\_473) = 0 TMP\_474 = 2 TMP\_475 = 1 not(TMP\_475) = 0 TMP\_476 = 0 not(TMP\_476) = 1 TMP\_477 = 1 not(TMP\_477) = 0 TMP\_478 = 1 not(TMP\_478) = 0 TMP\_479 = 0 not(TMP\_479) = 1 TMP\_480 = 1 not(TMP\_480) = 0 TMP\_481 = 4 TMP\_482 = 0 not(TMP\_482) = 1 TMP\_483 = 0 not(TMP\_483) = 1 TMP\_484 = 0 TMP\_485 = 1 not(TMP\_485) = 0 TMP\_486 = 1 not(TMP\_486) = 0 TMP\_487 = 2 TMP\_488 = 0 not(TMP\_488) = 1 TMP\_489 = 0 not(TMP\_489) = 1 TMP\_490 = 1 not(TMP\_490) = 0 TMP\_491 = 1 not(TMP\_491) = 0 TMP\_492 = 1 not(TMP\_492) = 0 TMP\_493 = 2 TMP\_494 = 1 not(TMP\_494) = 0 TMP\_495 = 0 not(TMP\_495) = 1 TMP\_496 = 1 not(TMP\_496) = 0 TMP\_497 = 1 not(TMP\_497) = 0 TMP\_498 = 1 not(TMP\_498) = 0 TMP\_499 = 1 not(TMP\_499) = 0 TMP\_500 = 5 TMP\_501 = 0 not(TMP\_501) = 1 TMP\_502 = 0 not(TMP\_502) = 1 TMP\_503 = 0 TMP\_504 = 1 not(TMP\_504) = 0 TMP\_505 = 1 not(TMP\_505) = 0 TMP\_506 = 2 TMP\_507 = 0 not(TMP\_507) = 1 TMP\_508 = 0 not(TMP\_508) = 1 TMP\_509 = 1 not(TMP\_509) = 0 TMP\_510 = 1 not(TMP\_510) = 0 TMP\_511 = 1 not(TMP\_511) = 0 TMP\_512 = 2 TMP\_513 = 1 not(TMP\_513) = 0 TMP\_514 = 1 not(TMP\_514) = 0 TMP\_515 = 1 not(TMP\_515) = 0 TMP\_516 = 1 not(TMP\_516) = 0 TMP\_517 = 0 not(TMP\_517) = 1 TMP\_518 = 1 not(TMP\_518) = 0 TMP\_519 = 5 TMP\_520 = 0 not(TMP\_520) = 1 TMP\_521 = 0 not(TMP\_521) = 1 TMP\_522 = 0 TMP\_523 = 1 not(TMP\_523) = 0 TMP\_524 = 1 not(TMP\_524) = 0 TMP\_525 = 2 TMP\_526 = 0 not(TMP\_526) = 1 TMP\_527 = 0 not(TMP\_527) = 1 TMP\_528 = 1 not(TMP\_528) = 0 TMP\_529 = 1 not(TMP\_529) = 0 TMP\_530 = 1 not(TMP\_530) = 0 TMP\_531 = 2 TMP\_532 = 1 not(TMP\_532) = 0 TMP\_533 = 1 not(TMP\_533) = 0 TMP\_534 = 1 not(TMP\_534) = 0 TMP\_535 = 1 not(TMP\_535) = 0 TMP\_536 = 1 not(TMP\_536) = 0 TMP\_537 = 0 not(TMP\_537) = 1 TMP\_538 = 5 TMP\_539 = 0 not(TMP\_539) = 1 TMP\_540 = 0 not(TMP\_540) = 1 TMP\_541 = 0 TMP\_542 = 1 not(TMP\_542) = 0 TMP\_543 = 1 not(TMP\_543) = 0 TMP\_544 = 2 TMP\_545 = 0 not(TMP\_545) = 1 TMP\_546 = 0 not(TMP\_546) = 1 TMP\_547 = 1 not(TMP\_547) = 0 TMP\_548 = 1 not(TMP\_548) = 0 TMP\_549 = 1 not(TMP\_549) = 0 TMP\_550 = 2 TMP\_551 = 1 not(TMP\_551) = 0 TMP\_552 = 0 not(TMP\_552) = 1 TMP\_553 = 1 not(TMP\_553) = 0 TMP\_554 = 1 not(TMP\_554) = 0 TMP\_555 = 1 not(TMP\_555) = 0 TMP\_556 = 0 not(TMP\_556) = 1 TMP\_557 = 4 TMP\_558 = 0 not(TMP\_558) = 1 TMP\_559 = 0 not(TMP\_559) = 1 TMP\_560 = 0 TMP\_561 = 1 not(TMP\_561) = 0 TMP\_562 = 1 not(TMP\_562) = 0 TMP\_563 = 2 TMP\_564 = 0 not(TMP\_564) = 1 TMP\_565 = 0 not(TMP\_565) = 1 TMP\_566 = 1 not(TMP\_566) = 0 TMP\_567 = 1 not(TMP\_567) = 0 TMP\_568 = 1 not(TMP\_568) = 0 TMP\_569 = 2 TMP\_570 = 1 not(TMP\_570) = 0 TMP\_571 = 0 not(TMP\_571) = 1 TMP\_572 = 1 not(TMP\_572) = 0 TMP\_573 = 1 not(TMP\_573) = 0 TMP\_574 = 1 not(TMP\_574) = 0 TMP\_575 = 1 not(TMP\_575) = 0 TMP\_576 = 5 TMP\_577 = 0 not(TMP\_577) = 1 TMP\_578 = 0 not(TMP\_578) = 1 TMP\_579 = 0 TMP\_580 = 1 not(TMP\_580) = 0 TMP\_581 = 1 not(TMP\_581) = 0 TMP\_582 = 2 TMP\_583 = 0 not(TMP\_583) = 1 TMP\_584 = 0 not(TMP\_584) = 1 TMP\_585 = 1 not(TMP\_585) = 0 TMP\_586 = 1 not(TMP\_586) = 0 TMP\_587 = 1 not(TMP\_587) = 0 TMP\_588 = 2 TMP\_589 = 1 not(TMP\_589) = 0 TMP\_590 = 1 not(TMP\_590) = 0 TMP\_591 = 0 not(TMP\_591) = 1 TMP\_592 = 1 not(TMP\_592) = 0 TMP\_593 = 1 not(TMP\_593) = 0 TMP\_594 = 1 not(TMP\_594) = 0 TMP\_595 = 5 TMP\_596 = 0 not(TMP\_596) = 1 TMP\_597 = 0 not(TMP\_597) = 1 TMP\_598 = 0 TMP\_599 = 1 not(TMP\_599) = 0 TMP\_600 = 1 not(TMP\_600) = 0 TMP\_601 = 2 TMP\_602 = 0 not(TMP\_602) = 1 TMP\_603 = 0 not(TMP\_603) = 1 TMP\_604 = 1 not(TMP\_604) = 0 TMP\_605 = 1 not(TMP\_605) = 0 TMP\_606 = 1 not(TMP\_606) = 0 TMP\_607 = 2 TMP\_608 = 1 not(TMP\_608) = 0 TMP\_609 = 0 not(TMP\_609) = 1 TMP\_610 = 1 not(TMP\_610) = 0 TMP\_611 = 1 not(TMP\_611) = 0 TMP\_612 = 1 not(TMP\_612) = 0 TMP\_613 = 1 not(TMP\_613) = 0 TMP\_614 = 5 TMP\_615 = 0 not(TMP\_615) = 1 TMP\_616 = 0 not(TMP\_616) = 1 TMP\_617 = 0 TMP\_618 = 1 not(TMP\_618) = 0 TMP\_619 = 1 not(TMP\_619) = 0 TMP\_620 = 2 TMP\_621 = 0 not(TMP\_621) = 1 TMP\_622 = 0 not(TMP\_622) = 1 TMP\_623 = 1 not(TMP\_623) = 0 TMP\_624 = 1 not(TMP\_624) = 0 TMP\_625 = 1 not(TMP\_625) = 0 TMP\_626 = 2 TMP\_627 = 1 not(TMP\_627) = 0 TMP\_628 = 0 not(TMP\_628) = 1 TMP\_629 = 1 not(TMP\_629) = 0 TMP\_630 = 1 not(TMP\_630) = 0 TMP\_631 = 1 not(TMP\_631) = 0 TMP\_632 = 0 not(TMP\_632) = 1 TMP\_633 = 4 TMP\_634 = 0 not(TMP\_634) = 1 TMP\_635 = 0 not(TMP\_635) = 1 TMP\_636 = 0 TMP\_637 = 1 not(TMP\_637) = 0 TMP\_638 = 1 not(TMP\_638) = 0 TMP\_639 = 2 TMP\_640 = 0 not(TMP\_640) = 1 TMP\_641 = 0 not(TMP\_641) = 1 TMP\_642 = 1 not(TMP\_642) = 0 TMP\_643 = 1 not(TMP\_643) = 0 TMP\_644 = 1 not(TMP\_644) = 0 TMP\_645 = 2 TMP\_646 = 1 not(TMP\_646) = 0 TMP\_647 = 1 not(TMP\_647) = 0 TMP\_648 = 1 not(TMP\_648) = 0 TMP\_649 = 1 not(TMP\_649) = 0 TMP\_650 = 1 not(TMP\_650) = 0 TMP\_651 = 0 not(TMP\_651) = 1 TMP\_652 = 5 TMP\_653 = 0 not(TMP\_653) = 1 TMP\_654 = 0 not(TMP\_654) = 1 TMP\_655 = 0 TMP\_656 = 1 not(TMP\_656) = 0 TMP\_657 = 1 not(TMP\_657) = 0 TMP\_658 = 2 TMP\_659 = 0 not(TMP\_659) = 1 TMP\_660 = 0 not(TMP\_660) = 1 TMP\_661 = 1 not(TMP\_661) = 0 TMP\_662 = 1 not(TMP\_662) = 0 TMP\_663 = 1 not(TMP\_663) = 0 TMP\_664 = 2 Area\_0 = 60 Distance\_0\_Rule\_0 = 20 Distance\_1\_Rule\_0 = 3 Distance\_2\_Rule\_0 = 1 Area\_1 = 174 Distance\_0\_Rule\_1 = 58 Distance\_1\_Rule\_1 = 3 Distance\_2\_Rule\_1 = 1 Area\_2 = 116 Distance\_0\_Rule\_2 = 58 Distance\_1\_Rule\_2 = 2 Distance\_2\_Rule\_2 = 1 Area\_3 = 79 -(Rule\_3\_LB) = 0 Distance\_0\_Rule\_3 = 79 -(Rule\_3\_LB) = 0 Distance\_1\_Rule\_3 = 1 -(Rule\_3\_LB) = 0 Distance\_2\_Rule\_3 = 1 Area\_4 = 123 -(Rule\_4\_LB) = -79 Distance\_0\_Rule\_4 = 41 -(Rule\_4\_LB) = 0 Distance\_1\_Rule\_4 = 3 -(Rule\_4\_LB) = 0 Distance\_2\_Rule\_4 = 1 Area\_5 = 123 -(Rule\_5\_LB) = -79 Distance\_0\_Rule\_5 = 41 -(Rule\_5\_LB) = 0 Distance\_1\_Rule\_5 = 3 -(Rule\_5\_LB) = -1 Distance\_2\_Rule\_5 = 1 Area\_6 = 3 -(Rule\_6\_LB) = -20 Distance\_0\_Rule\_6 = 1 -(Rule\_6\_LB) = 0 Distance\_1\_Rule\_6 = 3 -(Rule\_6\_LB) = -1 Distance\_2\_Rule\_6 = 1 Area\_7 = 42 -(Rule\_7\_LB) = 0 Distance\_0\_Rule\_7 = 21 -(Rule\_7\_LB) = -1 Distance\_1\_Rule\_7 = 2 -(Rule\_7\_LB) = 0 Distance\_2\_Rule\_7 = 1 TMP\_665 = 720 .

- Solution #4 found. 4 Solutions, Resolution 3.140s, 23822 Nodes (7,586.0 n/s), 47593 Backtracks, 23801 Fails, 0 Restarts

Rule\_3\_LB = 0 Rule\_3\_UB = 79 Rule\_3\_LB = 0 Rule\_3\_UB = 1 Rule\_3\_LB = 0 Rule\_3\_UB = 1 Rule\_4\_LB = 79 Rule\_4\_UB = 120 Rule\_4\_LB = 0 Rule\_4\_UB = 3 Rule\_4\_LB = 0 Rule\_4\_UB = 1 Rule\_5\_LB = 79 Rule\_5\_UB = 120 Rule\_5\_LB = 0 Rule\_5\_UB = 3 Rule\_5\_LB = 1 Rule\_5\_UB = 2 Rule\_6\_LB = 20 Rule\_6\_UB = 21 Rule\_6\_LB = 0 Rule\_6\_UB = 3 Rule\_6\_LB = 1 Rule\_6\_UB = 2 Rule\_7\_LB = 0 Rule\_7\_UB = 21 Rule\_7\_LB = 1 Rule\_7\_UB = 3 Rule\_7\_LB = 0 Rule\_7\_UB = 1 Overlaps\_0\_0 = 0 Overlaps\_0\_1 = 0 Overlaps\_0\_2 = 0 Overlaps\_0\_3 = 0 Overlaps\_0\_4 = 0 Overlaps\_0\_5 = 0 Overlaps\_0\_6 = 0 Overlaps\_0\_7 = 0 Overlaps\_1\_0 = 0 Overlaps\_1\_1 = 0 Overlaps\_1\_2 = 1 Overlaps\_1\_3 = 0 Overlaps\_1\_4 = 0 Overlaps\_1\_5 = 0 Overlaps\_1\_6 = 0 Overlaps\_1\_7 = 0 Overlaps\_2\_0 = 1 Overlaps\_2\_1 = 0 Overlaps\_2\_2 = 0 Overlaps\_2\_3 = 0 Overlaps\_2\_4 = 0 Overlaps\_2\_5 = 0 Overlaps\_2\_6 = 0 Overlaps\_2\_7 = 0 Overlaps\_3\_0 = 0 Overlaps\_3\_1 = 0 Overlaps\_3\_2 = 0 Overlaps\_3\_3 = 0 Overlaps\_3\_4 = 0 Overlaps\_3\_5 = 0 Overlaps\_3\_6 = 0 Overlaps\_3\_7 = 0 Overlaps\_4\_0 = 0 Overlaps\_4\_1 = 0 Overlaps\_4\_2 = 0 Overlaps\_4\_3 = 0 Overlaps\_4\_4 = 0 Overlaps\_4\_5 = 0 Overlaps\_4\_6 = 0 Overlaps\_4\_7 = 0 Overlaps\_5\_0 = 0 Overlaps\_5\_1 = 0 Overlaps\_5\_2 = 0 Overlaps\_5\_3 = 0 Overlaps\_5\_4 = 0 Overlaps\_5\_5 = 0 Overlaps\_5\_6 = 0 Overlaps\_5\_7 = 0 Overlaps\_6\_0 = 0 Overlaps\_6\_1 = 0 Overlaps\_6\_2 = 0 Overlaps\_6\_3 = 0 Overlaps\_6\_4 = 0 Overlaps\_6\_5 = 0 Overlaps\_6\_6 = 0 Overlaps\_6\_7 = 0 Overlaps\_7\_0 = 0 Overlaps\_7\_1 = 0 Overlaps\_7\_2 = 0 Overlaps\_7\_3 = 0 Overlaps\_7\_4 = 0 Overlaps\_7\_5 = 0 Overlaps\_7\_6 = 0 Overlaps\_7\_7 = 0 TMP\_0 = 1 not(TMP\_0) = 0 TMP\_1 = 1 not(TMP\_1) = 0 TMP\_2 = 1 not(TMP\_2) = 0 TMP\_3 = 1 not(TMP\_3) = 0 TMP\_4 = 1 not(TMP\_4) = 0 TMP\_5 = 0 not(TMP\_5) = 1 TMP\_6 = 5 TMP\_7 = 0 not(TMP\_7) = 1 TMP\_8 = 0 not(TMP\_8) = 1 TMP\_9 = 0 TMP\_10 = 1 not(TMP\_10) = 0 TMP\_11 = 1 not(TMP\_11) = 0 TMP\_12 = 2 TMP\_13 = 0 not(TMP\_13) = 1 TMP\_14 = 0 not(TMP\_14) = 1 TMP\_15 = 1 not(TMP\_15) = 0 TMP\_16 = 1 not(TMP\_16) = 0 TMP\_17 = 1 not(TMP\_17) = 0 TMP\_18 = 2 TMP\_19 = 1 not(TMP\_19) = 0 TMP\_20 = 1 not(TMP\_20) = 0 TMP\_21 = 1 not(TMP\_21) = 0 TMP\_22 = 1 not(TMP\_22) = 0 TMP\_23 = 1 not(TMP\_23) = 0 TMP\_24 = 0 not(TMP\_24) = 1 TMP\_25 = 5 TMP\_26 = 0 not(TMP\_26) = 1 TMP\_27 = 0 not(TMP\_27) = 1 TMP\_28 = 0 TMP\_29 = 1 not(TMP\_29) = 0 TMP\_30 = 1 not(TMP\_30) = 0 TMP\_31 = 2 TMP\_32 = 0 not(TMP\_32) = 1 TMP\_33 = 0 not(TMP\_33) = 1 TMP\_34 = 1 not(TMP\_34) = 0 TMP\_35 = 1 not(TMP\_35) = 0 TMP\_36 = 1 not(TMP\_36) = 0 TMP\_37 = 2 TMP\_38 = 1 not(TMP\_38) = 0 TMP\_39 = 1 not(TMP\_39) = 0 TMP\_40 = 1 not(TMP\_40) = 0 TMP\_41 = 0 not(TMP\_41) = 1 TMP\_42 = 1 not(TMP\_42) = 0 TMP\_43 = 1 not(TMP\_43) = 0 TMP\_44 = 5 TMP\_45 = 0 not(TMP\_45) = 1 TMP\_46 = 0 not(TMP\_46) = 1 TMP\_47 = 0 TMP\_48 = 1 not(TMP\_48) = 0 TMP\_49 = 1 not(TMP\_49) = 0 TMP\_50 = 2 TMP\_51 = 0 not(TMP\_51) = 1 TMP\_52 = 0 not(TMP\_52) = 1 TMP\_53 = 1 not(TMP\_53) = 0 TMP\_54 = 1 not(TMP\_54) = 0 TMP\_55 = 1 not(TMP\_55) = 0 TMP\_56 = 2 TMP\_57 = 1 not(TMP\_57) = 0 TMP\_58 = 0 not(TMP\_58) = 1 TMP\_59 = 1 not(TMP\_59) = 0 TMP\_60 = 1 not(TMP\_60) = 0 TMP\_61 = 1 not(TMP\_61) = 0 TMP\_62 = 1 not(TMP\_62) = 0 TMP\_63 = 5 TMP\_64 = 0 not(TMP\_64) = 1 TMP\_65 = 0 not(TMP\_65) = 1 TMP\_66 = 0 TMP\_67 = 1 not(TMP\_67) = 0 TMP\_68 = 1 not(TMP\_68) = 0 TMP\_69 = 2 TMP\_70 = 0 not(TMP\_70) = 1 TMP\_71 = 0 not(TMP\_71) = 1 TMP\_72 = 1 not(TMP\_72) = 0 TMP\_73 = 1 not(TMP\_73) = 0 TMP\_74 = 1 not(TMP\_74) = 0 TMP\_75 = 2 TMP\_76 = 1 not(TMP\_76) = 0 TMP\_77 = 0 not(TMP\_77) = 1 TMP\_78 = 1 not(TMP\_78) = 0 TMP\_79 = 1 not(TMP\_79) = 0 TMP\_80 = 1 not(TMP\_80) = 0 TMP\_81 = 0 not(TMP\_81) = 1 TMP\_82 = 4 TMP\_83 = 0 not(TMP\_83) = 1 TMP\_84 = 0 not(TMP\_84) = 1 TMP\_85 = 0 TMP\_86 = 1 not(TMP\_86) = 0 TMP\_87 = 1 not(TMP\_87) = 0 TMP\_88 = 2 TMP\_89 = 0 not(TMP\_89) = 1 TMP\_90 = 0 not(TMP\_90) = 1 TMP\_91 = 1 not(TMP\_91) = 0 TMP\_92 = 1 not(TMP\_92) = 0 TMP\_93 = 1 not(TMP\_93) = 0 TMP\_94 = 2 TMP\_95 = 1 not(TMP\_95) = 0 TMP\_96 = 1 not(TMP\_96) = 0 TMP\_97 = 1 not(TMP\_97) = 0 TMP\_98 = 1 not(TMP\_98) = 0 TMP\_99 = 1 not(TMP\_99) = 0 TMP\_100 = 0 not(TMP\_100) = 1 TMP\_101 = 5 TMP\_102 = 0 not(TMP\_102) = 1 TMP\_103 = 0 not(TMP\_103) = 1 TMP\_104 = 0 TMP\_105 = 1 not(TMP\_105) = 0 TMP\_106 = 1 not(TMP\_106) = 0 TMP\_107 = 2 TMP\_108 = 0 not(TMP\_108) = 1 TMP\_109 = 0 not(TMP\_109) = 1 TMP\_110 = 1 not(TMP\_110) = 0 TMP\_111 = 1 not(TMP\_111) = 0 TMP\_112 = 1 not(TMP\_112) = 0 TMP\_113 = 2 TMP\_114 = 1 not(TMP\_114) = 0 TMP\_115 = 1 not(TMP\_115) = 0 TMP\_116 = 1 not(TMP\_116) = 0 TMP\_117 = 0 not(TMP\_117) = 1 TMP\_118 = 1 not(TMP\_118) = 0 TMP\_119 = 1 not(TMP\_119) = 0 TMP\_120 = 5 TMP\_121 = 0 not(TMP\_121) = 1 TMP\_122 = 0 not(TMP\_122) = 1 TMP\_123 = 0 TMP\_124 = 1 not(TMP\_124) = 0 TMP\_125 = 1 not(TMP\_125) = 0 TMP\_126 = 2 TMP\_127 = 0 not(TMP\_127) = 1 TMP\_128 = 0 not(TMP\_128) = 1 TMP\_129 = 1 not(TMP\_129) = 0 TMP\_130 = 1 not(TMP\_130) = 0 TMP\_131 = 1 not(TMP\_131) = 0 TMP\_132 = 2 TMP\_133 = 0 not(TMP\_133) = 1 TMP\_134 = 1 not(TMP\_134) = 0 TMP\_135 = 1 not(TMP\_135) = 0 TMP\_136 = 1 not(TMP\_136) = 0 TMP\_137 = 1 not(TMP\_137) = 0 TMP\_138 = 0 not(TMP\_138) = 1 TMP\_139 = 4 TMP\_140 = 0 not(TMP\_140) = 1 TMP\_141 = 0 not(TMP\_141) = 1 TMP\_142 = 0 TMP\_143 = 1 not(TMP\_143) = 0 TMP\_144 = 1 not(TMP\_144) = 0 TMP\_145 = 2 TMP\_146 = 0 not(TMP\_146) = 1 TMP\_147 = 0 not(TMP\_147) = 1 TMP\_148 = 1 not(TMP\_148) = 0 TMP\_149 = 1 not(TMP\_149) = 0 TMP\_150 = 1 not(TMP\_150) = 0 TMP\_151 = 2 TMP\_152 = 0 not(TMP\_152) = 1 TMP\_153 = 1 not(TMP\_153) = 0 TMP\_154 = 1 not(TMP\_154) = 0 TMP\_155 = 1 not(TMP\_155) = 0 TMP\_156 = 1 not(TMP\_156) = 0 TMP\_157 = 0 not(TMP\_157) = 1 TMP\_158 = 4 TMP\_159 = 0 not(TMP\_159) = 1 TMP\_160 = 0 not(TMP\_160) = 1 TMP\_161 = 0 TMP\_162 = 1 not(TMP\_162) = 0 TMP\_163 = 1 not(TMP\_163) = 0 TMP\_164 = 2 TMP\_165 = 0 not(TMP\_165) = 1 TMP\_166 = 0 not(TMP\_166) = 1 TMP\_167 = 1 not(TMP\_167) = 0 TMP\_168 = 1 not(TMP\_168) = 0 TMP\_169 = 1 not(TMP\_169) = 0 TMP\_170 = 2 TMP\_171 = 0 not(TMP\_171) = 1 TMP\_172 = 1 not(TMP\_172) = 0 TMP\_173 = 1 not(TMP\_173) = 0 TMP\_174 = 1 not(TMP\_174) = 0 TMP\_175 = 1 not(TMP\_175) = 0 TMP\_176 = 1 not(TMP\_176) = 0 TMP\_177 = 5 TMP\_178 = 0 not(TMP\_178) = 1 TMP\_179 = 0 not(TMP\_179) = 1 TMP\_180 = 0 TMP\_181 = 1 not(TMP\_181) = 0 TMP\_182 = 1 not(TMP\_182) = 0 TMP\_183 = 2 TMP\_184 = 0 not(TMP\_184) = 1 TMP\_185 = 0 not(TMP\_185) = 1 TMP\_186 = 1 not(TMP\_186) = 0 TMP\_187 = 1 not(TMP\_187) = 0 TMP\_188 = 1 not(TMP\_188) = 0 TMP\_189 = 2 TMP\_190 = 0 not(TMP\_190) = 1 TMP\_191 = 1 not(TMP\_191) = 0 TMP\_192 = 1 not(TMP\_192) = 0 TMP\_193 = 1 not(TMP\_193) = 0 TMP\_194 = 1 not(TMP\_194) = 0 TMP\_195 = 1 not(TMP\_195) = 0 TMP\_196 = 5 TMP\_197 = 0 not(TMP\_197) = 1 TMP\_198 = 0 not(TMP\_198) = 1 TMP\_199 = 0 TMP\_200 = 1 not(TMP\_200) = 0 TMP\_201 = 1 not(TMP\_201) = 0 TMP\_202 = 2 TMP\_203 = 0 not(TMP\_203) = 1 TMP\_204 = 0 not(TMP\_204) = 1 TMP\_205 = 1 not(TMP\_205) = 0 TMP\_206 = 1 not(TMP\_206) = 0 TMP\_207 = 1 not(TMP\_207) = 0 TMP\_208 = 2 TMP\_209 = 1 not(TMP\_209) = 0 TMP\_210 = 1 not(TMP\_210) = 0 TMP\_211 = 1 not(TMP\_211) = 0 TMP\_212 = 1 not(TMP\_212) = 0 TMP\_213 = 1 not(TMP\_213) = 0 TMP\_214 = 0 not(TMP\_214) = 1 TMP\_215 = 5 TMP\_216 = 0 not(TMP\_216) = 1 TMP\_217 = 0 not(TMP\_217) = 1 TMP\_218 = 0 TMP\_219 = 1 not(TMP\_219) = 0 TMP\_220 = 1 not(TMP\_220) = 0 TMP\_221 = 2 TMP\_222 = 0 not(TMP\_222) = 1 TMP\_223 = 0 not(TMP\_223) = 1 TMP\_224 = 1 not(TMP\_224) = 0 TMP\_225 = 1 not(TMP\_225) = 0 TMP\_226 = 1 not(TMP\_226) = 0 TMP\_227 = 2 TMP\_228 = 0 not(TMP\_228) = 1 TMP\_229 = 1 not(TMP\_229) = 0 TMP\_230 = 1 not(TMP\_230) = 0 TMP\_231 = 1 not(TMP\_231) = 0 TMP\_232 = 1 not(TMP\_232) = 0 TMP\_233 = 0 not(TMP\_233) = 1 TMP\_234 = 4 TMP\_235 = 0 not(TMP\_235) = 1 TMP\_236 = 0 not(TMP\_236) = 1 TMP\_237 = 0 TMP\_238 = 1 not(TMP\_238) = 0 TMP\_239 = 1 not(TMP\_239) = 0 TMP\_240 = 2 TMP\_241 = 0 not(TMP\_241) = 1 TMP\_242 = 0 not(TMP\_242) = 1 TMP\_243 = 1 not(TMP\_243) = 0 TMP\_244 = 1 not(TMP\_244) = 0 TMP\_245 = 1 not(TMP\_245) = 0 TMP\_246 = 2 TMP\_247 = 0 not(TMP\_247) = 1 TMP\_248 = 1 not(TMP\_248) = 0 TMP\_249 = 1 not(TMP\_249) = 0 TMP\_250 = 1 not(TMP\_250) = 0 TMP\_251 = 1 not(TMP\_251) = 0 TMP\_252 = 1 not(TMP\_252) = 0 TMP\_253 = 5 TMP\_254 = 0 not(TMP\_254) = 1 TMP\_255 = 0 not(TMP\_255) = 1 TMP\_256 = 0 TMP\_257 = 1 not(TMP\_257) = 0 TMP\_258 = 1 not(TMP\_258) = 0 TMP\_259 = 2 TMP\_260 = 0 not(TMP\_260) = 1 TMP\_261 = 0 not(TMP\_261) = 1 TMP\_262 = 1 not(TMP\_262) = 0 TMP\_263 = 1 not(TMP\_263) = 0 TMP\_264 = 1 not(TMP\_264) = 0 TMP\_265 = 2 TMP\_266 = 0 not(TMP\_266) = 1 TMP\_267 = 1 not(TMP\_267) = 0 TMP\_268 = 1 not(TMP\_268) = 0 TMP\_269 = 1 not(TMP\_269) = 0 TMP\_270 = 1 not(TMP\_270) = 0 TMP\_271 = 1 not(TMP\_271) = 0 TMP\_272 = 5 TMP\_273 = 0 not(TMP\_273) = 1 TMP\_274 = 0 not(TMP\_274) = 1 TMP\_275 = 0 TMP\_276 = 1 not(TMP\_276) = 0 TMP\_277 = 1 not(TMP\_277) = 0 TMP\_278 = 2 TMP\_279 = 0 not(TMP\_279) = 1 TMP\_280 = 0 not(TMP\_280) = 1 TMP\_281 = 1 not(TMP\_281) = 0 TMP\_282 = 1 not(TMP\_282) = 0 TMP\_283 = 1 not(TMP\_283) = 0 TMP\_284 = 2 TMP\_285 = 0 not(TMP\_285) = 1 TMP\_286 = 1 not(TMP\_286) = 0 TMP\_287 = 1 not(TMP\_287) = 0 TMP\_288 = 1 not(TMP\_288) = 0 TMP\_289 = 1 not(TMP\_289) = 0 TMP\_290 = 1 not(TMP\_290) = 0 TMP\_291 = 5 TMP\_292 = 0 not(TMP\_292) = 1 TMP\_293 = 0 not(TMP\_293) = 1 TMP\_294 = 0 TMP\_295 = 1 not(TMP\_295) = 0 TMP\_296 = 1 not(TMP\_296) = 0 TMP\_297 = 2 TMP\_298 = 0 not(TMP\_298) = 1 TMP\_299 = 0 not(TMP\_299) = 1 TMP\_300 = 1 not(TMP\_300) = 0 TMP\_301 = 1 not(TMP\_301) = 0 TMP\_302 = 1 not(TMP\_302) = 0 TMP\_303 = 2 TMP\_304 = 0 not(TMP\_304) = 1 TMP\_305 = 1 not(TMP\_305) = 0 TMP\_306 = 1 not(TMP\_306) = 0 TMP\_307 = 1 not(TMP\_307) = 0 TMP\_308 = 0 not(TMP\_308) = 1 TMP\_309 = 1 not(TMP\_309) = 0 TMP\_310 = 4 TMP\_311 = 0 not(TMP\_311) = 1 TMP\_312 = 0 not(TMP\_312) = 1 TMP\_313 = 0 TMP\_314 = 1 not(TMP\_314) = 0 TMP\_315 = 1 not(TMP\_315) = 0 TMP\_316 = 2 TMP\_317 = 0 not(TMP\_317) = 1 TMP\_318 = 0 not(TMP\_318) = 1 TMP\_319 = 1 not(TMP\_319) = 0 TMP\_320 = 1 not(TMP\_320) = 0 TMP\_321 = 1 not(TMP\_321) = 0 TMP\_322 = 2 TMP\_323 = 0 not(TMP\_323) = 1 TMP\_324 = 1 not(TMP\_324) = 0 TMP\_325 = 1 not(TMP\_325) = 0 TMP\_326 = 1 not(TMP\_326) = 0 TMP\_327 = 0 not(TMP\_327) = 1 TMP\_328 = 1 not(TMP\_328) = 0 TMP\_329 = 4 TMP\_330 = 0 not(TMP\_330) = 1 TMP\_331 = 0 not(TMP\_331) = 1 TMP\_332 = 0 TMP\_333 = 1 not(TMP\_333) = 0 TMP\_334 = 1 not(TMP\_334) = 0 TMP\_335 = 2 TMP\_336 = 0 not(TMP\_336) = 1 TMP\_337 = 0 not(TMP\_337) = 1 TMP\_338 = 1 not(TMP\_338) = 0 TMP\_339 = 1 not(TMP\_339) = 0 TMP\_340 = 1 not(TMP\_340) = 0 TMP\_341 = 2 TMP\_342 = 1 not(TMP\_342) = 0 TMP\_343 = 1 not(TMP\_343) = 0 TMP\_344 = 1 not(TMP\_344) = 0 TMP\_345 = 1 not(TMP\_345) = 0 TMP\_346 = 0 not(TMP\_346) = 1 TMP\_347 = 1 not(TMP\_347) = 0 TMP\_348 = 5 TMP\_349 = 0 not(TMP\_349) = 1 TMP\_350 = 0 not(TMP\_350) = 1 TMP\_351 = 0 TMP\_352 = 1 not(TMP\_352) = 0 TMP\_353 = 1 not(TMP\_353) = 0 TMP\_354 = 2 TMP\_355 = 0 not(TMP\_355) = 1 TMP\_356 = 0 not(TMP\_356) = 1 TMP\_357 = 1 not(TMP\_357) = 0 TMP\_358 = 1 not(TMP\_358) = 0 TMP\_359 = 1 not(TMP\_359) = 0 TMP\_360 = 2 TMP\_361 = 0 not(TMP\_361) = 1 TMP\_362 = 1 not(TMP\_362) = 0 TMP\_363 = 1 not(TMP\_363) = 0 TMP\_364 = 1 not(TMP\_364) = 0 TMP\_365 = 1 not(TMP\_365) = 0 TMP\_366 = 1 not(TMP\_366) = 0 TMP\_367 = 5 TMP\_368 = 0 not(TMP\_368) = 1 TMP\_369 = 0 not(TMP\_369) = 1 TMP\_370 = 0 TMP\_371 = 1 not(TMP\_371) = 0 TMP\_372 = 1 not(TMP\_372) = 0 TMP\_373 = 2 TMP\_374 = 0 not(TMP\_374) = 1 TMP\_375 = 0 not(TMP\_375) = 1 TMP\_376 = 1 not(TMP\_376) = 0 TMP\_377 = 1 not(TMP\_377) = 0 TMP\_378 = 1 not(TMP\_378) = 0 TMP\_379 = 2 TMP\_380 = 0 not(TMP\_380) = 1 TMP\_381 = 1 not(TMP\_381) = 0 TMP\_382 = 1 not(TMP\_382) = 0 TMP\_383 = 1 not(TMP\_383) = 0 TMP\_384 = 0 not(TMP\_384) = 1 TMP\_385 = 1 not(TMP\_385) = 0 TMP\_386 = 4 TMP\_387 = 0 not(TMP\_387) = 1 TMP\_388 = 0 not(TMP\_388) = 1 TMP\_389 = 0 TMP\_390 = 1 not(TMP\_390) = 0 TMP\_391 = 1 not(TMP\_391) = 0 TMP\_392 = 2 TMP\_393 = 0 not(TMP\_393) = 1 TMP\_394 = 0 not(TMP\_394) = 1 TMP\_395 = 1 not(TMP\_395) = 0 TMP\_396 = 1 not(TMP\_396) = 0 TMP\_397 = 1 not(TMP\_397) = 0 TMP\_398 = 2 TMP\_399 = 0 not(TMP\_399) = 1 TMP\_400 = 1 not(TMP\_400) = 0 TMP\_401 = 1 not(TMP\_401) = 0 TMP\_402 = 1 not(TMP\_402) = 0 TMP\_403 = 1 not(TMP\_403) = 0 TMP\_404 = 1 not(TMP\_404) = 0 TMP\_405 = 5 TMP\_406 = 0 not(TMP\_406) = 1 TMP\_407 = 0 not(TMP\_407) = 1 TMP\_408 = 0 TMP\_409 = 1 not(TMP\_409) = 0 TMP\_410 = 1 not(TMP\_410) = 0 TMP\_411 = 2 TMP\_412 = 0 not(TMP\_412) = 1 TMP\_413 = 0 not(TMP\_413) = 1 TMP\_414 = 1 not(TMP\_414) = 0 TMP\_415 = 1 not(TMP\_415) = 0 TMP\_416 = 1 not(TMP\_416) = 0 TMP\_417 = 2 TMP\_418 = 1 not(TMP\_418) = 0 TMP\_419 = 0 not(TMP\_419) = 1 TMP\_420 = 1 not(TMP\_420) = 0 TMP\_421 = 1 not(TMP\_421) = 0 TMP\_422 = 1 not(TMP\_422) = 0 TMP\_423 = 1 not(TMP\_423) = 0 TMP\_424 = 5 TMP\_425 = 0 not(TMP\_425) = 1 TMP\_426 = 0 not(TMP\_426) = 1 TMP\_427 = 0 TMP\_428 = 1 not(TMP\_428) = 0 TMP\_429 = 1 not(TMP\_429) = 0 TMP\_430 = 2 TMP\_431 = 0 not(TMP\_431) = 1 TMP\_432 = 0 not(TMP\_432) = 1 TMP\_433 = 1 not(TMP\_433) = 0 TMP\_434 = 1 not(TMP\_434) = 0 TMP\_435 = 1 not(TMP\_435) = 0 TMP\_436 = 2 TMP\_437 = 1 not(TMP\_437) = 0 TMP\_438 = 0 not(TMP\_438) = 1 TMP\_439 = 1 not(TMP\_439) = 0 TMP\_440 = 1 not(TMP\_440) = 0 TMP\_441 = 0 not(TMP\_441) = 1 TMP\_442 = 1 not(TMP\_442) = 0 TMP\_443 = 4 TMP\_444 = 0 not(TMP\_444) = 1 TMP\_445 = 0 not(TMP\_445) = 1 TMP\_446 = 0 TMP\_447 = 1 not(TMP\_447) = 0 TMP\_448 = 1 not(TMP\_448) = 0 TMP\_449 = 2 TMP\_450 = 0 not(TMP\_450) = 1 TMP\_451 = 0 not(TMP\_451) = 1 TMP\_452 = 1 not(TMP\_452) = 0 TMP\_453 = 1 not(TMP\_453) = 0 TMP\_454 = 1 not(TMP\_454) = 0 TMP\_455 = 2 TMP\_456 = 1 not(TMP\_456) = 0 TMP\_457 = 1 not(TMP\_457) = 0 TMP\_458 = 1 not(TMP\_458) = 0 TMP\_459 = 1 not(TMP\_459) = 0 TMP\_460 = 0 not(TMP\_460) = 1 TMP\_461 = 1 not(TMP\_461) = 0 TMP\_462 = 5 TMP\_463 = 0 not(TMP\_463) = 1 TMP\_464 = 0 not(TMP\_464) = 1 TMP\_465 = 0 TMP\_466 = 1 not(TMP\_466) = 0 TMP\_467 = 1 not(TMP\_467) = 0 TMP\_468 = 2 TMP\_469 = 0 not(TMP\_469) = 1 TMP\_470 = 0 not(TMP\_470) = 1 TMP\_471 = 1 not(TMP\_471) = 0 TMP\_472 = 1 not(TMP\_472) = 0 TMP\_473 = 1 not(TMP\_473) = 0 TMP\_474 = 2 TMP\_475 = 1 not(TMP\_475) = 0 TMP\_476 = 0 not(TMP\_476) = 1 TMP\_477 = 1 not(TMP\_477) = 0 TMP\_478 = 1 not(TMP\_478) = 0 TMP\_479 = 0 not(TMP\_479) = 1 TMP\_480 = 1 not(TMP\_480) = 0 TMP\_481 = 4 TMP\_482 = 0 not(TMP\_482) = 1 TMP\_483 = 0 not(TMP\_483) = 1 TMP\_484 = 0 TMP\_485 = 1 not(TMP\_485) = 0 TMP\_486 = 1 not(TMP\_486) = 0 TMP\_487 = 2 TMP\_488 = 0 not(TMP\_488) = 1 TMP\_489 = 0 not(TMP\_489) = 1 TMP\_490 = 1 not(TMP\_490) = 0 TMP\_491 = 1 not(TMP\_491) = 0 TMP\_492 = 1 not(TMP\_492) = 0 TMP\_493 = 2 TMP\_494 = 1 not(TMP\_494) = 0 TMP\_495 = 0 not(TMP\_495) = 1 TMP\_496 = 1 not(TMP\_496) = 0 TMP\_497 = 1 not(TMP\_497) = 0 TMP\_498 = 1 not(TMP\_498) = 0 TMP\_499 = 1 not(TMP\_499) = 0 TMP\_500 = 5 TMP\_501 = 0 not(TMP\_501) = 1 TMP\_502 = 0 not(TMP\_502) = 1 TMP\_503 = 0 TMP\_504 = 1 not(TMP\_504) = 0 TMP\_505 = 1 not(TMP\_505) = 0 TMP\_506 = 2 TMP\_507 = 0 not(TMP\_507) = 1 TMP\_508 = 0 not(TMP\_508) = 1 TMP\_509 = 1 not(TMP\_509) = 0 TMP\_510 = 1 not(TMP\_510) = 0 TMP\_511 = 1 not(TMP\_511) = 0 TMP\_512 = 2 TMP\_513 = 1 not(TMP\_513) = 0 TMP\_514 = 1 not(TMP\_514) = 0 TMP\_515 = 1 not(TMP\_515) = 0 TMP\_516 = 1 not(TMP\_516) = 0 TMP\_517 = 0 not(TMP\_517) = 1 TMP\_518 = 1 not(TMP\_518) = 0 TMP\_519 = 5 TMP\_520 = 0 not(TMP\_520) = 1 TMP\_521 = 0 not(TMP\_521) = 1 TMP\_522 = 0 TMP\_523 = 1 not(TMP\_523) = 0 TMP\_524 = 1 not(TMP\_524) = 0 TMP\_525 = 2 TMP\_526 = 0 not(TMP\_526) = 1 TMP\_527 = 0 not(TMP\_527) = 1 TMP\_528 = 1 not(TMP\_528) = 0 TMP\_529 = 1 not(TMP\_529) = 0 TMP\_530 = 1 not(TMP\_530) = 0 TMP\_531 = 2 TMP\_532 = 1 not(TMP\_532) = 0 TMP\_533 = 1 not(TMP\_533) = 0 TMP\_534 = 1 not(TMP\_534) = 0 TMP\_535 = 1 not(TMP\_535) = 0 TMP\_536 = 1 not(TMP\_536) = 0 TMP\_537 = 0 not(TMP\_537) = 1 TMP\_538 = 5 TMP\_539 = 0 not(TMP\_539) = 1 TMP\_540 = 0 not(TMP\_540) = 1 TMP\_541 = 0 TMP\_542 = 1 not(TMP\_542) = 0 TMP\_543 = 1 not(TMP\_543) = 0 TMP\_544 = 2 TMP\_545 = 0 not(TMP\_545) = 1 TMP\_546 = 0 not(TMP\_546) = 1 TMP\_547 = 1 not(TMP\_547) = 0 TMP\_548 = 1 not(TMP\_548) = 0 TMP\_549 = 1 not(TMP\_549) = 0 TMP\_550 = 2 TMP\_551 = 1 not(TMP\_551) = 0 TMP\_552 = 0 not(TMP\_552) = 1 TMP\_553 = 1 not(TMP\_553) = 0 TMP\_554 = 1 not(TMP\_554) = 0 TMP\_555 = 1 not(TMP\_555) = 0 TMP\_556 = 0 not(TMP\_556) = 1 TMP\_557 = 4 TMP\_558 = 0 not(TMP\_558) = 1 TMP\_559 = 0 not(TMP\_559) = 1 TMP\_560 = 0 TMP\_561 = 1 not(TMP\_561) = 0 TMP\_562 = 1 not(TMP\_562) = 0 TMP\_563 = 2 TMP\_564 = 0 not(TMP\_564) = 1 TMP\_565 = 0 not(TMP\_565) = 1 TMP\_566 = 1 not(TMP\_566) = 0 TMP\_567 = 1 not(TMP\_567) = 0 TMP\_568 = 1 not(TMP\_568) = 0 TMP\_569 = 2 TMP\_570 = 1 not(TMP\_570) = 0 TMP\_571 = 0 not(TMP\_571) = 1 TMP\_572 = 1 not(TMP\_572) = 0 TMP\_573 = 1 not(TMP\_573) = 0 TMP\_574 = 1 not(TMP\_574) = 0 TMP\_575 = 1 not(TMP\_575) = 0 TMP\_576 = 5 TMP\_577 = 0 not(TMP\_577) = 1 TMP\_578 = 0 not(TMP\_578) = 1 TMP\_579 = 0 TMP\_580 = 1 not(TMP\_580) = 0 TMP\_581 = 1 not(TMP\_581) = 0 TMP\_582 = 2 TMP\_583 = 0 not(TMP\_583) = 1 TMP\_584 = 0 not(TMP\_584) = 1 TMP\_585 = 1 not(TMP\_585) = 0 TMP\_586 = 1 not(TMP\_586) = 0 TMP\_587 = 1 not(TMP\_587) = 0 TMP\_588 = 2 TMP\_589 = 1 not(TMP\_589) = 0 TMP\_590 = 1 not(TMP\_590) = 0 TMP\_591 = 0 not(TMP\_591) = 1 TMP\_592 = 1 not(TMP\_592) = 0 TMP\_593 = 1 not(TMP\_593) = 0 TMP\_594 = 1 not(TMP\_594) = 0 TMP\_595 = 5 TMP\_596 = 0 not(TMP\_596) = 1 TMP\_597 = 0 not(TMP\_597) = 1 TMP\_598 = 0 TMP\_599 = 1 not(TMP\_599) = 0 TMP\_600 = 1 not(TMP\_600) = 0 TMP\_601 = 2 TMP\_602 = 0 not(TMP\_602) = 1 TMP\_603 = 0 not(TMP\_603) = 1 TMP\_604 = 1 not(TMP\_604) = 0 TMP\_605 = 1 not(TMP\_605) = 0 TMP\_606 = 1 not(TMP\_606) = 0 TMP\_607 = 2 TMP\_608 = 1 not(TMP\_608) = 0 TMP\_609 = 0 not(TMP\_609) = 1 TMP\_610 = 1 not(TMP\_610) = 0 TMP\_611 = 1 not(TMP\_611) = 0 TMP\_612 = 1 not(TMP\_612) = 0 TMP\_613 = 1 not(TMP\_613) = 0 TMP\_614 = 5 TMP\_615 = 0 not(TMP\_615) = 1 TMP\_616 = 0 not(TMP\_616) = 1 TMP\_617 = 0 TMP\_618 = 1 not(TMP\_618) = 0 TMP\_619 = 1 not(TMP\_619) = 0 TMP\_620 = 2 TMP\_621 = 0 not(TMP\_621) = 1 TMP\_622 = 0 not(TMP\_622) = 1 TMP\_623 = 1 not(TMP\_623) = 0 TMP\_624 = 1 not(TMP\_624) = 0 TMP\_625 = 1 not(TMP\_625) = 0 TMP\_626 = 2 TMP\_627 = 1 not(TMP\_627) = 0 TMP\_628 = 0 not(TMP\_628) = 1 TMP\_629 = 1 not(TMP\_629) = 0 TMP\_630 = 1 not(TMP\_630) = 0 TMP\_631 = 1 not(TMP\_631) = 0 TMP\_632 = 0 not(TMP\_632) = 1 TMP\_633 = 4 TMP\_634 = 0 not(TMP\_634) = 1 TMP\_635 = 0 not(TMP\_635) = 1 TMP\_636 = 0 TMP\_637 = 1 not(TMP\_637) = 0 TMP\_638 = 1 not(TMP\_638) = 0 TMP\_639 = 2 TMP\_640 = 0 not(TMP\_640) = 1 TMP\_641 = 0 not(TMP\_641) = 1 TMP\_642 = 1 not(TMP\_642) = 0 TMP\_643 = 1 not(TMP\_643) = 0 TMP\_644 = 1 not(TMP\_644) = 0 TMP\_645 = 2 TMP\_646 = 1 not(TMP\_646) = 0 TMP\_647 = 1 not(TMP\_647) = 0 TMP\_648 = 1 not(TMP\_648) = 0 TMP\_649 = 1 not(TMP\_649) = 0 TMP\_650 = 1 not(TMP\_650) = 0 TMP\_651 = 0 not(TMP\_651) = 1 TMP\_652 = 5 TMP\_653 = 0 not(TMP\_653) = 1 TMP\_654 = 0 not(TMP\_654) = 1 TMP\_655 = 0 TMP\_656 = 1 not(TMP\_656) = 0 TMP\_657 = 1 not(TMP\_657) = 0 TMP\_658 = 2 TMP\_659 = 0 not(TMP\_659) = 1 TMP\_660 = 0 not(TMP\_660) = 1 TMP\_661 = 1 not(TMP\_661) = 0 TMP\_662 = 1 not(TMP\_662) = 0 TMP\_663 = 1 not(TMP\_663) = 0 TMP\_664 = 2 Area\_0 = 60 Distance\_0\_Rule\_0 = 20 Distance\_1\_Rule\_0 = 3 Distance\_2\_Rule\_0 = 1 Area\_1 = 174 Distance\_0\_Rule\_1 = 58 Distance\_1\_Rule\_1 = 3 Distance\_2\_Rule\_1 = 1 Area\_2 = 116 Distance\_0\_Rule\_2 = 58 Distance\_1\_Rule\_2 = 2 Distance\_2\_Rule\_2 = 1 Area\_3 = 79 -(Rule\_3\_LB) = 0 Distance\_0\_Rule\_3 = 79 -(Rule\_3\_LB) = 0 Distance\_1\_Rule\_3 = 1 -(Rule\_3\_LB) = 0 Distance\_2\_Rule\_3 = 1 Area\_4 = 123 -(Rule\_4\_LB) = -79 Distance\_0\_Rule\_4 = 41 -(Rule\_4\_LB) = 0 Distance\_1\_Rule\_4 = 3 -(Rule\_4\_LB) = 0 Distance\_2\_Rule\_4 = 1 Area\_5 = 123 -(Rule\_5\_LB) = -79 Distance\_0\_Rule\_5 = 41 -(Rule\_5\_LB) = 0 Distance\_1\_Rule\_5 = 3 -(Rule\_5\_LB) = -1 Distance\_2\_Rule\_5 = 1 Area\_6 = 3 -(Rule\_6\_LB) = -20 Distance\_0\_Rule\_6 = 1 -(Rule\_6\_LB) = 0 Distance\_1\_Rule\_6 = 3 -(Rule\_6\_LB) = -1 Distance\_2\_Rule\_6 = 1 Area\_7 = 42 -(Rule\_7\_LB) = 0 Distance\_0\_Rule\_7 = 21 -(Rule\_7\_LB) = -1 Distance\_1\_Rule\_7 = 2 -(Rule\_7\_LB) = 0 Distance\_2\_Rule\_7 = 1 TMP\_665 = 720 .

- Solution #5 found. 5 Solutions, Resolution 3.153s, 23825 Nodes (7,557.3 n/s), 47596 Backtracks, 23801 Fails, 0 Restarts

Rule\_3\_LB = 0 Rule\_3\_UB = 79 Rule\_3\_LB = 0 Rule\_3\_UB = 1 Rule\_3\_LB = 0 Rule\_3\_UB = 1 Rule\_4\_LB = 79 Rule\_4\_UB = 120 Rule\_4\_LB = 0 Rule\_4\_UB = 3 Rule\_4\_LB = 0 Rule\_4\_UB = 1 Rule\_5\_LB = 79 Rule\_5\_UB = 120 Rule\_5\_LB = 0 Rule\_5\_UB = 3 Rule\_5\_LB = 1 Rule\_5\_UB = 2 Rule\_6\_LB = 20 Rule\_6\_UB = 21 Rule\_6\_LB = 0 Rule\_6\_UB = 3 Rule\_6\_LB = 1 Rule\_6\_UB = 2 Rule\_7\_LB = 0 Rule\_7\_UB = 21 Rule\_7\_LB = 1 Rule\_7\_UB = 3 Rule\_7\_LB = 0 Rule\_7\_UB = 1 Overlaps\_0\_0 = 0 Overlaps\_0\_1 = 1 Overlaps\_0\_2 = 0 Overlaps\_0\_3 = 0 Overlaps\_0\_4 = 0 Overlaps\_0\_5 = 0 Overlaps\_0\_6 = 0 Overlaps\_0\_7 = 0 Overlaps\_1\_0 = 0 Overlaps\_1\_1 = 0 Overlaps\_1\_2 = 0 Overlaps\_1\_3 = 0 Overlaps\_1\_4 = 0 Overlaps\_1\_5 = 0 Overlaps\_1\_6 = 0 Overlaps\_1\_7 = 0 Overlaps\_2\_0 = 0 Overlaps\_2\_1 = 0 Overlaps\_2\_2 = 0 Overlaps\_2\_3 = 0 Overlaps\_2\_4 = 0 Overlaps\_2\_5 = 0 Overlaps\_2\_6 = 0 Overlaps\_2\_7 = 0 Overlaps\_3\_0 = 0 Overlaps\_3\_1 = 0 Overlaps\_3\_2 = 0 Overlaps\_3\_3 = 0 Overlaps\_3\_4 = 0 Overlaps\_3\_5 = 0 Overlaps\_3\_6 = 0 Overlaps\_3\_7 = 0 Overlaps\_4\_0 = 0 Overlaps\_4\_1 = 0 Overlaps\_4\_2 = 0 Overlaps\_4\_3 = 0 Overlaps\_4\_4 = 0 Overlaps\_4\_5 = 0 Overlaps\_4\_6 = 0 Overlaps\_4\_7 = 0 Overlaps\_5\_0 = 0 Overlaps\_5\_1 = 0 Overlaps\_5\_2 = 0 Overlaps\_5\_3 = 0 Overlaps\_5\_4 = 0 Overlaps\_5\_5 = 0 Overlaps\_5\_6 = 0 Overlaps\_5\_7 = 0 Overlaps\_6\_0 = 0 Overlaps\_6\_1 = 0 Overlaps\_6\_2 = 0 Overlaps\_6\_3 = 0 Overlaps\_6\_4 = 0 Overlaps\_6\_5 = 0 Overlaps\_6\_6 = 0 Overlaps\_6\_7 = 0 Overlaps\_7\_0 = 0 Overlaps\_7\_1 = 0 Overlaps\_7\_2 = 0 Overlaps\_7\_3 = 0 Overlaps\_7\_4 = 0 Overlaps\_7\_5 = 0 Overlaps\_7\_6 = 0 Overlaps\_7\_7 = 0 TMP\_0 = 1 not(TMP\_0) = 0 TMP\_1 = 1 not(TMP\_1) = 0 TMP\_2 = 1 not(TMP\_2) = 0 TMP\_3 = 1 not(TMP\_3) = 0 TMP\_4 = 1 not(TMP\_4) = 0 TMP\_5 = 0 not(TMP\_5) = 1 TMP\_6 = 5 TMP\_7 = 0 not(TMP\_7) = 1 TMP\_8 = 0 not(TMP\_8) = 1 TMP\_9 = 0 TMP\_10 = 1 not(TMP\_10) = 0 TMP\_11 = 1 not(TMP\_11) = 0 TMP\_12 = 2 TMP\_13 = 0 not(TMP\_13) = 1 TMP\_14 = 0 not(TMP\_14) = 1 TMP\_15 = 1 not(TMP\_15) = 0 TMP\_16 = 1 not(TMP\_16) = 0 TMP\_17 = 1 not(TMP\_17) = 0 TMP\_18 = 2 TMP\_19 = 1 not(TMP\_19) = 0 TMP\_20 = 1 not(TMP\_20) = 0 TMP\_21 = 1 not(TMP\_21) = 0 TMP\_22 = 1 not(TMP\_22) = 0 TMP\_23 = 1 not(TMP\_23) = 0 TMP\_24 = 0 not(TMP\_24) = 1 TMP\_25 = 5 TMP\_26 = 0 not(TMP\_26) = 1 TMP\_27 = 0 not(TMP\_27) = 1 TMP\_28 = 0 TMP\_29 = 1 not(TMP\_29) = 0 TMP\_30 = 1 not(TMP\_30) = 0 TMP\_31 = 2 TMP\_32 = 0 not(TMP\_32) = 1 TMP\_33 = 0 not(TMP\_33) = 1 TMP\_34 = 1 not(TMP\_34) = 0 TMP\_35 = 1 not(TMP\_35) = 0 TMP\_36 = 1 not(TMP\_36) = 0 TMP\_37 = 2 TMP\_38 = 1 not(TMP\_38) = 0 TMP\_39 = 1 not(TMP\_39) = 0 TMP\_40 = 1 not(TMP\_40) = 0 TMP\_41 = 0 not(TMP\_41) = 1 TMP\_42 = 1 not(TMP\_42) = 0 TMP\_43 = 1 not(TMP\_43) = 0 TMP\_44 = 5 TMP\_45 = 0 not(TMP\_45) = 1 TMP\_46 = 0 not(TMP\_46) = 1 TMP\_47 = 0 TMP\_48 = 1 not(TMP\_48) = 0 TMP\_49 = 1 not(TMP\_49) = 0 TMP\_50 = 2 TMP\_51 = 0 not(TMP\_51) = 1 TMP\_52 = 0 not(TMP\_52) = 1 TMP\_53 = 1 not(TMP\_53) = 0 TMP\_54 = 1 not(TMP\_54) = 0 TMP\_55 = 1 not(TMP\_55) = 0 TMP\_56 = 2 TMP\_57 = 1 not(TMP\_57) = 0 TMP\_58 = 0 not(TMP\_58) = 1 TMP\_59 = 1 not(TMP\_59) = 0 TMP\_60 = 1 not(TMP\_60) = 0 TMP\_61 = 1 not(TMP\_61) = 0 TMP\_62 = 1 not(TMP\_62) = 0 TMP\_63 = 5 TMP\_64 = 0 not(TMP\_64) = 1 TMP\_65 = 0 not(TMP\_65) = 1 TMP\_66 = 0 TMP\_67 = 1 not(TMP\_67) = 0 TMP\_68 = 1 not(TMP\_68) = 0 TMP\_69 = 2 TMP\_70 = 0 not(TMP\_70) = 1 TMP\_71 = 0 not(TMP\_71) = 1 TMP\_72 = 1 not(TMP\_72) = 0 TMP\_73 = 1 not(TMP\_73) = 0 TMP\_74 = 1 not(TMP\_74) = 0 TMP\_75 = 2 TMP\_76 = 1 not(TMP\_76) = 0 TMP\_77 = 0 not(TMP\_77) = 1 TMP\_78 = 1 not(TMP\_78) = 0 TMP\_79 = 1 not(TMP\_79) = 0 TMP\_80 = 1 not(TMP\_80) = 0 TMP\_81 = 0 not(TMP\_81) = 1 TMP\_82 = 4 TMP\_83 = 0 not(TMP\_83) = 1 TMP\_84 = 0 not(TMP\_84) = 1 TMP\_85 = 0 TMP\_86 = 1 not(TMP\_86) = 0 TMP\_87 = 1 not(TMP\_87) = 0 TMP\_88 = 2 TMP\_89 = 0 not(TMP\_89) = 1 TMP\_90 = 0 not(TMP\_90) = 1 TMP\_91 = 1 not(TMP\_91) = 0 TMP\_92 = 1 not(TMP\_92) = 0 TMP\_93 = 1 not(TMP\_93) = 0 TMP\_94 = 2 TMP\_95 = 1 not(TMP\_95) = 0 TMP\_96 = 1 not(TMP\_96) = 0 TMP\_97 = 1 not(TMP\_97) = 0 TMP\_98 = 1 not(TMP\_98) = 0 TMP\_99 = 1 not(TMP\_99) = 0 TMP\_100 = 0 not(TMP\_100) = 1 TMP\_101 = 5 TMP\_102 = 0 not(TMP\_102) = 1 TMP\_103 = 0 not(TMP\_103) = 1 TMP\_104 = 0 TMP\_105 = 1 not(TMP\_105) = 0 TMP\_106 = 1 not(TMP\_106) = 0 TMP\_107 = 2 TMP\_108 = 0 not(TMP\_108) = 1 TMP\_109 = 0 not(TMP\_109) = 1 TMP\_110 = 1 not(TMP\_110) = 0 TMP\_111 = 1 not(TMP\_111) = 0 TMP\_112 = 1 not(TMP\_112) = 0 TMP\_113 = 2 TMP\_114 = 1 not(TMP\_114) = 0 TMP\_115 = 1 not(TMP\_115) = 0 TMP\_116 = 1 not(TMP\_116) = 0 TMP\_117 = 0 not(TMP\_117) = 1 TMP\_118 = 1 not(TMP\_118) = 0 TMP\_119 = 1 not(TMP\_119) = 0 TMP\_120 = 5 TMP\_121 = 0 not(TMP\_121) = 1 TMP\_122 = 0 not(TMP\_122) = 1 TMP\_123 = 0 TMP\_124 = 1 not(TMP\_124) = 0 TMP\_125 = 1 not(TMP\_125) = 0 TMP\_126 = 2 TMP\_127 = 0 not(TMP\_127) = 1 TMP\_128 = 0 not(TMP\_128) = 1 TMP\_129 = 1 not(TMP\_129) = 0 TMP\_130 = 1 not(TMP\_130) = 0 TMP\_131 = 1 not(TMP\_131) = 0 TMP\_132 = 2 TMP\_133 = 0 not(TMP\_133) = 1 TMP\_134 = 1 not(TMP\_134) = 0 TMP\_135 = 1 not(TMP\_135) = 0 TMP\_136 = 1 not(TMP\_136) = 0 TMP\_137 = 1 not(TMP\_137) = 0 TMP\_138 = 0 not(TMP\_138) = 1 TMP\_139 = 4 TMP\_140 = 0 not(TMP\_140) = 1 TMP\_141 = 0 not(TMP\_141) = 1 TMP\_142 = 0 TMP\_143 = 1 not(TMP\_143) = 0 TMP\_144 = 1 not(TMP\_144) = 0 TMP\_145 = 2 TMP\_146 = 0 not(TMP\_146) = 1 TMP\_147 = 0 not(TMP\_147) = 1 TMP\_148 = 1 not(TMP\_148) = 0 TMP\_149 = 1 not(TMP\_149) = 0 TMP\_150 = 1 not(TMP\_150) = 0 TMP\_151 = 2 TMP\_152 = 0 not(TMP\_152) = 1 TMP\_153 = 1 not(TMP\_153) = 0 TMP\_154 = 1 not(TMP\_154) = 0 TMP\_155 = 1 not(TMP\_155) = 0 TMP\_156 = 1 not(TMP\_156) = 0 TMP\_157 = 0 not(TMP\_157) = 1 TMP\_158 = 4 TMP\_159 = 0 not(TMP\_159) = 1 TMP\_160 = 0 not(TMP\_160) = 1 TMP\_161 = 0 TMP\_162 = 1 not(TMP\_162) = 0 TMP\_163 = 1 not(TMP\_163) = 0 TMP\_164 = 2 TMP\_165 = 0 not(TMP\_165) = 1 TMP\_166 = 0 not(TMP\_166) = 1 TMP\_167 = 1 not(TMP\_167) = 0 TMP\_168 = 1 not(TMP\_168) = 0 TMP\_169 = 1 not(TMP\_169) = 0 TMP\_170 = 2 TMP\_171 = 0 not(TMP\_171) = 1 TMP\_172 = 1 not(TMP\_172) = 0 TMP\_173 = 1 not(TMP\_173) = 0 TMP\_174 = 1 not(TMP\_174) = 0 TMP\_175 = 1 not(TMP\_175) = 0 TMP\_176 = 1 not(TMP\_176) = 0 TMP\_177 = 5 TMP\_178 = 0 not(TMP\_178) = 1 TMP\_179 = 0 not(TMP\_179) = 1 TMP\_180 = 0 TMP\_181 = 1 not(TMP\_181) = 0 TMP\_182 = 1 not(TMP\_182) = 0 TMP\_183 = 2 TMP\_184 = 0 not(TMP\_184) = 1 TMP\_185 = 0 not(TMP\_185) = 1 TMP\_186 = 1 not(TMP\_186) = 0 TMP\_187 = 1 not(TMP\_187) = 0 TMP\_188 = 1 not(TMP\_188) = 0 TMP\_189 = 2 TMP\_190 = 0 not(TMP\_190) = 1 TMP\_191 = 1 not(TMP\_191) = 0 TMP\_192 = 1 not(TMP\_192) = 0 TMP\_193 = 1 not(TMP\_193) = 0 TMP\_194 = 1 not(TMP\_194) = 0 TMP\_195 = 1 not(TMP\_195) = 0 TMP\_196 = 5 TMP\_197 = 0 not(TMP\_197) = 1 TMP\_198 = 0 not(TMP\_198) = 1 TMP\_199 = 0 TMP\_200 = 1 not(TMP\_200) = 0 TMP\_201 = 1 not(TMP\_201) = 0 TMP\_202 = 2 TMP\_203 = 0 not(TMP\_203) = 1 TMP\_204 = 0 not(TMP\_204) = 1 TMP\_205 = 1 not(TMP\_205) = 0 TMP\_206 = 1 not(TMP\_206) = 0 TMP\_207 = 1 not(TMP\_207) = 0 TMP\_208 = 2 TMP\_209 = 1 not(TMP\_209) = 0 TMP\_210 = 1 not(TMP\_210) = 0 TMP\_211 = 1 not(TMP\_211) = 0 TMP\_212 = 1 not(TMP\_212) = 0 TMP\_213 = 1 not(TMP\_213) = 0 TMP\_214 = 0 not(TMP\_214) = 1 TMP\_215 = 5 TMP\_216 = 0 not(TMP\_216) = 1 TMP\_217 = 0 not(TMP\_217) = 1 TMP\_218 = 0 TMP\_219 = 1 not(TMP\_219) = 0 TMP\_220 = 1 not(TMP\_220) = 0 TMP\_221 = 2 TMP\_222 = 0 not(TMP\_222) = 1 TMP\_223 = 0 not(TMP\_223) = 1 TMP\_224 = 1 not(TMP\_224) = 0 TMP\_225 = 1 not(TMP\_225) = 0 TMP\_226 = 1 not(TMP\_226) = 0 TMP\_227 = 2 TMP\_228 = 0 not(TMP\_228) = 1 TMP\_229 = 1 not(TMP\_229) = 0 TMP\_230 = 1 not(TMP\_230) = 0 TMP\_231 = 1 not(TMP\_231) = 0 TMP\_232 = 1 not(TMP\_232) = 0 TMP\_233 = 0 not(TMP\_233) = 1 TMP\_234 = 4 TMP\_235 = 0 not(TMP\_235) = 1 TMP\_236 = 0 not(TMP\_236) = 1 TMP\_237 = 0 TMP\_238 = 1 not(TMP\_238) = 0 TMP\_239 = 1 not(TMP\_239) = 0 TMP\_240 = 2 TMP\_241 = 0 not(TMP\_241) = 1 TMP\_242 = 0 not(TMP\_242) = 1 TMP\_243 = 1 not(TMP\_243) = 0 TMP\_244 = 1 not(TMP\_244) = 0 TMP\_245 = 1 not(TMP\_245) = 0 TMP\_246 = 2 TMP\_247 = 0 not(TMP\_247) = 1 TMP\_248 = 1 not(TMP\_248) = 0 TMP\_249 = 1 not(TMP\_249) = 0 TMP\_250 = 1 not(TMP\_250) = 0 TMP\_251 = 1 not(TMP\_251) = 0 TMP\_252 = 1 not(TMP\_252) = 0 TMP\_253 = 5 TMP\_254 = 0 not(TMP\_254) = 1 TMP\_255 = 0 not(TMP\_255) = 1 TMP\_256 = 0 TMP\_257 = 1 not(TMP\_257) = 0 TMP\_258 = 1 not(TMP\_258) = 0 TMP\_259 = 2 TMP\_260 = 0 not(TMP\_260) = 1 TMP\_261 = 0 not(TMP\_261) = 1 TMP\_262 = 1 not(TMP\_262) = 0 TMP\_263 = 1 not(TMP\_263) = 0 TMP\_264 = 1 not(TMP\_264) = 0 TMP\_265 = 2 TMP\_266 = 0 not(TMP\_266) = 1 TMP\_267 = 1 not(TMP\_267) = 0 TMP\_268 = 1 not(TMP\_268) = 0 TMP\_269 = 1 not(TMP\_269) = 0 TMP\_270 = 1 not(TMP\_270) = 0 TMP\_271 = 1 not(TMP\_271) = 0 TMP\_272 = 5 TMP\_273 = 0 not(TMP\_273) = 1 TMP\_274 = 0 not(TMP\_274) = 1 TMP\_275 = 0 TMP\_276 = 1 not(TMP\_276) = 0 TMP\_277 = 1 not(TMP\_277) = 0 TMP\_278 = 2 TMP\_279 = 0 not(TMP\_279) = 1 TMP\_280 = 0 not(TMP\_280) = 1 TMP\_281 = 1 not(TMP\_281) = 0 TMP\_282 = 1 not(TMP\_282) = 0 TMP\_283 = 1 not(TMP\_283) = 0 TMP\_284 = 2 TMP\_285 = 0 not(TMP\_285) = 1 TMP\_286 = 1 not(TMP\_286) = 0 TMP\_287 = 1 not(TMP\_287) = 0 TMP\_288 = 1 not(TMP\_288) = 0 TMP\_289 = 1 not(TMP\_289) = 0 TMP\_290 = 1 not(TMP\_290) = 0 TMP\_291 = 5 TMP\_292 = 0 not(TMP\_292) = 1 TMP\_293 = 0 not(TMP\_293) = 1 TMP\_294 = 0 TMP\_295 = 1 not(TMP\_295) = 0 TMP\_296 = 1 not(TMP\_296) = 0 TMP\_297 = 2 TMP\_298 = 0 not(TMP\_298) = 1 TMP\_299 = 0 not(TMP\_299) = 1 TMP\_300 = 1 not(TMP\_300) = 0 TMP\_301 = 1 not(TMP\_301) = 0 TMP\_302 = 1 not(TMP\_302) = 0 TMP\_303 = 2 TMP\_304 = 0 not(TMP\_304) = 1 TMP\_305 = 1 not(TMP\_305) = 0 TMP\_306 = 1 not(TMP\_306) = 0 TMP\_307 = 1 not(TMP\_307) = 0 TMP\_308 = 0 not(TMP\_308) = 1 TMP\_309 = 1 not(TMP\_309) = 0 TMP\_310 = 4 TMP\_311 = 0 not(TMP\_311) = 1 TMP\_312 = 0 not(TMP\_312) = 1 TMP\_313 = 0 TMP\_314 = 1 not(TMP\_314) = 0 TMP\_315 = 1 not(TMP\_315) = 0 TMP\_316 = 2 TMP\_317 = 0 not(TMP\_317) = 1 TMP\_318 = 0 not(TMP\_318) = 1 TMP\_319 = 1 not(TMP\_319) = 0 TMP\_320 = 1 not(TMP\_320) = 0 TMP\_321 = 1 not(TMP\_321) = 0 TMP\_322 = 2 TMP\_323 = 0 not(TMP\_323) = 1 TMP\_324 = 1 not(TMP\_324) = 0 TMP\_325 = 1 not(TMP\_325) = 0 TMP\_326 = 1 not(TMP\_326) = 0 TMP\_327 = 0 not(TMP\_327) = 1 TMP\_328 = 1 not(TMP\_328) = 0 TMP\_329 = 4 TMP\_330 = 0 not(TMP\_330) = 1 TMP\_331 = 0 not(TMP\_331) = 1 TMP\_332 = 0 TMP\_333 = 1 not(TMP\_333) = 0 TMP\_334 = 1 not(TMP\_334) = 0 TMP\_335 = 2 TMP\_336 = 0 not(TMP\_336) = 1 TMP\_337 = 0 not(TMP\_337) = 1 TMP\_338 = 1 not(TMP\_338) = 0 TMP\_339 = 1 not(TMP\_339) = 0 TMP\_340 = 1 not(TMP\_340) = 0 TMP\_341 = 2 TMP\_342 = 1 not(TMP\_342) = 0 TMP\_343 = 1 not(TMP\_343) = 0 TMP\_344 = 1 not(TMP\_344) = 0 TMP\_345 = 1 not(TMP\_345) = 0 TMP\_346 = 0 not(TMP\_346) = 1 TMP\_347 = 1 not(TMP\_347) = 0 TMP\_348 = 5 TMP\_349 = 0 not(TMP\_349) = 1 TMP\_350 = 0 not(TMP\_350) = 1 TMP\_351 = 0 TMP\_352 = 1 not(TMP\_352) = 0 TMP\_353 = 1 not(TMP\_353) = 0 TMP\_354 = 2 TMP\_355 = 0 not(TMP\_355) = 1 TMP\_356 = 0 not(TMP\_356) = 1 TMP\_357 = 1 not(TMP\_357) = 0 TMP\_358 = 1 not(TMP\_358) = 0 TMP\_359 = 1 not(TMP\_359) = 0 TMP\_360 = 2 TMP\_361 = 0 not(TMP\_361) = 1 TMP\_362 = 1 not(TMP\_362) = 0 TMP\_363 = 1 not(TMP\_363) = 0 TMP\_364 = 1 not(TMP\_364) = 0 TMP\_365 = 1 not(TMP\_365) = 0 TMP\_366 = 1 not(TMP\_366) = 0 TMP\_367 = 5 TMP\_368 = 0 not(TMP\_368) = 1 TMP\_369 = 0 not(TMP\_369) = 1 TMP\_370 = 0 TMP\_371 = 1 not(TMP\_371) = 0 TMP\_372 = 1 not(TMP\_372) = 0 TMP\_373 = 2 TMP\_374 = 0 not(TMP\_374) = 1 TMP\_375 = 0 not(TMP\_375) = 1 TMP\_376 = 1 not(TMP\_376) = 0 TMP\_377 = 1 not(TMP\_377) = 0 TMP\_378 = 1 not(TMP\_378) = 0 TMP\_379 = 2 TMP\_380 = 0 not(TMP\_380) = 1 TMP\_381 = 1 not(TMP\_381) = 0 TMP\_382 = 1 not(TMP\_382) = 0 TMP\_383 = 1 not(TMP\_383) = 0 TMP\_384 = 0 not(TMP\_384) = 1 TMP\_385 = 1 not(TMP\_385) = 0 TMP\_386 = 4 TMP\_387 = 0 not(TMP\_387) = 1 TMP\_388 = 0 not(TMP\_388) = 1 TMP\_389 = 0 TMP\_390 = 1 not(TMP\_390) = 0 TMP\_391 = 1 not(TMP\_391) = 0 TMP\_392 = 2 TMP\_393 = 0 not(TMP\_393) = 1 TMP\_394 = 0 not(TMP\_394) = 1 TMP\_395 = 1 not(TMP\_395) = 0 TMP\_396 = 1 not(TMP\_396) = 0 TMP\_397 = 1 not(TMP\_397) = 0 TMP\_398 = 2 TMP\_399 = 0 not(TMP\_399) = 1 TMP\_400 = 1 not(TMP\_400) = 0 TMP\_401 = 1 not(TMP\_401) = 0 TMP\_402 = 1 not(TMP\_402) = 0 TMP\_403 = 1 not(TMP\_403) = 0 TMP\_404 = 1 not(TMP\_404) = 0 TMP\_405 = 5 TMP\_406 = 0 not(TMP\_406) = 1 TMP\_407 = 0 not(TMP\_407) = 1 TMP\_408 = 0 TMP\_409 = 1 not(TMP\_409) = 0 TMP\_410 = 1 not(TMP\_410) = 0 TMP\_411 = 2 TMP\_412 = 0 not(TMP\_412) = 1 TMP\_413 = 0 not(TMP\_413) = 1 TMP\_414 = 1 not(TMP\_414) = 0 TMP\_415 = 1 not(TMP\_415) = 0 TMP\_416 = 1 not(TMP\_416) = 0 TMP\_417 = 2 TMP\_418 = 1 not(TMP\_418) = 0 TMP\_419 = 0 not(TMP\_419) = 1 TMP\_420 = 1 not(TMP\_420) = 0 TMP\_421 = 1 not(TMP\_421) = 0 TMP\_422 = 1 not(TMP\_422) = 0 TMP\_423 = 1 not(TMP\_423) = 0 TMP\_424 = 5 TMP\_425 = 0 not(TMP\_425) = 1 TMP\_426 = 0 not(TMP\_426) = 1 TMP\_427 = 0 TMP\_428 = 1 not(TMP\_428) = 0 TMP\_429 = 1 not(TMP\_429) = 0 TMP\_430 = 2 TMP\_431 = 0 not(TMP\_431) = 1 TMP\_432 = 0 not(TMP\_432) = 1 TMP\_433 = 1 not(TMP\_433) = 0 TMP\_434 = 1 not(TMP\_434) = 0 TMP\_435 = 1 not(TMP\_435) = 0 TMP\_436 = 2 TMP\_437 = 1 not(TMP\_437) = 0 TMP\_438 = 0 not(TMP\_438) = 1 TMP\_439 = 1 not(TMP\_439) = 0 TMP\_440 = 1 not(TMP\_440) = 0 TMP\_441 = 0 not(TMP\_441) = 1 TMP\_442 = 1 not(TMP\_442) = 0 TMP\_443 = 4 TMP\_444 = 0 not(TMP\_444) = 1 TMP\_445 = 0 not(TMP\_445) = 1 TMP\_446 = 0 TMP\_447 = 1 not(TMP\_447) = 0 TMP\_448 = 1 not(TMP\_448) = 0 TMP\_449 = 2 TMP\_450 = 0 not(TMP\_450) = 1 TMP\_451 = 0 not(TMP\_451) = 1 TMP\_452 = 1 not(TMP\_452) = 0 TMP\_453 = 1 not(TMP\_453) = 0 TMP\_454 = 1 not(TMP\_454) = 0 TMP\_455 = 2 TMP\_456 = 1 not(TMP\_456) = 0 TMP\_457 = 1 not(TMP\_457) = 0 TMP\_458 = 1 not(TMP\_458) = 0 TMP\_459 = 1 not(TMP\_459) = 0 TMP\_460 = 0 not(TMP\_460) = 1 TMP\_461 = 1 not(TMP\_461) = 0 TMP\_462 = 5 TMP\_463 = 0 not(TMP\_463) = 1 TMP\_464 = 0 not(TMP\_464) = 1 TMP\_465 = 0 TMP\_466 = 1 not(TMP\_466) = 0 TMP\_467 = 1 not(TMP\_467) = 0 TMP\_468 = 2 TMP\_469 = 0 not(TMP\_469) = 1 TMP\_470 = 0 not(TMP\_470) = 1 TMP\_471 = 1 not(TMP\_471) = 0 TMP\_472 = 1 not(TMP\_472) = 0 TMP\_473 = 1 not(TMP\_473) = 0 TMP\_474 = 2 TMP\_475 = 1 not(TMP\_475) = 0 TMP\_476 = 0 not(TMP\_476) = 1 TMP\_477 = 1 not(TMP\_477) = 0 TMP\_478 = 1 not(TMP\_478) = 0 TMP\_479 = 0 not(TMP\_479) = 1 TMP\_480 = 1 not(TMP\_480) = 0 TMP\_481 = 4 TMP\_482 = 0 not(TMP\_482) = 1 TMP\_483 = 0 not(TMP\_483) = 1 TMP\_484 = 0 TMP\_485 = 1 not(TMP\_485) = 0 TMP\_486 = 1 not(TMP\_486) = 0 TMP\_487 = 2 TMP\_488 = 0 not(TMP\_488) = 1 TMP\_489 = 0 not(TMP\_489) = 1 TMP\_490 = 1 not(TMP\_490) = 0 TMP\_491 = 1 not(TMP\_491) = 0 TMP\_492 = 1 not(TMP\_492) = 0 TMP\_493 = 2 TMP\_494 = 1 not(TMP\_494) = 0 TMP\_495 = 0 not(TMP\_495) = 1 TMP\_496 = 1 not(TMP\_496) = 0 TMP\_497 = 1 not(TMP\_497) = 0 TMP\_498 = 1 not(TMP\_498) = 0 TMP\_499 = 1 not(TMP\_499) = 0 TMP\_500 = 5 TMP\_501 = 0 not(TMP\_501) = 1 TMP\_502 = 0 not(TMP\_502) = 1 TMP\_503 = 0 TMP\_504 = 1 not(TMP\_504) = 0 TMP\_505 = 1 not(TMP\_505) = 0 TMP\_506 = 2 TMP\_507 = 0 not(TMP\_507) = 1 TMP\_508 = 0 not(TMP\_508) = 1 TMP\_509 = 1 not(TMP\_509) = 0 TMP\_510 = 1 not(TMP\_510) = 0 TMP\_511 = 1 not(TMP\_511) = 0 TMP\_512 = 2 TMP\_513 = 1 not(TMP\_513) = 0 TMP\_514 = 1 not(TMP\_514) = 0 TMP\_515 = 1 not(TMP\_515) = 0 TMP\_516 = 1 not(TMP\_516) = 0 TMP\_517 = 0 not(TMP\_517) = 1 TMP\_518 = 1 not(TMP\_518) = 0 TMP\_519 = 5 TMP\_520 = 0 not(TMP\_520) = 1 TMP\_521 = 0 not(TMP\_521) = 1 TMP\_522 = 0 TMP\_523 = 1 not(TMP\_523) = 0 TMP\_524 = 1 not(TMP\_524) = 0 TMP\_525 = 2 TMP\_526 = 0 not(TMP\_526) = 1 TMP\_527 = 0 not(TMP\_527) = 1 TMP\_528 = 1 not(TMP\_528) = 0 TMP\_529 = 1 not(TMP\_529) = 0 TMP\_530 = 1 not(TMP\_530) = 0 TMP\_531 = 2 TMP\_532 = 1 not(TMP\_532) = 0 TMP\_533 = 1 not(TMP\_533) = 0 TMP\_534 = 1 not(TMP\_534) = 0 TMP\_535 = 1 not(TMP\_535) = 0 TMP\_536 = 1 not(TMP\_536) = 0 TMP\_537 = 0 not(TMP\_537) = 1 TMP\_538 = 5 TMP\_539 = 0 not(TMP\_539) = 1 TMP\_540 = 0 not(TMP\_540) = 1 TMP\_541 = 0 TMP\_542 = 1 not(TMP\_542) = 0 TMP\_543 = 1 not(TMP\_543) = 0 TMP\_544 = 2 TMP\_545 = 0 not(TMP\_545) = 1 TMP\_546 = 0 not(TMP\_546) = 1 TMP\_547 = 1 not(TMP\_547) = 0 TMP\_548 = 1 not(TMP\_548) = 0 TMP\_549 = 1 not(TMP\_549) = 0 TMP\_550 = 2 TMP\_551 = 1 not(TMP\_551) = 0 TMP\_552 = 0 not(TMP\_552) = 1 TMP\_553 = 1 not(TMP\_553) = 0 TMP\_554 = 1 not(TMP\_554) = 0 TMP\_555 = 1 not(TMP\_555) = 0 TMP\_556 = 0 not(TMP\_556) = 1 TMP\_557 = 4 TMP\_558 = 0 not(TMP\_558) = 1 TMP\_559 = 0 not(TMP\_559) = 1 TMP\_560 = 0 TMP\_561 = 1 not(TMP\_561) = 0 TMP\_562 = 1 not(TMP\_562) = 0 TMP\_563 = 2 TMP\_564 = 0 not(TMP\_564) = 1 TMP\_565 = 0 not(TMP\_565) = 1 TMP\_566 = 1 not(TMP\_566) = 0 TMP\_567 = 1 not(TMP\_567) = 0 TMP\_568 = 1 not(TMP\_568) = 0 TMP\_569 = 2 TMP\_570 = 1 not(TMP\_570) = 0 TMP\_571 = 0 not(TMP\_571) = 1 TMP\_572 = 1 not(TMP\_572) = 0 TMP\_573 = 1 not(TMP\_573) = 0 TMP\_574 = 1 not(TMP\_574) = 0 TMP\_575 = 1 not(TMP\_575) = 0 TMP\_576 = 5 TMP\_577 = 0 not(TMP\_577) = 1 TMP\_578 = 0 not(TMP\_578) = 1 TMP\_579 = 0 TMP\_580 = 1 not(TMP\_580) = 0 TMP\_581 = 1 not(TMP\_581) = 0 TMP\_582 = 2 TMP\_583 = 0 not(TMP\_583) = 1 TMP\_584 = 0 not(TMP\_584) = 1 TMP\_585 = 1 not(TMP\_585) = 0 TMP\_586 = 1 not(TMP\_586) = 0 TMP\_587 = 1 not(TMP\_587) = 0 TMP\_588 = 2 TMP\_589 = 1 not(TMP\_589) = 0 TMP\_590 = 1 not(TMP\_590) = 0 TMP\_591 = 0 not(TMP\_591) = 1 TMP\_592 = 1 not(TMP\_592) = 0 TMP\_593 = 1 not(TMP\_593) = 0 TMP\_594 = 1 not(TMP\_594) = 0 TMP\_595 = 5 TMP\_596 = 0 not(TMP\_596) = 1 TMP\_597 = 0 not(TMP\_597) = 1 TMP\_598 = 0 TMP\_599 = 1 not(TMP\_599) = 0 TMP\_600 = 1 not(TMP\_600) = 0 TMP\_601 = 2 TMP\_602 = 0 not(TMP\_602) = 1 TMP\_603 = 0 not(TMP\_603) = 1 TMP\_604 = 1 not(TMP\_604) = 0 TMP\_605 = 1 not(TMP\_605) = 0 TMP\_606 = 1 not(TMP\_606) = 0 TMP\_607 = 2 TMP\_608 = 1 not(TMP\_608) = 0 TMP\_609 = 0 not(TMP\_609) = 1 TMP\_610 = 1 not(TMP\_610) = 0 TMP\_611 = 1 not(TMP\_611) = 0 TMP\_612 = 1 not(TMP\_612) = 0 TMP\_613 = 1 not(TMP\_613) = 0 TMP\_614 = 5 TMP\_615 = 0 not(TMP\_615) = 1 TMP\_616 = 0 not(TMP\_616) = 1 TMP\_617 = 0 TMP\_618 = 1 not(TMP\_618) = 0 TMP\_619 = 1 not(TMP\_619) = 0 TMP\_620 = 2 TMP\_621 = 0 not(TMP\_621) = 1 TMP\_622 = 0 not(TMP\_622) = 1 TMP\_623 = 1 not(TMP\_623) = 0 TMP\_624 = 1 not(TMP\_624) = 0 TMP\_625 = 1 not(TMP\_625) = 0 TMP\_626 = 2 TMP\_627 = 1 not(TMP\_627) = 0 TMP\_628 = 0 not(TMP\_628) = 1 TMP\_629 = 1 not(TMP\_629) = 0 TMP\_630 = 1 not(TMP\_630) = 0 TMP\_631 = 1 not(TMP\_631) = 0 TMP\_632 = 0 not(TMP\_632) = 1 TMP\_633 = 4 TMP\_634 = 0 not(TMP\_634) = 1 TMP\_635 = 0 not(TMP\_635) = 1 TMP\_636 = 0 TMP\_637 = 1 not(TMP\_637) = 0 TMP\_638 = 1 not(TMP\_638) = 0 TMP\_639 = 2 TMP\_640 = 0 not(TMP\_640) = 1 TMP\_641 = 0 not(TMP\_641) = 1 TMP\_642 = 1 not(TMP\_642) = 0 TMP\_643 = 1 not(TMP\_643) = 0 TMP\_644 = 1 not(TMP\_644) = 0 TMP\_645 = 2 TMP\_646 = 1 not(TMP\_646) = 0 TMP\_647 = 1 not(TMP\_647) = 0 TMP\_648 = 1 not(TMP\_648) = 0 TMP\_649 = 1 not(TMP\_649) = 0 TMP\_650 = 1 not(TMP\_650) = 0 TMP\_651 = 0 not(TMP\_651) = 1 TMP\_652 = 5 TMP\_653 = 0 not(TMP\_653) = 1 TMP\_654 = 0 not(TMP\_654) = 1 TMP\_655 = 0 TMP\_656 = 1 not(TMP\_656) = 0 TMP\_657 = 1 not(TMP\_657) = 0 TMP\_658 = 2 TMP\_659 = 0 not(TMP\_659) = 1 TMP\_660 = 0 not(TMP\_660) = 1 TMP\_661 = 1 not(TMP\_661) = 0 TMP\_662 = 1 not(TMP\_662) = 0 TMP\_663 = 1 not(TMP\_663) = 0 TMP\_664 = 2 Area\_0 = 60 Distance\_0\_Rule\_0 = 20 Distance\_1\_Rule\_0 = 3 Distance\_2\_Rule\_0 = 1 Area\_1 = 174 Distance\_0\_Rule\_1 = 58 Distance\_1\_Rule\_1 = 3 Distance\_2\_Rule\_1 = 1 Area\_2 = 116 Distance\_0\_Rule\_2 = 58 Distance\_1\_Rule\_2 = 2 Distance\_2\_Rule\_2 = 1 Area\_3 = 79 -(Rule\_3\_LB) = 0 Distance\_0\_Rule\_3 = 79 -(Rule\_3\_LB) = 0 Distance\_1\_Rule\_3 = 1 -(Rule\_3\_LB) = 0 Distance\_2\_Rule\_3 = 1 Area\_4 = 123 -(Rule\_4\_LB) = -79 Distance\_0\_Rule\_4 = 41 -(Rule\_4\_LB) = 0 Distance\_1\_Rule\_4 = 3 -(Rule\_4\_LB) = 0 Distance\_2\_Rule\_4 = 1 Area\_5 = 123 -(Rule\_5\_LB) = -79 Distance\_0\_Rule\_5 = 41 -(Rule\_5\_LB) = 0 Distance\_1\_Rule\_5 = 3 -(Rule\_5\_LB) = -1 Distance\_2\_Rule\_5 = 1 Area\_6 = 3 -(Rule\_6\_LB) = -20 Distance\_0\_Rule\_6 = 1 -(Rule\_6\_LB) = 0 Distance\_1\_Rule\_6 = 3 -(Rule\_6\_LB) = -1 Distance\_2\_Rule\_6 = 1 Area\_7 = 42 -(Rule\_7\_LB) = 0 Distance\_0\_Rule\_7 = 21 -(Rule\_7\_LB) = -1 Distance\_1\_Rule\_7 = 2 -(Rule\_7\_LB) = 0 Distance\_2\_Rule\_7 = 1 TMP\_665 = 720 .

- Solution #6 found. 6 Solutions, Resolution 3.159s, 23826 Nodes (7,543.4 n/s), 47597 Backtracks, 23801 Fails, 0 Restarts

Rule\_3\_LB = 0 Rule\_3\_UB = 79 Rule\_3\_LB = 0 Rule\_3\_UB = 1 Rule\_3\_LB = 0 Rule\_3\_UB = 1 Rule\_4\_LB = 79 Rule\_4\_UB = 120 Rule\_4\_LB = 0 Rule\_4\_UB = 3 Rule\_4\_LB = 0 Rule\_4\_UB = 1 Rule\_5\_LB = 79 Rule\_5\_UB = 120 Rule\_5\_LB = 0 Rule\_5\_UB = 3 Rule\_5\_LB = 1 Rule\_5\_UB = 2 Rule\_6\_LB = 20 Rule\_6\_UB = 21 Rule\_6\_LB = 0 Rule\_6\_UB = 3 Rule\_6\_LB = 1 Rule\_6\_UB = 2 Rule\_7\_LB = 0 Rule\_7\_UB = 21 Rule\_7\_LB = 1 Rule\_7\_UB = 3 Rule\_7\_LB = 0 Rule\_7\_UB = 1 Overlaps\_0\_0 = 0 Overlaps\_0\_1 = 1 Overlaps\_0\_2 = 0 Overlaps\_0\_3 = 0 Overlaps\_0\_4 = 0 Overlaps\_0\_5 = 0 Overlaps\_0\_6 = 0 Overlaps\_0\_7 = 0 Overlaps\_1\_0 = 0 Overlaps\_1\_1 = 0 Overlaps\_1\_2 = 1 Overlaps\_1\_3 = 0 Overlaps\_1\_4 = 0 Overlaps\_1\_5 = 0 Overlaps\_1\_6 = 0 Overlaps\_1\_7 = 0 Overlaps\_2\_0 = 0 Overlaps\_2\_1 = 0 Overlaps\_2\_2 = 0 Overlaps\_2\_3 = 0 Overlaps\_2\_4 = 0 Overlaps\_2\_5 = 0 Overlaps\_2\_6 = 0 Overlaps\_2\_7 = 0 Overlaps\_3\_0 = 0 Overlaps\_3\_1 = 0 Overlaps\_3\_2 = 0 Overlaps\_3\_3 = 0 Overlaps\_3\_4 = 0 Overlaps\_3\_5 = 0 Overlaps\_3\_6 = 0 Overlaps\_3\_7 = 0 Overlaps\_4\_0 = 0 Overlaps\_4\_1 = 0 Overlaps\_4\_2 = 0 Overlaps\_4\_3 = 0 Overlaps\_4\_4 = 0 Overlaps\_4\_5 = 0 Overlaps\_4\_6 = 0 Overlaps\_4\_7 = 0 Overlaps\_5\_0 = 0 Overlaps\_5\_1 = 0 Overlaps\_5\_2 = 0 Overlaps\_5\_3 = 0 Overlaps\_5\_4 = 0 Overlaps\_5\_5 = 0 Overlaps\_5\_6 = 0 Overlaps\_5\_7 = 0 Overlaps\_6\_0 = 0 Overlaps\_6\_1 = 0 Overlaps\_6\_2 = 0 Overlaps\_6\_3 = 0 Overlaps\_6\_4 = 0 Overlaps\_6\_5 = 0 Overlaps\_6\_6 = 0 Overlaps\_6\_7 = 0 Overlaps\_7\_0 = 0 Overlaps\_7\_1 = 0 Overlaps\_7\_2 = 0 Overlaps\_7\_3 = 0 Overlaps\_7\_4 = 0 Overlaps\_7\_5 = 0 Overlaps\_7\_6 = 0 Overlaps\_7\_7 = 0 TMP\_0 = 1 not(TMP\_0) = 0 TMP\_1 = 1 not(TMP\_1) = 0 TMP\_2 = 1 not(TMP\_2) = 0 TMP\_3 = 1 not(TMP\_3) = 0 TMP\_4 = 1 not(TMP\_4) = 0 TMP\_5 = 0 not(TMP\_5) = 1 TMP\_6 = 5 TMP\_7 = 0 not(TMP\_7) = 1 TMP\_8 = 0 not(TMP\_8) = 1 TMP\_9 = 0 TMP\_10 = 1 not(TMP\_10) = 0 TMP\_11 = 1 not(TMP\_11) = 0 TMP\_12 = 2 TMP\_13 = 0 not(TMP\_13) = 1 TMP\_14 = 0 not(TMP\_14) = 1 TMP\_15 = 1 not(TMP\_15) = 0 TMP\_16 = 1 not(TMP\_16) = 0 TMP\_17 = 1 not(TMP\_17) = 0 TMP\_18 = 2 TMP\_19 = 1 not(TMP\_19) = 0 TMP\_20 = 1 not(TMP\_20) = 0 TMP\_21 = 1 not(TMP\_21) = 0 TMP\_22 = 1 not(TMP\_22) = 0 TMP\_23 = 1 not(TMP\_23) = 0 TMP\_24 = 0 not(TMP\_24) = 1 TMP\_25 = 5 TMP\_26 = 0 not(TMP\_26) = 1 TMP\_27 = 0 not(TMP\_27) = 1 TMP\_28 = 0 TMP\_29 = 1 not(TMP\_29) = 0 TMP\_30 = 1 not(TMP\_30) = 0 TMP\_31 = 2 TMP\_32 = 0 not(TMP\_32) = 1 TMP\_33 = 0 not(TMP\_33) = 1 TMP\_34 = 1 not(TMP\_34) = 0 TMP\_35 = 1 not(TMP\_35) = 0 TMP\_36 = 1 not(TMP\_36) = 0 TMP\_37 = 2 TMP\_38 = 1 not(TMP\_38) = 0 TMP\_39 = 1 not(TMP\_39) = 0 TMP\_40 = 1 not(TMP\_40) = 0 TMP\_41 = 0 not(TMP\_41) = 1 TMP\_42 = 1 not(TMP\_42) = 0 TMP\_43 = 1 not(TMP\_43) = 0 TMP\_44 = 5 TMP\_45 = 0 not(TMP\_45) = 1 TMP\_46 = 0 not(TMP\_46) = 1 TMP\_47 = 0 TMP\_48 = 1 not(TMP\_48) = 0 TMP\_49 = 1 not(TMP\_49) = 0 TMP\_50 = 2 TMP\_51 = 0 not(TMP\_51) = 1 TMP\_52 = 0 not(TMP\_52) = 1 TMP\_53 = 1 not(TMP\_53) = 0 TMP\_54 = 1 not(TMP\_54) = 0 TMP\_55 = 1 not(TMP\_55) = 0 TMP\_56 = 2 TMP\_57 = 1 not(TMP\_57) = 0 TMP\_58 = 0 not(TMP\_58) = 1 TMP\_59 = 1 not(TMP\_59) = 0 TMP\_60 = 1 not(TMP\_60) = 0 TMP\_61 = 1 not(TMP\_61) = 0 TMP\_62 = 1 not(TMP\_62) = 0 TMP\_63 = 5 TMP\_64 = 0 not(TMP\_64) = 1 TMP\_65 = 0 not(TMP\_65) = 1 TMP\_66 = 0 TMP\_67 = 1 not(TMP\_67) = 0 TMP\_68 = 1 not(TMP\_68) = 0 TMP\_69 = 2 TMP\_70 = 0 not(TMP\_70) = 1 TMP\_71 = 0 not(TMP\_71) = 1 TMP\_72 = 1 not(TMP\_72) = 0 TMP\_73 = 1 not(TMP\_73) = 0 TMP\_74 = 1 not(TMP\_74) = 0 TMP\_75 = 2 TMP\_76 = 1 not(TMP\_76) = 0 TMP\_77 = 0 not(TMP\_77) = 1 TMP\_78 = 1 not(TMP\_78) = 0 TMP\_79 = 1 not(TMP\_79) = 0 TMP\_80 = 1 not(TMP\_80) = 0 TMP\_81 = 0 not(TMP\_81) = 1 TMP\_82 = 4 TMP\_83 = 0 not(TMP\_83) = 1 TMP\_84 = 0 not(TMP\_84) = 1 TMP\_85 = 0 TMP\_86 = 1 not(TMP\_86) = 0 TMP\_87 = 1 not(TMP\_87) = 0 TMP\_88 = 2 TMP\_89 = 0 not(TMP\_89) = 1 TMP\_90 = 0 not(TMP\_90) = 1 TMP\_91 = 1 not(TMP\_91) = 0 TMP\_92 = 1 not(TMP\_92) = 0 TMP\_93 = 1 not(TMP\_93) = 0 TMP\_94 = 2 TMP\_95 = 1 not(TMP\_95) = 0 TMP\_96 = 1 not(TMP\_96) = 0 TMP\_97 = 1 not(TMP\_97) = 0 TMP\_98 = 1 not(TMP\_98) = 0 TMP\_99 = 1 not(TMP\_99) = 0 TMP\_100 = 0 not(TMP\_100) = 1 TMP\_101 = 5 TMP\_102 = 0 not(TMP\_102) = 1 TMP\_103 = 0 not(TMP\_103) = 1 TMP\_104 = 0 TMP\_105 = 1 not(TMP\_105) = 0 TMP\_106 = 1 not(TMP\_106) = 0 TMP\_107 = 2 TMP\_108 = 0 not(TMP\_108) = 1 TMP\_109 = 0 not(TMP\_109) = 1 TMP\_110 = 1 not(TMP\_110) = 0 TMP\_111 = 1 not(TMP\_111) = 0 TMP\_112 = 1 not(TMP\_112) = 0 TMP\_113 = 2 TMP\_114 = 1 not(TMP\_114) = 0 TMP\_115 = 1 not(TMP\_115) = 0 TMP\_116 = 1 not(TMP\_116) = 0 TMP\_117 = 0 not(TMP\_117) = 1 TMP\_118 = 1 not(TMP\_118) = 0 TMP\_119 = 1 not(TMP\_119) = 0 TMP\_120 = 5 TMP\_121 = 0 not(TMP\_121) = 1 TMP\_122 = 0 not(TMP\_122) = 1 TMP\_123 = 0 TMP\_124 = 1 not(TMP\_124) = 0 TMP\_125 = 1 not(TMP\_125) = 0 TMP\_126 = 2 TMP\_127 = 0 not(TMP\_127) = 1 TMP\_128 = 0 not(TMP\_128) = 1 TMP\_129 = 1 not(TMP\_129) = 0 TMP\_130 = 1 not(TMP\_130) = 0 TMP\_131 = 1 not(TMP\_131) = 0 TMP\_132 = 2 TMP\_133 = 0 not(TMP\_133) = 1 TMP\_134 = 1 not(TMP\_134) = 0 TMP\_135 = 1 not(TMP\_135) = 0 TMP\_136 = 1 not(TMP\_136) = 0 TMP\_137 = 1 not(TMP\_137) = 0 TMP\_138 = 0 not(TMP\_138) = 1 TMP\_139 = 4 TMP\_140 = 0 not(TMP\_140) = 1 TMP\_141 = 0 not(TMP\_141) = 1 TMP\_142 = 0 TMP\_143 = 1 not(TMP\_143) = 0 TMP\_144 = 1 not(TMP\_144) = 0 TMP\_145 = 2 TMP\_146 = 0 not(TMP\_146) = 1 TMP\_147 = 0 not(TMP\_147) = 1 TMP\_148 = 1 not(TMP\_148) = 0 TMP\_149 = 1 not(TMP\_149) = 0 TMP\_150 = 1 not(TMP\_150) = 0 TMP\_151 = 2 TMP\_152 = 0 not(TMP\_152) = 1 TMP\_153 = 1 not(TMP\_153) = 0 TMP\_154 = 1 not(TMP\_154) = 0 TMP\_155 = 1 not(TMP\_155) = 0 TMP\_156 = 1 not(TMP\_156) = 0 TMP\_157 = 0 not(TMP\_157) = 1 TMP\_158 = 4 TMP\_159 = 0 not(TMP\_159) = 1 TMP\_160 = 0 not(TMP\_160) = 1 TMP\_161 = 0 TMP\_162 = 1 not(TMP\_162) = 0 TMP\_163 = 1 not(TMP\_163) = 0 TMP\_164 = 2 TMP\_165 = 0 not(TMP\_165) = 1 TMP\_166 = 0 not(TMP\_166) = 1 TMP\_167 = 1 not(TMP\_167) = 0 TMP\_168 = 1 not(TMP\_168) = 0 TMP\_169 = 1 not(TMP\_169) = 0 TMP\_170 = 2 TMP\_171 = 0 not(TMP\_171) = 1 TMP\_172 = 1 not(TMP\_172) = 0 TMP\_173 = 1 not(TMP\_173) = 0 TMP\_174 = 1 not(TMP\_174) = 0 TMP\_175 = 1 not(TMP\_175) = 0 TMP\_176 = 1 not(TMP\_176) = 0 TMP\_177 = 5 TMP\_178 = 0 not(TMP\_178) = 1 TMP\_179 = 0 not(TMP\_179) = 1 TMP\_180 = 0 TMP\_181 = 1 not(TMP\_181) = 0 TMP\_182 = 1 not(TMP\_182) = 0 TMP\_183 = 2 TMP\_184 = 0 not(TMP\_184) = 1 TMP\_185 = 0 not(TMP\_185) = 1 TMP\_186 = 1 not(TMP\_186) = 0 TMP\_187 = 1 not(TMP\_187) = 0 TMP\_188 = 1 not(TMP\_188) = 0 TMP\_189 = 2 TMP\_190 = 0 not(TMP\_190) = 1 TMP\_191 = 1 not(TMP\_191) = 0 TMP\_192 = 1 not(TMP\_192) = 0 TMP\_193 = 1 not(TMP\_193) = 0 TMP\_194 = 1 not(TMP\_194) = 0 TMP\_195 = 1 not(TMP\_195) = 0 TMP\_196 = 5 TMP\_197 = 0 not(TMP\_197) = 1 TMP\_198 = 0 not(TMP\_198) = 1 TMP\_199 = 0 TMP\_200 = 1 not(TMP\_200) = 0 TMP\_201 = 1 not(TMP\_201) = 0 TMP\_202 = 2 TMP\_203 = 0 not(TMP\_203) = 1 TMP\_204 = 0 not(TMP\_204) = 1 TMP\_205 = 1 not(TMP\_205) = 0 TMP\_206 = 1 not(TMP\_206) = 0 TMP\_207 = 1 not(TMP\_207) = 0 TMP\_208 = 2 TMP\_209 = 1 not(TMP\_209) = 0 TMP\_210 = 1 not(TMP\_210) = 0 TMP\_211 = 1 not(TMP\_211) = 0 TMP\_212 = 1 not(TMP\_212) = 0 TMP\_213 = 1 not(TMP\_213) = 0 TMP\_214 = 0 not(TMP\_214) = 1 TMP\_215 = 5 TMP\_216 = 0 not(TMP\_216) = 1 TMP\_217 = 0 not(TMP\_217) = 1 TMP\_218 = 0 TMP\_219 = 1 not(TMP\_219) = 0 TMP\_220 = 1 not(TMP\_220) = 0 TMP\_221 = 2 TMP\_222 = 0 not(TMP\_222) = 1 TMP\_223 = 0 not(TMP\_223) = 1 TMP\_224 = 1 not(TMP\_224) = 0 TMP\_225 = 1 not(TMP\_225) = 0 TMP\_226 = 1 not(TMP\_226) = 0 TMP\_227 = 2 TMP\_228 = 0 not(TMP\_228) = 1 TMP\_229 = 1 not(TMP\_229) = 0 TMP\_230 = 1 not(TMP\_230) = 0 TMP\_231 = 1 not(TMP\_231) = 0 TMP\_232 = 1 not(TMP\_232) = 0 TMP\_233 = 0 not(TMP\_233) = 1 TMP\_234 = 4 TMP\_235 = 0 not(TMP\_235) = 1 TMP\_236 = 0 not(TMP\_236) = 1 TMP\_237 = 0 TMP\_238 = 1 not(TMP\_238) = 0 TMP\_239 = 1 not(TMP\_239) = 0 TMP\_240 = 2 TMP\_241 = 0 not(TMP\_241) = 1 TMP\_242 = 0 not(TMP\_242) = 1 TMP\_243 = 1 not(TMP\_243) = 0 TMP\_244 = 1 not(TMP\_244) = 0 TMP\_245 = 1 not(TMP\_245) = 0 TMP\_246 = 2 TMP\_247 = 0 not(TMP\_247) = 1 TMP\_248 = 1 not(TMP\_248) = 0 TMP\_249 = 1 not(TMP\_249) = 0 TMP\_250 = 1 not(TMP\_250) = 0 TMP\_251 = 1 not(TMP\_251) = 0 TMP\_252 = 1 not(TMP\_252) = 0 TMP\_253 = 5 TMP\_254 = 0 not(TMP\_254) = 1 TMP\_255 = 0 not(TMP\_255) = 1 TMP\_256 = 0 TMP\_257 = 1 not(TMP\_257) = 0 TMP\_258 = 1 not(TMP\_258) = 0 TMP\_259 = 2 TMP\_260 = 0 not(TMP\_260) = 1 TMP\_261 = 0 not(TMP\_261) = 1 TMP\_262 = 1 not(TMP\_262) = 0 TMP\_263 = 1 not(TMP\_263) = 0 TMP\_264 = 1 not(TMP\_264) = 0 TMP\_265 = 2 TMP\_266 = 0 not(TMP\_266) = 1 TMP\_267 = 1 not(TMP\_267) = 0 TMP\_268 = 1 not(TMP\_268) = 0 TMP\_269 = 1 not(TMP\_269) = 0 TMP\_270 = 1 not(TMP\_270) = 0 TMP\_271 = 1 not(TMP\_271) = 0 TMP\_272 = 5 TMP\_273 = 0 not(TMP\_273) = 1 TMP\_274 = 0 not(TMP\_274) = 1 TMP\_275 = 0 TMP\_276 = 1 not(TMP\_276) = 0 TMP\_277 = 1 not(TMP\_277) = 0 TMP\_278 = 2 TMP\_279 = 0 not(TMP\_279) = 1 TMP\_280 = 0 not(TMP\_280) = 1 TMP\_281 = 1 not(TMP\_281) = 0 TMP\_282 = 1 not(TMP\_282) = 0 TMP\_283 = 1 not(TMP\_283) = 0 TMP\_284 = 2 TMP\_285 = 0 not(TMP\_285) = 1 TMP\_286 = 1 not(TMP\_286) = 0 TMP\_287 = 1 not(TMP\_287) = 0 TMP\_288 = 1 not(TMP\_288) = 0 TMP\_289 = 1 not(TMP\_289) = 0 TMP\_290 = 1 not(TMP\_290) = 0 TMP\_291 = 5 TMP\_292 = 0 not(TMP\_292) = 1 TMP\_293 = 0 not(TMP\_293) = 1 TMP\_294 = 0 TMP\_295 = 1 not(TMP\_295) = 0 TMP\_296 = 1 not(TMP\_296) = 0 TMP\_297 = 2 TMP\_298 = 0 not(TMP\_298) = 1 TMP\_299 = 0 not(TMP\_299) = 1 TMP\_300 = 1 not(TMP\_300) = 0 TMP\_301 = 1 not(TMP\_301) = 0 TMP\_302 = 1 not(TMP\_302) = 0 TMP\_303 = 2 TMP\_304 = 0 not(TMP\_304) = 1 TMP\_305 = 1 not(TMP\_305) = 0 TMP\_306 = 1 not(TMP\_306) = 0 TMP\_307 = 1 not(TMP\_307) = 0 TMP\_308 = 0 not(TMP\_308) = 1 TMP\_309 = 1 not(TMP\_309) = 0 TMP\_310 = 4 TMP\_311 = 0 not(TMP\_311) = 1 TMP\_312 = 0 not(TMP\_312) = 1 TMP\_313 = 0 TMP\_314 = 1 not(TMP\_314) = 0 TMP\_315 = 1 not(TMP\_315) = 0 TMP\_316 = 2 TMP\_317 = 0 not(TMP\_317) = 1 TMP\_318 = 0 not(TMP\_318) = 1 TMP\_319 = 1 not(TMP\_319) = 0 TMP\_320 = 1 not(TMP\_320) = 0 TMP\_321 = 1 not(TMP\_321) = 0 TMP\_322 = 2 TMP\_323 = 0 not(TMP\_323) = 1 TMP\_324 = 1 not(TMP\_324) = 0 TMP\_325 = 1 not(TMP\_325) = 0 TMP\_326 = 1 not(TMP\_326) = 0 TMP\_327 = 0 not(TMP\_327) = 1 TMP\_328 = 1 not(TMP\_328) = 0 TMP\_329 = 4 TMP\_330 = 0 not(TMP\_330) = 1 TMP\_331 = 0 not(TMP\_331) = 1 TMP\_332 = 0 TMP\_333 = 1 not(TMP\_333) = 0 TMP\_334 = 1 not(TMP\_334) = 0 TMP\_335 = 2 TMP\_336 = 0 not(TMP\_336) = 1 TMP\_337 = 0 not(TMP\_337) = 1 TMP\_338 = 1 not(TMP\_338) = 0 TMP\_339 = 1 not(TMP\_339) = 0 TMP\_340 = 1 not(TMP\_340) = 0 TMP\_341 = 2 TMP\_342 = 1 not(TMP\_342) = 0 TMP\_343 = 1 not(TMP\_343) = 0 TMP\_344 = 1 not(TMP\_344) = 0 TMP\_345 = 1 not(TMP\_345) = 0 TMP\_346 = 0 not(TMP\_346) = 1 TMP\_347 = 1 not(TMP\_347) = 0 TMP\_348 = 5 TMP\_349 = 0 not(TMP\_349) = 1 TMP\_350 = 0 not(TMP\_350) = 1 TMP\_351 = 0 TMP\_352 = 1 not(TMP\_352) = 0 TMP\_353 = 1 not(TMP\_353) = 0 TMP\_354 = 2 TMP\_355 = 0 not(TMP\_355) = 1 TMP\_356 = 0 not(TMP\_356) = 1 TMP\_357 = 1 not(TMP\_357) = 0 TMP\_358 = 1 not(TMP\_358) = 0 TMP\_359 = 1 not(TMP\_359) = 0 TMP\_360 = 2 TMP\_361 = 0 not(TMP\_361) = 1 TMP\_362 = 1 not(TMP\_362) = 0 TMP\_363 = 1 not(TMP\_363) = 0 TMP\_364 = 1 not(TMP\_364) = 0 TMP\_365 = 1 not(TMP\_365) = 0 TMP\_366 = 1 not(TMP\_366) = 0 TMP\_367 = 5 TMP\_368 = 0 not(TMP\_368) = 1 TMP\_369 = 0 not(TMP\_369) = 1 TMP\_370 = 0 TMP\_371 = 1 not(TMP\_371) = 0 TMP\_372 = 1 not(TMP\_372) = 0 TMP\_373 = 2 TMP\_374 = 0 not(TMP\_374) = 1 TMP\_375 = 0 not(TMP\_375) = 1 TMP\_376 = 1 not(TMP\_376) = 0 TMP\_377 = 1 not(TMP\_377) = 0 TMP\_378 = 1 not(TMP\_378) = 0 TMP\_379 = 2 TMP\_380 = 0 not(TMP\_380) = 1 TMP\_381 = 1 not(TMP\_381) = 0 TMP\_382 = 1 not(TMP\_382) = 0 TMP\_383 = 1 not(TMP\_383) = 0 TMP\_384 = 0 not(TMP\_384) = 1 TMP\_385 = 1 not(TMP\_385) = 0 TMP\_386 = 4 TMP\_387 = 0 not(TMP\_387) = 1 TMP\_388 = 0 not(TMP\_388) = 1 TMP\_389 = 0 TMP\_390 = 1 not(TMP\_390) = 0 TMP\_391 = 1 not(TMP\_391) = 0 TMP\_392 = 2 TMP\_393 = 0 not(TMP\_393) = 1 TMP\_394 = 0 not(TMP\_394) = 1 TMP\_395 = 1 not(TMP\_395) = 0 TMP\_396 = 1 not(TMP\_396) = 0 TMP\_397 = 1 not(TMP\_397) = 0 TMP\_398 = 2 TMP\_399 = 0 not(TMP\_399) = 1 TMP\_400 = 1 not(TMP\_400) = 0 TMP\_401 = 1 not(TMP\_401) = 0 TMP\_402 = 1 not(TMP\_402) = 0 TMP\_403 = 1 not(TMP\_403) = 0 TMP\_404 = 1 not(TMP\_404) = 0 TMP\_405 = 5 TMP\_406 = 0 not(TMP\_406) = 1 TMP\_407 = 0 not(TMP\_407) = 1 TMP\_408 = 0 TMP\_409 = 1 not(TMP\_409) = 0 TMP\_410 = 1 not(TMP\_410) = 0 TMP\_411 = 2 TMP\_412 = 0 not(TMP\_412) = 1 TMP\_413 = 0 not(TMP\_413) = 1 TMP\_414 = 1 not(TMP\_414) = 0 TMP\_415 = 1 not(TMP\_415) = 0 TMP\_416 = 1 not(TMP\_416) = 0 TMP\_417 = 2 TMP\_418 = 1 not(TMP\_418) = 0 TMP\_419 = 0 not(TMP\_419) = 1 TMP\_420 = 1 not(TMP\_420) = 0 TMP\_421 = 1 not(TMP\_421) = 0 TMP\_422 = 1 not(TMP\_422) = 0 TMP\_423 = 1 not(TMP\_423) = 0 TMP\_424 = 5 TMP\_425 = 0 not(TMP\_425) = 1 TMP\_426 = 0 not(TMP\_426) = 1 TMP\_427 = 0 TMP\_428 = 1 not(TMP\_428) = 0 TMP\_429 = 1 not(TMP\_429) = 0 TMP\_430 = 2 TMP\_431 = 0 not(TMP\_431) = 1 TMP\_432 = 0 not(TMP\_432) = 1 TMP\_433 = 1 not(TMP\_433) = 0 TMP\_434 = 1 not(TMP\_434) = 0 TMP\_435 = 1 not(TMP\_435) = 0 TMP\_436 = 2 TMP\_437 = 1 not(TMP\_437) = 0 TMP\_438 = 0 not(TMP\_438) = 1 TMP\_439 = 1 not(TMP\_439) = 0 TMP\_440 = 1 not(TMP\_440) = 0 TMP\_441 = 0 not(TMP\_441) = 1 TMP\_442 = 1 not(TMP\_442) = 0 TMP\_443 = 4 TMP\_444 = 0 not(TMP\_444) = 1 TMP\_445 = 0 not(TMP\_445) = 1 TMP\_446 = 0 TMP\_447 = 1 not(TMP\_447) = 0 TMP\_448 = 1 not(TMP\_448) = 0 TMP\_449 = 2 TMP\_450 = 0 not(TMP\_450) = 1 TMP\_451 = 0 not(TMP\_451) = 1 TMP\_452 = 1 not(TMP\_452) = 0 TMP\_453 = 1 not(TMP\_453) = 0 TMP\_454 = 1 not(TMP\_454) = 0 TMP\_455 = 2 TMP\_456 = 1 not(TMP\_456) = 0 TMP\_457 = 1 not(TMP\_457) = 0 TMP\_458 = 1 not(TMP\_458) = 0 TMP\_459 = 1 not(TMP\_459) = 0 TMP\_460 = 0 not(TMP\_460) = 1 TMP\_461 = 1 not(TMP\_461) = 0 TMP\_462 = 5 TMP\_463 = 0 not(TMP\_463) = 1 TMP\_464 = 0 not(TMP\_464) = 1 TMP\_465 = 0 TMP\_466 = 1 not(TMP\_466) = 0 TMP\_467 = 1 not(TMP\_467) = 0 TMP\_468 = 2 TMP\_469 = 0 not(TMP\_469) = 1 TMP\_470 = 0 not(TMP\_470) = 1 TMP\_471 = 1 not(TMP\_471) = 0 TMP\_472 = 1 not(TMP\_472) = 0 TMP\_473 = 1 not(TMP\_473) = 0 TMP\_474 = 2 TMP\_475 = 1 not(TMP\_475) = 0 TMP\_476 = 0 not(TMP\_476) = 1 TMP\_477 = 1 not(TMP\_477) = 0 TMP\_478 = 1 not(TMP\_478) = 0 TMP\_479 = 0 not(TMP\_479) = 1 TMP\_480 = 1 not(TMP\_480) = 0 TMP\_481 = 4 TMP\_482 = 0 not(TMP\_482) = 1 TMP\_483 = 0 not(TMP\_483) = 1 TMP\_484 = 0 TMP\_485 = 1 not(TMP\_485) = 0 TMP\_486 = 1 not(TMP\_486) = 0 TMP\_487 = 2 TMP\_488 = 0 not(TMP\_488) = 1 TMP\_489 = 0 not(TMP\_489) = 1 TMP\_490 = 1 not(TMP\_490) = 0 TMP\_491 = 1 not(TMP\_491) = 0 TMP\_492 = 1 not(TMP\_492) = 0 TMP\_493 = 2 TMP\_494 = 1 not(TMP\_494) = 0 TMP\_495 = 0 not(TMP\_495) = 1 TMP\_496 = 1 not(TMP\_496) = 0 TMP\_497 = 1 not(TMP\_497) = 0 TMP\_498 = 1 not(TMP\_498) = 0 TMP\_499 = 1 not(TMP\_499) = 0 TMP\_500 = 5 TMP\_501 = 0 not(TMP\_501) = 1 TMP\_502 = 0 not(TMP\_502) = 1 TMP\_503 = 0 TMP\_504 = 1 not(TMP\_504) = 0 TMP\_505 = 1 not(TMP\_505) = 0 TMP\_506 = 2 TMP\_507 = 0 not(TMP\_507) = 1 TMP\_508 = 0 not(TMP\_508) = 1 TMP\_509 = 1 not(TMP\_509) = 0 TMP\_510 = 1 not(TMP\_510) = 0 TMP\_511 = 1 not(TMP\_511) = 0 TMP\_512 = 2 TMP\_513 = 1 not(TMP\_513) = 0 TMP\_514 = 1 not(TMP\_514) = 0 TMP\_515 = 1 not(TMP\_515) = 0 TMP\_516 = 1 not(TMP\_516) = 0 TMP\_517 = 0 not(TMP\_517) = 1 TMP\_518 = 1 not(TMP\_518) = 0 TMP\_519 = 5 TMP\_520 = 0 not(TMP\_520) = 1 TMP\_521 = 0 not(TMP\_521) = 1 TMP\_522 = 0 TMP\_523 = 1 not(TMP\_523) = 0 TMP\_524 = 1 not(TMP\_524) = 0 TMP\_525 = 2 TMP\_526 = 0 not(TMP\_526) = 1 TMP\_527 = 0 not(TMP\_527) = 1 TMP\_528 = 1 not(TMP\_528) = 0 TMP\_529 = 1 not(TMP\_529) = 0 TMP\_530 = 1 not(TMP\_530) = 0 TMP\_531 = 2 TMP\_532 = 1 not(TMP\_532) = 0 TMP\_533 = 1 not(TMP\_533) = 0 TMP\_534 = 1 not(TMP\_534) = 0 TMP\_535 = 1 not(TMP\_535) = 0 TMP\_536 = 1 not(TMP\_536) = 0 TMP\_537 = 0 not(TMP\_537) = 1 TMP\_538 = 5 TMP\_539 = 0 not(TMP\_539) = 1 TMP\_540 = 0 not(TMP\_540) = 1 TMP\_541 = 0 TMP\_542 = 1 not(TMP\_542) = 0 TMP\_543 = 1 not(TMP\_543) = 0 TMP\_544 = 2 TMP\_545 = 0 not(TMP\_545) = 1 TMP\_546 = 0 not(TMP\_546) = 1 TMP\_547 = 1 not(TMP\_547) = 0 TMP\_548 = 1 not(TMP\_548) = 0 TMP\_549 = 1 not(TMP\_549) = 0 TMP\_550 = 2 TMP\_551 = 1 not(TMP\_551) = 0 TMP\_552 = 0 not(TMP\_552) = 1 TMP\_553 = 1 not(TMP\_553) = 0 TMP\_554 = 1 not(TMP\_554) = 0 TMP\_555 = 1 not(TMP\_555) = 0 TMP\_556 = 0 not(TMP\_556) = 1 TMP\_557 = 4 TMP\_558 = 0 not(TMP\_558) = 1 TMP\_559 = 0 not(TMP\_559) = 1 TMP\_560 = 0 TMP\_561 = 1 not(TMP\_561) = 0 TMP\_562 = 1 not(TMP\_562) = 0 TMP\_563 = 2 TMP\_564 = 0 not(TMP\_564) = 1 TMP\_565 = 0 not(TMP\_565) = 1 TMP\_566 = 1 not(TMP\_566) = 0 TMP\_567 = 1 not(TMP\_567) = 0 TMP\_568 = 1 not(TMP\_568) = 0 TMP\_569 = 2 TMP\_570 = 1 not(TMP\_570) = 0 TMP\_571 = 0 not(TMP\_571) = 1 TMP\_572 = 1 not(TMP\_572) = 0 TMP\_573 = 1 not(TMP\_573) = 0 TMP\_574 = 1 not(TMP\_574) = 0 TMP\_575 = 1 not(TMP\_575) = 0 TMP\_576 = 5 TMP\_577 = 0 not(TMP\_577) = 1 TMP\_578 = 0 not(TMP\_578) = 1 TMP\_579 = 0 TMP\_580 = 1 not(TMP\_580) = 0 TMP\_581 = 1 not(TMP\_581) = 0 TMP\_582 = 2 TMP\_583 = 0 not(TMP\_583) = 1 TMP\_584 = 0 not(TMP\_584) = 1 TMP\_585 = 1 not(TMP\_585) = 0 TMP\_586 = 1 not(TMP\_586) = 0 TMP\_587 = 1 not(TMP\_587) = 0 TMP\_588 = 2 TMP\_589 = 1 not(TMP\_589) = 0 TMP\_590 = 1 not(TMP\_590) = 0 TMP\_591 = 0 not(TMP\_591) = 1 TMP\_592 = 1 not(TMP\_592) = 0 TMP\_593 = 1 not(TMP\_593) = 0 TMP\_594 = 1 not(TMP\_594) = 0 TMP\_595 = 5 TMP\_596 = 0 not(TMP\_596) = 1 TMP\_597 = 0 not(TMP\_597) = 1 TMP\_598 = 0 TMP\_599 = 1 not(TMP\_599) = 0 TMP\_600 = 1 not(TMP\_600) = 0 TMP\_601 = 2 TMP\_602 = 0 not(TMP\_602) = 1 TMP\_603 = 0 not(TMP\_603) = 1 TMP\_604 = 1 not(TMP\_604) = 0 TMP\_605 = 1 not(TMP\_605) = 0 TMP\_606 = 1 not(TMP\_606) = 0 TMP\_607 = 2 TMP\_608 = 1 not(TMP\_608) = 0 TMP\_609 = 0 not(TMP\_609) = 1 TMP\_610 = 1 not(TMP\_610) = 0 TMP\_611 = 1 not(TMP\_611) = 0 TMP\_612 = 1 not(TMP\_612) = 0 TMP\_613 = 1 not(TMP\_613) = 0 TMP\_614 = 5 TMP\_615 = 0 not(TMP\_615) = 1 TMP\_616 = 0 not(TMP\_616) = 1 TMP\_617 = 0 TMP\_618 = 1 not(TMP\_618) = 0 TMP\_619 = 1 not(TMP\_619) = 0 TMP\_620 = 2 TMP\_621 = 0 not(TMP\_621) = 1 TMP\_622 = 0 not(TMP\_622) = 1 TMP\_623 = 1 not(TMP\_623) = 0 TMP\_624 = 1 not(TMP\_624) = 0 TMP\_625 = 1 not(TMP\_625) = 0 TMP\_626 = 2 TMP\_627 = 1 not(TMP\_627) = 0 TMP\_628 = 0 not(TMP\_628) = 1 TMP\_629 = 1 not(TMP\_629) = 0 TMP\_630 = 1 not(TMP\_630) = 0 TMP\_631 = 1 not(TMP\_631) = 0 TMP\_632 = 0 not(TMP\_632) = 1 TMP\_633 = 4 TMP\_634 = 0 not(TMP\_634) = 1 TMP\_635 = 0 not(TMP\_635) = 1 TMP\_636 = 0 TMP\_637 = 1 not(TMP\_637) = 0 TMP\_638 = 1 not(TMP\_638) = 0 TMP\_639 = 2 TMP\_640 = 0 not(TMP\_640) = 1 TMP\_641 = 0 not(TMP\_641) = 1 TMP\_642 = 1 not(TMP\_642) = 0 TMP\_643 = 1 not(TMP\_643) = 0 TMP\_644 = 1 not(TMP\_644) = 0 TMP\_645 = 2 TMP\_646 = 1 not(TMP\_646) = 0 TMP\_647 = 1 not(TMP\_647) = 0 TMP\_648 = 1 not(TMP\_648) = 0 TMP\_649 = 1 not(TMP\_649) = 0 TMP\_650 = 1 not(TMP\_650) = 0 TMP\_651 = 0 not(TMP\_651) = 1 TMP\_652 = 5 TMP\_653 = 0 not(TMP\_653) = 1 TMP\_654 = 0 not(TMP\_654) = 1 TMP\_655 = 0 TMP\_656 = 1 not(TMP\_656) = 0 TMP\_657 = 1 not(TMP\_657) = 0 TMP\_658 = 2 TMP\_659 = 0 not(TMP\_659) = 1 TMP\_660 = 0 not(TMP\_660) = 1 TMP\_661 = 1 not(TMP\_661) = 0 TMP\_662 = 1 not(TMP\_662) = 0 TMP\_663 = 1 not(TMP\_663) = 0 TMP\_664 = 2 Area\_0 = 60 Distance\_0\_Rule\_0 = 20 Distance\_1\_Rule\_0 = 3 Distance\_2\_Rule\_0 = 1 Area\_1 = 174 Distance\_0\_Rule\_1 = 58 Distance\_1\_Rule\_1 = 3 Distance\_2\_Rule\_1 = 1 Area\_2 = 116 Distance\_0\_Rule\_2 = 58 Distance\_1\_Rule\_2 = 2 Distance\_2\_Rule\_2 = 1 Area\_3 = 79 -(Rule\_3\_LB) = 0 Distance\_0\_Rule\_3 = 79 -(Rule\_3\_LB) = 0 Distance\_1\_Rule\_3 = 1 -(Rule\_3\_LB) = 0 Distance\_2\_Rule\_3 = 1 Area\_4 = 123 -(Rule\_4\_LB) = -79 Distance\_0\_Rule\_4 = 41 -(Rule\_4\_LB) = 0 Distance\_1\_Rule\_4 = 3 -(Rule\_4\_LB) = 0 Distance\_2\_Rule\_4 = 1 Area\_5 = 123 -(Rule\_5\_LB) = -79 Distance\_0\_Rule\_5 = 41 -(Rule\_5\_LB) = 0 Distance\_1\_Rule\_5 = 3 -(Rule\_5\_LB) = -1 Distance\_2\_Rule\_5 = 1 Area\_6 = 3 -(Rule\_6\_LB) = -20 Distance\_0\_Rule\_6 = 1 -(Rule\_6\_LB) = 0 Distance\_1\_Rule\_6 = 3 -(Rule\_6\_LB) = -1 Distance\_2\_Rule\_6 = 1 Area\_7 = 42 -(Rule\_7\_LB) = 0 Distance\_0\_Rule\_7 = 21 -(Rule\_7\_LB) = -1 Distance\_1\_Rule\_7 = 2 -(Rule\_7\_LB) = 0 Distance\_2\_Rule\_7 = 1 TMP\_665 = 720 .

- Solution #7 found. 7 Solutions, Resolution 3.169s, 23828 Nodes (7,520.2 n/s), 47599 Backtracks, 23801 Fails, 0 Restarts

Rule\_3\_LB = 0 Rule\_3\_UB = 79 Rule\_3\_LB = 0 Rule\_3\_UB = 1 Rule\_3\_LB = 0 Rule\_3\_UB = 1 Rule\_4\_LB = 79 Rule\_4\_UB = 120 Rule\_4\_LB = 0 Rule\_4\_UB = 3 Rule\_4\_LB = 0 Rule\_4\_UB = 1 Rule\_5\_LB = 79 Rule\_5\_UB = 120 Rule\_5\_LB = 0 Rule\_5\_UB = 3 Rule\_5\_LB = 1 Rule\_5\_UB = 2 Rule\_6\_LB = 20 Rule\_6\_UB = 21 Rule\_6\_LB = 0 Rule\_6\_UB = 3 Rule\_6\_LB = 1 Rule\_6\_UB = 2 Rule\_7\_LB = 0 Rule\_7\_UB = 21 Rule\_7\_LB = 1 Rule\_7\_UB = 3 Rule\_7\_LB = 0 Rule\_7\_UB = 1 Overlaps\_0\_0 = 0 Overlaps\_0\_1 = 1 Overlaps\_0\_2 = 0 Overlaps\_0\_3 = 0 Overlaps\_0\_4 = 0 Overlaps\_0\_5 = 0 Overlaps\_0\_6 = 0 Overlaps\_0\_7 = 0 Overlaps\_1\_0 = 0 Overlaps\_1\_1 = 0 Overlaps\_1\_2 = 0 Overlaps\_1\_3 = 0 Overlaps\_1\_4 = 0 Overlaps\_1\_5 = 0 Overlaps\_1\_6 = 0 Overlaps\_1\_7 = 0 Overlaps\_2\_0 = 1 Overlaps\_2\_1 = 0 Overlaps\_2\_2 = 0 Overlaps\_2\_3 = 0 Overlaps\_2\_4 = 0 Overlaps\_2\_5 = 0 Overlaps\_2\_6 = 0 Overlaps\_2\_7 = 0 Overlaps\_3\_0 = 0 Overlaps\_3\_1 = 0 Overlaps\_3\_2 = 0 Overlaps\_3\_3 = 0 Overlaps\_3\_4 = 0 Overlaps\_3\_5 = 0 Overlaps\_3\_6 = 0 Overlaps\_3\_7 = 0 Overlaps\_4\_0 = 0 Overlaps\_4\_1 = 0 Overlaps\_4\_2 = 0 Overlaps\_4\_3 = 0 Overlaps\_4\_4 = 0 Overlaps\_4\_5 = 0 Overlaps\_4\_6 = 0 Overlaps\_4\_7 = 0 Overlaps\_5\_0 = 0 Overlaps\_5\_1 = 0 Overlaps\_5\_2 = 0 Overlaps\_5\_3 = 0 Overlaps\_5\_4 = 0 Overlaps\_5\_5 = 0 Overlaps\_5\_6 = 0 Overlaps\_5\_7 = 0 Overlaps\_6\_0 = 0 Overlaps\_6\_1 = 0 Overlaps\_6\_2 = 0 Overlaps\_6\_3 = 0 Overlaps\_6\_4 = 0 Overlaps\_6\_5 = 0 Overlaps\_6\_6 = 0 Overlaps\_6\_7 = 0 Overlaps\_7\_0 = 0 Overlaps\_7\_1 = 0 Overlaps\_7\_2 = 0 Overlaps\_7\_3 = 0 Overlaps\_7\_4 = 0 Overlaps\_7\_5 = 0 Overlaps\_7\_6 = 0 Overlaps\_7\_7 = 0 TMP\_0 = 1 not(TMP\_0) = 0 TMP\_1 = 1 not(TMP\_1) = 0 TMP\_2 = 1 not(TMP\_2) = 0 TMP\_3 = 1 not(TMP\_3) = 0 TMP\_4 = 1 not(TMP\_4) = 0 TMP\_5 = 0 not(TMP\_5) = 1 TMP\_6 = 5 TMP\_7 = 0 not(TMP\_7) = 1 TMP\_8 = 0 not(TMP\_8) = 1 TMP\_9 = 0 TMP\_10 = 1 not(TMP\_10) = 0 TMP\_11 = 1 not(TMP\_11) = 0 TMP\_12 = 2 TMP\_13 = 0 not(TMP\_13) = 1 TMP\_14 = 0 not(TMP\_14) = 1 TMP\_15 = 1 not(TMP\_15) = 0 TMP\_16 = 1 not(TMP\_16) = 0 TMP\_17 = 1 not(TMP\_17) = 0 TMP\_18 = 2 TMP\_19 = 1 not(TMP\_19) = 0 TMP\_20 = 1 not(TMP\_20) = 0 TMP\_21 = 1 not(TMP\_21) = 0 TMP\_22 = 1 not(TMP\_22) = 0 TMP\_23 = 1 not(TMP\_23) = 0 TMP\_24 = 0 not(TMP\_24) = 1 TMP\_25 = 5 TMP\_26 = 0 not(TMP\_26) = 1 TMP\_27 = 0 not(TMP\_27) = 1 TMP\_28 = 0 TMP\_29 = 1 not(TMP\_29) = 0 TMP\_30 = 1 not(TMP\_30) = 0 TMP\_31 = 2 TMP\_32 = 0 not(TMP\_32) = 1 TMP\_33 = 0 not(TMP\_33) = 1 TMP\_34 = 1 not(TMP\_34) = 0 TMP\_35 = 1 not(TMP\_35) = 0 TMP\_36 = 1 not(TMP\_36) = 0 TMP\_37 = 2 TMP\_38 = 1 not(TMP\_38) = 0 TMP\_39 = 1 not(TMP\_39) = 0 TMP\_40 = 1 not(TMP\_40) = 0 TMP\_41 = 0 not(TMP\_41) = 1 TMP\_42 = 1 not(TMP\_42) = 0 TMP\_43 = 1 not(TMP\_43) = 0 TMP\_44 = 5 TMP\_45 = 0 not(TMP\_45) = 1 TMP\_46 = 0 not(TMP\_46) = 1 TMP\_47 = 0 TMP\_48 = 1 not(TMP\_48) = 0 TMP\_49 = 1 not(TMP\_49) = 0 TMP\_50 = 2 TMP\_51 = 0 not(TMP\_51) = 1 TMP\_52 = 0 not(TMP\_52) = 1 TMP\_53 = 1 not(TMP\_53) = 0 TMP\_54 = 1 not(TMP\_54) = 0 TMP\_55 = 1 not(TMP\_55) = 0 TMP\_56 = 2 TMP\_57 = 1 not(TMP\_57) = 0 TMP\_58 = 0 not(TMP\_58) = 1 TMP\_59 = 1 not(TMP\_59) = 0 TMP\_60 = 1 not(TMP\_60) = 0 TMP\_61 = 1 not(TMP\_61) = 0 TMP\_62 = 1 not(TMP\_62) = 0 TMP\_63 = 5 TMP\_64 = 0 not(TMP\_64) = 1 TMP\_65 = 0 not(TMP\_65) = 1 TMP\_66 = 0 TMP\_67 = 1 not(TMP\_67) = 0 TMP\_68 = 1 not(TMP\_68) = 0 TMP\_69 = 2 TMP\_70 = 0 not(TMP\_70) = 1 TMP\_71 = 0 not(TMP\_71) = 1 TMP\_72 = 1 not(TMP\_72) = 0 TMP\_73 = 1 not(TMP\_73) = 0 TMP\_74 = 1 not(TMP\_74) = 0 TMP\_75 = 2 TMP\_76 = 1 not(TMP\_76) = 0 TMP\_77 = 0 not(TMP\_77) = 1 TMP\_78 = 1 not(TMP\_78) = 0 TMP\_79 = 1 not(TMP\_79) = 0 TMP\_80 = 1 not(TMP\_80) = 0 TMP\_81 = 0 not(TMP\_81) = 1 TMP\_82 = 4 TMP\_83 = 0 not(TMP\_83) = 1 TMP\_84 = 0 not(TMP\_84) = 1 TMP\_85 = 0 TMP\_86 = 1 not(TMP\_86) = 0 TMP\_87 = 1 not(TMP\_87) = 0 TMP\_88 = 2 TMP\_89 = 0 not(TMP\_89) = 1 TMP\_90 = 0 not(TMP\_90) = 1 TMP\_91 = 1 not(TMP\_91) = 0 TMP\_92 = 1 not(TMP\_92) = 0 TMP\_93 = 1 not(TMP\_93) = 0 TMP\_94 = 2 TMP\_95 = 1 not(TMP\_95) = 0 TMP\_96 = 1 not(TMP\_96) = 0 TMP\_97 = 1 not(TMP\_97) = 0 TMP\_98 = 1 not(TMP\_98) = 0 TMP\_99 = 1 not(TMP\_99) = 0 TMP\_100 = 0 not(TMP\_100) = 1 TMP\_101 = 5 TMP\_102 = 0 not(TMP\_102) = 1 TMP\_103 = 0 not(TMP\_103) = 1 TMP\_104 = 0 TMP\_105 = 1 not(TMP\_105) = 0 TMP\_106 = 1 not(TMP\_106) = 0 TMP\_107 = 2 TMP\_108 = 0 not(TMP\_108) = 1 TMP\_109 = 0 not(TMP\_109) = 1 TMP\_110 = 1 not(TMP\_110) = 0 TMP\_111 = 1 not(TMP\_111) = 0 TMP\_112 = 1 not(TMP\_112) = 0 TMP\_113 = 2 TMP\_114 = 1 not(TMP\_114) = 0 TMP\_115 = 1 not(TMP\_115) = 0 TMP\_116 = 1 not(TMP\_116) = 0 TMP\_117 = 0 not(TMP\_117) = 1 TMP\_118 = 1 not(TMP\_118) = 0 TMP\_119 = 1 not(TMP\_119) = 0 TMP\_120 = 5 TMP\_121 = 0 not(TMP\_121) = 1 TMP\_122 = 0 not(TMP\_122) = 1 TMP\_123 = 0 TMP\_124 = 1 not(TMP\_124) = 0 TMP\_125 = 1 not(TMP\_125) = 0 TMP\_126 = 2 TMP\_127 = 0 not(TMP\_127) = 1 TMP\_128 = 0 not(TMP\_128) = 1 TMP\_129 = 1 not(TMP\_129) = 0 TMP\_130 = 1 not(TMP\_130) = 0 TMP\_131 = 1 not(TMP\_131) = 0 TMP\_132 = 2 TMP\_133 = 0 not(TMP\_133) = 1 TMP\_134 = 1 not(TMP\_134) = 0 TMP\_135 = 1 not(TMP\_135) = 0 TMP\_136 = 1 not(TMP\_136) = 0 TMP\_137 = 1 not(TMP\_137) = 0 TMP\_138 = 0 not(TMP\_138) = 1 TMP\_139 = 4 TMP\_140 = 0 not(TMP\_140) = 1 TMP\_141 = 0 not(TMP\_141) = 1 TMP\_142 = 0 TMP\_143 = 1 not(TMP\_143) = 0 TMP\_144 = 1 not(TMP\_144) = 0 TMP\_145 = 2 TMP\_146 = 0 not(TMP\_146) = 1 TMP\_147 = 0 not(TMP\_147) = 1 TMP\_148 = 1 not(TMP\_148) = 0 TMP\_149 = 1 not(TMP\_149) = 0 TMP\_150 = 1 not(TMP\_150) = 0 TMP\_151 = 2 TMP\_152 = 0 not(TMP\_152) = 1 TMP\_153 = 1 not(TMP\_153) = 0 TMP\_154 = 1 not(TMP\_154) = 0 TMP\_155 = 1 not(TMP\_155) = 0 TMP\_156 = 1 not(TMP\_156) = 0 TMP\_157 = 0 not(TMP\_157) = 1 TMP\_158 = 4 TMP\_159 = 0 not(TMP\_159) = 1 TMP\_160 = 0 not(TMP\_160) = 1 TMP\_161 = 0 TMP\_162 = 1 not(TMP\_162) = 0 TMP\_163 = 1 not(TMP\_163) = 0 TMP\_164 = 2 TMP\_165 = 0 not(TMP\_165) = 1 TMP\_166 = 0 not(TMP\_166) = 1 TMP\_167 = 1 not(TMP\_167) = 0 TMP\_168 = 1 not(TMP\_168) = 0 TMP\_169 = 1 not(TMP\_169) = 0 TMP\_170 = 2 TMP\_171 = 0 not(TMP\_171) = 1 TMP\_172 = 1 not(TMP\_172) = 0 TMP\_173 = 1 not(TMP\_173) = 0 TMP\_174 = 1 not(TMP\_174) = 0 TMP\_175 = 1 not(TMP\_175) = 0 TMP\_176 = 1 not(TMP\_176) = 0 TMP\_177 = 5 TMP\_178 = 0 not(TMP\_178) = 1 TMP\_179 = 0 not(TMP\_179) = 1 TMP\_180 = 0 TMP\_181 = 1 not(TMP\_181) = 0 TMP\_182 = 1 not(TMP\_182) = 0 TMP\_183 = 2 TMP\_184 = 0 not(TMP\_184) = 1 TMP\_185 = 0 not(TMP\_185) = 1 TMP\_186 = 1 not(TMP\_186) = 0 TMP\_187 = 1 not(TMP\_187) = 0 TMP\_188 = 1 not(TMP\_188) = 0 TMP\_189 = 2 TMP\_190 = 0 not(TMP\_190) = 1 TMP\_191 = 1 not(TMP\_191) = 0 TMP\_192 = 1 not(TMP\_192) = 0 TMP\_193 = 1 not(TMP\_193) = 0 TMP\_194 = 1 not(TMP\_194) = 0 TMP\_195 = 1 not(TMP\_195) = 0 TMP\_196 = 5 TMP\_197 = 0 not(TMP\_197) = 1 TMP\_198 = 0 not(TMP\_198) = 1 TMP\_199 = 0 TMP\_200 = 1 not(TMP\_200) = 0 TMP\_201 = 1 not(TMP\_201) = 0 TMP\_202 = 2 TMP\_203 = 0 not(TMP\_203) = 1 TMP\_204 = 0 not(TMP\_204) = 1 TMP\_205 = 1 not(TMP\_205) = 0 TMP\_206 = 1 not(TMP\_206) = 0 TMP\_207 = 1 not(TMP\_207) = 0 TMP\_208 = 2 TMP\_209 = 1 not(TMP\_209) = 0 TMP\_210 = 1 not(TMP\_210) = 0 TMP\_211 = 1 not(TMP\_211) = 0 TMP\_212 = 1 not(TMP\_212) = 0 TMP\_213 = 1 not(TMP\_213) = 0 TMP\_214 = 0 not(TMP\_214) = 1 TMP\_215 = 5 TMP\_216 = 0 not(TMP\_216) = 1 TMP\_217 = 0 not(TMP\_217) = 1 TMP\_218 = 0 TMP\_219 = 1 not(TMP\_219) = 0 TMP\_220 = 1 not(TMP\_220) = 0 TMP\_221 = 2 TMP\_222 = 0 not(TMP\_222) = 1 TMP\_223 = 0 not(TMP\_223) = 1 TMP\_224 = 1 not(TMP\_224) = 0 TMP\_225 = 1 not(TMP\_225) = 0 TMP\_226 = 1 not(TMP\_226) = 0 TMP\_227 = 2 TMP\_228 = 0 not(TMP\_228) = 1 TMP\_229 = 1 not(TMP\_229) = 0 TMP\_230 = 1 not(TMP\_230) = 0 TMP\_231 = 1 not(TMP\_231) = 0 TMP\_232 = 1 not(TMP\_232) = 0 TMP\_233 = 0 not(TMP\_233) = 1 TMP\_234 = 4 TMP\_235 = 0 not(TMP\_235) = 1 TMP\_236 = 0 not(TMP\_236) = 1 TMP\_237 = 0 TMP\_238 = 1 not(TMP\_238) = 0 TMP\_239 = 1 not(TMP\_239) = 0 TMP\_240 = 2 TMP\_241 = 0 not(TMP\_241) = 1 TMP\_242 = 0 not(TMP\_242) = 1 TMP\_243 = 1 not(TMP\_243) = 0 TMP\_244 = 1 not(TMP\_244) = 0 TMP\_245 = 1 not(TMP\_245) = 0 TMP\_246 = 2 TMP\_247 = 0 not(TMP\_247) = 1 TMP\_248 = 1 not(TMP\_248) = 0 TMP\_249 = 1 not(TMP\_249) = 0 TMP\_250 = 1 not(TMP\_250) = 0 TMP\_251 = 1 not(TMP\_251) = 0 TMP\_252 = 1 not(TMP\_252) = 0 TMP\_253 = 5 TMP\_254 = 0 not(TMP\_254) = 1 TMP\_255 = 0 not(TMP\_255) = 1 TMP\_256 = 0 TMP\_257 = 1 not(TMP\_257) = 0 TMP\_258 = 1 not(TMP\_258) = 0 TMP\_259 = 2 TMP\_260 = 0 not(TMP\_260) = 1 TMP\_261 = 0 not(TMP\_261) = 1 TMP\_262 = 1 not(TMP\_262) = 0 TMP\_263 = 1 not(TMP\_263) = 0 TMP\_264 = 1 not(TMP\_264) = 0 TMP\_265 = 2 TMP\_266 = 0 not(TMP\_266) = 1 TMP\_267 = 1 not(TMP\_267) = 0 TMP\_268 = 1 not(TMP\_268) = 0 TMP\_269 = 1 not(TMP\_269) = 0 TMP\_270 = 1 not(TMP\_270) = 0 TMP\_271 = 1 not(TMP\_271) = 0 TMP\_272 = 5 TMP\_273 = 0 not(TMP\_273) = 1 TMP\_274 = 0 not(TMP\_274) = 1 TMP\_275 = 0 TMP\_276 = 1 not(TMP\_276) = 0 TMP\_277 = 1 not(TMP\_277) = 0 TMP\_278 = 2 TMP\_279 = 0 not(TMP\_279) = 1 TMP\_280 = 0 not(TMP\_280) = 1 TMP\_281 = 1 not(TMP\_281) = 0 TMP\_282 = 1 not(TMP\_282) = 0 TMP\_283 = 1 not(TMP\_283) = 0 TMP\_284 = 2 TMP\_285 = 0 not(TMP\_285) = 1 TMP\_286 = 1 not(TMP\_286) = 0 TMP\_287 = 1 not(TMP\_287) = 0 TMP\_288 = 1 not(TMP\_288) = 0 TMP\_289 = 1 not(TMP\_289) = 0 TMP\_290 = 1 not(TMP\_290) = 0 TMP\_291 = 5 TMP\_292 = 0 not(TMP\_292) = 1 TMP\_293 = 0 not(TMP\_293) = 1 TMP\_294 = 0 TMP\_295 = 1 not(TMP\_295) = 0 TMP\_296 = 1 not(TMP\_296) = 0 TMP\_297 = 2 TMP\_298 = 0 not(TMP\_298) = 1 TMP\_299 = 0 not(TMP\_299) = 1 TMP\_300 = 1 not(TMP\_300) = 0 TMP\_301 = 1 not(TMP\_301) = 0 TMP\_302 = 1 not(TMP\_302) = 0 TMP\_303 = 2 TMP\_304 = 0 not(TMP\_304) = 1 TMP\_305 = 1 not(TMP\_305) = 0 TMP\_306 = 1 not(TMP\_306) = 0 TMP\_307 = 1 not(TMP\_307) = 0 TMP\_308 = 0 not(TMP\_308) = 1 TMP\_309 = 1 not(TMP\_309) = 0 TMP\_310 = 4 TMP\_311 = 0 not(TMP\_311) = 1 TMP\_312 = 0 not(TMP\_312) = 1 TMP\_313 = 0 TMP\_314 = 1 not(TMP\_314) = 0 TMP\_315 = 1 not(TMP\_315) = 0 TMP\_316 = 2 TMP\_317 = 0 not(TMP\_317) = 1 TMP\_318 = 0 not(TMP\_318) = 1 TMP\_319 = 1 not(TMP\_319) = 0 TMP\_320 = 1 not(TMP\_320) = 0 TMP\_321 = 1 not(TMP\_321) = 0 TMP\_322 = 2 TMP\_323 = 0 not(TMP\_323) = 1 TMP\_324 = 1 not(TMP\_324) = 0 TMP\_325 = 1 not(TMP\_325) = 0 TMP\_326 = 1 not(TMP\_326) = 0 TMP\_327 = 0 not(TMP\_327) = 1 TMP\_328 = 1 not(TMP\_328) = 0 TMP\_329 = 4 TMP\_330 = 0 not(TMP\_330) = 1 TMP\_331 = 0 not(TMP\_331) = 1 TMP\_332 = 0 TMP\_333 = 1 not(TMP\_333) = 0 TMP\_334 = 1 not(TMP\_334) = 0 TMP\_335 = 2 TMP\_336 = 0 not(TMP\_336) = 1 TMP\_337 = 0 not(TMP\_337) = 1 TMP\_338 = 1 not(TMP\_338) = 0 TMP\_339 = 1 not(TMP\_339) = 0 TMP\_340 = 1 not(TMP\_340) = 0 TMP\_341 = 2 TMP\_342 = 1 not(TMP\_342) = 0 TMP\_343 = 1 not(TMP\_343) = 0 TMP\_344 = 1 not(TMP\_344) = 0 TMP\_345 = 1 not(TMP\_345) = 0 TMP\_346 = 0 not(TMP\_346) = 1 TMP\_347 = 1 not(TMP\_347) = 0 TMP\_348 = 5 TMP\_349 = 0 not(TMP\_349) = 1 TMP\_350 = 0 not(TMP\_350) = 1 TMP\_351 = 0 TMP\_352 = 1 not(TMP\_352) = 0 TMP\_353 = 1 not(TMP\_353) = 0 TMP\_354 = 2 TMP\_355 = 0 not(TMP\_355) = 1 TMP\_356 = 0 not(TMP\_356) = 1 TMP\_357 = 1 not(TMP\_357) = 0 TMP\_358 = 1 not(TMP\_358) = 0 TMP\_359 = 1 not(TMP\_359) = 0 TMP\_360 = 2 TMP\_361 = 0 not(TMP\_361) = 1 TMP\_362 = 1 not(TMP\_362) = 0 TMP\_363 = 1 not(TMP\_363) = 0 TMP\_364 = 1 not(TMP\_364) = 0 TMP\_365 = 1 not(TMP\_365) = 0 TMP\_366 = 1 not(TMP\_366) = 0 TMP\_367 = 5 TMP\_368 = 0 not(TMP\_368) = 1 TMP\_369 = 0 not(TMP\_369) = 1 TMP\_370 = 0 TMP\_371 = 1 not(TMP\_371) = 0 TMP\_372 = 1 not(TMP\_372) = 0 TMP\_373 = 2 TMP\_374 = 0 not(TMP\_374) = 1 TMP\_375 = 0 not(TMP\_375) = 1 TMP\_376 = 1 not(TMP\_376) = 0 TMP\_377 = 1 not(TMP\_377) = 0 TMP\_378 = 1 not(TMP\_378) = 0 TMP\_379 = 2 TMP\_380 = 0 not(TMP\_380) = 1 TMP\_381 = 1 not(TMP\_381) = 0 TMP\_382 = 1 not(TMP\_382) = 0 TMP\_383 = 1 not(TMP\_383) = 0 TMP\_384 = 0 not(TMP\_384) = 1 TMP\_385 = 1 not(TMP\_385) = 0 TMP\_386 = 4 TMP\_387 = 0 not(TMP\_387) = 1 TMP\_388 = 0 not(TMP\_388) = 1 TMP\_389 = 0 TMP\_390 = 1 not(TMP\_390) = 0 TMP\_391 = 1 not(TMP\_391) = 0 TMP\_392 = 2 TMP\_393 = 0 not(TMP\_393) = 1 TMP\_394 = 0 not(TMP\_394) = 1 TMP\_395 = 1 not(TMP\_395) = 0 TMP\_396 = 1 not(TMP\_396) = 0 TMP\_397 = 1 not(TMP\_397) = 0 TMP\_398 = 2 TMP\_399 = 0 not(TMP\_399) = 1 TMP\_400 = 1 not(TMP\_400) = 0 TMP\_401 = 1 not(TMP\_401) = 0 TMP\_402 = 1 not(TMP\_402) = 0 TMP\_403 = 1 not(TMP\_403) = 0 TMP\_404 = 1 not(TMP\_404) = 0 TMP\_405 = 5 TMP\_406 = 0 not(TMP\_406) = 1 TMP\_407 = 0 not(TMP\_407) = 1 TMP\_408 = 0 TMP\_409 = 1 not(TMP\_409) = 0 TMP\_410 = 1 not(TMP\_410) = 0 TMP\_411 = 2 TMP\_412 = 0 not(TMP\_412) = 1 TMP\_413 = 0 not(TMP\_413) = 1 TMP\_414 = 1 not(TMP\_414) = 0 TMP\_415 = 1 not(TMP\_415) = 0 TMP\_416 = 1 not(TMP\_416) = 0 TMP\_417 = 2 TMP\_418 = 1 not(TMP\_418) = 0 TMP\_419 = 0 not(TMP\_419) = 1 TMP\_420 = 1 not(TMP\_420) = 0 TMP\_421 = 1 not(TMP\_421) = 0 TMP\_422 = 1 not(TMP\_422) = 0 TMP\_423 = 1 not(TMP\_423) = 0 TMP\_424 = 5 TMP\_425 = 0 not(TMP\_425) = 1 TMP\_426 = 0 not(TMP\_426) = 1 TMP\_427 = 0 TMP\_428 = 1 not(TMP\_428) = 0 TMP\_429 = 1 not(TMP\_429) = 0 TMP\_430 = 2 TMP\_431 = 0 not(TMP\_431) = 1 TMP\_432 = 0 not(TMP\_432) = 1 TMP\_433 = 1 not(TMP\_433) = 0 TMP\_434 = 1 not(TMP\_434) = 0 TMP\_435 = 1 not(TMP\_435) = 0 TMP\_436 = 2 TMP\_437 = 1 not(TMP\_437) = 0 TMP\_438 = 0 not(TMP\_438) = 1 TMP\_439 = 1 not(TMP\_439) = 0 TMP\_440 = 1 not(TMP\_440) = 0 TMP\_441 = 0 not(TMP\_441) = 1 TMP\_442 = 1 not(TMP\_442) = 0 TMP\_443 = 4 TMP\_444 = 0 not(TMP\_444) = 1 TMP\_445 = 0 not(TMP\_445) = 1 TMP\_446 = 0 TMP\_447 = 1 not(TMP\_447) = 0 TMP\_448 = 1 not(TMP\_448) = 0 TMP\_449 = 2 TMP\_450 = 0 not(TMP\_450) = 1 TMP\_451 = 0 not(TMP\_451) = 1 TMP\_452 = 1 not(TMP\_452) = 0 TMP\_453 = 1 not(TMP\_453) = 0 TMP\_454 = 1 not(TMP\_454) = 0 TMP\_455 = 2 TMP\_456 = 1 not(TMP\_456) = 0 TMP\_457 = 1 not(TMP\_457) = 0 TMP\_458 = 1 not(TMP\_458) = 0 TMP\_459 = 1 not(TMP\_459) = 0 TMP\_460 = 0 not(TMP\_460) = 1 TMP\_461 = 1 not(TMP\_461) = 0 TMP\_462 = 5 TMP\_463 = 0 not(TMP\_463) = 1 TMP\_464 = 0 not(TMP\_464) = 1 TMP\_465 = 0 TMP\_466 = 1 not(TMP\_466) = 0 TMP\_467 = 1 not(TMP\_467) = 0 TMP\_468 = 2 TMP\_469 = 0 not(TMP\_469) = 1 TMP\_470 = 0 not(TMP\_470) = 1 TMP\_471 = 1 not(TMP\_471) = 0 TMP\_472 = 1 not(TMP\_472) = 0 TMP\_473 = 1 not(TMP\_473) = 0 TMP\_474 = 2 TMP\_475 = 1 not(TMP\_475) = 0 TMP\_476 = 0 not(TMP\_476) = 1 TMP\_477 = 1 not(TMP\_477) = 0 TMP\_478 = 1 not(TMP\_478) = 0 TMP\_479 = 0 not(TMP\_479) = 1 TMP\_480 = 1 not(TMP\_480) = 0 TMP\_481 = 4 TMP\_482 = 0 not(TMP\_482) = 1 TMP\_483 = 0 not(TMP\_483) = 1 TMP\_484 = 0 TMP\_485 = 1 not(TMP\_485) = 0 TMP\_486 = 1 not(TMP\_486) = 0 TMP\_487 = 2 TMP\_488 = 0 not(TMP\_488) = 1 TMP\_489 = 0 not(TMP\_489) = 1 TMP\_490 = 1 not(TMP\_490) = 0 TMP\_491 = 1 not(TMP\_491) = 0 TMP\_492 = 1 not(TMP\_492) = 0 TMP\_493 = 2 TMP\_494 = 1 not(TMP\_494) = 0 TMP\_495 = 0 not(TMP\_495) = 1 TMP\_496 = 1 not(TMP\_496) = 0 TMP\_497 = 1 not(TMP\_497) = 0 TMP\_498 = 1 not(TMP\_498) = 0 TMP\_499 = 1 not(TMP\_499) = 0 TMP\_500 = 5 TMP\_501 = 0 not(TMP\_501) = 1 TMP\_502 = 0 not(TMP\_502) = 1 TMP\_503 = 0 TMP\_504 = 1 not(TMP\_504) = 0 TMP\_505 = 1 not(TMP\_505) = 0 TMP\_506 = 2 TMP\_507 = 0 not(TMP\_507) = 1 TMP\_508 = 0 not(TMP\_508) = 1 TMP\_509 = 1 not(TMP\_509) = 0 TMP\_510 = 1 not(TMP\_510) = 0 TMP\_511 = 1 not(TMP\_511) = 0 TMP\_512 = 2 TMP\_513 = 1 not(TMP\_513) = 0 TMP\_514 = 1 not(TMP\_514) = 0 TMP\_515 = 1 not(TMP\_515) = 0 TMP\_516 = 1 not(TMP\_516) = 0 TMP\_517 = 0 not(TMP\_517) = 1 TMP\_518 = 1 not(TMP\_518) = 0 TMP\_519 = 5 TMP\_520 = 0 not(TMP\_520) = 1 TMP\_521 = 0 not(TMP\_521) = 1 TMP\_522 = 0 TMP\_523 = 1 not(TMP\_523) = 0 TMP\_524 = 1 not(TMP\_524) = 0 TMP\_525 = 2 TMP\_526 = 0 not(TMP\_526) = 1 TMP\_527 = 0 not(TMP\_527) = 1 TMP\_528 = 1 not(TMP\_528) = 0 TMP\_529 = 1 not(TMP\_529) = 0 TMP\_530 = 1 not(TMP\_530) = 0 TMP\_531 = 2 TMP\_532 = 1 not(TMP\_532) = 0 TMP\_533 = 1 not(TMP\_533) = 0 TMP\_534 = 1 not(TMP\_534) = 0 TMP\_535 = 1 not(TMP\_535) = 0 TMP\_536 = 1 not(TMP\_536) = 0 TMP\_537 = 0 not(TMP\_537) = 1 TMP\_538 = 5 TMP\_539 = 0 not(TMP\_539) = 1 TMP\_540 = 0 not(TMP\_540) = 1 TMP\_541 = 0 TMP\_542 = 1 not(TMP\_542) = 0 TMP\_543 = 1 not(TMP\_543) = 0 TMP\_544 = 2 TMP\_545 = 0 not(TMP\_545) = 1 TMP\_546 = 0 not(TMP\_546) = 1 TMP\_547 = 1 not(TMP\_547) = 0 TMP\_548 = 1 not(TMP\_548) = 0 TMP\_549 = 1 not(TMP\_549) = 0 TMP\_550 = 2 TMP\_551 = 1 not(TMP\_551) = 0 TMP\_552 = 0 not(TMP\_552) = 1 TMP\_553 = 1 not(TMP\_553) = 0 TMP\_554 = 1 not(TMP\_554) = 0 TMP\_555 = 1 not(TMP\_555) = 0 TMP\_556 = 0 not(TMP\_556) = 1 TMP\_557 = 4 TMP\_558 = 0 not(TMP\_558) = 1 TMP\_559 = 0 not(TMP\_559) = 1 TMP\_560 = 0 TMP\_561 = 1 not(TMP\_561) = 0 TMP\_562 = 1 not(TMP\_562) = 0 TMP\_563 = 2 TMP\_564 = 0 not(TMP\_564) = 1 TMP\_565 = 0 not(TMP\_565) = 1 TMP\_566 = 1 not(TMP\_566) = 0 TMP\_567 = 1 not(TMP\_567) = 0 TMP\_568 = 1 not(TMP\_568) = 0 TMP\_569 = 2 TMP\_570 = 1 not(TMP\_570) = 0 TMP\_571 = 0 not(TMP\_571) = 1 TMP\_572 = 1 not(TMP\_572) = 0 TMP\_573 = 1 not(TMP\_573) = 0 TMP\_574 = 1 not(TMP\_574) = 0 TMP\_575 = 1 not(TMP\_575) = 0 TMP\_576 = 5 TMP\_577 = 0 not(TMP\_577) = 1 TMP\_578 = 0 not(TMP\_578) = 1 TMP\_579 = 0 TMP\_580 = 1 not(TMP\_580) = 0 TMP\_581 = 1 not(TMP\_581) = 0 TMP\_582 = 2 TMP\_583 = 0 not(TMP\_583) = 1 TMP\_584 = 0 not(TMP\_584) = 1 TMP\_585 = 1 not(TMP\_585) = 0 TMP\_586 = 1 not(TMP\_586) = 0 TMP\_587 = 1 not(TMP\_587) = 0 TMP\_588 = 2 TMP\_589 = 1 not(TMP\_589) = 0 TMP\_590 = 1 not(TMP\_590) = 0 TMP\_591 = 0 not(TMP\_591) = 1 TMP\_592 = 1 not(TMP\_592) = 0 TMP\_593 = 1 not(TMP\_593) = 0 TMP\_594 = 1 not(TMP\_594) = 0 TMP\_595 = 5 TMP\_596 = 0 not(TMP\_596) = 1 TMP\_597 = 0 not(TMP\_597) = 1 TMP\_598 = 0 TMP\_599 = 1 not(TMP\_599) = 0 TMP\_600 = 1 not(TMP\_600) = 0 TMP\_601 = 2 TMP\_602 = 0 not(TMP\_602) = 1 TMP\_603 = 0 not(TMP\_603) = 1 TMP\_604 = 1 not(TMP\_604) = 0 TMP\_605 = 1 not(TMP\_605) = 0 TMP\_606 = 1 not(TMP\_606) = 0 TMP\_607 = 2 TMP\_608 = 1 not(TMP\_608) = 0 TMP\_609 = 0 not(TMP\_609) = 1 TMP\_610 = 1 not(TMP\_610) = 0 TMP\_611 = 1 not(TMP\_611) = 0 TMP\_612 = 1 not(TMP\_612) = 0 TMP\_613 = 1 not(TMP\_613) = 0 TMP\_614 = 5 TMP\_615 = 0 not(TMP\_615) = 1 TMP\_616 = 0 not(TMP\_616) = 1 TMP\_617 = 0 TMP\_618 = 1 not(TMP\_618) = 0 TMP\_619 = 1 not(TMP\_619) = 0 TMP\_620 = 2 TMP\_621 = 0 not(TMP\_621) = 1 TMP\_622 = 0 not(TMP\_622) = 1 TMP\_623 = 1 not(TMP\_623) = 0 TMP\_624 = 1 not(TMP\_624) = 0 TMP\_625 = 1 not(TMP\_625) = 0 TMP\_626 = 2 TMP\_627 = 1 not(TMP\_627) = 0 TMP\_628 = 0 not(TMP\_628) = 1 TMP\_629 = 1 not(TMP\_629) = 0 TMP\_630 = 1 not(TMP\_630) = 0 TMP\_631 = 1 not(TMP\_631) = 0 TMP\_632 = 0 not(TMP\_632) = 1 TMP\_633 = 4 TMP\_634 = 0 not(TMP\_634) = 1 TMP\_635 = 0 not(TMP\_635) = 1 TMP\_636 = 0 TMP\_637 = 1 not(TMP\_637) = 0 TMP\_638 = 1 not(TMP\_638) = 0 TMP\_639 = 2 TMP\_640 = 0 not(TMP\_640) = 1 TMP\_641 = 0 not(TMP\_641) = 1 TMP\_642 = 1 not(TMP\_642) = 0 TMP\_643 = 1 not(TMP\_643) = 0 TMP\_644 = 1 not(TMP\_644) = 0 TMP\_645 = 2 TMP\_646 = 1 not(TMP\_646) = 0 TMP\_647 = 1 not(TMP\_647) = 0 TMP\_648 = 1 not(TMP\_648) = 0 TMP\_649 = 1 not(TMP\_649) = 0 TMP\_650 = 1 not(TMP\_650) = 0 TMP\_651 = 0 not(TMP\_651) = 1 TMP\_652 = 5 TMP\_653 = 0 not(TMP\_653) = 1 TMP\_654 = 0 not(TMP\_654) = 1 TMP\_655 = 0 TMP\_656 = 1 not(TMP\_656) = 0 TMP\_657 = 1 not(TMP\_657) = 0 TMP\_658 = 2 TMP\_659 = 0 not(TMP\_659) = 1 TMP\_660 = 0 not(TMP\_660) = 1 TMP\_661 = 1 not(TMP\_661) = 0 TMP\_662 = 1 not(TMP\_662) = 0 TMP\_663 = 1 not(TMP\_663) = 0 TMP\_664 = 2 Area\_0 = 60 Distance\_0\_Rule\_0 = 20 Distance\_1\_Rule\_0 = 3 Distance\_2\_Rule\_0 = 1 Area\_1 = 174 Distance\_0\_Rule\_1 = 58 Distance\_1\_Rule\_1 = 3 Distance\_2\_Rule\_1 = 1 Area\_2 = 116 Distance\_0\_Rule\_2 = 58 Distance\_1\_Rule\_2 = 2 Distance\_2\_Rule\_2 = 1 Area\_3 = 79 -(Rule\_3\_LB) = 0 Distance\_0\_Rule\_3 = 79 -(Rule\_3\_LB) = 0 Distance\_1\_Rule\_3 = 1 -(Rule\_3\_LB) = 0 Distance\_2\_Rule\_3 = 1 Area\_4 = 123 -(Rule\_4\_LB) = -79 Distance\_0\_Rule\_4 = 41 -(Rule\_4\_LB) = 0 Distance\_1\_Rule\_4 = 3 -(Rule\_4\_LB) = 0 Distance\_2\_Rule\_4 = 1 Area\_5 = 123 -(Rule\_5\_LB) = -79 Distance\_0\_Rule\_5 = 41 -(Rule\_5\_LB) = 0 Distance\_1\_Rule\_5 = 3 -(Rule\_5\_LB) = -1 Distance\_2\_Rule\_5 = 1 Area\_6 = 3 -(Rule\_6\_LB) = -20 Distance\_0\_Rule\_6 = 1 -(Rule\_6\_LB) = 0 Distance\_1\_Rule\_6 = 3 -(Rule\_6\_LB) = -1 Distance\_2\_Rule\_6 = 1 Area\_7 = 42 -(Rule\_7\_LB) = 0 Distance\_0\_Rule\_7 = 21 -(Rule\_7\_LB) = -1 Distance\_1\_Rule\_7 = 2 -(Rule\_7\_LB) = 0 Distance\_2\_Rule\_7 = 1 TMP\_665 = 720 .

- Solution #8 found. 8 Solutions, Resolution 3.174s, 23829 Nodes (7,507.0 n/s), 47600 Backtracks, 23801 Fails, 0 Restarts

Rule\_3\_LB = 0 Rule\_3\_UB = 79 Rule\_3\_LB = 0 Rule\_3\_UB = 1 Rule\_3\_LB = 0 Rule\_3\_UB = 1 Rule\_4\_LB = 79 Rule\_4\_UB = 120 Rule\_4\_LB = 0 Rule\_4\_UB = 3 Rule\_4\_LB = 0 Rule\_4\_UB = 1 Rule\_5\_LB = 79 Rule\_5\_UB = 120 Rule\_5\_LB = 0 Rule\_5\_UB = 3 Rule\_5\_LB = 1 Rule\_5\_UB = 2 Rule\_6\_LB = 20 Rule\_6\_UB = 21 Rule\_6\_LB = 0 Rule\_6\_UB = 3 Rule\_6\_LB = 1 Rule\_6\_UB = 2 Rule\_7\_LB = 0 Rule\_7\_UB = 21 Rule\_7\_LB = 1 Rule\_7\_UB = 3 Rule\_7\_LB = 0 Rule\_7\_UB = 1 Overlaps\_0\_0 = 0 Overlaps\_0\_1 = 1 Overlaps\_0\_2 = 0 Overlaps\_0\_3 = 0 Overlaps\_0\_4 = 0 Overlaps\_0\_5 = 0 Overlaps\_0\_6 = 0 Overlaps\_0\_7 = 0 Overlaps\_1\_0 = 0 Overlaps\_1\_1 = 0 Overlaps\_1\_2 = 1 Overlaps\_1\_3 = 0 Overlaps\_1\_4 = 0 Overlaps\_1\_5 = 0 Overlaps\_1\_6 = 0 Overlaps\_1\_7 = 0 Overlaps\_2\_0 = 1 Overlaps\_2\_1 = 0 Overlaps\_2\_2 = 0 Overlaps\_2\_3 = 0 Overlaps\_2\_4 = 0 Overlaps\_2\_5 = 0 Overlaps\_2\_6 = 0 Overlaps\_2\_7 = 0 Overlaps\_3\_0 = 0 Overlaps\_3\_1 = 0 Overlaps\_3\_2 = 0 Overlaps\_3\_3 = 0 Overlaps\_3\_4 = 0 Overlaps\_3\_5 = 0 Overlaps\_3\_6 = 0 Overlaps\_3\_7 = 0 Overlaps\_4\_0 = 0 Overlaps\_4\_1 = 0 Overlaps\_4\_2 = 0 Overlaps\_4\_3 = 0 Overlaps\_4\_4 = 0 Overlaps\_4\_5 = 0 Overlaps\_4\_6 = 0 Overlaps\_4\_7 = 0 Overlaps\_5\_0 = 0 Overlaps\_5\_1 = 0 Overlaps\_5\_2 = 0 Overlaps\_5\_3 = 0 Overlaps\_5\_4 = 0 Overlaps\_5\_5 = 0 Overlaps\_5\_6 = 0 Overlaps\_5\_7 = 0 Overlaps\_6\_0 = 0 Overlaps\_6\_1 = 0 Overlaps\_6\_2 = 0 Overlaps\_6\_3 = 0 Overlaps\_6\_4 = 0 Overlaps\_6\_5 = 0 Overlaps\_6\_6 = 0 Overlaps\_6\_7 = 0 Overlaps\_7\_0 = 0 Overlaps\_7\_1 = 0 Overlaps\_7\_2 = 0 Overlaps\_7\_3 = 0 Overlaps\_7\_4 = 0 Overlaps\_7\_5 = 0 Overlaps\_7\_6 = 0 Overlaps\_7\_7 = 0 TMP\_0 = 1 not(TMP\_0) = 0 TMP\_1 = 1 not(TMP\_1) = 0 TMP\_2 = 1 not(TMP\_2) = 0 TMP\_3 = 1 not(TMP\_3) = 0 TMP\_4 = 1 not(TMP\_4) = 0 TMP\_5 = 0 not(TMP\_5) = 1 TMP\_6 = 5 TMP\_7 = 0 not(TMP\_7) = 1 TMP\_8 = 0 not(TMP\_8) = 1 TMP\_9 = 0 TMP\_10 = 1 not(TMP\_10) = 0 TMP\_11 = 1 not(TMP\_11) = 0 TMP\_12 = 2 TMP\_13 = 0 not(TMP\_13) = 1 TMP\_14 = 0 not(TMP\_14) = 1 TMP\_15 = 1 not(TMP\_15) = 0 TMP\_16 = 1 not(TMP\_16) = 0 TMP\_17 = 1 not(TMP\_17) = 0 TMP\_18 = 2 TMP\_19 = 1 not(TMP\_19) = 0 TMP\_20 = 1 not(TMP\_20) = 0 TMP\_21 = 1 not(TMP\_21) = 0 TMP\_22 = 1 not(TMP\_22) = 0 TMP\_23 = 1 not(TMP\_23) = 0 TMP\_24 = 0 not(TMP\_24) = 1 TMP\_25 = 5 TMP\_26 = 0 not(TMP\_26) = 1 TMP\_27 = 0 not(TMP\_27) = 1 TMP\_28 = 0 TMP\_29 = 1 not(TMP\_29) = 0 TMP\_30 = 1 not(TMP\_30) = 0 TMP\_31 = 2 TMP\_32 = 0 not(TMP\_32) = 1 TMP\_33 = 0 not(TMP\_33) = 1 TMP\_34 = 1 not(TMP\_34) = 0 TMP\_35 = 1 not(TMP\_35) = 0 TMP\_36 = 1 not(TMP\_36) = 0 TMP\_37 = 2 TMP\_38 = 1 not(TMP\_38) = 0 TMP\_39 = 1 not(TMP\_39) = 0 TMP\_40 = 1 not(TMP\_40) = 0 TMP\_41 = 0 not(TMP\_41) = 1 TMP\_42 = 1 not(TMP\_42) = 0 TMP\_43 = 1 not(TMP\_43) = 0 TMP\_44 = 5 TMP\_45 = 0 not(TMP\_45) = 1 TMP\_46 = 0 not(TMP\_46) = 1 TMP\_47 = 0 TMP\_48 = 1 not(TMP\_48) = 0 TMP\_49 = 1 not(TMP\_49) = 0 TMP\_50 = 2 TMP\_51 = 0 not(TMP\_51) = 1 TMP\_52 = 0 not(TMP\_52) = 1 TMP\_53 = 1 not(TMP\_53) = 0 TMP\_54 = 1 not(TMP\_54) = 0 TMP\_55 = 1 not(TMP\_55) = 0 TMP\_56 = 2 TMP\_57 = 1 not(TMP\_57) = 0 TMP\_58 = 0 not(TMP\_58) = 1 TMP\_59 = 1 not(TMP\_59) = 0 TMP\_60 = 1 not(TMP\_60) = 0 TMP\_61 = 1 not(TMP\_61) = 0 TMP\_62 = 1 not(TMP\_62) = 0 TMP\_63 = 5 TMP\_64 = 0 not(TMP\_64) = 1 TMP\_65 = 0 not(TMP\_65) = 1 TMP\_66 = 0 TMP\_67 = 1 not(TMP\_67) = 0 TMP\_68 = 1 not(TMP\_68) = 0 TMP\_69 = 2 TMP\_70 = 0 not(TMP\_70) = 1 TMP\_71 = 0 not(TMP\_71) = 1 TMP\_72 = 1 not(TMP\_72) = 0 TMP\_73 = 1 not(TMP\_73) = 0 TMP\_74 = 1 not(TMP\_74) = 0 TMP\_75 = 2 TMP\_76 = 1 not(TMP\_76) = 0 TMP\_77 = 0 not(TMP\_77) = 1 TMP\_78 = 1 not(TMP\_78) = 0 TMP\_79 = 1 not(TMP\_79) = 0 TMP\_80 = 1 not(TMP\_80) = 0 TMP\_81 = 0 not(TMP\_81) = 1 TMP\_82 = 4 TMP\_83 = 0 not(TMP\_83) = 1 TMP\_84 = 0 not(TMP\_84) = 1 TMP\_85 = 0 TMP\_86 = 1 not(TMP\_86) = 0 TMP\_87 = 1 not(TMP\_87) = 0 TMP\_88 = 2 TMP\_89 = 0 not(TMP\_89) = 1 TMP\_90 = 0 not(TMP\_90) = 1 TMP\_91 = 1 not(TMP\_91) = 0 TMP\_92 = 1 not(TMP\_92) = 0 TMP\_93 = 1 not(TMP\_93) = 0 TMP\_94 = 2 TMP\_95 = 1 not(TMP\_95) = 0 TMP\_96 = 1 not(TMP\_96) = 0 TMP\_97 = 1 not(TMP\_97) = 0 TMP\_98 = 1 not(TMP\_98) = 0 TMP\_99 = 1 not(TMP\_99) = 0 TMP\_100 = 0 not(TMP\_100) = 1 TMP\_101 = 5 TMP\_102 = 0 not(TMP\_102) = 1 TMP\_103 = 0 not(TMP\_103) = 1 TMP\_104 = 0 TMP\_105 = 1 not(TMP\_105) = 0 TMP\_106 = 1 not(TMP\_106) = 0 TMP\_107 = 2 TMP\_108 = 0 not(TMP\_108) = 1 TMP\_109 = 0 not(TMP\_109) = 1 TMP\_110 = 1 not(TMP\_110) = 0 TMP\_111 = 1 not(TMP\_111) = 0 TMP\_112 = 1 not(TMP\_112) = 0 TMP\_113 = 2 TMP\_114 = 1 not(TMP\_114) = 0 TMP\_115 = 1 not(TMP\_115) = 0 TMP\_116 = 1 not(TMP\_116) = 0 TMP\_117 = 0 not(TMP\_117) = 1 TMP\_118 = 1 not(TMP\_118) = 0 TMP\_119 = 1 not(TMP\_119) = 0 TMP\_120 = 5 TMP\_121 = 0 not(TMP\_121) = 1 TMP\_122 = 0 not(TMP\_122) = 1 TMP\_123 = 0 TMP\_124 = 1 not(TMP\_124) = 0 TMP\_125 = 1 not(TMP\_125) = 0 TMP\_126 = 2 TMP\_127 = 0 not(TMP\_127) = 1 TMP\_128 = 0 not(TMP\_128) = 1 TMP\_129 = 1 not(TMP\_129) = 0 TMP\_130 = 1 not(TMP\_130) = 0 TMP\_131 = 1 not(TMP\_131) = 0 TMP\_132 = 2 TMP\_133 = 0 not(TMP\_133) = 1 TMP\_134 = 1 not(TMP\_134) = 0 TMP\_135 = 1 not(TMP\_135) = 0 TMP\_136 = 1 not(TMP\_136) = 0 TMP\_137 = 1 not(TMP\_137) = 0 TMP\_138 = 0 not(TMP\_138) = 1 TMP\_139 = 4 TMP\_140 = 0 not(TMP\_140) = 1 TMP\_141 = 0 not(TMP\_141) = 1 TMP\_142 = 0 TMP\_143 = 1 not(TMP\_143) = 0 TMP\_144 = 1 not(TMP\_144) = 0 TMP\_145 = 2 TMP\_146 = 0 not(TMP\_146) = 1 TMP\_147 = 0 not(TMP\_147) = 1 TMP\_148 = 1 not(TMP\_148) = 0 TMP\_149 = 1 not(TMP\_149) = 0 TMP\_150 = 1 not(TMP\_150) = 0 TMP\_151 = 2 TMP\_152 = 0 not(TMP\_152) = 1 TMP\_153 = 1 not(TMP\_153) = 0 TMP\_154 = 1 not(TMP\_154) = 0 TMP\_155 = 1 not(TMP\_155) = 0 TMP\_156 = 1 not(TMP\_156) = 0 TMP\_157 = 0 not(TMP\_157) = 1 TMP\_158 = 4 TMP\_159 = 0 not(TMP\_159) = 1 TMP\_160 = 0 not(TMP\_160) = 1 TMP\_161 = 0 TMP\_162 = 1 not(TMP\_162) = 0 TMP\_163 = 1 not(TMP\_163) = 0 TMP\_164 = 2 TMP\_165 = 0 not(TMP\_165) = 1 TMP\_166 = 0 not(TMP\_166) = 1 TMP\_167 = 1 not(TMP\_167) = 0 TMP\_168 = 1 not(TMP\_168) = 0 TMP\_169 = 1 not(TMP\_169) = 0 TMP\_170 = 2 TMP\_171 = 0 not(TMP\_171) = 1 TMP\_172 = 1 not(TMP\_172) = 0 TMP\_173 = 1 not(TMP\_173) = 0 TMP\_174 = 1 not(TMP\_174) = 0 TMP\_175 = 1 not(TMP\_175) = 0 TMP\_176 = 1 not(TMP\_176) = 0 TMP\_177 = 5 TMP\_178 = 0 not(TMP\_178) = 1 TMP\_179 = 0 not(TMP\_179) = 1 TMP\_180 = 0 TMP\_181 = 1 not(TMP\_181) = 0 TMP\_182 = 1 not(TMP\_182) = 0 TMP\_183 = 2 TMP\_184 = 0 not(TMP\_184) = 1 TMP\_185 = 0 not(TMP\_185) = 1 TMP\_186 = 1 not(TMP\_186) = 0 TMP\_187 = 1 not(TMP\_187) = 0 TMP\_188 = 1 not(TMP\_188) = 0 TMP\_189 = 2 TMP\_190 = 0 not(TMP\_190) = 1 TMP\_191 = 1 not(TMP\_191) = 0 TMP\_192 = 1 not(TMP\_192) = 0 TMP\_193 = 1 not(TMP\_193) = 0 TMP\_194 = 1 not(TMP\_194) = 0 TMP\_195 = 1 not(TMP\_195) = 0 TMP\_196 = 5 TMP\_197 = 0 not(TMP\_197) = 1 TMP\_198 = 0 not(TMP\_198) = 1 TMP\_199 = 0 TMP\_200 = 1 not(TMP\_200) = 0 TMP\_201 = 1 not(TMP\_201) = 0 TMP\_202 = 2 TMP\_203 = 0 not(TMP\_203) = 1 TMP\_204 = 0 not(TMP\_204) = 1 TMP\_205 = 1 not(TMP\_205) = 0 TMP\_206 = 1 not(TMP\_206) = 0 TMP\_207 = 1 not(TMP\_207) = 0 TMP\_208 = 2 TMP\_209 = 1 not(TMP\_209) = 0 TMP\_210 = 1 not(TMP\_210) = 0 TMP\_211 = 1 not(TMP\_211) = 0 TMP\_212 = 1 not(TMP\_212) = 0 TMP\_213 = 1 not(TMP\_213) = 0 TMP\_214 = 0 not(TMP\_214) = 1 TMP\_215 = 5 TMP\_216 = 0 not(TMP\_216) = 1 TMP\_217 = 0 not(TMP\_217) = 1 TMP\_218 = 0 TMP\_219 = 1 not(TMP\_219) = 0 TMP\_220 = 1 not(TMP\_220) = 0 TMP\_221 = 2 TMP\_222 = 0 not(TMP\_222) = 1 TMP\_223 = 0 not(TMP\_223) = 1 TMP\_224 = 1 not(TMP\_224) = 0 TMP\_225 = 1 not(TMP\_225) = 0 TMP\_226 = 1 not(TMP\_226) = 0 TMP\_227 = 2 TMP\_228 = 0 not(TMP\_228) = 1 TMP\_229 = 1 not(TMP\_229) = 0 TMP\_230 = 1 not(TMP\_230) = 0 TMP\_231 = 1 not(TMP\_231) = 0 TMP\_232 = 1 not(TMP\_232) = 0 TMP\_233 = 0 not(TMP\_233) = 1 TMP\_234 = 4 TMP\_235 = 0 not(TMP\_235) = 1 TMP\_236 = 0 not(TMP\_236) = 1 TMP\_237 = 0 TMP\_238 = 1 not(TMP\_238) = 0 TMP\_239 = 1 not(TMP\_239) = 0 TMP\_240 = 2 TMP\_241 = 0 not(TMP\_241) = 1 TMP\_242 = 0 not(TMP\_242) = 1 TMP\_243 = 1 not(TMP\_243) = 0 TMP\_244 = 1 not(TMP\_244) = 0 TMP\_245 = 1 not(TMP\_245) = 0 TMP\_246 = 2 TMP\_247 = 0 not(TMP\_247) = 1 TMP\_248 = 1 not(TMP\_248) = 0 TMP\_249 = 1 not(TMP\_249) = 0 TMP\_250 = 1 not(TMP\_250) = 0 TMP\_251 = 1 not(TMP\_251) = 0 TMP\_252 = 1 not(TMP\_252) = 0 TMP\_253 = 5 TMP\_254 = 0 not(TMP\_254) = 1 TMP\_255 = 0 not(TMP\_255) = 1 TMP\_256 = 0 TMP\_257 = 1 not(TMP\_257) = 0 TMP\_258 = 1 not(TMP\_258) = 0 TMP\_259 = 2 TMP\_260 = 0 not(TMP\_260) = 1 TMP\_261 = 0 not(TMP\_261) = 1 TMP\_262 = 1 not(TMP\_262) = 0 TMP\_263 = 1 not(TMP\_263) = 0 TMP\_264 = 1 not(TMP\_264) = 0 TMP\_265 = 2 TMP\_266 = 0 not(TMP\_266) = 1 TMP\_267 = 1 not(TMP\_267) = 0 TMP\_268 = 1 not(TMP\_268) = 0 TMP\_269 = 1 not(TMP\_269) = 0 TMP\_270 = 1 not(TMP\_270) = 0 TMP\_271 = 1 not(TMP\_271) = 0 TMP\_272 = 5 TMP\_273 = 0 not(TMP\_273) = 1 TMP\_274 = 0 not(TMP\_274) = 1 TMP\_275 = 0 TMP\_276 = 1 not(TMP\_276) = 0 TMP\_277 = 1 not(TMP\_277) = 0 TMP\_278 = 2 TMP\_279 = 0 not(TMP\_279) = 1 TMP\_280 = 0 not(TMP\_280) = 1 TMP\_281 = 1 not(TMP\_281) = 0 TMP\_282 = 1 not(TMP\_282) = 0 TMP\_283 = 1 not(TMP\_283) = 0 TMP\_284 = 2 TMP\_285 = 0 not(TMP\_285) = 1 TMP\_286 = 1 not(TMP\_286) = 0 TMP\_287 = 1 not(TMP\_287) = 0 TMP\_288 = 1 not(TMP\_288) = 0 TMP\_289 = 1 not(TMP\_289) = 0 TMP\_290 = 1 not(TMP\_290) = 0 TMP\_291 = 5 TMP\_292 = 0 not(TMP\_292) = 1 TMP\_293 = 0 not(TMP\_293) = 1 TMP\_294 = 0 TMP\_295 = 1 not(TMP\_295) = 0 TMP\_296 = 1 not(TMP\_296) = 0 TMP\_297 = 2 TMP\_298 = 0 not(TMP\_298) = 1 TMP\_299 = 0 not(TMP\_299) = 1 TMP\_300 = 1 not(TMP\_300) = 0 TMP\_301 = 1 not(TMP\_301) = 0 TMP\_302 = 1 not(TMP\_302) = 0 TMP\_303 = 2 TMP\_304 = 0 not(TMP\_304) = 1 TMP\_305 = 1 not(TMP\_305) = 0 TMP\_306 = 1 not(TMP\_306) = 0 TMP\_307 = 1 not(TMP\_307) = 0 TMP\_308 = 0 not(TMP\_308) = 1 TMP\_309 = 1 not(TMP\_309) = 0 TMP\_310 = 4 TMP\_311 = 0 not(TMP\_311) = 1 TMP\_312 = 0 not(TMP\_312) = 1 TMP\_313 = 0 TMP\_314 = 1 not(TMP\_314) = 0 TMP\_315 = 1 not(TMP\_315) = 0 TMP\_316 = 2 TMP\_317 = 0 not(TMP\_317) = 1 TMP\_318 = 0 not(TMP\_318) = 1 TMP\_319 = 1 not(TMP\_319) = 0 TMP\_320 = 1 not(TMP\_320) = 0 TMP\_321 = 1 not(TMP\_321) = 0 TMP\_322 = 2 TMP\_323 = 0 not(TMP\_323) = 1 TMP\_324 = 1 not(TMP\_324) = 0 TMP\_325 = 1 not(TMP\_325) = 0 TMP\_326 = 1 not(TMP\_326) = 0 TMP\_327 = 0 not(TMP\_327) = 1 TMP\_328 = 1 not(TMP\_328) = 0 TMP\_329 = 4 TMP\_330 = 0 not(TMP\_330) = 1 TMP\_331 = 0 not(TMP\_331) = 1 TMP\_332 = 0 TMP\_333 = 1 not(TMP\_333) = 0 TMP\_334 = 1 not(TMP\_334) = 0 TMP\_335 = 2 TMP\_336 = 0 not(TMP\_336) = 1 TMP\_337 = 0 not(TMP\_337) = 1 TMP\_338 = 1 not(TMP\_338) = 0 TMP\_339 = 1 not(TMP\_339) = 0 TMP\_340 = 1 not(TMP\_340) = 0 TMP\_341 = 2 TMP\_342 = 1 not(TMP\_342) = 0 TMP\_343 = 1 not(TMP\_343) = 0 TMP\_344 = 1 not(TMP\_344) = 0 TMP\_345 = 1 not(TMP\_345) = 0 TMP\_346 = 0 not(TMP\_346) = 1 TMP\_347 = 1 not(TMP\_347) = 0 TMP\_348 = 5 TMP\_349 = 0 not(TMP\_349) = 1 TMP\_350 = 0 not(TMP\_350) = 1 TMP\_351 = 0 TMP\_352 = 1 not(TMP\_352) = 0 TMP\_353 = 1 not(TMP\_353) = 0 TMP\_354 = 2 TMP\_355 = 0 not(TMP\_355) = 1 TMP\_356 = 0 not(TMP\_356) = 1 TMP\_357 = 1 not(TMP\_357) = 0 TMP\_358 = 1 not(TMP\_358) = 0 TMP\_359 = 1 not(TMP\_359) = 0 TMP\_360 = 2 TMP\_361 = 0 not(TMP\_361) = 1 TMP\_362 = 1 not(TMP\_362) = 0 TMP\_363 = 1 not(TMP\_363) = 0 TMP\_364 = 1 not(TMP\_364) = 0 TMP\_365 = 1 not(TMP\_365) = 0 TMP\_366 = 1 not(TMP\_366) = 0 TMP\_367 = 5 TMP\_368 = 0 not(TMP\_368) = 1 TMP\_369 = 0 not(TMP\_369) = 1 TMP\_370 = 0 TMP\_371 = 1 not(TMP\_371) = 0 TMP\_372 = 1 not(TMP\_372) = 0 TMP\_373 = 2 TMP\_374 = 0 not(TMP\_374) = 1 TMP\_375 = 0 not(TMP\_375) = 1 TMP\_376 = 1 not(TMP\_376) = 0 TMP\_377 = 1 not(TMP\_377) = 0 TMP\_378 = 1 not(TMP\_378) = 0 TMP\_379 = 2 TMP\_380 = 0 not(TMP\_380) = 1 TMP\_381 = 1 not(TMP\_381) = 0 TMP\_382 = 1 not(TMP\_382) = 0 TMP\_383 = 1 not(TMP\_383) = 0 TMP\_384 = 0 not(TMP\_384) = 1 TMP\_385 = 1 not(TMP\_385) = 0 TMP\_386 = 4 TMP\_387 = 0 not(TMP\_387) = 1 TMP\_388 = 0 not(TMP\_388) = 1 TMP\_389 = 0 TMP\_390 = 1 not(TMP\_390) = 0 TMP\_391 = 1 not(TMP\_391) = 0 TMP\_392 = 2 TMP\_393 = 0 not(TMP\_393) = 1 TMP\_394 = 0 not(TMP\_394) = 1 TMP\_395 = 1 not(TMP\_395) = 0 TMP\_396 = 1 not(TMP\_396) = 0 TMP\_397 = 1 not(TMP\_397) = 0 TMP\_398 = 2 TMP\_399 = 0 not(TMP\_399) = 1 TMP\_400 = 1 not(TMP\_400) = 0 TMP\_401 = 1 not(TMP\_401) = 0 TMP\_402 = 1 not(TMP\_402) = 0 TMP\_403 = 1 not(TMP\_403) = 0 TMP\_404 = 1 not(TMP\_404) = 0 TMP\_405 = 5 TMP\_406 = 0 not(TMP\_406) = 1 TMP\_407 = 0 not(TMP\_407) = 1 TMP\_408 = 0 TMP\_409 = 1 not(TMP\_409) = 0 TMP\_410 = 1 not(TMP\_410) = 0 TMP\_411 = 2 TMP\_412 = 0 not(TMP\_412) = 1 TMP\_413 = 0 not(TMP\_413) = 1 TMP\_414 = 1 not(TMP\_414) = 0 TMP\_415 = 1 not(TMP\_415) = 0 TMP\_416 = 1 not(TMP\_416) = 0 TMP\_417 = 2 TMP\_418 = 1 not(TMP\_418) = 0 TMP\_419 = 0 not(TMP\_419) = 1 TMP\_420 = 1 not(TMP\_420) = 0 TMP\_421 = 1 not(TMP\_421) = 0 TMP\_422 = 1 not(TMP\_422) = 0 TMP\_423 = 1 not(TMP\_423) = 0 TMP\_424 = 5 TMP\_425 = 0 not(TMP\_425) = 1 TMP\_426 = 0 not(TMP\_426) = 1 TMP\_427 = 0 TMP\_428 = 1 not(TMP\_428) = 0 TMP\_429 = 1 not(TMP\_429) = 0 TMP\_430 = 2 TMP\_431 = 0 not(TMP\_431) = 1 TMP\_432 = 0 not(TMP\_432) = 1 TMP\_433 = 1 not(TMP\_433) = 0 TMP\_434 = 1 not(TMP\_434) = 0 TMP\_435 = 1 not(TMP\_435) = 0 TMP\_436 = 2 TMP\_437 = 1 not(TMP\_437) = 0 TMP\_438 = 0 not(TMP\_438) = 1 TMP\_439 = 1 not(TMP\_439) = 0 TMP\_440 = 1 not(TMP\_440) = 0 TMP\_441 = 0 not(TMP\_441) = 1 TMP\_442 = 1 not(TMP\_442) = 0 TMP\_443 = 4 TMP\_444 = 0 not(TMP\_444) = 1 TMP\_445 = 0 not(TMP\_445) = 1 TMP\_446 = 0 TMP\_447 = 1 not(TMP\_447) = 0 TMP\_448 = 1 not(TMP\_448) = 0 TMP\_449 = 2 TMP\_450 = 0 not(TMP\_450) = 1 TMP\_451 = 0 not(TMP\_451) = 1 TMP\_452 = 1 not(TMP\_452) = 0 TMP\_453 = 1 not(TMP\_453) = 0 TMP\_454 = 1 not(TMP\_454) = 0 TMP\_455 = 2 TMP\_456 = 1 not(TMP\_456) = 0 TMP\_457 = 1 not(TMP\_457) = 0 TMP\_458 = 1 not(TMP\_458) = 0 TMP\_459 = 1 not(TMP\_459) = 0 TMP\_460 = 0 not(TMP\_460) = 1 TMP\_461 = 1 not(TMP\_461) = 0 TMP\_462 = 5 TMP\_463 = 0 not(TMP\_463) = 1 TMP\_464 = 0 not(TMP\_464) = 1 TMP\_465 = 0 TMP\_466 = 1 not(TMP\_466) = 0 TMP\_467 = 1 not(TMP\_467) = 0 TMP\_468 = 2 TMP\_469 = 0 not(TMP\_469) = 1 TMP\_470 = 0 not(TMP\_470) = 1 TMP\_471 = 1 not(TMP\_471) = 0 TMP\_472 = 1 not(TMP\_472) = 0 TMP\_473 = 1 not(TMP\_473) = 0 TMP\_474 = 2 TMP\_475 = 1 not(TMP\_475) = 0 TMP\_476 = 0 not(TMP\_476) = 1 TMP\_477 = 1 not(TMP\_477) = 0 TMP\_478 = 1 not(TMP\_478) = 0 TMP\_479 = 0 not(TMP\_479) = 1 TMP\_480 = 1 not(TMP\_480) = 0 TMP\_481 = 4 TMP\_482 = 0 not(TMP\_482) = 1 TMP\_483 = 0 not(TMP\_483) = 1 TMP\_484 = 0 TMP\_485 = 1 not(TMP\_485) = 0 TMP\_486 = 1 not(TMP\_486) = 0 TMP\_487 = 2 TMP\_488 = 0 not(TMP\_488) = 1 TMP\_489 = 0 not(TMP\_489) = 1 TMP\_490 = 1 not(TMP\_490) = 0 TMP\_491 = 1 not(TMP\_491) = 0 TMP\_492 = 1 not(TMP\_492) = 0 TMP\_493 = 2 TMP\_494 = 1 not(TMP\_494) = 0 TMP\_495 = 0 not(TMP\_495) = 1 TMP\_496 = 1 not(TMP\_496) = 0 TMP\_497 = 1 not(TMP\_497) = 0 TMP\_498 = 1 not(TMP\_498) = 0 TMP\_499 = 1 not(TMP\_499) = 0 TMP\_500 = 5 TMP\_501 = 0 not(TMP\_501) = 1 TMP\_502 = 0 not(TMP\_502) = 1 TMP\_503 = 0 TMP\_504 = 1 not(TMP\_504) = 0 TMP\_505 = 1 not(TMP\_505) = 0 TMP\_506 = 2 TMP\_507 = 0 not(TMP\_507) = 1 TMP\_508 = 0 not(TMP\_508) = 1 TMP\_509 = 1 not(TMP\_509) = 0 TMP\_510 = 1 not(TMP\_510) = 0 TMP\_511 = 1 not(TMP\_511) = 0 TMP\_512 = 2 TMP\_513 = 1 not(TMP\_513) = 0 TMP\_514 = 1 not(TMP\_514) = 0 TMP\_515 = 1 not(TMP\_515) = 0 TMP\_516 = 1 not(TMP\_516) = 0 TMP\_517 = 0 not(TMP\_517) = 1 TMP\_518 = 1 not(TMP\_518) = 0 TMP\_519 = 5 TMP\_520 = 0 not(TMP\_520) = 1 TMP\_521 = 0 not(TMP\_521) = 1 TMP\_522 = 0 TMP\_523 = 1 not(TMP\_523) = 0 TMP\_524 = 1 not(TMP\_524) = 0 TMP\_525 = 2 TMP\_526 = 0 not(TMP\_526) = 1 TMP\_527 = 0 not(TMP\_527) = 1 TMP\_528 = 1 not(TMP\_528) = 0 TMP\_529 = 1 not(TMP\_529) = 0 TMP\_530 = 1 not(TMP\_530) = 0 TMP\_531 = 2 TMP\_532 = 1 not(TMP\_532) = 0 TMP\_533 = 1 not(TMP\_533) = 0 TMP\_534 = 1 not(TMP\_534) = 0 TMP\_535 = 1 not(TMP\_535) = 0 TMP\_536 = 1 not(TMP\_536) = 0 TMP\_537 = 0 not(TMP\_537) = 1 TMP\_538 = 5 TMP\_539 = 0 not(TMP\_539) = 1 TMP\_540 = 0 not(TMP\_540) = 1 TMP\_541 = 0 TMP\_542 = 1 not(TMP\_542) = 0 TMP\_543 = 1 not(TMP\_543) = 0 TMP\_544 = 2 TMP\_545 = 0 not(TMP\_545) = 1 TMP\_546 = 0 not(TMP\_546) = 1 TMP\_547 = 1 not(TMP\_547) = 0 TMP\_548 = 1 not(TMP\_548) = 0 TMP\_549 = 1 not(TMP\_549) = 0 TMP\_550 = 2 TMP\_551 = 1 not(TMP\_551) = 0 TMP\_552 = 0 not(TMP\_552) = 1 TMP\_553 = 1 not(TMP\_553) = 0 TMP\_554 = 1 not(TMP\_554) = 0 TMP\_555 = 1 not(TMP\_555) = 0 TMP\_556 = 0 not(TMP\_556) = 1 TMP\_557 = 4 TMP\_558 = 0 not(TMP\_558) = 1 TMP\_559 = 0 not(TMP\_559) = 1 TMP\_560 = 0 TMP\_561 = 1 not(TMP\_561) = 0 TMP\_562 = 1 not(TMP\_562) = 0 TMP\_563 = 2 TMP\_564 = 0 not(TMP\_564) = 1 TMP\_565 = 0 not(TMP\_565) = 1 TMP\_566 = 1 not(TMP\_566) = 0 TMP\_567 = 1 not(TMP\_567) = 0 TMP\_568 = 1 not(TMP\_568) = 0 TMP\_569 = 2 TMP\_570 = 1 not(TMP\_570) = 0 TMP\_571 = 0 not(TMP\_571) = 1 TMP\_572 = 1 not(TMP\_572) = 0 TMP\_573 = 1 not(TMP\_573) = 0 TMP\_574 = 1 not(TMP\_574) = 0 TMP\_575 = 1 not(TMP\_575) = 0 TMP\_576 = 5 TMP\_577 = 0 not(TMP\_577) = 1 TMP\_578 = 0 not(TMP\_578) = 1 TMP\_579 = 0 TMP\_580 = 1 not(TMP\_580) = 0 TMP\_581 = 1 not(TMP\_581) = 0 TMP\_582 = 2 TMP\_583 = 0 not(TMP\_583) = 1 TMP\_584 = 0 not(TMP\_584) = 1 TMP\_585 = 1 not(TMP\_585) = 0 TMP\_586 = 1 not(TMP\_586) = 0 TMP\_587 = 1 not(TMP\_587) = 0 TMP\_588 = 2 TMP\_589 = 1 not(TMP\_589) = 0 TMP\_590 = 1 not(TMP\_590) = 0 TMP\_591 = 0 not(TMP\_591) = 1 TMP\_592 = 1 not(TMP\_592) = 0 TMP\_593 = 1 not(TMP\_593) = 0 TMP\_594 = 1 not(TMP\_594) = 0 TMP\_595 = 5 TMP\_596 = 0 not(TMP\_596) = 1 TMP\_597 = 0 not(TMP\_597) = 1 TMP\_598 = 0 TMP\_599 = 1 not(TMP\_599) = 0 TMP\_600 = 1 not(TMP\_600) = 0 TMP\_601 = 2 TMP\_602 = 0 not(TMP\_602) = 1 TMP\_603 = 0 not(TMP\_603) = 1 TMP\_604 = 1 not(TMP\_604) = 0 TMP\_605 = 1 not(TMP\_605) = 0 TMP\_606 = 1 not(TMP\_606) = 0 TMP\_607 = 2 TMP\_608 = 1 not(TMP\_608) = 0 TMP\_609 = 0 not(TMP\_609) = 1 TMP\_610 = 1 not(TMP\_610) = 0 TMP\_611 = 1 not(TMP\_611) = 0 TMP\_612 = 1 not(TMP\_612) = 0 TMP\_613 = 1 not(TMP\_613) = 0 TMP\_614 = 5 TMP\_615 = 0 not(TMP\_615) = 1 TMP\_616 = 0 not(TMP\_616) = 1 TMP\_617 = 0 TMP\_618 = 1 not(TMP\_618) = 0 TMP\_619 = 1 not(TMP\_619) = 0 TMP\_620 = 2 TMP\_621 = 0 not(TMP\_621) = 1 TMP\_622 = 0 not(TMP\_622) = 1 TMP\_623 = 1 not(TMP\_623) = 0 TMP\_624 = 1 not(TMP\_624) = 0 TMP\_625 = 1 not(TMP\_625) = 0 TMP\_626 = 2 TMP\_627 = 1 not(TMP\_627) = 0 TMP\_628 = 0 not(TMP\_628) = 1 TMP\_629 = 1 not(TMP\_629) = 0 TMP\_630 = 1 not(TMP\_630) = 0 TMP\_631 = 1 not(TMP\_631) = 0 TMP\_632 = 0 not(TMP\_632) = 1 TMP\_633 = 4 TMP\_634 = 0 not(TMP\_634) = 1 TMP\_635 = 0 not(TMP\_635) = 1 TMP\_636 = 0 TMP\_637 = 1 not(TMP\_637) = 0 TMP\_638 = 1 not(TMP\_638) = 0 TMP\_639 = 2 TMP\_640 = 0 not(TMP\_640) = 1 TMP\_641 = 0 not(TMP\_641) = 1 TMP\_642 = 1 not(TMP\_642) = 0 TMP\_643 = 1 not(TMP\_643) = 0 TMP\_644 = 1 not(TMP\_644) = 0 TMP\_645 = 2 TMP\_646 = 1 not(TMP\_646) = 0 TMP\_647 = 1 not(TMP\_647) = 0 TMP\_648 = 1 not(TMP\_648) = 0 TMP\_649 = 1 not(TMP\_649) = 0 TMP\_650 = 1 not(TMP\_650) = 0 TMP\_651 = 0 not(TMP\_651) = 1 TMP\_652 = 5 TMP\_653 = 0 not(TMP\_653) = 1 TMP\_654 = 0 not(TMP\_654) = 1 TMP\_655 = 0 TMP\_656 = 1 not(TMP\_656) = 0 TMP\_657 = 1 not(TMP\_657) = 0 TMP\_658 = 2 TMP\_659 = 0 not(TMP\_659) = 1 TMP\_660 = 0 not(TMP\_660) = 1 TMP\_661 = 1 not(TMP\_661) = 0 TMP\_662 = 1 not(TMP\_662) = 0 TMP\_663 = 1 not(TMP\_663) = 0 TMP\_664 = 2 Area\_0 = 60 Distance\_0\_Rule\_0 = 20 Distance\_1\_Rule\_0 = 3 Distance\_2\_Rule\_0 = 1 Area\_1 = 174 Distance\_0\_Rule\_1 = 58 Distance\_1\_Rule\_1 = 3 Distance\_2\_Rule\_1 = 1 Area\_2 = 116 Distance\_0\_Rule\_2 = 58 Distance\_1\_Rule\_2 = 2 Distance\_2\_Rule\_2 = 1 Area\_3 = 79 -(Rule\_3\_LB) = 0 Distance\_0\_Rule\_3 = 79 -(Rule\_3\_LB) = 0 Distance\_1\_Rule\_3 = 1 -(Rule\_3\_LB) = 0 Distance\_2\_Rule\_3 = 1 Area\_4 = 123 -(Rule\_4\_LB) = -79 Distance\_0\_Rule\_4 = 41 -(Rule\_4\_LB) = 0 Distance\_1\_Rule\_4 = 3 -(Rule\_4\_LB) = 0 Distance\_2\_Rule\_4 = 1 Area\_5 = 123 -(Rule\_5\_LB) = -79 Distance\_0\_Rule\_5 = 41 -(Rule\_5\_LB) = 0 Distance\_1\_Rule\_5 = 3 -(Rule\_5\_LB) = -1 Distance\_2\_Rule\_5 = 1 Area\_6 = 3 -(Rule\_6\_LB) = -20 Distance\_0\_Rule\_6 = 1 -(Rule\_6\_LB) = 0 Distance\_1\_Rule\_6 = 3 -(Rule\_6\_LB) = -1 Distance\_2\_Rule\_6 = 1 Area\_7 = 42 -(Rule\_7\_LB) = 0 Distance\_0\_Rule\_7 = 21 -(Rule\_7\_LB) = -1 Distance\_1\_Rule\_7 = 2 -(Rule\_7\_LB) = 0 Distance\_2\_Rule\_7 = 1 TMP\_665 = 720 .

- Solution #9 found. 9 Solutions, Resolution 3.185s, 23833 Nodes (7,483.9 n/s), 47604 Backtracks, 23801 Fails, 0 Restarts

Rule\_3\_LB = 0 Rule\_3\_UB = 79 Rule\_3\_LB = 0 Rule\_3\_UB = 1 Rule\_3\_LB = 0 Rule\_3\_UB = 1 Rule\_4\_LB = 79 Rule\_4\_UB = 120 Rule\_4\_LB = 0 Rule\_4\_UB = 3 Rule\_4\_LB = 0 Rule\_4\_UB = 1 Rule\_5\_LB = 79 Rule\_5\_UB = 120 Rule\_5\_LB = 0 Rule\_5\_UB = 3 Rule\_5\_LB = 1 Rule\_5\_UB = 2 Rule\_6\_LB = 20 Rule\_6\_UB = 21 Rule\_6\_LB = 0 Rule\_6\_UB = 3 Rule\_6\_LB = 1 Rule\_6\_UB = 2 Rule\_7\_LB = 0 Rule\_7\_UB = 21 Rule\_7\_LB = 1 Rule\_7\_UB = 3 Rule\_7\_LB = 0 Rule\_7\_UB = 1 Overlaps\_0\_0 = 0 Overlaps\_0\_1 = 0 Overlaps\_0\_2 = 0 Overlaps\_0\_3 = 0 Overlaps\_0\_4 = 0 Overlaps\_0\_5 = 0 Overlaps\_0\_6 = 0 Overlaps\_0\_7 = 0 Overlaps\_1\_0 = 0 Overlaps\_1\_1 = 0 Overlaps\_1\_2 = 0 Overlaps\_1\_3 = 0 Overlaps\_1\_4 = 0 Overlaps\_1\_5 = 0 Overlaps\_1\_6 = 0 Overlaps\_1\_7 = 0 Overlaps\_2\_0 = 0 Overlaps\_2\_1 = 1 Overlaps\_2\_2 = 0 Overlaps\_2\_3 = 0 Overlaps\_2\_4 = 0 Overlaps\_2\_5 = 0 Overlaps\_2\_6 = 0 Overlaps\_2\_7 = 0 Overlaps\_3\_0 = 0 Overlaps\_3\_1 = 0 Overlaps\_3\_2 = 0 Overlaps\_3\_3 = 0 Overlaps\_3\_4 = 0 Overlaps\_3\_5 = 0 Overlaps\_3\_6 = 0 Overlaps\_3\_7 = 0 Overlaps\_4\_0 = 0 Overlaps\_4\_1 = 0 Overlaps\_4\_2 = 0 Overlaps\_4\_3 = 0 Overlaps\_4\_4 = 0 Overlaps\_4\_5 = 0 Overlaps\_4\_6 = 0 Overlaps\_4\_7 = 0 Overlaps\_5\_0 = 0 Overlaps\_5\_1 = 0 Overlaps\_5\_2 = 0 Overlaps\_5\_3 = 0 Overlaps\_5\_4 = 0 Overlaps\_5\_5 = 0 Overlaps\_5\_6 = 0 Overlaps\_5\_7 = 0 Overlaps\_6\_0 = 0 Overlaps\_6\_1 = 0 Overlaps\_6\_2 = 0 Overlaps\_6\_3 = 0 Overlaps\_6\_4 = 0 Overlaps\_6\_5 = 0 Overlaps\_6\_6 = 0 Overlaps\_6\_7 = 0 Overlaps\_7\_0 = 0 Overlaps\_7\_1 = 0 Overlaps\_7\_2 = 0 Overlaps\_7\_3 = 0 Overlaps\_7\_4 = 0 Overlaps\_7\_5 = 0 Overlaps\_7\_6 = 0 Overlaps\_7\_7 = 0 TMP\_0 = 1 not(TMP\_0) = 0 TMP\_1 = 1 not(TMP\_1) = 0 TMP\_2 = 1 not(TMP\_2) = 0 TMP\_3 = 1 not(TMP\_3) = 0 TMP\_4 = 1 not(TMP\_4) = 0 TMP\_5 = 0 not(TMP\_5) = 1 TMP\_6 = 5 TMP\_7 = 0 not(TMP\_7) = 1 TMP\_8 = 0 not(TMP\_8) = 1 TMP\_9 = 0 TMP\_10 = 1 not(TMP\_10) = 0 TMP\_11 = 1 not(TMP\_11) = 0 TMP\_12 = 2 TMP\_13 = 0 not(TMP\_13) = 1 TMP\_14 = 0 not(TMP\_14) = 1 TMP\_15 = 1 not(TMP\_15) = 0 TMP\_16 = 1 not(TMP\_16) = 0 TMP\_17 = 1 not(TMP\_17) = 0 TMP\_18 = 2 TMP\_19 = 1 not(TMP\_19) = 0 TMP\_20 = 1 not(TMP\_20) = 0 TMP\_21 = 1 not(TMP\_21) = 0 TMP\_22 = 1 not(TMP\_22) = 0 TMP\_23 = 1 not(TMP\_23) = 0 TMP\_24 = 0 not(TMP\_24) = 1 TMP\_25 = 5 TMP\_26 = 0 not(TMP\_26) = 1 TMP\_27 = 0 not(TMP\_27) = 1 TMP\_28 = 0 TMP\_29 = 1 not(TMP\_29) = 0 TMP\_30 = 1 not(TMP\_30) = 0 TMP\_31 = 2 TMP\_32 = 0 not(TMP\_32) = 1 TMP\_33 = 0 not(TMP\_33) = 1 TMP\_34 = 1 not(TMP\_34) = 0 TMP\_35 = 1 not(TMP\_35) = 0 TMP\_36 = 1 not(TMP\_36) = 0 TMP\_37 = 2 TMP\_38 = 1 not(TMP\_38) = 0 TMP\_39 = 1 not(TMP\_39) = 0 TMP\_40 = 1 not(TMP\_40) = 0 TMP\_41 = 0 not(TMP\_41) = 1 TMP\_42 = 1 not(TMP\_42) = 0 TMP\_43 = 1 not(TMP\_43) = 0 TMP\_44 = 5 TMP\_45 = 0 not(TMP\_45) = 1 TMP\_46 = 0 not(TMP\_46) = 1 TMP\_47 = 0 TMP\_48 = 1 not(TMP\_48) = 0 TMP\_49 = 1 not(TMP\_49) = 0 TMP\_50 = 2 TMP\_51 = 0 not(TMP\_51) = 1 TMP\_52 = 0 not(TMP\_52) = 1 TMP\_53 = 1 not(TMP\_53) = 0 TMP\_54 = 1 not(TMP\_54) = 0 TMP\_55 = 1 not(TMP\_55) = 0 TMP\_56 = 2 TMP\_57 = 1 not(TMP\_57) = 0 TMP\_58 = 0 not(TMP\_58) = 1 TMP\_59 = 1 not(TMP\_59) = 0 TMP\_60 = 1 not(TMP\_60) = 0 TMP\_61 = 1 not(TMP\_61) = 0 TMP\_62 = 1 not(TMP\_62) = 0 TMP\_63 = 5 TMP\_64 = 0 not(TMP\_64) = 1 TMP\_65 = 0 not(TMP\_65) = 1 TMP\_66 = 0 TMP\_67 = 1 not(TMP\_67) = 0 TMP\_68 = 1 not(TMP\_68) = 0 TMP\_69 = 2 TMP\_70 = 0 not(TMP\_70) = 1 TMP\_71 = 0 not(TMP\_71) = 1 TMP\_72 = 1 not(TMP\_72) = 0 TMP\_73 = 1 not(TMP\_73) = 0 TMP\_74 = 1 not(TMP\_74) = 0 TMP\_75 = 2 TMP\_76 = 1 not(TMP\_76) = 0 TMP\_77 = 0 not(TMP\_77) = 1 TMP\_78 = 1 not(TMP\_78) = 0 TMP\_79 = 1 not(TMP\_79) = 0 TMP\_80 = 1 not(TMP\_80) = 0 TMP\_81 = 0 not(TMP\_81) = 1 TMP\_82 = 4 TMP\_83 = 0 not(TMP\_83) = 1 TMP\_84 = 0 not(TMP\_84) = 1 TMP\_85 = 0 TMP\_86 = 1 not(TMP\_86) = 0 TMP\_87 = 1 not(TMP\_87) = 0 TMP\_88 = 2 TMP\_89 = 0 not(TMP\_89) = 1 TMP\_90 = 0 not(TMP\_90) = 1 TMP\_91 = 1 not(TMP\_91) = 0 TMP\_92 = 1 not(TMP\_92) = 0 TMP\_93 = 1 not(TMP\_93) = 0 TMP\_94 = 2 TMP\_95 = 1 not(TMP\_95) = 0 TMP\_96 = 1 not(TMP\_96) = 0 TMP\_97 = 1 not(TMP\_97) = 0 TMP\_98 = 1 not(TMP\_98) = 0 TMP\_99 = 1 not(TMP\_99) = 0 TMP\_100 = 0 not(TMP\_100) = 1 TMP\_101 = 5 TMP\_102 = 0 not(TMP\_102) = 1 TMP\_103 = 0 not(TMP\_103) = 1 TMP\_104 = 0 TMP\_105 = 1 not(TMP\_105) = 0 TMP\_106 = 1 not(TMP\_106) = 0 TMP\_107 = 2 TMP\_108 = 0 not(TMP\_108) = 1 TMP\_109 = 0 not(TMP\_109) = 1 TMP\_110 = 1 not(TMP\_110) = 0 TMP\_111 = 1 not(TMP\_111) = 0 TMP\_112 = 1 not(TMP\_112) = 0 TMP\_113 = 2 TMP\_114 = 1 not(TMP\_114) = 0 TMP\_115 = 1 not(TMP\_115) = 0 TMP\_116 = 1 not(TMP\_116) = 0 TMP\_117 = 0 not(TMP\_117) = 1 TMP\_118 = 1 not(TMP\_118) = 0 TMP\_119 = 1 not(TMP\_119) = 0 TMP\_120 = 5 TMP\_121 = 0 not(TMP\_121) = 1 TMP\_122 = 0 not(TMP\_122) = 1 TMP\_123 = 0 TMP\_124 = 1 not(TMP\_124) = 0 TMP\_125 = 1 not(TMP\_125) = 0 TMP\_126 = 2 TMP\_127 = 0 not(TMP\_127) = 1 TMP\_128 = 0 not(TMP\_128) = 1 TMP\_129 = 1 not(TMP\_129) = 0 TMP\_130 = 1 not(TMP\_130) = 0 TMP\_131 = 1 not(TMP\_131) = 0 TMP\_132 = 2 TMP\_133 = 0 not(TMP\_133) = 1 TMP\_134 = 1 not(TMP\_134) = 0 TMP\_135 = 1 not(TMP\_135) = 0 TMP\_136 = 1 not(TMP\_136) = 0 TMP\_137 = 1 not(TMP\_137) = 0 TMP\_138 = 0 not(TMP\_138) = 1 TMP\_139 = 4 TMP\_140 = 0 not(TMP\_140) = 1 TMP\_141 = 0 not(TMP\_141) = 1 TMP\_142 = 0 TMP\_143 = 1 not(TMP\_143) = 0 TMP\_144 = 1 not(TMP\_144) = 0 TMP\_145 = 2 TMP\_146 = 0 not(TMP\_146) = 1 TMP\_147 = 0 not(TMP\_147) = 1 TMP\_148 = 1 not(TMP\_148) = 0 TMP\_149 = 1 not(TMP\_149) = 0 TMP\_150 = 1 not(TMP\_150) = 0 TMP\_151 = 2 TMP\_152 = 0 not(TMP\_152) = 1 TMP\_153 = 1 not(TMP\_153) = 0 TMP\_154 = 1 not(TMP\_154) = 0 TMP\_155 = 1 not(TMP\_155) = 0 TMP\_156 = 1 not(TMP\_156) = 0 TMP\_157 = 0 not(TMP\_157) = 1 TMP\_158 = 4 TMP\_159 = 0 not(TMP\_159) = 1 TMP\_160 = 0 not(TMP\_160) = 1 TMP\_161 = 0 TMP\_162 = 1 not(TMP\_162) = 0 TMP\_163 = 1 not(TMP\_163) = 0 TMP\_164 = 2 TMP\_165 = 0 not(TMP\_165) = 1 TMP\_166 = 0 not(TMP\_166) = 1 TMP\_167 = 1 not(TMP\_167) = 0 TMP\_168 = 1 not(TMP\_168) = 0 TMP\_169 = 1 not(TMP\_169) = 0 TMP\_170 = 2 TMP\_171 = 0 not(TMP\_171) = 1 TMP\_172 = 1 not(TMP\_172) = 0 TMP\_173 = 1 not(TMP\_173) = 0 TMP\_174 = 1 not(TMP\_174) = 0 TMP\_175 = 1 not(TMP\_175) = 0 TMP\_176 = 1 not(TMP\_176) = 0 TMP\_177 = 5 TMP\_178 = 0 not(TMP\_178) = 1 TMP\_179 = 0 not(TMP\_179) = 1 TMP\_180 = 0 TMP\_181 = 1 not(TMP\_181) = 0 TMP\_182 = 1 not(TMP\_182) = 0 TMP\_183 = 2 TMP\_184 = 0 not(TMP\_184) = 1 TMP\_185 = 0 not(TMP\_185) = 1 TMP\_186 = 1 not(TMP\_186) = 0 TMP\_187 = 1 not(TMP\_187) = 0 TMP\_188 = 1 not(TMP\_188) = 0 TMP\_189 = 2 TMP\_190 = 0 not(TMP\_190) = 1 TMP\_191 = 1 not(TMP\_191) = 0 TMP\_192 = 1 not(TMP\_192) = 0 TMP\_193 = 1 not(TMP\_193) = 0 TMP\_194 = 1 not(TMP\_194) = 0 TMP\_195 = 1 not(TMP\_195) = 0 TMP\_196 = 5 TMP\_197 = 0 not(TMP\_197) = 1 TMP\_198 = 0 not(TMP\_198) = 1 TMP\_199 = 0 TMP\_200 = 1 not(TMP\_200) = 0 TMP\_201 = 1 not(TMP\_201) = 0 TMP\_202 = 2 TMP\_203 = 0 not(TMP\_203) = 1 TMP\_204 = 0 not(TMP\_204) = 1 TMP\_205 = 1 not(TMP\_205) = 0 TMP\_206 = 1 not(TMP\_206) = 0 TMP\_207 = 1 not(TMP\_207) = 0 TMP\_208 = 2 TMP\_209 = 1 not(TMP\_209) = 0 TMP\_210 = 1 not(TMP\_210) = 0 TMP\_211 = 1 not(TMP\_211) = 0 TMP\_212 = 1 not(TMP\_212) = 0 TMP\_213 = 1 not(TMP\_213) = 0 TMP\_214 = 0 not(TMP\_214) = 1 TMP\_215 = 5 TMP\_216 = 0 not(TMP\_216) = 1 TMP\_217 = 0 not(TMP\_217) = 1 TMP\_218 = 0 TMP\_219 = 1 not(TMP\_219) = 0 TMP\_220 = 1 not(TMP\_220) = 0 TMP\_221 = 2 TMP\_222 = 0 not(TMP\_222) = 1 TMP\_223 = 0 not(TMP\_223) = 1 TMP\_224 = 1 not(TMP\_224) = 0 TMP\_225 = 1 not(TMP\_225) = 0 TMP\_226 = 1 not(TMP\_226) = 0 TMP\_227 = 2 TMP\_228 = 0 not(TMP\_228) = 1 TMP\_229 = 1 not(TMP\_229) = 0 TMP\_230 = 1 not(TMP\_230) = 0 TMP\_231 = 1 not(TMP\_231) = 0 TMP\_232 = 1 not(TMP\_232) = 0 TMP\_233 = 0 not(TMP\_233) = 1 TMP\_234 = 4 TMP\_235 = 0 not(TMP\_235) = 1 TMP\_236 = 0 not(TMP\_236) = 1 TMP\_237 = 0 TMP\_238 = 1 not(TMP\_238) = 0 TMP\_239 = 1 not(TMP\_239) = 0 TMP\_240 = 2 TMP\_241 = 0 not(TMP\_241) = 1 TMP\_242 = 0 not(TMP\_242) = 1 TMP\_243 = 1 not(TMP\_243) = 0 TMP\_244 = 1 not(TMP\_244) = 0 TMP\_245 = 1 not(TMP\_245) = 0 TMP\_246 = 2 TMP\_247 = 0 not(TMP\_247) = 1 TMP\_248 = 1 not(TMP\_248) = 0 TMP\_249 = 1 not(TMP\_249) = 0 TMP\_250 = 1 not(TMP\_250) = 0 TMP\_251 = 1 not(TMP\_251) = 0 TMP\_252 = 1 not(TMP\_252) = 0 TMP\_253 = 5 TMP\_254 = 0 not(TMP\_254) = 1 TMP\_255 = 0 not(TMP\_255) = 1 TMP\_256 = 0 TMP\_257 = 1 not(TMP\_257) = 0 TMP\_258 = 1 not(TMP\_258) = 0 TMP\_259 = 2 TMP\_260 = 0 not(TMP\_260) = 1 TMP\_261 = 0 not(TMP\_261) = 1 TMP\_262 = 1 not(TMP\_262) = 0 TMP\_263 = 1 not(TMP\_263) = 0 TMP\_264 = 1 not(TMP\_264) = 0 TMP\_265 = 2 TMP\_266 = 0 not(TMP\_266) = 1 TMP\_267 = 1 not(TMP\_267) = 0 TMP\_268 = 1 not(TMP\_268) = 0 TMP\_269 = 1 not(TMP\_269) = 0 TMP\_270 = 1 not(TMP\_270) = 0 TMP\_271 = 1 not(TMP\_271) = 0 TMP\_272 = 5 TMP\_273 = 0 not(TMP\_273) = 1 TMP\_274 = 0 not(TMP\_274) = 1 TMP\_275 = 0 TMP\_276 = 1 not(TMP\_276) = 0 TMP\_277 = 1 not(TMP\_277) = 0 TMP\_278 = 2 TMP\_279 = 0 not(TMP\_279) = 1 TMP\_280 = 0 not(TMP\_280) = 1 TMP\_281 = 1 not(TMP\_281) = 0 TMP\_282 = 1 not(TMP\_282) = 0 TMP\_283 = 1 not(TMP\_283) = 0 TMP\_284 = 2 TMP\_285 = 0 not(TMP\_285) = 1 TMP\_286 = 1 not(TMP\_286) = 0 TMP\_287 = 1 not(TMP\_287) = 0 TMP\_288 = 1 not(TMP\_288) = 0 TMP\_289 = 1 not(TMP\_289) = 0 TMP\_290 = 1 not(TMP\_290) = 0 TMP\_291 = 5 TMP\_292 = 0 not(TMP\_292) = 1 TMP\_293 = 0 not(TMP\_293) = 1 TMP\_294 = 0 TMP\_295 = 1 not(TMP\_295) = 0 TMP\_296 = 1 not(TMP\_296) = 0 TMP\_297 = 2 TMP\_298 = 0 not(TMP\_298) = 1 TMP\_299 = 0 not(TMP\_299) = 1 TMP\_300 = 1 not(TMP\_300) = 0 TMP\_301 = 1 not(TMP\_301) = 0 TMP\_302 = 1 not(TMP\_302) = 0 TMP\_303 = 2 TMP\_304 = 0 not(TMP\_304) = 1 TMP\_305 = 1 not(TMP\_305) = 0 TMP\_306 = 1 not(TMP\_306) = 0 TMP\_307 = 1 not(TMP\_307) = 0 TMP\_308 = 0 not(TMP\_308) = 1 TMP\_309 = 1 not(TMP\_309) = 0 TMP\_310 = 4 TMP\_311 = 0 not(TMP\_311) = 1 TMP\_312 = 0 not(TMP\_312) = 1 TMP\_313 = 0 TMP\_314 = 1 not(TMP\_314) = 0 TMP\_315 = 1 not(TMP\_315) = 0 TMP\_316 = 2 TMP\_317 = 0 not(TMP\_317) = 1 TMP\_318 = 0 not(TMP\_318) = 1 TMP\_319 = 1 not(TMP\_319) = 0 TMP\_320 = 1 not(TMP\_320) = 0 TMP\_321 = 1 not(TMP\_321) = 0 TMP\_322 = 2 TMP\_323 = 0 not(TMP\_323) = 1 TMP\_324 = 1 not(TMP\_324) = 0 TMP\_325 = 1 not(TMP\_325) = 0 TMP\_326 = 1 not(TMP\_326) = 0 TMP\_327 = 0 not(TMP\_327) = 1 TMP\_328 = 1 not(TMP\_328) = 0 TMP\_329 = 4 TMP\_330 = 0 not(TMP\_330) = 1 TMP\_331 = 0 not(TMP\_331) = 1 TMP\_332 = 0 TMP\_333 = 1 not(TMP\_333) = 0 TMP\_334 = 1 not(TMP\_334) = 0 TMP\_335 = 2 TMP\_336 = 0 not(TMP\_336) = 1 TMP\_337 = 0 not(TMP\_337) = 1 TMP\_338 = 1 not(TMP\_338) = 0 TMP\_339 = 1 not(TMP\_339) = 0 TMP\_340 = 1 not(TMP\_340) = 0 TMP\_341 = 2 TMP\_342 = 1 not(TMP\_342) = 0 TMP\_343 = 1 not(TMP\_343) = 0 TMP\_344 = 1 not(TMP\_344) = 0 TMP\_345 = 1 not(TMP\_345) = 0 TMP\_346 = 0 not(TMP\_346) = 1 TMP\_347 = 1 not(TMP\_347) = 0 TMP\_348 = 5 TMP\_349 = 0 not(TMP\_349) = 1 TMP\_350 = 0 not(TMP\_350) = 1 TMP\_351 = 0 TMP\_352 = 1 not(TMP\_352) = 0 TMP\_353 = 1 not(TMP\_353) = 0 TMP\_354 = 2 TMP\_355 = 0 not(TMP\_355) = 1 TMP\_356 = 0 not(TMP\_356) = 1 TMP\_357 = 1 not(TMP\_357) = 0 TMP\_358 = 1 not(TMP\_358) = 0 TMP\_359 = 1 not(TMP\_359) = 0 TMP\_360 = 2 TMP\_361 = 0 not(TMP\_361) = 1 TMP\_362 = 1 not(TMP\_362) = 0 TMP\_363 = 1 not(TMP\_363) = 0 TMP\_364 = 1 not(TMP\_364) = 0 TMP\_365 = 1 not(TMP\_365) = 0 TMP\_366 = 1 not(TMP\_366) = 0 TMP\_367 = 5 TMP\_368 = 0 not(TMP\_368) = 1 TMP\_369 = 0 not(TMP\_369) = 1 TMP\_370 = 0 TMP\_371 = 1 not(TMP\_371) = 0 TMP\_372 = 1 not(TMP\_372) = 0 TMP\_373 = 2 TMP\_374 = 0 not(TMP\_374) = 1 TMP\_375 = 0 not(TMP\_375) = 1 TMP\_376 = 1 not(TMP\_376) = 0 TMP\_377 = 1 not(TMP\_377) = 0 TMP\_378 = 1 not(TMP\_378) = 0 TMP\_379 = 2 TMP\_380 = 0 not(TMP\_380) = 1 TMP\_381 = 1 not(TMP\_381) = 0 TMP\_382 = 1 not(TMP\_382) = 0 TMP\_383 = 1 not(TMP\_383) = 0 TMP\_384 = 0 not(TMP\_384) = 1 TMP\_385 = 1 not(TMP\_385) = 0 TMP\_386 = 4 TMP\_387 = 0 not(TMP\_387) = 1 TMP\_388 = 0 not(TMP\_388) = 1 TMP\_389 = 0 TMP\_390 = 1 not(TMP\_390) = 0 TMP\_391 = 1 not(TMP\_391) = 0 TMP\_392 = 2 TMP\_393 = 0 not(TMP\_393) = 1 TMP\_394 = 0 not(TMP\_394) = 1 TMP\_395 = 1 not(TMP\_395) = 0 TMP\_396 = 1 not(TMP\_396) = 0 TMP\_397 = 1 not(TMP\_397) = 0 TMP\_398 = 2 TMP\_399 = 0 not(TMP\_399) = 1 TMP\_400 = 1 not(TMP\_400) = 0 TMP\_401 = 1 not(TMP\_401) = 0 TMP\_402 = 1 not(TMP\_402) = 0 TMP\_403 = 1 not(TMP\_403) = 0 TMP\_404 = 1 not(TMP\_404) = 0 TMP\_405 = 5 TMP\_406 = 0 not(TMP\_406) = 1 TMP\_407 = 0 not(TMP\_407) = 1 TMP\_408 = 0 TMP\_409 = 1 not(TMP\_409) = 0 TMP\_410 = 1 not(TMP\_410) = 0 TMP\_411 = 2 TMP\_412 = 0 not(TMP\_412) = 1 TMP\_413 = 0 not(TMP\_413) = 1 TMP\_414 = 1 not(TMP\_414) = 0 TMP\_415 = 1 not(TMP\_415) = 0 TMP\_416 = 1 not(TMP\_416) = 0 TMP\_417 = 2 TMP\_418 = 1 not(TMP\_418) = 0 TMP\_419 = 0 not(TMP\_419) = 1 TMP\_420 = 1 not(TMP\_420) = 0 TMP\_421 = 1 not(TMP\_421) = 0 TMP\_422 = 1 not(TMP\_422) = 0 TMP\_423 = 1 not(TMP\_423) = 0 TMP\_424 = 5 TMP\_425 = 0 not(TMP\_425) = 1 TMP\_426 = 0 not(TMP\_426) = 1 TMP\_427 = 0 TMP\_428 = 1 not(TMP\_428) = 0 TMP\_429 = 1 not(TMP\_429) = 0 TMP\_430 = 2 TMP\_431 = 0 not(TMP\_431) = 1 TMP\_432 = 0 not(TMP\_432) = 1 TMP\_433 = 1 not(TMP\_433) = 0 TMP\_434 = 1 not(TMP\_434) = 0 TMP\_435 = 1 not(TMP\_435) = 0 TMP\_436 = 2 TMP\_437 = 1 not(TMP\_437) = 0 TMP\_438 = 0 not(TMP\_438) = 1 TMP\_439 = 1 not(TMP\_439) = 0 TMP\_440 = 1 not(TMP\_440) = 0 TMP\_441 = 0 not(TMP\_441) = 1 TMP\_442 = 1 not(TMP\_442) = 0 TMP\_443 = 4 TMP\_444 = 0 not(TMP\_444) = 1 TMP\_445 = 0 not(TMP\_445) = 1 TMP\_446 = 0 TMP\_447 = 1 not(TMP\_447) = 0 TMP\_448 = 1 not(TMP\_448) = 0 TMP\_449 = 2 TMP\_450 = 0 not(TMP\_450) = 1 TMP\_451 = 0 not(TMP\_451) = 1 TMP\_452 = 1 not(TMP\_452) = 0 TMP\_453 = 1 not(TMP\_453) = 0 TMP\_454 = 1 not(TMP\_454) = 0 TMP\_455 = 2 TMP\_456 = 1 not(TMP\_456) = 0 TMP\_457 = 1 not(TMP\_457) = 0 TMP\_458 = 1 not(TMP\_458) = 0 TMP\_459 = 1 not(TMP\_459) = 0 TMP\_460 = 0 not(TMP\_460) = 1 TMP\_461 = 1 not(TMP\_461) = 0 TMP\_462 = 5 TMP\_463 = 0 not(TMP\_463) = 1 TMP\_464 = 0 not(TMP\_464) = 1 TMP\_465 = 0 TMP\_466 = 1 not(TMP\_466) = 0 TMP\_467 = 1 not(TMP\_467) = 0 TMP\_468 = 2 TMP\_469 = 0 not(TMP\_469) = 1 TMP\_470 = 0 not(TMP\_470) = 1 TMP\_471 = 1 not(TMP\_471) = 0 TMP\_472 = 1 not(TMP\_472) = 0 TMP\_473 = 1 not(TMP\_473) = 0 TMP\_474 = 2 TMP\_475 = 1 not(TMP\_475) = 0 TMP\_476 = 0 not(TMP\_476) = 1 TMP\_477 = 1 not(TMP\_477) = 0 TMP\_478 = 1 not(TMP\_478) = 0 TMP\_479 = 0 not(TMP\_479) = 1 TMP\_480 = 1 not(TMP\_480) = 0 TMP\_481 = 4 TMP\_482 = 0 not(TMP\_482) = 1 TMP\_483 = 0 not(TMP\_483) = 1 TMP\_484 = 0 TMP\_485 = 1 not(TMP\_485) = 0 TMP\_486 = 1 not(TMP\_486) = 0 TMP\_487 = 2 TMP\_488 = 0 not(TMP\_488) = 1 TMP\_489 = 0 not(TMP\_489) = 1 TMP\_490 = 1 not(TMP\_490) = 0 TMP\_491 = 1 not(TMP\_491) = 0 TMP\_492 = 1 not(TMP\_492) = 0 TMP\_493 = 2 TMP\_494 = 1 not(TMP\_494) = 0 TMP\_495 = 0 not(TMP\_495) = 1 TMP\_496 = 1 not(TMP\_496) = 0 TMP\_497 = 1 not(TMP\_497) = 0 TMP\_498 = 1 not(TMP\_498) = 0 TMP\_499 = 1 not(TMP\_499) = 0 TMP\_500 = 5 TMP\_501 = 0 not(TMP\_501) = 1 TMP\_502 = 0 not(TMP\_502) = 1 TMP\_503 = 0 TMP\_504 = 1 not(TMP\_504) = 0 TMP\_505 = 1 not(TMP\_505) = 0 TMP\_506 = 2 TMP\_507 = 0 not(TMP\_507) = 1 TMP\_508 = 0 not(TMP\_508) = 1 TMP\_509 = 1 not(TMP\_509) = 0 TMP\_510 = 1 not(TMP\_510) = 0 TMP\_511 = 1 not(TMP\_511) = 0 TMP\_512 = 2 TMP\_513 = 1 not(TMP\_513) = 0 TMP\_514 = 1 not(TMP\_514) = 0 TMP\_515 = 1 not(TMP\_515) = 0 TMP\_516 = 1 not(TMP\_516) = 0 TMP\_517 = 0 not(TMP\_517) = 1 TMP\_518 = 1 not(TMP\_518) = 0 TMP\_519 = 5 TMP\_520 = 0 not(TMP\_520) = 1 TMP\_521 = 0 not(TMP\_521) = 1 TMP\_522 = 0 TMP\_523 = 1 not(TMP\_523) = 0 TMP\_524 = 1 not(TMP\_524) = 0 TMP\_525 = 2 TMP\_526 = 0 not(TMP\_526) = 1 TMP\_527 = 0 not(TMP\_527) = 1 TMP\_528 = 1 not(TMP\_528) = 0 TMP\_529 = 1 not(TMP\_529) = 0 TMP\_530 = 1 not(TMP\_530) = 0 TMP\_531 = 2 TMP\_532 = 1 not(TMP\_532) = 0 TMP\_533 = 1 not(TMP\_533) = 0 TMP\_534 = 1 not(TMP\_534) = 0 TMP\_535 = 1 not(TMP\_535) = 0 TMP\_536 = 1 not(TMP\_536) = 0 TMP\_537 = 0 not(TMP\_537) = 1 TMP\_538 = 5 TMP\_539 = 0 not(TMP\_539) = 1 TMP\_540 = 0 not(TMP\_540) = 1 TMP\_541 = 0 TMP\_542 = 1 not(TMP\_542) = 0 TMP\_543 = 1 not(TMP\_543) = 0 TMP\_544 = 2 TMP\_545 = 0 not(TMP\_545) = 1 TMP\_546 = 0 not(TMP\_546) = 1 TMP\_547 = 1 not(TMP\_547) = 0 TMP\_548 = 1 not(TMP\_548) = 0 TMP\_549 = 1 not(TMP\_549) = 0 TMP\_550 = 2 TMP\_551 = 1 not(TMP\_551) = 0 TMP\_552 = 0 not(TMP\_552) = 1 TMP\_553 = 1 not(TMP\_553) = 0 TMP\_554 = 1 not(TMP\_554) = 0 TMP\_555 = 1 not(TMP\_555) = 0 TMP\_556 = 0 not(TMP\_556) = 1 TMP\_557 = 4 TMP\_558 = 0 not(TMP\_558) = 1 TMP\_559 = 0 not(TMP\_559) = 1 TMP\_560 = 0 TMP\_561 = 1 not(TMP\_561) = 0 TMP\_562 = 1 not(TMP\_562) = 0 TMP\_563 = 2 TMP\_564 = 0 not(TMP\_564) = 1 TMP\_565 = 0 not(TMP\_565) = 1 TMP\_566 = 1 not(TMP\_566) = 0 TMP\_567 = 1 not(TMP\_567) = 0 TMP\_568 = 1 not(TMP\_568) = 0 TMP\_569 = 2 TMP\_570 = 1 not(TMP\_570) = 0 TMP\_571 = 0 not(TMP\_571) = 1 TMP\_572 = 1 not(TMP\_572) = 0 TMP\_573 = 1 not(TMP\_573) = 0 TMP\_574 = 1 not(TMP\_574) = 0 TMP\_575 = 1 not(TMP\_575) = 0 TMP\_576 = 5 TMP\_577 = 0 not(TMP\_577) = 1 TMP\_578 = 0 not(TMP\_578) = 1 TMP\_579 = 0 TMP\_580 = 1 not(TMP\_580) = 0 TMP\_581 = 1 not(TMP\_581) = 0 TMP\_582 = 2 TMP\_583 = 0 not(TMP\_583) = 1 TMP\_584 = 0 not(TMP\_584) = 1 TMP\_585 = 1 not(TMP\_585) = 0 TMP\_586 = 1 not(TMP\_586) = 0 TMP\_587 = 1 not(TMP\_587) = 0 TMP\_588 = 2 TMP\_589 = 1 not(TMP\_589) = 0 TMP\_590 = 1 not(TMP\_590) = 0 TMP\_591 = 0 not(TMP\_591) = 1 TMP\_592 = 1 not(TMP\_592) = 0 TMP\_593 = 1 not(TMP\_593) = 0 TMP\_594 = 1 not(TMP\_594) = 0 TMP\_595 = 5 TMP\_596 = 0 not(TMP\_596) = 1 TMP\_597 = 0 not(TMP\_597) = 1 TMP\_598 = 0 TMP\_599 = 1 not(TMP\_599) = 0 TMP\_600 = 1 not(TMP\_600) = 0 TMP\_601 = 2 TMP\_602 = 0 not(TMP\_602) = 1 TMP\_603 = 0 not(TMP\_603) = 1 TMP\_604 = 1 not(TMP\_604) = 0 TMP\_605 = 1 not(TMP\_605) = 0 TMP\_606 = 1 not(TMP\_606) = 0 TMP\_607 = 2 TMP\_608 = 1 not(TMP\_608) = 0 TMP\_609 = 0 not(TMP\_609) = 1 TMP\_610 = 1 not(TMP\_610) = 0 TMP\_611 = 1 not(TMP\_611) = 0 TMP\_612 = 1 not(TMP\_612) = 0 TMP\_613 = 1 not(TMP\_613) = 0 TMP\_614 = 5 TMP\_615 = 0 not(TMP\_615) = 1 TMP\_616 = 0 not(TMP\_616) = 1 TMP\_617 = 0 TMP\_618 = 1 not(TMP\_618) = 0 TMP\_619 = 1 not(TMP\_619) = 0 TMP\_620 = 2 TMP\_621 = 0 not(TMP\_621) = 1 TMP\_622 = 0 not(TMP\_622) = 1 TMP\_623 = 1 not(TMP\_623) = 0 TMP\_624 = 1 not(TMP\_624) = 0 TMP\_625 = 1 not(TMP\_625) = 0 TMP\_626 = 2 TMP\_627 = 1 not(TMP\_627) = 0 TMP\_628 = 0 not(TMP\_628) = 1 TMP\_629 = 1 not(TMP\_629) = 0 TMP\_630 = 1 not(TMP\_630) = 0 TMP\_631 = 1 not(TMP\_631) = 0 TMP\_632 = 0 not(TMP\_632) = 1 TMP\_633 = 4 TMP\_634 = 0 not(TMP\_634) = 1 TMP\_635 = 0 not(TMP\_635) = 1 TMP\_636 = 0 TMP\_637 = 1 not(TMP\_637) = 0 TMP\_638 = 1 not(TMP\_638) = 0 TMP\_639 = 2 TMP\_640 = 0 not(TMP\_640) = 1 TMP\_641 = 0 not(TMP\_641) = 1 TMP\_642 = 1 not(TMP\_642) = 0 TMP\_643 = 1 not(TMP\_643) = 0 TMP\_644 = 1 not(TMP\_644) = 0 TMP\_645 = 2 TMP\_646 = 1 not(TMP\_646) = 0 TMP\_647 = 1 not(TMP\_647) = 0 TMP\_648 = 1 not(TMP\_648) = 0 TMP\_649 = 1 not(TMP\_649) = 0 TMP\_650 = 1 not(TMP\_650) = 0 TMP\_651 = 0 not(TMP\_651) = 1 TMP\_652 = 5 TMP\_653 = 0 not(TMP\_653) = 1 TMP\_654 = 0 not(TMP\_654) = 1 TMP\_655 = 0 TMP\_656 = 1 not(TMP\_656) = 0 TMP\_657 = 1 not(TMP\_657) = 0 TMP\_658 = 2 TMP\_659 = 0 not(TMP\_659) = 1 TMP\_660 = 0 not(TMP\_660) = 1 TMP\_661 = 1 not(TMP\_661) = 0 TMP\_662 = 1 not(TMP\_662) = 0 TMP\_663 = 1 not(TMP\_663) = 0 TMP\_664 = 2 Area\_0 = 60 Distance\_0\_Rule\_0 = 20 Distance\_1\_Rule\_0 = 3 Distance\_2\_Rule\_0 = 1 Area\_1 = 174 Distance\_0\_Rule\_1 = 58 Distance\_1\_Rule\_1 = 3 Distance\_2\_Rule\_1 = 1 Area\_2 = 116 Distance\_0\_Rule\_2 = 58 Distance\_1\_Rule\_2 = 2 Distance\_2\_Rule\_2 = 1 Area\_3 = 79 -(Rule\_3\_LB) = 0 Distance\_0\_Rule\_3 = 79 -(Rule\_3\_LB) = 0 Distance\_1\_Rule\_3 = 1 -(Rule\_3\_LB) = 0 Distance\_2\_Rule\_3 = 1 Area\_4 = 123 -(Rule\_4\_LB) = -79 Distance\_0\_Rule\_4 = 41 -(Rule\_4\_LB) = 0 Distance\_1\_Rule\_4 = 3 -(Rule\_4\_LB) = 0 Distance\_2\_Rule\_4 = 1 Area\_5 = 123 -(Rule\_5\_LB) = -79 Distance\_0\_Rule\_5 = 41 -(Rule\_5\_LB) = 0 Distance\_1\_Rule\_5 = 3 -(Rule\_5\_LB) = -1 Distance\_2\_Rule\_5 = 1 Area\_6 = 3 -(Rule\_6\_LB) = -20 Distance\_0\_Rule\_6 = 1 -(Rule\_6\_LB) = 0 Distance\_1\_Rule\_6 = 3 -(Rule\_6\_LB) = -1 Distance\_2\_Rule\_6 = 1 Area\_7 = 42 -(Rule\_7\_LB) = 0 Distance\_0\_Rule\_7 = 21 -(Rule\_7\_LB) = -1 Distance\_1\_Rule\_7 = 2 -(Rule\_7\_LB) = 0 Distance\_2\_Rule\_7 = 1 TMP\_665 = 720 .

- Solution #10 found. 10 Solutions, Resolution 3.189s, 23834 Nodes (7,474.7 n/s), 47605 Backtracks, 23801 Fails, 0 Restarts

Rule\_3\_LB = 0 Rule\_3\_UB = 79 Rule\_3\_LB = 0 Rule\_3\_UB = 1 Rule\_3\_LB = 0 Rule\_3\_UB = 1 Rule\_4\_LB = 79 Rule\_4\_UB = 120 Rule\_4\_LB = 0 Rule\_4\_UB = 3 Rule\_4\_LB = 0 Rule\_4\_UB = 1 Rule\_5\_LB = 79 Rule\_5\_UB = 120 Rule\_5\_LB = 0 Rule\_5\_UB = 3 Rule\_5\_LB = 1 Rule\_5\_UB = 2 Rule\_6\_LB = 20 Rule\_6\_UB = 21 Rule\_6\_LB = 0 Rule\_6\_UB = 3 Rule\_6\_LB = 1 Rule\_6\_UB = 2 Rule\_7\_LB = 0 Rule\_7\_UB = 21 Rule\_7\_LB = 1 Rule\_7\_UB = 3 Rule\_7\_LB = 0 Rule\_7\_UB = 1 Overlaps\_0\_0 = 0 Overlaps\_0\_1 = 0 Overlaps\_0\_2 = 0 Overlaps\_0\_3 = 0 Overlaps\_0\_4 = 0 Overlaps\_0\_5 = 0 Overlaps\_0\_6 = 0 Overlaps\_0\_7 = 0 Overlaps\_1\_0 = 0 Overlaps\_1\_1 = 0 Overlaps\_1\_2 = 1 Overlaps\_1\_3 = 0 Overlaps\_1\_4 = 0 Overlaps\_1\_5 = 0 Overlaps\_1\_6 = 0 Overlaps\_1\_7 = 0 Overlaps\_2\_0 = 0 Overlaps\_2\_1 = 1 Overlaps\_2\_2 = 0 Overlaps\_2\_3 = 0 Overlaps\_2\_4 = 0 Overlaps\_2\_5 = 0 Overlaps\_2\_6 = 0 Overlaps\_2\_7 = 0 Overlaps\_3\_0 = 0 Overlaps\_3\_1 = 0 Overlaps\_3\_2 = 0 Overlaps\_3\_3 = 0 Overlaps\_3\_4 = 0 Overlaps\_3\_5 = 0 Overlaps\_3\_6 = 0 Overlaps\_3\_7 = 0 Overlaps\_4\_0 = 0 Overlaps\_4\_1 = 0 Overlaps\_4\_2 = 0 Overlaps\_4\_3 = 0 Overlaps\_4\_4 = 0 Overlaps\_4\_5 = 0 Overlaps\_4\_6 = 0 Overlaps\_4\_7 = 0 Overlaps\_5\_0 = 0 Overlaps\_5\_1 = 0 Overlaps\_5\_2 = 0 Overlaps\_5\_3 = 0 Overlaps\_5\_4 = 0 Overlaps\_5\_5 = 0 Overlaps\_5\_6 = 0 Overlaps\_5\_7 = 0 Overlaps\_6\_0 = 0 Overlaps\_6\_1 = 0 Overlaps\_6\_2 = 0 Overlaps\_6\_3 = 0 Overlaps\_6\_4 = 0 Overlaps\_6\_5 = 0 Overlaps\_6\_6 = 0 Overlaps\_6\_7 = 0 Overlaps\_7\_0 = 0 Overlaps\_7\_1 = 0 Overlaps\_7\_2 = 0 Overlaps\_7\_3 = 0 Overlaps\_7\_4 = 0 Overlaps\_7\_5 = 0 Overlaps\_7\_6 = 0 Overlaps\_7\_7 = 0 TMP\_0 = 1 not(TMP\_0) = 0 TMP\_1 = 1 not(TMP\_1) = 0 TMP\_2 = 1 not(TMP\_2) = 0 TMP\_3 = 1 not(TMP\_3) = 0 TMP\_4 = 1 not(TMP\_4) = 0 TMP\_5 = 0 not(TMP\_5) = 1 TMP\_6 = 5 TMP\_7 = 0 not(TMP\_7) = 1 TMP\_8 = 0 not(TMP\_8) = 1 TMP\_9 = 0 TMP\_10 = 1 not(TMP\_10) = 0 TMP\_11 = 1 not(TMP\_11) = 0 TMP\_12 = 2 TMP\_13 = 0 not(TMP\_13) = 1 TMP\_14 = 0 not(TMP\_14) = 1 TMP\_15 = 1 not(TMP\_15) = 0 TMP\_16 = 1 not(TMP\_16) = 0 TMP\_17 = 1 not(TMP\_17) = 0 TMP\_18 = 2 TMP\_19 = 1 not(TMP\_19) = 0 TMP\_20 = 1 not(TMP\_20) = 0 TMP\_21 = 1 not(TMP\_21) = 0 TMP\_22 = 1 not(TMP\_22) = 0 TMP\_23 = 1 not(TMP\_23) = 0 TMP\_24 = 0 not(TMP\_24) = 1 TMP\_25 = 5 TMP\_26 = 0 not(TMP\_26) = 1 TMP\_27 = 0 not(TMP\_27) = 1 TMP\_28 = 0 TMP\_29 = 1 not(TMP\_29) = 0 TMP\_30 = 1 not(TMP\_30) = 0 TMP\_31 = 2 TMP\_32 = 0 not(TMP\_32) = 1 TMP\_33 = 0 not(TMP\_33) = 1 TMP\_34 = 1 not(TMP\_34) = 0 TMP\_35 = 1 not(TMP\_35) = 0 TMP\_36 = 1 not(TMP\_36) = 0 TMP\_37 = 2 TMP\_38 = 1 not(TMP\_38) = 0 TMP\_39 = 1 not(TMP\_39) = 0 TMP\_40 = 1 not(TMP\_40) = 0 TMP\_41 = 0 not(TMP\_41) = 1 TMP\_42 = 1 not(TMP\_42) = 0 TMP\_43 = 1 not(TMP\_43) = 0 TMP\_44 = 5 TMP\_45 = 0 not(TMP\_45) = 1 TMP\_46 = 0 not(TMP\_46) = 1 TMP\_47 = 0 TMP\_48 = 1 not(TMP\_48) = 0 TMP\_49 = 1 not(TMP\_49) = 0 TMP\_50 = 2 TMP\_51 = 0 not(TMP\_51) = 1 TMP\_52 = 0 not(TMP\_52) = 1 TMP\_53 = 1 not(TMP\_53) = 0 TMP\_54 = 1 not(TMP\_54) = 0 TMP\_55 = 1 not(TMP\_55) = 0 TMP\_56 = 2 TMP\_57 = 1 not(TMP\_57) = 0 TMP\_58 = 0 not(TMP\_58) = 1 TMP\_59 = 1 not(TMP\_59) = 0 TMP\_60 = 1 not(TMP\_60) = 0 TMP\_61 = 1 not(TMP\_61) = 0 TMP\_62 = 1 not(TMP\_62) = 0 TMP\_63 = 5 TMP\_64 = 0 not(TMP\_64) = 1 TMP\_65 = 0 not(TMP\_65) = 1 TMP\_66 = 0 TMP\_67 = 1 not(TMP\_67) = 0 TMP\_68 = 1 not(TMP\_68) = 0 TMP\_69 = 2 TMP\_70 = 0 not(TMP\_70) = 1 TMP\_71 = 0 not(TMP\_71) = 1 TMP\_72 = 1 not(TMP\_72) = 0 TMP\_73 = 1 not(TMP\_73) = 0 TMP\_74 = 1 not(TMP\_74) = 0 TMP\_75 = 2 TMP\_76 = 1 not(TMP\_76) = 0 TMP\_77 = 0 not(TMP\_77) = 1 TMP\_78 = 1 not(TMP\_78) = 0 TMP\_79 = 1 not(TMP\_79) = 0 TMP\_80 = 1 not(TMP\_80) = 0 TMP\_81 = 0 not(TMP\_81) = 1 TMP\_82 = 4 TMP\_83 = 0 not(TMP\_83) = 1 TMP\_84 = 0 not(TMP\_84) = 1 TMP\_85 = 0 TMP\_86 = 1 not(TMP\_86) = 0 TMP\_87 = 1 not(TMP\_87) = 0 TMP\_88 = 2 TMP\_89 = 0 not(TMP\_89) = 1 TMP\_90 = 0 not(TMP\_90) = 1 TMP\_91 = 1 not(TMP\_91) = 0 TMP\_92 = 1 not(TMP\_92) = 0 TMP\_93 = 1 not(TMP\_93) = 0 TMP\_94 = 2 TMP\_95 = 1 not(TMP\_95) = 0 TMP\_96 = 1 not(TMP\_96) = 0 TMP\_97 = 1 not(TMP\_97) = 0 TMP\_98 = 1 not(TMP\_98) = 0 TMP\_99 = 1 not(TMP\_99) = 0 TMP\_100 = 0 not(TMP\_100) = 1 TMP\_101 = 5 TMP\_102 = 0 not(TMP\_102) = 1 TMP\_103 = 0 not(TMP\_103) = 1 TMP\_104 = 0 TMP\_105 = 1 not(TMP\_105) = 0 TMP\_106 = 1 not(TMP\_106) = 0 TMP\_107 = 2 TMP\_108 = 0 not(TMP\_108) = 1 TMP\_109 = 0 not(TMP\_109) = 1 TMP\_110 = 1 not(TMP\_110) = 0 TMP\_111 = 1 not(TMP\_111) = 0 TMP\_112 = 1 not(TMP\_112) = 0 TMP\_113 = 2 TMP\_114 = 1 not(TMP\_114) = 0 TMP\_115 = 1 not(TMP\_115) = 0 TMP\_116 = 1 not(TMP\_116) = 0 TMP\_117 = 0 not(TMP\_117) = 1 TMP\_118 = 1 not(TMP\_118) = 0 TMP\_119 = 1 not(TMP\_119) = 0 TMP\_120 = 5 TMP\_121 = 0 not(TMP\_121) = 1 TMP\_122 = 0 not(TMP\_122) = 1 TMP\_123 = 0 TMP\_124 = 1 not(TMP\_124) = 0 TMP\_125 = 1 not(TMP\_125) = 0 TMP\_126 = 2 TMP\_127 = 0 not(TMP\_127) = 1 TMP\_128 = 0 not(TMP\_128) = 1 TMP\_129 = 1 not(TMP\_129) = 0 TMP\_130 = 1 not(TMP\_130) = 0 TMP\_131 = 1 not(TMP\_131) = 0 TMP\_132 = 2 TMP\_133 = 0 not(TMP\_133) = 1 TMP\_134 = 1 not(TMP\_134) = 0 TMP\_135 = 1 not(TMP\_135) = 0 TMP\_136 = 1 not(TMP\_136) = 0 TMP\_137 = 1 not(TMP\_137) = 0 TMP\_138 = 0 not(TMP\_138) = 1 TMP\_139 = 4 TMP\_140 = 0 not(TMP\_140) = 1 TMP\_141 = 0 not(TMP\_141) = 1 TMP\_142 = 0 TMP\_143 = 1 not(TMP\_143) = 0 TMP\_144 = 1 not(TMP\_144) = 0 TMP\_145 = 2 TMP\_146 = 0 not(TMP\_146) = 1 TMP\_147 = 0 not(TMP\_147) = 1 TMP\_148 = 1 not(TMP\_148) = 0 TMP\_149 = 1 not(TMP\_149) = 0 TMP\_150 = 1 not(TMP\_150) = 0 TMP\_151 = 2 TMP\_152 = 0 not(TMP\_152) = 1 TMP\_153 = 1 not(TMP\_153) = 0 TMP\_154 = 1 not(TMP\_154) = 0 TMP\_155 = 1 not(TMP\_155) = 0 TMP\_156 = 1 not(TMP\_156) = 0 TMP\_157 = 0 not(TMP\_157) = 1 TMP\_158 = 4 TMP\_159 = 0 not(TMP\_159) = 1 TMP\_160 = 0 not(TMP\_160) = 1 TMP\_161 = 0 TMP\_162 = 1 not(TMP\_162) = 0 TMP\_163 = 1 not(TMP\_163) = 0 TMP\_164 = 2 TMP\_165 = 0 not(TMP\_165) = 1 TMP\_166 = 0 not(TMP\_166) = 1 TMP\_167 = 1 not(TMP\_167) = 0 TMP\_168 = 1 not(TMP\_168) = 0 TMP\_169 = 1 not(TMP\_169) = 0 TMP\_170 = 2 TMP\_171 = 0 not(TMP\_171) = 1 TMP\_172 = 1 not(TMP\_172) = 0 TMP\_173 = 1 not(TMP\_173) = 0 TMP\_174 = 1 not(TMP\_174) = 0 TMP\_175 = 1 not(TMP\_175) = 0 TMP\_176 = 1 not(TMP\_176) = 0 TMP\_177 = 5 TMP\_178 = 0 not(TMP\_178) = 1 TMP\_179 = 0 not(TMP\_179) = 1 TMP\_180 = 0 TMP\_181 = 1 not(TMP\_181) = 0 TMP\_182 = 1 not(TMP\_182) = 0 TMP\_183 = 2 TMP\_184 = 0 not(TMP\_184) = 1 TMP\_185 = 0 not(TMP\_185) = 1 TMP\_186 = 1 not(TMP\_186) = 0 TMP\_187 = 1 not(TMP\_187) = 0 TMP\_188 = 1 not(TMP\_188) = 0 TMP\_189 = 2 TMP\_190 = 0 not(TMP\_190) = 1 TMP\_191 = 1 not(TMP\_191) = 0 TMP\_192 = 1 not(TMP\_192) = 0 TMP\_193 = 1 not(TMP\_193) = 0 TMP\_194 = 1 not(TMP\_194) = 0 TMP\_195 = 1 not(TMP\_195) = 0 TMP\_196 = 5 TMP\_197 = 0 not(TMP\_197) = 1 TMP\_198 = 0 not(TMP\_198) = 1 TMP\_199 = 0 TMP\_200 = 1 not(TMP\_200) = 0 TMP\_201 = 1 not(TMP\_201) = 0 TMP\_202 = 2 TMP\_203 = 0 not(TMP\_203) = 1 TMP\_204 = 0 not(TMP\_204) = 1 TMP\_205 = 1 not(TMP\_205) = 0 TMP\_206 = 1 not(TMP\_206) = 0 TMP\_207 = 1 not(TMP\_207) = 0 TMP\_208 = 2 TMP\_209 = 1 not(TMP\_209) = 0 TMP\_210 = 1 not(TMP\_210) = 0 TMP\_211 = 1 not(TMP\_211) = 0 TMP\_212 = 1 not(TMP\_212) = 0 TMP\_213 = 1 not(TMP\_213) = 0 TMP\_214 = 0 not(TMP\_214) = 1 TMP\_215 = 5 TMP\_216 = 0 not(TMP\_216) = 1 TMP\_217 = 0 not(TMP\_217) = 1 TMP\_218 = 0 TMP\_219 = 1 not(TMP\_219) = 0 TMP\_220 = 1 not(TMP\_220) = 0 TMP\_221 = 2 TMP\_222 = 0 not(TMP\_222) = 1 TMP\_223 = 0 not(TMP\_223) = 1 TMP\_224 = 1 not(TMP\_224) = 0 TMP\_225 = 1 not(TMP\_225) = 0 TMP\_226 = 1 not(TMP\_226) = 0 TMP\_227 = 2 TMP\_228 = 0 not(TMP\_228) = 1 TMP\_229 = 1 not(TMP\_229) = 0 TMP\_230 = 1 not(TMP\_230) = 0 TMP\_231 = 1 not(TMP\_231) = 0 TMP\_232 = 1 not(TMP\_232) = 0 TMP\_233 = 0 not(TMP\_233) = 1 TMP\_234 = 4 TMP\_235 = 0 not(TMP\_235) = 1 TMP\_236 = 0 not(TMP\_236) = 1 TMP\_237 = 0 TMP\_238 = 1 not(TMP\_238) = 0 TMP\_239 = 1 not(TMP\_239) = 0 TMP\_240 = 2 TMP\_241 = 0 not(TMP\_241) = 1 TMP\_242 = 0 not(TMP\_242) = 1 TMP\_243 = 1 not(TMP\_243) = 0 TMP\_244 = 1 not(TMP\_244) = 0 TMP\_245 = 1 not(TMP\_245) = 0 TMP\_246 = 2 TMP\_247 = 0 not(TMP\_247) = 1 TMP\_248 = 1 not(TMP\_248) = 0 TMP\_249 = 1 not(TMP\_249) = 0 TMP\_250 = 1 not(TMP\_250) = 0 TMP\_251 = 1 not(TMP\_251) = 0 TMP\_252 = 1 not(TMP\_252) = 0 TMP\_253 = 5 TMP\_254 = 0 not(TMP\_254) = 1 TMP\_255 = 0 not(TMP\_255) = 1 TMP\_256 = 0 TMP\_257 = 1 not(TMP\_257) = 0 TMP\_258 = 1 not(TMP\_258) = 0 TMP\_259 = 2 TMP\_260 = 0 not(TMP\_260) = 1 TMP\_261 = 0 not(TMP\_261) = 1 TMP\_262 = 1 not(TMP\_262) = 0 TMP\_263 = 1 not(TMP\_263) = 0 TMP\_264 = 1 not(TMP\_264) = 0 TMP\_265 = 2 TMP\_266 = 0 not(TMP\_266) = 1 TMP\_267 = 1 not(TMP\_267) = 0 TMP\_268 = 1 not(TMP\_268) = 0 TMP\_269 = 1 not(TMP\_269) = 0 TMP\_270 = 1 not(TMP\_270) = 0 TMP\_271 = 1 not(TMP\_271) = 0 TMP\_272 = 5 TMP\_273 = 0 not(TMP\_273) = 1 TMP\_274 = 0 not(TMP\_274) = 1 TMP\_275 = 0 TMP\_276 = 1 not(TMP\_276) = 0 TMP\_277 = 1 not(TMP\_277) = 0 TMP\_278 = 2 TMP\_279 = 0 not(TMP\_279) = 1 TMP\_280 = 0 not(TMP\_280) = 1 TMP\_281 = 1 not(TMP\_281) = 0 TMP\_282 = 1 not(TMP\_282) = 0 TMP\_283 = 1 not(TMP\_283) = 0 TMP\_284 = 2 TMP\_285 = 0 not(TMP\_285) = 1 TMP\_286 = 1 not(TMP\_286) = 0 TMP\_287 = 1 not(TMP\_287) = 0 TMP\_288 = 1 not(TMP\_288) = 0 TMP\_289 = 1 not(TMP\_289) = 0 TMP\_290 = 1 not(TMP\_290) = 0 TMP\_291 = 5 TMP\_292 = 0 not(TMP\_292) = 1 TMP\_293 = 0 not(TMP\_293) = 1 TMP\_294 = 0 TMP\_295 = 1 not(TMP\_295) = 0 TMP\_296 = 1 not(TMP\_296) = 0 TMP\_297 = 2 TMP\_298 = 0 not(TMP\_298) = 1 TMP\_299 = 0 not(TMP\_299) = 1 TMP\_300 = 1 not(TMP\_300) = 0 TMP\_301 = 1 not(TMP\_301) = 0 TMP\_302 = 1 not(TMP\_302) = 0 TMP\_303 = 2 TMP\_304 = 0 not(TMP\_304) = 1 TMP\_305 = 1 not(TMP\_305) = 0 TMP\_306 = 1 not(TMP\_306) = 0 TMP\_307 = 1 not(TMP\_307) = 0 TMP\_308 = 0 not(TMP\_308) = 1 TMP\_309 = 1 not(TMP\_309) = 0 TMP\_310 = 4 TMP\_311 = 0 not(TMP\_311) = 1 TMP\_312 = 0 not(TMP\_312) = 1 TMP\_313 = 0 TMP\_314 = 1 not(TMP\_314) = 0 TMP\_315 = 1 not(TMP\_315) = 0 TMP\_316 = 2 TMP\_317 = 0 not(TMP\_317) = 1 TMP\_318 = 0 not(TMP\_318) = 1 TMP\_319 = 1 not(TMP\_319) = 0 TMP\_320 = 1 not(TMP\_320) = 0 TMP\_321 = 1 not(TMP\_321) = 0 TMP\_322 = 2 TMP\_323 = 0 not(TMP\_323) = 1 TMP\_324 = 1 not(TMP\_324) = 0 TMP\_325 = 1 not(TMP\_325) = 0 TMP\_326 = 1 not(TMP\_326) = 0 TMP\_327 = 0 not(TMP\_327) = 1 TMP\_328 = 1 not(TMP\_328) = 0 TMP\_329 = 4 TMP\_330 = 0 not(TMP\_330) = 1 TMP\_331 = 0 not(TMP\_331) = 1 TMP\_332 = 0 TMP\_333 = 1 not(TMP\_333) = 0 TMP\_334 = 1 not(TMP\_334) = 0 TMP\_335 = 2 TMP\_336 = 0 not(TMP\_336) = 1 TMP\_337 = 0 not(TMP\_337) = 1 TMP\_338 = 1 not(TMP\_338) = 0 TMP\_339 = 1 not(TMP\_339) = 0 TMP\_340 = 1 not(TMP\_340) = 0 TMP\_341 = 2 TMP\_342 = 1 not(TMP\_342) = 0 TMP\_343 = 1 not(TMP\_343) = 0 TMP\_344 = 1 not(TMP\_344) = 0 TMP\_345 = 1 not(TMP\_345) = 0 TMP\_346 = 0 not(TMP\_346) = 1 TMP\_347 = 1 not(TMP\_347) = 0 TMP\_348 = 5 TMP\_349 = 0 not(TMP\_349) = 1 TMP\_350 = 0 not(TMP\_350) = 1 TMP\_351 = 0 TMP\_352 = 1 not(TMP\_352) = 0 TMP\_353 = 1 not(TMP\_353) = 0 TMP\_354 = 2 TMP\_355 = 0 not(TMP\_355) = 1 TMP\_356 = 0 not(TMP\_356) = 1 TMP\_357 = 1 not(TMP\_357) = 0 TMP\_358 = 1 not(TMP\_358) = 0 TMP\_359 = 1 not(TMP\_359) = 0 TMP\_360 = 2 TMP\_361 = 0 not(TMP\_361) = 1 TMP\_362 = 1 not(TMP\_362) = 0 TMP\_363 = 1 not(TMP\_363) = 0 TMP\_364 = 1 not(TMP\_364) = 0 TMP\_365 = 1 not(TMP\_365) = 0 TMP\_366 = 1 not(TMP\_366) = 0 TMP\_367 = 5 TMP\_368 = 0 not(TMP\_368) = 1 TMP\_369 = 0 not(TMP\_369) = 1 TMP\_370 = 0 TMP\_371 = 1 not(TMP\_371) = 0 TMP\_372 = 1 not(TMP\_372) = 0 TMP\_373 = 2 TMP\_374 = 0 not(TMP\_374) = 1 TMP\_375 = 0 not(TMP\_375) = 1 TMP\_376 = 1 not(TMP\_376) = 0 TMP\_377 = 1 not(TMP\_377) = 0 TMP\_378 = 1 not(TMP\_378) = 0 TMP\_379 = 2 TMP\_380 = 0 not(TMP\_380) = 1 TMP\_381 = 1 not(TMP\_381) = 0 TMP\_382 = 1 not(TMP\_382) = 0 TMP\_383 = 1 not(TMP\_383) = 0 TMP\_384 = 0 not(TMP\_384) = 1 TMP\_385 = 1 not(TMP\_385) = 0 TMP\_386 = 4 TMP\_387 = 0 not(TMP\_387) = 1 TMP\_388 = 0 not(TMP\_388) = 1 TMP\_389 = 0 TMP\_390 = 1 not(TMP\_390) = 0 TMP\_391 = 1 not(TMP\_391) = 0 TMP\_392 = 2 TMP\_393 = 0 not(TMP\_393) = 1 TMP\_394 = 0 not(TMP\_394) = 1 TMP\_395 = 1 not(TMP\_395) = 0 TMP\_396 = 1 not(TMP\_396) = 0 TMP\_397 = 1 not(TMP\_397) = 0 TMP\_398 = 2 TMP\_399 = 0 not(TMP\_399) = 1 TMP\_400 = 1 not(TMP\_400) = 0 TMP\_401 = 1 not(TMP\_401) = 0 TMP\_402 = 1 not(TMP\_402) = 0 TMP\_403 = 1 not(TMP\_403) = 0 TMP\_404 = 1 not(TMP\_404) = 0 TMP\_405 = 5 TMP\_406 = 0 not(TMP\_406) = 1 TMP\_407 = 0 not(TMP\_407) = 1 TMP\_408 = 0 TMP\_409 = 1 not(TMP\_409) = 0 TMP\_410 = 1 not(TMP\_410) = 0 TMP\_411 = 2 TMP\_412 = 0 not(TMP\_412) = 1 TMP\_413 = 0 not(TMP\_413) = 1 TMP\_414 = 1 not(TMP\_414) = 0 TMP\_415 = 1 not(TMP\_415) = 0 TMP\_416 = 1 not(TMP\_416) = 0 TMP\_417 = 2 TMP\_418 = 1 not(TMP\_418) = 0 TMP\_419 = 0 not(TMP\_419) = 1 TMP\_420 = 1 not(TMP\_420) = 0 TMP\_421 = 1 not(TMP\_421) = 0 TMP\_422 = 1 not(TMP\_422) = 0 TMP\_423 = 1 not(TMP\_423) = 0 TMP\_424 = 5 TMP\_425 = 0 not(TMP\_425) = 1 TMP\_426 = 0 not(TMP\_426) = 1 TMP\_427 = 0 TMP\_428 = 1 not(TMP\_428) = 0 TMP\_429 = 1 not(TMP\_429) = 0 TMP\_430 = 2 TMP\_431 = 0 not(TMP\_431) = 1 TMP\_432 = 0 not(TMP\_432) = 1 TMP\_433 = 1 not(TMP\_433) = 0 TMP\_434 = 1 not(TMP\_434) = 0 TMP\_435 = 1 not(TMP\_435) = 0 TMP\_436 = 2 TMP\_437 = 1 not(TMP\_437) = 0 TMP\_438 = 0 not(TMP\_438) = 1 TMP\_439 = 1 not(TMP\_439) = 0 TMP\_440 = 1 not(TMP\_440) = 0 TMP\_441 = 0 not(TMP\_441) = 1 TMP\_442 = 1 not(TMP\_442) = 0 TMP\_443 = 4 TMP\_444 = 0 not(TMP\_444) = 1 TMP\_445 = 0 not(TMP\_445) = 1 TMP\_446 = 0 TMP\_447 = 1 not(TMP\_447) = 0 TMP\_448 = 1 not(TMP\_448) = 0 TMP\_449 = 2 TMP\_450 = 0 not(TMP\_450) = 1 TMP\_451 = 0 not(TMP\_451) = 1 TMP\_452 = 1 not(TMP\_452) = 0 TMP\_453 = 1 not(TMP\_453) = 0 TMP\_454 = 1 not(TMP\_454) = 0 TMP\_455 = 2 TMP\_456 = 1 not(TMP\_456) = 0 TMP\_457 = 1 not(TMP\_457) = 0 TMP\_458 = 1 not(TMP\_458) = 0 TMP\_459 = 1 not(TMP\_459) = 0 TMP\_460 = 0 not(TMP\_460) = 1 TMP\_461 = 1 not(TMP\_461) = 0 TMP\_462 = 5 TMP\_463 = 0 not(TMP\_463) = 1 TMP\_464 = 0 not(TMP\_464) = 1 TMP\_465 = 0 TMP\_466 = 1 not(TMP\_466) = 0 TMP\_467 = 1 not(TMP\_467) = 0 TMP\_468 = 2 TMP\_469 = 0 not(TMP\_469) = 1 TMP\_470 = 0 not(TMP\_470) = 1 TMP\_471 = 1 not(TMP\_471) = 0 TMP\_472 = 1 not(TMP\_472) = 0 TMP\_473 = 1 not(TMP\_473) = 0 TMP\_474 = 2 TMP\_475 = 1 not(TMP\_475) = 0 TMP\_476 = 0 not(TMP\_476) = 1 TMP\_477 = 1 not(TMP\_477) = 0 TMP\_478 = 1 not(TMP\_478) = 0 TMP\_479 = 0 not(TMP\_479) = 1 TMP\_480 = 1 not(TMP\_480) = 0 TMP\_481 = 4 TMP\_482 = 0 not(TMP\_482) = 1 TMP\_483 = 0 not(TMP\_483) = 1 TMP\_484 = 0 TMP\_485 = 1 not(TMP\_485) = 0 TMP\_486 = 1 not(TMP\_486) = 0 TMP\_487 = 2 TMP\_488 = 0 not(TMP\_488) = 1 TMP\_489 = 0 not(TMP\_489) = 1 TMP\_490 = 1 not(TMP\_490) = 0 TMP\_491 = 1 not(TMP\_491) = 0 TMP\_492 = 1 not(TMP\_492) = 0 TMP\_493 = 2 TMP\_494 = 1 not(TMP\_494) = 0 TMP\_495 = 0 not(TMP\_495) = 1 TMP\_496 = 1 not(TMP\_496) = 0 TMP\_497 = 1 not(TMP\_497) = 0 TMP\_498 = 1 not(TMP\_498) = 0 TMP\_499 = 1 not(TMP\_499) = 0 TMP\_500 = 5 TMP\_501 = 0 not(TMP\_501) = 1 TMP\_502 = 0 not(TMP\_502) = 1 TMP\_503 = 0 TMP\_504 = 1 not(TMP\_504) = 0 TMP\_505 = 1 not(TMP\_505) = 0 TMP\_506 = 2 TMP\_507 = 0 not(TMP\_507) = 1 TMP\_508 = 0 not(TMP\_508) = 1 TMP\_509 = 1 not(TMP\_509) = 0 TMP\_510 = 1 not(TMP\_510) = 0 TMP\_511 = 1 not(TMP\_511) = 0 TMP\_512 = 2 TMP\_513 = 1 not(TMP\_513) = 0 TMP\_514 = 1 not(TMP\_514) = 0 TMP\_515 = 1 not(TMP\_515) = 0 TMP\_516 = 1 not(TMP\_516) = 0 TMP\_517 = 0 not(TMP\_517) = 1 TMP\_518 = 1 not(TMP\_518) = 0 TMP\_519 = 5 TMP\_520 = 0 not(TMP\_520) = 1 TMP\_521 = 0 not(TMP\_521) = 1 TMP\_522 = 0 TMP\_523 = 1 not(TMP\_523) = 0 TMP\_524 = 1 not(TMP\_524) = 0 TMP\_525 = 2 TMP\_526 = 0 not(TMP\_526) = 1 TMP\_527 = 0 not(TMP\_527) = 1 TMP\_528 = 1 not(TMP\_528) = 0 TMP\_529 = 1 not(TMP\_529) = 0 TMP\_530 = 1 not(TMP\_530) = 0 TMP\_531 = 2 TMP\_532 = 1 not(TMP\_532) = 0 TMP\_533 = 1 not(TMP\_533) = 0 TMP\_534 = 1 not(TMP\_534) = 0 TMP\_535 = 1 not(TMP\_535) = 0 TMP\_536 = 1 not(TMP\_536) = 0 TMP\_537 = 0 not(TMP\_537) = 1 TMP\_538 = 5 TMP\_539 = 0 not(TMP\_539) = 1 TMP\_540 = 0 not(TMP\_540) = 1 TMP\_541 = 0 TMP\_542 = 1 not(TMP\_542) = 0 TMP\_543 = 1 not(TMP\_543) = 0 TMP\_544 = 2 TMP\_545 = 0 not(TMP\_545) = 1 TMP\_546 = 0 not(TMP\_546) = 1 TMP\_547 = 1 not(TMP\_547) = 0 TMP\_548 = 1 not(TMP\_548) = 0 TMP\_549 = 1 not(TMP\_549) = 0 TMP\_550 = 2 TMP\_551 = 1 not(TMP\_551) = 0 TMP\_552 = 0 not(TMP\_552) = 1 TMP\_553 = 1 not(TMP\_553) = 0 TMP\_554 = 1 not(TMP\_554) = 0 TMP\_555 = 1 not(TMP\_555) = 0 TMP\_556 = 0 not(TMP\_556) = 1 TMP\_557 = 4 TMP\_558 = 0 not(TMP\_558) = 1 TMP\_559 = 0 not(TMP\_559) = 1 TMP\_560 = 0 TMP\_561 = 1 not(TMP\_561) = 0 TMP\_562 = 1 not(TMP\_562) = 0 TMP\_563 = 2 TMP\_564 = 0 not(TMP\_564) = 1 TMP\_565 = 0 not(TMP\_565) = 1 TMP\_566 = 1 not(TMP\_566) = 0 TMP\_567 = 1 not(TMP\_567) = 0 TMP\_568 = 1 not(TMP\_568) = 0 TMP\_569 = 2 TMP\_570 = 1 not(TMP\_570) = 0 TMP\_571 = 0 not(TMP\_571) = 1 TMP\_572 = 1 not(TMP\_572) = 0 TMP\_573 = 1 not(TMP\_573) = 0 TMP\_574 = 1 not(TMP\_574) = 0 TMP\_575 = 1 not(TMP\_575) = 0 TMP\_576 = 5 TMP\_577 = 0 not(TMP\_577) = 1 TMP\_578 = 0 not(TMP\_578) = 1 TMP\_579 = 0 TMP\_580 = 1 not(TMP\_580) = 0 TMP\_581 = 1 not(TMP\_581) = 0 TMP\_582 = 2 TMP\_583 = 0 not(TMP\_583) = 1 TMP\_584 = 0 not(TMP\_584) = 1 TMP\_585 = 1 not(TMP\_585) = 0 TMP\_586 = 1 not(TMP\_586) = 0 TMP\_587 = 1 not(TMP\_587) = 0 TMP\_588 = 2 TMP\_589 = 1 not(TMP\_589) = 0 TMP\_590 = 1 not(TMP\_590) = 0 TMP\_591 = 0 not(TMP\_591) = 1 TMP\_592 = 1 not(TMP\_592) = 0 TMP\_593 = 1 not(TMP\_593) = 0 TMP\_594 = 1 not(TMP\_594) = 0 TMP\_595 = 5 TMP\_596 = 0 not(TMP\_596) = 1 TMP\_597 = 0 not(TMP\_597) = 1 TMP\_598 = 0 TMP\_599 = 1 not(TMP\_599) = 0 TMP\_600 = 1 not(TMP\_600) = 0 TMP\_601 = 2 TMP\_602 = 0 not(TMP\_602) = 1 TMP\_603 = 0 not(TMP\_603) = 1 TMP\_604 = 1 not(TMP\_604) = 0 TMP\_605 = 1 not(TMP\_605) = 0 TMP\_606 = 1 not(TMP\_606) = 0 TMP\_607 = 2 TMP\_608 = 1 not(TMP\_608) = 0 TMP\_609 = 0 not(TMP\_609) = 1 TMP\_610 = 1 not(TMP\_610) = 0 TMP\_611 = 1 not(TMP\_611) = 0 TMP\_612 = 1 not(TMP\_612) = 0 TMP\_613 = 1 not(TMP\_613) = 0 TMP\_614 = 5 TMP\_615 = 0 not(TMP\_615) = 1 TMP\_616 = 0 not(TMP\_616) = 1 TMP\_617 = 0 TMP\_618 = 1 not(TMP\_618) = 0 TMP\_619 = 1 not(TMP\_619) = 0 TMP\_620 = 2 TMP\_621 = 0 not(TMP\_621) = 1 TMP\_622 = 0 not(TMP\_622) = 1 TMP\_623 = 1 not(TMP\_623) = 0 TMP\_624 = 1 not(TMP\_624) = 0 TMP\_625 = 1 not(TMP\_625) = 0 TMP\_626 = 2 TMP\_627 = 1 not(TMP\_627) = 0 TMP\_628 = 0 not(TMP\_628) = 1 TMP\_629 = 1 not(TMP\_629) = 0 TMP\_630 = 1 not(TMP\_630) = 0 TMP\_631 = 1 not(TMP\_631) = 0 TMP\_632 = 0 not(TMP\_632) = 1 TMP\_633 = 4 TMP\_634 = 0 not(TMP\_634) = 1 TMP\_635 = 0 not(TMP\_635) = 1 TMP\_636 = 0 TMP\_637 = 1 not(TMP\_637) = 0 TMP\_638 = 1 not(TMP\_638) = 0 TMP\_639 = 2 TMP\_640 = 0 not(TMP\_640) = 1 TMP\_641 = 0 not(TMP\_641) = 1 TMP\_642 = 1 not(TMP\_642) = 0 TMP\_643 = 1 not(TMP\_643) = 0 TMP\_644 = 1 not(TMP\_644) = 0 TMP\_645 = 2 TMP\_646 = 1 not(TMP\_646) = 0 TMP\_647 = 1 not(TMP\_647) = 0 TMP\_648 = 1 not(TMP\_648) = 0 TMP\_649 = 1 not(TMP\_649) = 0 TMP\_650 = 1 not(TMP\_650) = 0 TMP\_651 = 0 not(TMP\_651) = 1 TMP\_652 = 5 TMP\_653 = 0 not(TMP\_653) = 1 TMP\_654 = 0 not(TMP\_654) = 1 TMP\_655 = 0 TMP\_656 = 1 not(TMP\_656) = 0 TMP\_657 = 1 not(TMP\_657) = 0 TMP\_658 = 2 TMP\_659 = 0 not(TMP\_659) = 1 TMP\_660 = 0 not(TMP\_660) = 1 TMP\_661 = 1 not(TMP\_661) = 0 TMP\_662 = 1 not(TMP\_662) = 0 TMP\_663 = 1 not(TMP\_663) = 0 TMP\_664 = 2 Area\_0 = 60 Distance\_0\_Rule\_0 = 20 Distance\_1\_Rule\_0 = 3 Distance\_2\_Rule\_0 = 1 Area\_1 = 174 Distance\_0\_Rule\_1 = 58 Distance\_1\_Rule\_1 = 3 Distance\_2\_Rule\_1 = 1 Area\_2 = 116 Distance\_0\_Rule\_2 = 58 Distance\_1\_Rule\_2 = 2 Distance\_2\_Rule\_2 = 1 Area\_3 = 79 -(Rule\_3\_LB) = 0 Distance\_0\_Rule\_3 = 79 -(Rule\_3\_LB) = 0 Distance\_1\_Rule\_3 = 1 -(Rule\_3\_LB) = 0 Distance\_2\_Rule\_3 = 1 Area\_4 = 123 -(Rule\_4\_LB) = -79 Distance\_0\_Rule\_4 = 41 -(Rule\_4\_LB) = 0 Distance\_1\_Rule\_4 = 3 -(Rule\_4\_LB) = 0 Distance\_2\_Rule\_4 = 1 Area\_5 = 123 -(Rule\_5\_LB) = -79 Distance\_0\_Rule\_5 = 41 -(Rule\_5\_LB) = 0 Distance\_1\_Rule\_5 = 3 -(Rule\_5\_LB) = -1 Distance\_2\_Rule\_5 = 1 Area\_6 = 3 -(Rule\_6\_LB) = -20 Distance\_0\_Rule\_6 = 1 -(Rule\_6\_LB) = 0 Distance\_1\_Rule\_6 = 3 -(Rule\_6\_LB) = -1 Distance\_2\_Rule\_6 = 1 Area\_7 = 42 -(Rule\_7\_LB) = 0 Distance\_0\_Rule\_7 = 21 -(Rule\_7\_LB) = -1 Distance\_1\_Rule\_7 = 2 -(Rule\_7\_LB) = 0 Distance\_2\_Rule\_7 = 1 TMP\_665 = 720 .

- Solution #11 found. 11 Solutions, Resolution 3.191s, 23836 Nodes (7,469.6 n/s), 47607 Backtracks, 23801 Fails, 0 Restarts

Rule\_3\_LB = 0 Rule\_3\_UB = 79 Rule\_3\_LB = 0 Rule\_3\_UB = 1 Rule\_3\_LB = 0 Rule\_3\_UB = 1 Rule\_4\_LB = 79 Rule\_4\_UB = 120 Rule\_4\_LB = 0 Rule\_4\_UB = 3 Rule\_4\_LB = 0 Rule\_4\_UB = 1 Rule\_5\_LB = 79 Rule\_5\_UB = 120 Rule\_5\_LB = 0 Rule\_5\_UB = 3 Rule\_5\_LB = 1 Rule\_5\_UB = 2 Rule\_6\_LB = 20 Rule\_6\_UB = 21 Rule\_6\_LB = 0 Rule\_6\_UB = 3 Rule\_6\_LB = 1 Rule\_6\_UB = 2 Rule\_7\_LB = 0 Rule\_7\_UB = 21 Rule\_7\_LB = 1 Rule\_7\_UB = 3 Rule\_7\_LB = 0 Rule\_7\_UB = 1 Overlaps\_0\_0 = 0 Overlaps\_0\_1 = 1 Overlaps\_0\_2 = 0 Overlaps\_0\_3 = 0 Overlaps\_0\_4 = 0 Overlaps\_0\_5 = 0 Overlaps\_0\_6 = 0 Overlaps\_0\_7 = 0 Overlaps\_1\_0 = 0 Overlaps\_1\_1 = 0 Overlaps\_1\_2 = 0 Overlaps\_1\_3 = 0 Overlaps\_1\_4 = 0 Overlaps\_1\_5 = 0 Overlaps\_1\_6 = 0 Overlaps\_1\_7 = 0 Overlaps\_2\_0 = 0 Overlaps\_2\_1 = 1 Overlaps\_2\_2 = 0 Overlaps\_2\_3 = 0 Overlaps\_2\_4 = 0 Overlaps\_2\_5 = 0 Overlaps\_2\_6 = 0 Overlaps\_2\_7 = 0 Overlaps\_3\_0 = 0 Overlaps\_3\_1 = 0 Overlaps\_3\_2 = 0 Overlaps\_3\_3 = 0 Overlaps\_3\_4 = 0 Overlaps\_3\_5 = 0 Overlaps\_3\_6 = 0 Overlaps\_3\_7 = 0 Overlaps\_4\_0 = 0 Overlaps\_4\_1 = 0 Overlaps\_4\_2 = 0 Overlaps\_4\_3 = 0 Overlaps\_4\_4 = 0 Overlaps\_4\_5 = 0 Overlaps\_4\_6 = 0 Overlaps\_4\_7 = 0 Overlaps\_5\_0 = 0 Overlaps\_5\_1 = 0 Overlaps\_5\_2 = 0 Overlaps\_5\_3 = 0 Overlaps\_5\_4 = 0 Overlaps\_5\_5 = 0 Overlaps\_5\_6 = 0 Overlaps\_5\_7 = 0 Overlaps\_6\_0 = 0 Overlaps\_6\_1 = 0 Overlaps\_6\_2 = 0 Overlaps\_6\_3 = 0 Overlaps\_6\_4 = 0 Overlaps\_6\_5 = 0 Overlaps\_6\_6 = 0 Overlaps\_6\_7 = 0 Overlaps\_7\_0 = 0 Overlaps\_7\_1 = 0 Overlaps\_7\_2 = 0 Overlaps\_7\_3 = 0 Overlaps\_7\_4 = 0 Overlaps\_7\_5 = 0 Overlaps\_7\_6 = 0 Overlaps\_7\_7 = 0 TMP\_0 = 1 not(TMP\_0) = 0 TMP\_1 = 1 not(TMP\_1) = 0 TMP\_2 = 1 not(TMP\_2) = 0 TMP\_3 = 1 not(TMP\_3) = 0 TMP\_4 = 1 not(TMP\_4) = 0 TMP\_5 = 0 not(TMP\_5) = 1 TMP\_6 = 5 TMP\_7 = 0 not(TMP\_7) = 1 TMP\_8 = 0 not(TMP\_8) = 1 TMP\_9 = 0 TMP\_10 = 1 not(TMP\_10) = 0 TMP\_11 = 1 not(TMP\_11) = 0 TMP\_12 = 2 TMP\_13 = 0 not(TMP\_13) = 1 TMP\_14 = 0 not(TMP\_14) = 1 TMP\_15 = 1 not(TMP\_15) = 0 TMP\_16 = 1 not(TMP\_16) = 0 TMP\_17 = 1 not(TMP\_17) = 0 TMP\_18 = 2 TMP\_19 = 1 not(TMP\_19) = 0 TMP\_20 = 1 not(TMP\_20) = 0 TMP\_21 = 1 not(TMP\_21) = 0 TMP\_22 = 1 not(TMP\_22) = 0 TMP\_23 = 1 not(TMP\_23) = 0 TMP\_24 = 0 not(TMP\_24) = 1 TMP\_25 = 5 TMP\_26 = 0 not(TMP\_26) = 1 TMP\_27 = 0 not(TMP\_27) = 1 TMP\_28 = 0 TMP\_29 = 1 not(TMP\_29) = 0 TMP\_30 = 1 not(TMP\_30) = 0 TMP\_31 = 2 TMP\_32 = 0 not(TMP\_32) = 1 TMP\_33 = 0 not(TMP\_33) = 1 TMP\_34 = 1 not(TMP\_34) = 0 TMP\_35 = 1 not(TMP\_35) = 0 TMP\_36 = 1 not(TMP\_36) = 0 TMP\_37 = 2 TMP\_38 = 1 not(TMP\_38) = 0 TMP\_39 = 1 not(TMP\_39) = 0 TMP\_40 = 1 not(TMP\_40) = 0 TMP\_41 = 0 not(TMP\_41) = 1 TMP\_42 = 1 not(TMP\_42) = 0 TMP\_43 = 1 not(TMP\_43) = 0 TMP\_44 = 5 TMP\_45 = 0 not(TMP\_45) = 1 TMP\_46 = 0 not(TMP\_46) = 1 TMP\_47 = 0 TMP\_48 = 1 not(TMP\_48) = 0 TMP\_49 = 1 not(TMP\_49) = 0 TMP\_50 = 2 TMP\_51 = 0 not(TMP\_51) = 1 TMP\_52 = 0 not(TMP\_52) = 1 TMP\_53 = 1 not(TMP\_53) = 0 TMP\_54 = 1 not(TMP\_54) = 0 TMP\_55 = 1 not(TMP\_55) = 0 TMP\_56 = 2 TMP\_57 = 1 not(TMP\_57) = 0 TMP\_58 = 0 not(TMP\_58) = 1 TMP\_59 = 1 not(TMP\_59) = 0 TMP\_60 = 1 not(TMP\_60) = 0 TMP\_61 = 1 not(TMP\_61) = 0 TMP\_62 = 1 not(TMP\_62) = 0 TMP\_63 = 5 TMP\_64 = 0 not(TMP\_64) = 1 TMP\_65 = 0 not(TMP\_65) = 1 TMP\_66 = 0 TMP\_67 = 1 not(TMP\_67) = 0 TMP\_68 = 1 not(TMP\_68) = 0 TMP\_69 = 2 TMP\_70 = 0 not(TMP\_70) = 1 TMP\_71 = 0 not(TMP\_71) = 1 TMP\_72 = 1 not(TMP\_72) = 0 TMP\_73 = 1 not(TMP\_73) = 0 TMP\_74 = 1 not(TMP\_74) = 0 TMP\_75 = 2 TMP\_76 = 1 not(TMP\_76) = 0 TMP\_77 = 0 not(TMP\_77) = 1 TMP\_78 = 1 not(TMP\_78) = 0 TMP\_79 = 1 not(TMP\_79) = 0 TMP\_80 = 1 not(TMP\_80) = 0 TMP\_81 = 0 not(TMP\_81) = 1 TMP\_82 = 4 TMP\_83 = 0 not(TMP\_83) = 1 TMP\_84 = 0 not(TMP\_84) = 1 TMP\_85 = 0 TMP\_86 = 1 not(TMP\_86) = 0 TMP\_87 = 1 not(TMP\_87) = 0 TMP\_88 = 2 TMP\_89 = 0 not(TMP\_89) = 1 TMP\_90 = 0 not(TMP\_90) = 1 TMP\_91 = 1 not(TMP\_91) = 0 TMP\_92 = 1 not(TMP\_92) = 0 TMP\_93 = 1 not(TMP\_93) = 0 TMP\_94 = 2 TMP\_95 = 1 not(TMP\_95) = 0 TMP\_96 = 1 not(TMP\_96) = 0 TMP\_97 = 1 not(TMP\_97) = 0 TMP\_98 = 1 not(TMP\_98) = 0 TMP\_99 = 1 not(TMP\_99) = 0 TMP\_100 = 0 not(TMP\_100) = 1 TMP\_101 = 5 TMP\_102 = 0 not(TMP\_102) = 1 TMP\_103 = 0 not(TMP\_103) = 1 TMP\_104 = 0 TMP\_105 = 1 not(TMP\_105) = 0 TMP\_106 = 1 not(TMP\_106) = 0 TMP\_107 = 2 TMP\_108 = 0 not(TMP\_108) = 1 TMP\_109 = 0 not(TMP\_109) = 1 TMP\_110 = 1 not(TMP\_110) = 0 TMP\_111 = 1 not(TMP\_111) = 0 TMP\_112 = 1 not(TMP\_112) = 0 TMP\_113 = 2 TMP\_114 = 1 not(TMP\_114) = 0 TMP\_115 = 1 not(TMP\_115) = 0 TMP\_116 = 1 not(TMP\_116) = 0 TMP\_117 = 0 not(TMP\_117) = 1 TMP\_118 = 1 not(TMP\_118) = 0 TMP\_119 = 1 not(TMP\_119) = 0 TMP\_120 = 5 TMP\_121 = 0 not(TMP\_121) = 1 TMP\_122 = 0 not(TMP\_122) = 1 TMP\_123 = 0 TMP\_124 = 1 not(TMP\_124) = 0 TMP\_125 = 1 not(TMP\_125) = 0 TMP\_126 = 2 TMP\_127 = 0 not(TMP\_127) = 1 TMP\_128 = 0 not(TMP\_128) = 1 TMP\_129 = 1 not(TMP\_129) = 0 TMP\_130 = 1 not(TMP\_130) = 0 TMP\_131 = 1 not(TMP\_131) = 0 TMP\_132 = 2 TMP\_133 = 0 not(TMP\_133) = 1 TMP\_134 = 1 not(TMP\_134) = 0 TMP\_135 = 1 not(TMP\_135) = 0 TMP\_136 = 1 not(TMP\_136) = 0 TMP\_137 = 1 not(TMP\_137) = 0 TMP\_138 = 0 not(TMP\_138) = 1 TMP\_139 = 4 TMP\_140 = 0 not(TMP\_140) = 1 TMP\_141 = 0 not(TMP\_141) = 1 TMP\_142 = 0 TMP\_143 = 1 not(TMP\_143) = 0 TMP\_144 = 1 not(TMP\_144) = 0 TMP\_145 = 2 TMP\_146 = 0 not(TMP\_146) = 1 TMP\_147 = 0 not(TMP\_147) = 1 TMP\_148 = 1 not(TMP\_148) = 0 TMP\_149 = 1 not(TMP\_149) = 0 TMP\_150 = 1 not(TMP\_150) = 0 TMP\_151 = 2 TMP\_152 = 0 not(TMP\_152) = 1 TMP\_153 = 1 not(TMP\_153) = 0 TMP\_154 = 1 not(TMP\_154) = 0 TMP\_155 = 1 not(TMP\_155) = 0 TMP\_156 = 1 not(TMP\_156) = 0 TMP\_157 = 0 not(TMP\_157) = 1 TMP\_158 = 4 TMP\_159 = 0 not(TMP\_159) = 1 TMP\_160 = 0 not(TMP\_160) = 1 TMP\_161 = 0 TMP\_162 = 1 not(TMP\_162) = 0 TMP\_163 = 1 not(TMP\_163) = 0 TMP\_164 = 2 TMP\_165 = 0 not(TMP\_165) = 1 TMP\_166 = 0 not(TMP\_166) = 1 TMP\_167 = 1 not(TMP\_167) = 0 TMP\_168 = 1 not(TMP\_168) = 0 TMP\_169 = 1 not(TMP\_169) = 0 TMP\_170 = 2 TMP\_171 = 0 not(TMP\_171) = 1 TMP\_172 = 1 not(TMP\_172) = 0 TMP\_173 = 1 not(TMP\_173) = 0 TMP\_174 = 1 not(TMP\_174) = 0 TMP\_175 = 1 not(TMP\_175) = 0 TMP\_176 = 1 not(TMP\_176) = 0 TMP\_177 = 5 TMP\_178 = 0 not(TMP\_178) = 1 TMP\_179 = 0 not(TMP\_179) = 1 TMP\_180 = 0 TMP\_181 = 1 not(TMP\_181) = 0 TMP\_182 = 1 not(TMP\_182) = 0 TMP\_183 = 2 TMP\_184 = 0 not(TMP\_184) = 1 TMP\_185 = 0 not(TMP\_185) = 1 TMP\_186 = 1 not(TMP\_186) = 0 TMP\_187 = 1 not(TMP\_187) = 0 TMP\_188 = 1 not(TMP\_188) = 0 TMP\_189 = 2 TMP\_190 = 0 not(TMP\_190) = 1 TMP\_191 = 1 not(TMP\_191) = 0 TMP\_192 = 1 not(TMP\_192) = 0 TMP\_193 = 1 not(TMP\_193) = 0 TMP\_194 = 1 not(TMP\_194) = 0 TMP\_195 = 1 not(TMP\_195) = 0 TMP\_196 = 5 TMP\_197 = 0 not(TMP\_197) = 1 TMP\_198 = 0 not(TMP\_198) = 1 TMP\_199 = 0 TMP\_200 = 1 not(TMP\_200) = 0 TMP\_201 = 1 not(TMP\_201) = 0 TMP\_202 = 2 TMP\_203 = 0 not(TMP\_203) = 1 TMP\_204 = 0 not(TMP\_204) = 1 TMP\_205 = 1 not(TMP\_205) = 0 TMP\_206 = 1 not(TMP\_206) = 0 TMP\_207 = 1 not(TMP\_207) = 0 TMP\_208 = 2 TMP\_209 = 1 not(TMP\_209) = 0 TMP\_210 = 1 not(TMP\_210) = 0 TMP\_211 = 1 not(TMP\_211) = 0 TMP\_212 = 1 not(TMP\_212) = 0 TMP\_213 = 1 not(TMP\_213) = 0 TMP\_214 = 0 not(TMP\_214) = 1 TMP\_215 = 5 TMP\_216 = 0 not(TMP\_216) = 1 TMP\_217 = 0 not(TMP\_217) = 1 TMP\_218 = 0 TMP\_219 = 1 not(TMP\_219) = 0 TMP\_220 = 1 not(TMP\_220) = 0 TMP\_221 = 2 TMP\_222 = 0 not(TMP\_222) = 1 TMP\_223 = 0 not(TMP\_223) = 1 TMP\_224 = 1 not(TMP\_224) = 0 TMP\_225 = 1 not(TMP\_225) = 0 TMP\_226 = 1 not(TMP\_226) = 0 TMP\_227 = 2 TMP\_228 = 0 not(TMP\_228) = 1 TMP\_229 = 1 not(TMP\_229) = 0 TMP\_230 = 1 not(TMP\_230) = 0 TMP\_231 = 1 not(TMP\_231) = 0 TMP\_232 = 1 not(TMP\_232) = 0 TMP\_233 = 0 not(TMP\_233) = 1 TMP\_234 = 4 TMP\_235 = 0 not(TMP\_235) = 1 TMP\_236 = 0 not(TMP\_236) = 1 TMP\_237 = 0 TMP\_238 = 1 not(TMP\_238) = 0 TMP\_239 = 1 not(TMP\_239) = 0 TMP\_240 = 2 TMP\_241 = 0 not(TMP\_241) = 1 TMP\_242 = 0 not(TMP\_242) = 1 TMP\_243 = 1 not(TMP\_243) = 0 TMP\_244 = 1 not(TMP\_244) = 0 TMP\_245 = 1 not(TMP\_245) = 0 TMP\_246 = 2 TMP\_247 = 0 not(TMP\_247) = 1 TMP\_248 = 1 not(TMP\_248) = 0 TMP\_249 = 1 not(TMP\_249) = 0 TMP\_250 = 1 not(TMP\_250) = 0 TMP\_251 = 1 not(TMP\_251) = 0 TMP\_252 = 1 not(TMP\_252) = 0 TMP\_253 = 5 TMP\_254 = 0 not(TMP\_254) = 1 TMP\_255 = 0 not(TMP\_255) = 1 TMP\_256 = 0 TMP\_257 = 1 not(TMP\_257) = 0 TMP\_258 = 1 not(TMP\_258) = 0 TMP\_259 = 2 TMP\_260 = 0 not(TMP\_260) = 1 TMP\_261 = 0 not(TMP\_261) = 1 TMP\_262 = 1 not(TMP\_262) = 0 TMP\_263 = 1 not(TMP\_263) = 0 TMP\_264 = 1 not(TMP\_264) = 0 TMP\_265 = 2 TMP\_266 = 0 not(TMP\_266) = 1 TMP\_267 = 1 not(TMP\_267) = 0 TMP\_268 = 1 not(TMP\_268) = 0 TMP\_269 = 1 not(TMP\_269) = 0 TMP\_270 = 1 not(TMP\_270) = 0 TMP\_271 = 1 not(TMP\_271) = 0 TMP\_272 = 5 TMP\_273 = 0 not(TMP\_273) = 1 TMP\_274 = 0 not(TMP\_274) = 1 TMP\_275 = 0 TMP\_276 = 1 not(TMP\_276) = 0 TMP\_277 = 1 not(TMP\_277) = 0 TMP\_278 = 2 TMP\_279 = 0 not(TMP\_279) = 1 TMP\_280 = 0 not(TMP\_280) = 1 TMP\_281 = 1 not(TMP\_281) = 0 TMP\_282 = 1 not(TMP\_282) = 0 TMP\_283 = 1 not(TMP\_283) = 0 TMP\_284 = 2 TMP\_285 = 0 not(TMP\_285) = 1 TMP\_286 = 1 not(TMP\_286) = 0 TMP\_287 = 1 not(TMP\_287) = 0 TMP\_288 = 1 not(TMP\_288) = 0 TMP\_289 = 1 not(TMP\_289) = 0 TMP\_290 = 1 not(TMP\_290) = 0 TMP\_291 = 5 TMP\_292 = 0 not(TMP\_292) = 1 TMP\_293 = 0 not(TMP\_293) = 1 TMP\_294 = 0 TMP\_295 = 1 not(TMP\_295) = 0 TMP\_296 = 1 not(TMP\_296) = 0 TMP\_297 = 2 TMP\_298 = 0 not(TMP\_298) = 1 TMP\_299 = 0 not(TMP\_299) = 1 TMP\_300 = 1 not(TMP\_300) = 0 TMP\_301 = 1 not(TMP\_301) = 0 TMP\_302 = 1 not(TMP\_302) = 0 TMP\_303 = 2 TMP\_304 = 0 not(TMP\_304) = 1 TMP\_305 = 1 not(TMP\_305) = 0 TMP\_306 = 1 not(TMP\_306) = 0 TMP\_307 = 1 not(TMP\_307) = 0 TMP\_308 = 0 not(TMP\_308) = 1 TMP\_309 = 1 not(TMP\_309) = 0 TMP\_310 = 4 TMP\_311 = 0 not(TMP\_311) = 1 TMP\_312 = 0 not(TMP\_312) = 1 TMP\_313 = 0 TMP\_314 = 1 not(TMP\_314) = 0 TMP\_315 = 1 not(TMP\_315) = 0 TMP\_316 = 2 TMP\_317 = 0 not(TMP\_317) = 1 TMP\_318 = 0 not(TMP\_318) = 1 TMP\_319 = 1 not(TMP\_319) = 0 TMP\_320 = 1 not(TMP\_320) = 0 TMP\_321 = 1 not(TMP\_321) = 0 TMP\_322 = 2 TMP\_323 = 0 not(TMP\_323) = 1 TMP\_324 = 1 not(TMP\_324) = 0 TMP\_325 = 1 not(TMP\_325) = 0 TMP\_326 = 1 not(TMP\_326) = 0 TMP\_327 = 0 not(TMP\_327) = 1 TMP\_328 = 1 not(TMP\_328) = 0 TMP\_329 = 4 TMP\_330 = 0 not(TMP\_330) = 1 TMP\_331 = 0 not(TMP\_331) = 1 TMP\_332 = 0 TMP\_333 = 1 not(TMP\_333) = 0 TMP\_334 = 1 not(TMP\_334) = 0 TMP\_335 = 2 TMP\_336 = 0 not(TMP\_336) = 1 TMP\_337 = 0 not(TMP\_337) = 1 TMP\_338 = 1 not(TMP\_338) = 0 TMP\_339 = 1 not(TMP\_339) = 0 TMP\_340 = 1 not(TMP\_340) = 0 TMP\_341 = 2 TMP\_342 = 1 not(TMP\_342) = 0 TMP\_343 = 1 not(TMP\_343) = 0 TMP\_344 = 1 not(TMP\_344) = 0 TMP\_345 = 1 not(TMP\_345) = 0 TMP\_346 = 0 not(TMP\_346) = 1 TMP\_347 = 1 not(TMP\_347) = 0 TMP\_348 = 5 TMP\_349 = 0 not(TMP\_349) = 1 TMP\_350 = 0 not(TMP\_350) = 1 TMP\_351 = 0 TMP\_352 = 1 not(TMP\_352) = 0 TMP\_353 = 1 not(TMP\_353) = 0 TMP\_354 = 2 TMP\_355 = 0 not(TMP\_355) = 1 TMP\_356 = 0 not(TMP\_356) = 1 TMP\_357 = 1 not(TMP\_357) = 0 TMP\_358 = 1 not(TMP\_358) = 0 TMP\_359 = 1 not(TMP\_359) = 0 TMP\_360 = 2 TMP\_361 = 0 not(TMP\_361) = 1 TMP\_362 = 1 not(TMP\_362) = 0 TMP\_363 = 1 not(TMP\_363) = 0 TMP\_364 = 1 not(TMP\_364) = 0 TMP\_365 = 1 not(TMP\_365) = 0 TMP\_366 = 1 not(TMP\_366) = 0 TMP\_367 = 5 TMP\_368 = 0 not(TMP\_368) = 1 TMP\_369 = 0 not(TMP\_369) = 1 TMP\_370 = 0 TMP\_371 = 1 not(TMP\_371) = 0 TMP\_372 = 1 not(TMP\_372) = 0 TMP\_373 = 2 TMP\_374 = 0 not(TMP\_374) = 1 TMP\_375 = 0 not(TMP\_375) = 1 TMP\_376 = 1 not(TMP\_376) = 0 TMP\_377 = 1 not(TMP\_377) = 0 TMP\_378 = 1 not(TMP\_378) = 0 TMP\_379 = 2 TMP\_380 = 0 not(TMP\_380) = 1 TMP\_381 = 1 not(TMP\_381) = 0 TMP\_382 = 1 not(TMP\_382) = 0 TMP\_383 = 1 not(TMP\_383) = 0 TMP\_384 = 0 not(TMP\_384) = 1 TMP\_385 = 1 not(TMP\_385) = 0 TMP\_386 = 4 TMP\_387 = 0 not(TMP\_387) = 1 TMP\_388 = 0 not(TMP\_388) = 1 TMP\_389 = 0 TMP\_390 = 1 not(TMP\_390) = 0 TMP\_391 = 1 not(TMP\_391) = 0 TMP\_392 = 2 TMP\_393 = 0 not(TMP\_393) = 1 TMP\_394 = 0 not(TMP\_394) = 1 TMP\_395 = 1 not(TMP\_395) = 0 TMP\_396 = 1 not(TMP\_396) = 0 TMP\_397 = 1 not(TMP\_397) = 0 TMP\_398 = 2 TMP\_399 = 0 not(TMP\_399) = 1 TMP\_400 = 1 not(TMP\_400) = 0 TMP\_401 = 1 not(TMP\_401) = 0 TMP\_402 = 1 not(TMP\_402) = 0 TMP\_403 = 1 not(TMP\_403) = 0 TMP\_404 = 1 not(TMP\_404) = 0 TMP\_405 = 5 TMP\_406 = 0 not(TMP\_406) = 1 TMP\_407 = 0 not(TMP\_407) = 1 TMP\_408 = 0 TMP\_409 = 1 not(TMP\_409) = 0 TMP\_410 = 1 not(TMP\_410) = 0 TMP\_411 = 2 TMP\_412 = 0 not(TMP\_412) = 1 TMP\_413 = 0 not(TMP\_413) = 1 TMP\_414 = 1 not(TMP\_414) = 0 TMP\_415 = 1 not(TMP\_415) = 0 TMP\_416 = 1 not(TMP\_416) = 0 TMP\_417 = 2 TMP\_418 = 1 not(TMP\_418) = 0 TMP\_419 = 0 not(TMP\_419) = 1 TMP\_420 = 1 not(TMP\_420) = 0 TMP\_421 = 1 not(TMP\_421) = 0 TMP\_422 = 1 not(TMP\_422) = 0 TMP\_423 = 1 not(TMP\_423) = 0 TMP\_424 = 5 TMP\_425 = 0 not(TMP\_425) = 1 TMP\_426 = 0 not(TMP\_426) = 1 TMP\_427 = 0 TMP\_428 = 1 not(TMP\_428) = 0 TMP\_429 = 1 not(TMP\_429) = 0 TMP\_430 = 2 TMP\_431 = 0 not(TMP\_431) = 1 TMP\_432 = 0 not(TMP\_432) = 1 TMP\_433 = 1 not(TMP\_433) = 0 TMP\_434 = 1 not(TMP\_434) = 0 TMP\_435 = 1 not(TMP\_435) = 0 TMP\_436 = 2 TMP\_437 = 1 not(TMP\_437) = 0 TMP\_438 = 0 not(TMP\_438) = 1 TMP\_439 = 1 not(TMP\_439) = 0 TMP\_440 = 1 not(TMP\_440) = 0 TMP\_441 = 0 not(TMP\_441) = 1 TMP\_442 = 1 not(TMP\_442) = 0 TMP\_443 = 4 TMP\_444 = 0 not(TMP\_444) = 1 TMP\_445 = 0 not(TMP\_445) = 1 TMP\_446 = 0 TMP\_447 = 1 not(TMP\_447) = 0 TMP\_448 = 1 not(TMP\_448) = 0 TMP\_449 = 2 TMP\_450 = 0 not(TMP\_450) = 1 TMP\_451 = 0 not(TMP\_451) = 1 TMP\_452 = 1 not(TMP\_452) = 0 TMP\_453 = 1 not(TMP\_453) = 0 TMP\_454 = 1 not(TMP\_454) = 0 TMP\_455 = 2 TMP\_456 = 1 not(TMP\_456) = 0 TMP\_457 = 1 not(TMP\_457) = 0 TMP\_458 = 1 not(TMP\_458) = 0 TMP\_459 = 1 not(TMP\_459) = 0 TMP\_460 = 0 not(TMP\_460) = 1 TMP\_461 = 1 not(TMP\_461) = 0 TMP\_462 = 5 TMP\_463 = 0 not(TMP\_463) = 1 TMP\_464 = 0 not(TMP\_464) = 1 TMP\_465 = 0 TMP\_466 = 1 not(TMP\_466) = 0 TMP\_467 = 1 not(TMP\_467) = 0 TMP\_468 = 2 TMP\_469 = 0 not(TMP\_469) = 1 TMP\_470 = 0 not(TMP\_470) = 1 TMP\_471 = 1 not(TMP\_471) = 0 TMP\_472 = 1 not(TMP\_472) = 0 TMP\_473 = 1 not(TMP\_473) = 0 TMP\_474 = 2 TMP\_475 = 1 not(TMP\_475) = 0 TMP\_476 = 0 not(TMP\_476) = 1 TMP\_477 = 1 not(TMP\_477) = 0 TMP\_478 = 1 not(TMP\_478) = 0 TMP\_479 = 0 not(TMP\_479) = 1 TMP\_480 = 1 not(TMP\_480) = 0 TMP\_481 = 4 TMP\_482 = 0 not(TMP\_482) = 1 TMP\_483 = 0 not(TMP\_483) = 1 TMP\_484 = 0 TMP\_485 = 1 not(TMP\_485) = 0 TMP\_486 = 1 not(TMP\_486) = 0 TMP\_487 = 2 TMP\_488 = 0 not(TMP\_488) = 1 TMP\_489 = 0 not(TMP\_489) = 1 TMP\_490 = 1 not(TMP\_490) = 0 TMP\_491 = 1 not(TMP\_491) = 0 TMP\_492 = 1 not(TMP\_492) = 0 TMP\_493 = 2 TMP\_494 = 1 not(TMP\_494) = 0 TMP\_495 = 0 not(TMP\_495) = 1 TMP\_496 = 1 not(TMP\_496) = 0 TMP\_497 = 1 not(TMP\_497) = 0 TMP\_498 = 1 not(TMP\_498) = 0 TMP\_499 = 1 not(TMP\_499) = 0 TMP\_500 = 5 TMP\_501 = 0 not(TMP\_501) = 1 TMP\_502 = 0 not(TMP\_502) = 1 TMP\_503 = 0 TMP\_504 = 1 not(TMP\_504) = 0 TMP\_505 = 1 not(TMP\_505) = 0 TMP\_506 = 2 TMP\_507 = 0 not(TMP\_507) = 1 TMP\_508 = 0 not(TMP\_508) = 1 TMP\_509 = 1 not(TMP\_509) = 0 TMP\_510 = 1 not(TMP\_510) = 0 TMP\_511 = 1 not(TMP\_511) = 0 TMP\_512 = 2 TMP\_513 = 1 not(TMP\_513) = 0 TMP\_514 = 1 not(TMP\_514) = 0 TMP\_515 = 1 not(TMP\_515) = 0 TMP\_516 = 1 not(TMP\_516) = 0 TMP\_517 = 0 not(TMP\_517) = 1 TMP\_518 = 1 not(TMP\_518) = 0 TMP\_519 = 5 TMP\_520 = 0 not(TMP\_520) = 1 TMP\_521 = 0 not(TMP\_521) = 1 TMP\_522 = 0 TMP\_523 = 1 not(TMP\_523) = 0 TMP\_524 = 1 not(TMP\_524) = 0 TMP\_525 = 2 TMP\_526 = 0 not(TMP\_526) = 1 TMP\_527 = 0 not(TMP\_527) = 1 TMP\_528 = 1 not(TMP\_528) = 0 TMP\_529 = 1 not(TMP\_529) = 0 TMP\_530 = 1 not(TMP\_530) = 0 TMP\_531 = 2 TMP\_532 = 1 not(TMP\_532) = 0 TMP\_533 = 1 not(TMP\_533) = 0 TMP\_534 = 1 not(TMP\_534) = 0 TMP\_535 = 1 not(TMP\_535) = 0 TMP\_536 = 1 not(TMP\_536) = 0 TMP\_537 = 0 not(TMP\_537) = 1 TMP\_538 = 5 TMP\_539 = 0 not(TMP\_539) = 1 TMP\_540 = 0 not(TMP\_540) = 1 TMP\_541 = 0 TMP\_542 = 1 not(TMP\_542) = 0 TMP\_543 = 1 not(TMP\_543) = 0 TMP\_544 = 2 TMP\_545 = 0 not(TMP\_545) = 1 TMP\_546 = 0 not(TMP\_546) = 1 TMP\_547 = 1 not(TMP\_547) = 0 TMP\_548 = 1 not(TMP\_548) = 0 TMP\_549 = 1 not(TMP\_549) = 0 TMP\_550 = 2 TMP\_551 = 1 not(TMP\_551) = 0 TMP\_552 = 0 not(TMP\_552) = 1 TMP\_553 = 1 not(TMP\_553) = 0 TMP\_554 = 1 not(TMP\_554) = 0 TMP\_555 = 1 not(TMP\_555) = 0 TMP\_556 = 0 not(TMP\_556) = 1 TMP\_557 = 4 TMP\_558 = 0 not(TMP\_558) = 1 TMP\_559 = 0 not(TMP\_559) = 1 TMP\_560 = 0 TMP\_561 = 1 not(TMP\_561) = 0 TMP\_562 = 1 not(TMP\_562) = 0 TMP\_563 = 2 TMP\_564 = 0 not(TMP\_564) = 1 TMP\_565 = 0 not(TMP\_565) = 1 TMP\_566 = 1 not(TMP\_566) = 0 TMP\_567 = 1 not(TMP\_567) = 0 TMP\_568 = 1 not(TMP\_568) = 0 TMP\_569 = 2 TMP\_570 = 1 not(TMP\_570) = 0 TMP\_571 = 0 not(TMP\_571) = 1 TMP\_572 = 1 not(TMP\_572) = 0 TMP\_573 = 1 not(TMP\_573) = 0 TMP\_574 = 1 not(TMP\_574) = 0 TMP\_575 = 1 not(TMP\_575) = 0 TMP\_576 = 5 TMP\_577 = 0 not(TMP\_577) = 1 TMP\_578 = 0 not(TMP\_578) = 1 TMP\_579 = 0 TMP\_580 = 1 not(TMP\_580) = 0 TMP\_581 = 1 not(TMP\_581) = 0 TMP\_582 = 2 TMP\_583 = 0 not(TMP\_583) = 1 TMP\_584 = 0 not(TMP\_584) = 1 TMP\_585 = 1 not(TMP\_585) = 0 TMP\_586 = 1 not(TMP\_586) = 0 TMP\_587 = 1 not(TMP\_587) = 0 TMP\_588 = 2 TMP\_589 = 1 not(TMP\_589) = 0 TMP\_590 = 1 not(TMP\_590) = 0 TMP\_591 = 0 not(TMP\_591) = 1 TMP\_592 = 1 not(TMP\_592) = 0 TMP\_593 = 1 not(TMP\_593) = 0 TMP\_594 = 1 not(TMP\_594) = 0 TMP\_595 = 5 TMP\_596 = 0 not(TMP\_596) = 1 TMP\_597 = 0 not(TMP\_597) = 1 TMP\_598 = 0 TMP\_599 = 1 not(TMP\_599) = 0 TMP\_600 = 1 not(TMP\_600) = 0 TMP\_601 = 2 TMP\_602 = 0 not(TMP\_602) = 1 TMP\_603 = 0 not(TMP\_603) = 1 TMP\_604 = 1 not(TMP\_604) = 0 TMP\_605 = 1 not(TMP\_605) = 0 TMP\_606 = 1 not(TMP\_606) = 0 TMP\_607 = 2 TMP\_608 = 1 not(TMP\_608) = 0 TMP\_609 = 0 not(TMP\_609) = 1 TMP\_610 = 1 not(TMP\_610) = 0 TMP\_611 = 1 not(TMP\_611) = 0 TMP\_612 = 1 not(TMP\_612) = 0 TMP\_613 = 1 not(TMP\_613) = 0 TMP\_614 = 5 TMP\_615 = 0 not(TMP\_615) = 1 TMP\_616 = 0 not(TMP\_616) = 1 TMP\_617 = 0 TMP\_618 = 1 not(TMP\_618) = 0 TMP\_619 = 1 not(TMP\_619) = 0 TMP\_620 = 2 TMP\_621 = 0 not(TMP\_621) = 1 TMP\_622 = 0 not(TMP\_622) = 1 TMP\_623 = 1 not(TMP\_623) = 0 TMP\_624 = 1 not(TMP\_624) = 0 TMP\_625 = 1 not(TMP\_625) = 0 TMP\_626 = 2 TMP\_627 = 1 not(TMP\_627) = 0 TMP\_628 = 0 not(TMP\_628) = 1 TMP\_629 = 1 not(TMP\_629) = 0 TMP\_630 = 1 not(TMP\_630) = 0 TMP\_631 = 1 not(TMP\_631) = 0 TMP\_632 = 0 not(TMP\_632) = 1 TMP\_633 = 4 TMP\_634 = 0 not(TMP\_634) = 1 TMP\_635 = 0 not(TMP\_635) = 1 TMP\_636 = 0 TMP\_637 = 1 not(TMP\_637) = 0 TMP\_638 = 1 not(TMP\_638) = 0 TMP\_639 = 2 TMP\_640 = 0 not(TMP\_640) = 1 TMP\_641 = 0 not(TMP\_641) = 1 TMP\_642 = 1 not(TMP\_642) = 0 TMP\_643 = 1 not(TMP\_643) = 0 TMP\_644 = 1 not(TMP\_644) = 0 TMP\_645 = 2 TMP\_646 = 1 not(TMP\_646) = 0 TMP\_647 = 1 not(TMP\_647) = 0 TMP\_648 = 1 not(TMP\_648) = 0 TMP\_649 = 1 not(TMP\_649) = 0 TMP\_650 = 1 not(TMP\_650) = 0 TMP\_651 = 0 not(TMP\_651) = 1 TMP\_652 = 5 TMP\_653 = 0 not(TMP\_653) = 1 TMP\_654 = 0 not(TMP\_654) = 1 TMP\_655 = 0 TMP\_656 = 1 not(TMP\_656) = 0 TMP\_657 = 1 not(TMP\_657) = 0 TMP\_658 = 2 TMP\_659 = 0 not(TMP\_659) = 1 TMP\_660 = 0 not(TMP\_660) = 1 TMP\_661 = 1 not(TMP\_661) = 0 TMP\_662 = 1 not(TMP\_662) = 0 TMP\_663 = 1 not(TMP\_663) = 0 TMP\_664 = 2 Area\_0 = 60 Distance\_0\_Rule\_0 = 20 Distance\_1\_Rule\_0 = 3 Distance\_2\_Rule\_0 = 1 Area\_1 = 174 Distance\_0\_Rule\_1 = 58 Distance\_1\_Rule\_1 = 3 Distance\_2\_Rule\_1 = 1 Area\_2 = 116 Distance\_0\_Rule\_2 = 58 Distance\_1\_Rule\_2 = 2 Distance\_2\_Rule\_2 = 1 Area\_3 = 79 -(Rule\_3\_LB) = 0 Distance\_0\_Rule\_3 = 79 -(Rule\_3\_LB) = 0 Distance\_1\_Rule\_3 = 1 -(Rule\_3\_LB) = 0 Distance\_2\_Rule\_3 = 1 Area\_4 = 123 -(Rule\_4\_LB) = -79 Distance\_0\_Rule\_4 = 41 -(Rule\_4\_LB) = 0 Distance\_1\_Rule\_4 = 3 -(Rule\_4\_LB) = 0 Distance\_2\_Rule\_4 = 1 Area\_5 = 123 -(Rule\_5\_LB) = -79 Distance\_0\_Rule\_5 = 41 -(Rule\_5\_LB) = 0 Distance\_1\_Rule\_5 = 3 -(Rule\_5\_LB) = -1 Distance\_2\_Rule\_5 = 1 Area\_6 = 3 -(Rule\_6\_LB) = -20 Distance\_0\_Rule\_6 = 1 -(Rule\_6\_LB) = 0 Distance\_1\_Rule\_6 = 3 -(Rule\_6\_LB) = -1 Distance\_2\_Rule\_6 = 1 Area\_7 = 42 -(Rule\_7\_LB) = 0 Distance\_0\_Rule\_7 = 21 -(Rule\_7\_LB) = -1 Distance\_1\_Rule\_7 = 2 -(Rule\_7\_LB) = 0 Distance\_2\_Rule\_7 = 1 TMP\_665 = 720 .

- Solution #12 found. 12 Solutions, Resolution 3.194s, 23837 Nodes (7,463.4 n/s), 47608 Backtracks, 23801 Fails, 0 Restarts

Rule\_3\_LB = 0 Rule\_3\_UB = 79 Rule\_3\_LB = 0 Rule\_3\_UB = 1 Rule\_3\_LB = 0 Rule\_3\_UB = 1 Rule\_4\_LB = 79 Rule\_4\_UB = 120 Rule\_4\_LB = 0 Rule\_4\_UB = 3 Rule\_4\_LB = 0 Rule\_4\_UB = 1 Rule\_5\_LB = 79 Rule\_5\_UB = 120 Rule\_5\_LB = 0 Rule\_5\_UB = 3 Rule\_5\_LB = 1 Rule\_5\_UB = 2 Rule\_6\_LB = 20 Rule\_6\_UB = 21 Rule\_6\_LB = 0 Rule\_6\_UB = 3 Rule\_6\_LB = 1 Rule\_6\_UB = 2 Rule\_7\_LB = 0 Rule\_7\_UB = 21 Rule\_7\_LB = 1 Rule\_7\_UB = 3 Rule\_7\_LB = 0 Rule\_7\_UB = 1 Overlaps\_0\_0 = 0 Overlaps\_0\_1 = 1 Overlaps\_0\_2 = 0 Overlaps\_0\_3 = 0 Overlaps\_0\_4 = 0 Overlaps\_0\_5 = 0 Overlaps\_0\_6 = 0 Overlaps\_0\_7 = 0 Overlaps\_1\_0 = 0 Overlaps\_1\_1 = 0 Overlaps\_1\_2 = 1 Overlaps\_1\_3 = 0 Overlaps\_1\_4 = 0 Overlaps\_1\_5 = 0 Overlaps\_1\_6 = 0 Overlaps\_1\_7 = 0 Overlaps\_2\_0 = 0 Overlaps\_2\_1 = 1 Overlaps\_2\_2 = 0 Overlaps\_2\_3 = 0 Overlaps\_2\_4 = 0 Overlaps\_2\_5 = 0 Overlaps\_2\_6 = 0 Overlaps\_2\_7 = 0 Overlaps\_3\_0 = 0 Overlaps\_3\_1 = 0 Overlaps\_3\_2 = 0 Overlaps\_3\_3 = 0 Overlaps\_3\_4 = 0 Overlaps\_3\_5 = 0 Overlaps\_3\_6 = 0 Overlaps\_3\_7 = 0 Overlaps\_4\_0 = 0 Overlaps\_4\_1 = 0 Overlaps\_4\_2 = 0 Overlaps\_4\_3 = 0 Overlaps\_4\_4 = 0 Overlaps\_4\_5 = 0 Overlaps\_4\_6 = 0 Overlaps\_4\_7 = 0 Overlaps\_5\_0 = 0 Overlaps\_5\_1 = 0 Overlaps\_5\_2 = 0 Overlaps\_5\_3 = 0 Overlaps\_5\_4 = 0 Overlaps\_5\_5 = 0 Overlaps\_5\_6 = 0 Overlaps\_5\_7 = 0 Overlaps\_6\_0 = 0 Overlaps\_6\_1 = 0 Overlaps\_6\_2 = 0 Overlaps\_6\_3 = 0 Overlaps\_6\_4 = 0 Overlaps\_6\_5 = 0 Overlaps\_6\_6 = 0 Overlaps\_6\_7 = 0 Overlaps\_7\_0 = 0 Overlaps\_7\_1 = 0 Overlaps\_7\_2 = 0 Overlaps\_7\_3 = 0 Overlaps\_7\_4 = 0 Overlaps\_7\_5 = 0 Overlaps\_7\_6 = 0 Overlaps\_7\_7 = 0 TMP\_0 = 1 not(TMP\_0) = 0 TMP\_1 = 1 not(TMP\_1) = 0 TMP\_2 = 1 not(TMP\_2) = 0 TMP\_3 = 1 not(TMP\_3) = 0 TMP\_4 = 1 not(TMP\_4) = 0 TMP\_5 = 0 not(TMP\_5) = 1 TMP\_6 = 5 TMP\_7 = 0 not(TMP\_7) = 1 TMP\_8 = 0 not(TMP\_8) = 1 TMP\_9 = 0 TMP\_10 = 1 not(TMP\_10) = 0 TMP\_11 = 1 not(TMP\_11) = 0 TMP\_12 = 2 TMP\_13 = 0 not(TMP\_13) = 1 TMP\_14 = 0 not(TMP\_14) = 1 TMP\_15 = 1 not(TMP\_15) = 0 TMP\_16 = 1 not(TMP\_16) = 0 TMP\_17 = 1 not(TMP\_17) = 0 TMP\_18 = 2 TMP\_19 = 1 not(TMP\_19) = 0 TMP\_20 = 1 not(TMP\_20) = 0 TMP\_21 = 1 not(TMP\_21) = 0 TMP\_22 = 1 not(TMP\_22) = 0 TMP\_23 = 1 not(TMP\_23) = 0 TMP\_24 = 0 not(TMP\_24) = 1 TMP\_25 = 5 TMP\_26 = 0 not(TMP\_26) = 1 TMP\_27 = 0 not(TMP\_27) = 1 TMP\_28 = 0 TMP\_29 = 1 not(TMP\_29) = 0 TMP\_30 = 1 not(TMP\_30) = 0 TMP\_31 = 2 TMP\_32 = 0 not(TMP\_32) = 1 TMP\_33 = 0 not(TMP\_33) = 1 TMP\_34 = 1 not(TMP\_34) = 0 TMP\_35 = 1 not(TMP\_35) = 0 TMP\_36 = 1 not(TMP\_36) = 0 TMP\_37 = 2 TMP\_38 = 1 not(TMP\_38) = 0 TMP\_39 = 1 not(TMP\_39) = 0 TMP\_40 = 1 not(TMP\_40) = 0 TMP\_41 = 0 not(TMP\_41) = 1 TMP\_42 = 1 not(TMP\_42) = 0 TMP\_43 = 1 not(TMP\_43) = 0 TMP\_44 = 5 TMP\_45 = 0 not(TMP\_45) = 1 TMP\_46 = 0 not(TMP\_46) = 1 TMP\_47 = 0 TMP\_48 = 1 not(TMP\_48) = 0 TMP\_49 = 1 not(TMP\_49) = 0 TMP\_50 = 2 TMP\_51 = 0 not(TMP\_51) = 1 TMP\_52 = 0 not(TMP\_52) = 1 TMP\_53 = 1 not(TMP\_53) = 0 TMP\_54 = 1 not(TMP\_54) = 0 TMP\_55 = 1 not(TMP\_55) = 0 TMP\_56 = 2 TMP\_57 = 1 not(TMP\_57) = 0 TMP\_58 = 0 not(TMP\_58) = 1 TMP\_59 = 1 not(TMP\_59) = 0 TMP\_60 = 1 not(TMP\_60) = 0 TMP\_61 = 1 not(TMP\_61) = 0 TMP\_62 = 1 not(TMP\_62) = 0 TMP\_63 = 5 TMP\_64 = 0 not(TMP\_64) = 1 TMP\_65 = 0 not(TMP\_65) = 1 TMP\_66 = 0 TMP\_67 = 1 not(TMP\_67) = 0 TMP\_68 = 1 not(TMP\_68) = 0 TMP\_69 = 2 TMP\_70 = 0 not(TMP\_70) = 1 TMP\_71 = 0 not(TMP\_71) = 1 TMP\_72 = 1 not(TMP\_72) = 0 TMP\_73 = 1 not(TMP\_73) = 0 TMP\_74 = 1 not(TMP\_74) = 0 TMP\_75 = 2 TMP\_76 = 1 not(TMP\_76) = 0 TMP\_77 = 0 not(TMP\_77) = 1 TMP\_78 = 1 not(TMP\_78) = 0 TMP\_79 = 1 not(TMP\_79) = 0 TMP\_80 = 1 not(TMP\_80) = 0 TMP\_81 = 0 not(TMP\_81) = 1 TMP\_82 = 4 TMP\_83 = 0 not(TMP\_83) = 1 TMP\_84 = 0 not(TMP\_84) = 1 TMP\_85 = 0 TMP\_86 = 1 not(TMP\_86) = 0 TMP\_87 = 1 not(TMP\_87) = 0 TMP\_88 = 2 TMP\_89 = 0 not(TMP\_89) = 1 TMP\_90 = 0 not(TMP\_90) = 1 TMP\_91 = 1 not(TMP\_91) = 0 TMP\_92 = 1 not(TMP\_92) = 0 TMP\_93 = 1 not(TMP\_93) = 0 TMP\_94 = 2 TMP\_95 = 1 not(TMP\_95) = 0 TMP\_96 = 1 not(TMP\_96) = 0 TMP\_97 = 1 not(TMP\_97) = 0 TMP\_98 = 1 not(TMP\_98) = 0 TMP\_99 = 1 not(TMP\_99) = 0 TMP\_100 = 0 not(TMP\_100) = 1 TMP\_101 = 5 TMP\_102 = 0 not(TMP\_102) = 1 TMP\_103 = 0 not(TMP\_103) = 1 TMP\_104 = 0 TMP\_105 = 1 not(TMP\_105) = 0 TMP\_106 = 1 not(TMP\_106) = 0 TMP\_107 = 2 TMP\_108 = 0 not(TMP\_108) = 1 TMP\_109 = 0 not(TMP\_109) = 1 TMP\_110 = 1 not(TMP\_110) = 0 TMP\_111 = 1 not(TMP\_111) = 0 TMP\_112 = 1 not(TMP\_112) = 0 TMP\_113 = 2 TMP\_114 = 1 not(TMP\_114) = 0 TMP\_115 = 1 not(TMP\_115) = 0 TMP\_116 = 1 not(TMP\_116) = 0 TMP\_117 = 0 not(TMP\_117) = 1 TMP\_118 = 1 not(TMP\_118) = 0 TMP\_119 = 1 not(TMP\_119) = 0 TMP\_120 = 5 TMP\_121 = 0 not(TMP\_121) = 1 TMP\_122 = 0 not(TMP\_122) = 1 TMP\_123 = 0 TMP\_124 = 1 not(TMP\_124) = 0 TMP\_125 = 1 not(TMP\_125) = 0 TMP\_126 = 2 TMP\_127 = 0 not(TMP\_127) = 1 TMP\_128 = 0 not(TMP\_128) = 1 TMP\_129 = 1 not(TMP\_129) = 0 TMP\_130 = 1 not(TMP\_130) = 0 TMP\_131 = 1 not(TMP\_131) = 0 TMP\_132 = 2 TMP\_133 = 0 not(TMP\_133) = 1 TMP\_134 = 1 not(TMP\_134) = 0 TMP\_135 = 1 not(TMP\_135) = 0 TMP\_136 = 1 not(TMP\_136) = 0 TMP\_137 = 1 not(TMP\_137) = 0 TMP\_138 = 0 not(TMP\_138) = 1 TMP\_139 = 4 TMP\_140 = 0 not(TMP\_140) = 1 TMP\_141 = 0 not(TMP\_141) = 1 TMP\_142 = 0 TMP\_143 = 1 not(TMP\_143) = 0 TMP\_144 = 1 not(TMP\_144) = 0 TMP\_145 = 2 TMP\_146 = 0 not(TMP\_146) = 1 TMP\_147 = 0 not(TMP\_147) = 1 TMP\_148 = 1 not(TMP\_148) = 0 TMP\_149 = 1 not(TMP\_149) = 0 TMP\_150 = 1 not(TMP\_150) = 0 TMP\_151 = 2 TMP\_152 = 0 not(TMP\_152) = 1 TMP\_153 = 1 not(TMP\_153) = 0 TMP\_154 = 1 not(TMP\_154) = 0 TMP\_155 = 1 not(TMP\_155) = 0 TMP\_156 = 1 not(TMP\_156) = 0 TMP\_157 = 0 not(TMP\_157) = 1 TMP\_158 = 4 TMP\_159 = 0 not(TMP\_159) = 1 TMP\_160 = 0 not(TMP\_160) = 1 TMP\_161 = 0 TMP\_162 = 1 not(TMP\_162) = 0 TMP\_163 = 1 not(TMP\_163) = 0 TMP\_164 = 2 TMP\_165 = 0 not(TMP\_165) = 1 TMP\_166 = 0 not(TMP\_166) = 1 TMP\_167 = 1 not(TMP\_167) = 0 TMP\_168 = 1 not(TMP\_168) = 0 TMP\_169 = 1 not(TMP\_169) = 0 TMP\_170 = 2 TMP\_171 = 0 not(TMP\_171) = 1 TMP\_172 = 1 not(TMP\_172) = 0 TMP\_173 = 1 not(TMP\_173) = 0 TMP\_174 = 1 not(TMP\_174) = 0 TMP\_175 = 1 not(TMP\_175) = 0 TMP\_176 = 1 not(TMP\_176) = 0 TMP\_177 = 5 TMP\_178 = 0 not(TMP\_178) = 1 TMP\_179 = 0 not(TMP\_179) = 1 TMP\_180 = 0 TMP\_181 = 1 not(TMP\_181) = 0 TMP\_182 = 1 not(TMP\_182) = 0 TMP\_183 = 2 TMP\_184 = 0 not(TMP\_184) = 1 TMP\_185 = 0 not(TMP\_185) = 1 TMP\_186 = 1 not(TMP\_186) = 0 TMP\_187 = 1 not(TMP\_187) = 0 TMP\_188 = 1 not(TMP\_188) = 0 TMP\_189 = 2 TMP\_190 = 0 not(TMP\_190) = 1 TMP\_191 = 1 not(TMP\_191) = 0 TMP\_192 = 1 not(TMP\_192) = 0 TMP\_193 = 1 not(TMP\_193) = 0 TMP\_194 = 1 not(TMP\_194) = 0 TMP\_195 = 1 not(TMP\_195) = 0 TMP\_196 = 5 TMP\_197 = 0 not(TMP\_197) = 1 TMP\_198 = 0 not(TMP\_198) = 1 TMP\_199 = 0 TMP\_200 = 1 not(TMP\_200) = 0 TMP\_201 = 1 not(TMP\_201) = 0 TMP\_202 = 2 TMP\_203 = 0 not(TMP\_203) = 1 TMP\_204 = 0 not(TMP\_204) = 1 TMP\_205 = 1 not(TMP\_205) = 0 TMP\_206 = 1 not(TMP\_206) = 0 TMP\_207 = 1 not(TMP\_207) = 0 TMP\_208 = 2 TMP\_209 = 1 not(TMP\_209) = 0 TMP\_210 = 1 not(TMP\_210) = 0 TMP\_211 = 1 not(TMP\_211) = 0 TMP\_212 = 1 not(TMP\_212) = 0 TMP\_213 = 1 not(TMP\_213) = 0 TMP\_214 = 0 not(TMP\_214) = 1 TMP\_215 = 5 TMP\_216 = 0 not(TMP\_216) = 1 TMP\_217 = 0 not(TMP\_217) = 1 TMP\_218 = 0 TMP\_219 = 1 not(TMP\_219) = 0 TMP\_220 = 1 not(TMP\_220) = 0 TMP\_221 = 2 TMP\_222 = 0 not(TMP\_222) = 1 TMP\_223 = 0 not(TMP\_223) = 1 TMP\_224 = 1 not(TMP\_224) = 0 TMP\_225 = 1 not(TMP\_225) = 0 TMP\_226 = 1 not(TMP\_226) = 0 TMP\_227 = 2 TMP\_228 = 0 not(TMP\_228) = 1 TMP\_229 = 1 not(TMP\_229) = 0 TMP\_230 = 1 not(TMP\_230) = 0 TMP\_231 = 1 not(TMP\_231) = 0 TMP\_232 = 1 not(TMP\_232) = 0 TMP\_233 = 0 not(TMP\_233) = 1 TMP\_234 = 4 TMP\_235 = 0 not(TMP\_235) = 1 TMP\_236 = 0 not(TMP\_236) = 1 TMP\_237 = 0 TMP\_238 = 1 not(TMP\_238) = 0 TMP\_239 = 1 not(TMP\_239) = 0 TMP\_240 = 2 TMP\_241 = 0 not(TMP\_241) = 1 TMP\_242 = 0 not(TMP\_242) = 1 TMP\_243 = 1 not(TMP\_243) = 0 TMP\_244 = 1 not(TMP\_244) = 0 TMP\_245 = 1 not(TMP\_245) = 0 TMP\_246 = 2 TMP\_247 = 0 not(TMP\_247) = 1 TMP\_248 = 1 not(TMP\_248) = 0 TMP\_249 = 1 not(TMP\_249) = 0 TMP\_250 = 1 not(TMP\_250) = 0 TMP\_251 = 1 not(TMP\_251) = 0 TMP\_252 = 1 not(TMP\_252) = 0 TMP\_253 = 5 TMP\_254 = 0 not(TMP\_254) = 1 TMP\_255 = 0 not(TMP\_255) = 1 TMP\_256 = 0 TMP\_257 = 1 not(TMP\_257) = 0 TMP\_258 = 1 not(TMP\_258) = 0 TMP\_259 = 2 TMP\_260 = 0 not(TMP\_260) = 1 TMP\_261 = 0 not(TMP\_261) = 1 TMP\_262 = 1 not(TMP\_262) = 0 TMP\_263 = 1 not(TMP\_263) = 0 TMP\_264 = 1 not(TMP\_264) = 0 TMP\_265 = 2 TMP\_266 = 0 not(TMP\_266) = 1 TMP\_267 = 1 not(TMP\_267) = 0 TMP\_268 = 1 not(TMP\_268) = 0 TMP\_269 = 1 not(TMP\_269) = 0 TMP\_270 = 1 not(TMP\_270) = 0 TMP\_271 = 1 not(TMP\_271) = 0 TMP\_272 = 5 TMP\_273 = 0 not(TMP\_273) = 1 TMP\_274 = 0 not(TMP\_274) = 1 TMP\_275 = 0 TMP\_276 = 1 not(TMP\_276) = 0 TMP\_277 = 1 not(TMP\_277) = 0 TMP\_278 = 2 TMP\_279 = 0 not(TMP\_279) = 1 TMP\_280 = 0 not(TMP\_280) = 1 TMP\_281 = 1 not(TMP\_281) = 0 TMP\_282 = 1 not(TMP\_282) = 0 TMP\_283 = 1 not(TMP\_283) = 0 TMP\_284 = 2 TMP\_285 = 0 not(TMP\_285) = 1 TMP\_286 = 1 not(TMP\_286) = 0 TMP\_287 = 1 not(TMP\_287) = 0 TMP\_288 = 1 not(TMP\_288) = 0 TMP\_289 = 1 not(TMP\_289) = 0 TMP\_290 = 1 not(TMP\_290) = 0 TMP\_291 = 5 TMP\_292 = 0 not(TMP\_292) = 1 TMP\_293 = 0 not(TMP\_293) = 1 TMP\_294 = 0 TMP\_295 = 1 not(TMP\_295) = 0 TMP\_296 = 1 not(TMP\_296) = 0 TMP\_297 = 2 TMP\_298 = 0 not(TMP\_298) = 1 TMP\_299 = 0 not(TMP\_299) = 1 TMP\_300 = 1 not(TMP\_300) = 0 TMP\_301 = 1 not(TMP\_301) = 0 TMP\_302 = 1 not(TMP\_302) = 0 TMP\_303 = 2 TMP\_304 = 0 not(TMP\_304) = 1 TMP\_305 = 1 not(TMP\_305) = 0 TMP\_306 = 1 not(TMP\_306) = 0 TMP\_307 = 1 not(TMP\_307) = 0 TMP\_308 = 0 not(TMP\_308) = 1 TMP\_309 = 1 not(TMP\_309) = 0 TMP\_310 = 4 TMP\_311 = 0 not(TMP\_311) = 1 TMP\_312 = 0 not(TMP\_312) = 1 TMP\_313 = 0 TMP\_314 = 1 not(TMP\_314) = 0 TMP\_315 = 1 not(TMP\_315) = 0 TMP\_316 = 2 TMP\_317 = 0 not(TMP\_317) = 1 TMP\_318 = 0 not(TMP\_318) = 1 TMP\_319 = 1 not(TMP\_319) = 0 TMP\_320 = 1 not(TMP\_320) = 0 TMP\_321 = 1 not(TMP\_321) = 0 TMP\_322 = 2 TMP\_323 = 0 not(TMP\_323) = 1 TMP\_324 = 1 not(TMP\_324) = 0 TMP\_325 = 1 not(TMP\_325) = 0 TMP\_326 = 1 not(TMP\_326) = 0 TMP\_327 = 0 not(TMP\_327) = 1 TMP\_328 = 1 not(TMP\_328) = 0 TMP\_329 = 4 TMP\_330 = 0 not(TMP\_330) = 1 TMP\_331 = 0 not(TMP\_331) = 1 TMP\_332 = 0 TMP\_333 = 1 not(TMP\_333) = 0 TMP\_334 = 1 not(TMP\_334) = 0 TMP\_335 = 2 TMP\_336 = 0 not(TMP\_336) = 1 TMP\_337 = 0 not(TMP\_337) = 1 TMP\_338 = 1 not(TMP\_338) = 0 TMP\_339 = 1 not(TMP\_339) = 0 TMP\_340 = 1 not(TMP\_340) = 0 TMP\_341 = 2 TMP\_342 = 1 not(TMP\_342) = 0 TMP\_343 = 1 not(TMP\_343) = 0 TMP\_344 = 1 not(TMP\_344) = 0 TMP\_345 = 1 not(TMP\_345) = 0 TMP\_346 = 0 not(TMP\_346) = 1 TMP\_347 = 1 not(TMP\_347) = 0 TMP\_348 = 5 TMP\_349 = 0 not(TMP\_349) = 1 TMP\_350 = 0 not(TMP\_350) = 1 TMP\_351 = 0 TMP\_352 = 1 not(TMP\_352) = 0 TMP\_353 = 1 not(TMP\_353) = 0 TMP\_354 = 2 TMP\_355 = 0 not(TMP\_355) = 1 TMP\_356 = 0 not(TMP\_356) = 1 TMP\_357 = 1 not(TMP\_357) = 0 TMP\_358 = 1 not(TMP\_358) = 0 TMP\_359 = 1 not(TMP\_359) = 0 TMP\_360 = 2 TMP\_361 = 0 not(TMP\_361) = 1 TMP\_362 = 1 not(TMP\_362) = 0 TMP\_363 = 1 not(TMP\_363) = 0 TMP\_364 = 1 not(TMP\_364) = 0 TMP\_365 = 1 not(TMP\_365) = 0 TMP\_366 = 1 not(TMP\_366) = 0 TMP\_367 = 5 TMP\_368 = 0 not(TMP\_368) = 1 TMP\_369 = 0 not(TMP\_369) = 1 TMP\_370 = 0 TMP\_371 = 1 not(TMP\_371) = 0 TMP\_372 = 1 not(TMP\_372) = 0 TMP\_373 = 2 TMP\_374 = 0 not(TMP\_374) = 1 TMP\_375 = 0 not(TMP\_375) = 1 TMP\_376 = 1 not(TMP\_376) = 0 TMP\_377 = 1 not(TMP\_377) = 0 TMP\_378 = 1 not(TMP\_378) = 0 TMP\_379 = 2 TMP\_380 = 0 not(TMP\_380) = 1 TMP\_381 = 1 not(TMP\_381) = 0 TMP\_382 = 1 not(TMP\_382) = 0 TMP\_383 = 1 not(TMP\_383) = 0 TMP\_384 = 0 not(TMP\_384) = 1 TMP\_385 = 1 not(TMP\_385) = 0 TMP\_386 = 4 TMP\_387 = 0 not(TMP\_387) = 1 TMP\_388 = 0 not(TMP\_388) = 1 TMP\_389 = 0 TMP\_390 = 1 not(TMP\_390) = 0 TMP\_391 = 1 not(TMP\_391) = 0 TMP\_392 = 2 TMP\_393 = 0 not(TMP\_393) = 1 TMP\_394 = 0 not(TMP\_394) = 1 TMP\_395 = 1 not(TMP\_395) = 0 TMP\_396 = 1 not(TMP\_396) = 0 TMP\_397 = 1 not(TMP\_397) = 0 TMP\_398 = 2 TMP\_399 = 0 not(TMP\_399) = 1 TMP\_400 = 1 not(TMP\_400) = 0 TMP\_401 = 1 not(TMP\_401) = 0 TMP\_402 = 1 not(TMP\_402) = 0 TMP\_403 = 1 not(TMP\_403) = 0 TMP\_404 = 1 not(TMP\_404) = 0 TMP\_405 = 5 TMP\_406 = 0 not(TMP\_406) = 1 TMP\_407 = 0 not(TMP\_407) = 1 TMP\_408 = 0 TMP\_409 = 1 not(TMP\_409) = 0 TMP\_410 = 1 not(TMP\_410) = 0 TMP\_411 = 2 TMP\_412 = 0 not(TMP\_412) = 1 TMP\_413 = 0 not(TMP\_413) = 1 TMP\_414 = 1 not(TMP\_414) = 0 TMP\_415 = 1 not(TMP\_415) = 0 TMP\_416 = 1 not(TMP\_416) = 0 TMP\_417 = 2 TMP\_418 = 1 not(TMP\_418) = 0 TMP\_419 = 0 not(TMP\_419) = 1 TMP\_420 = 1 not(TMP\_420) = 0 TMP\_421 = 1 not(TMP\_421) = 0 TMP\_422 = 1 not(TMP\_422) = 0 TMP\_423 = 1 not(TMP\_423) = 0 TMP\_424 = 5 TMP\_425 = 0 not(TMP\_425) = 1 TMP\_426 = 0 not(TMP\_426) = 1 TMP\_427 = 0 TMP\_428 = 1 not(TMP\_428) = 0 TMP\_429 = 1 not(TMP\_429) = 0 TMP\_430 = 2 TMP\_431 = 0 not(TMP\_431) = 1 TMP\_432 = 0 not(TMP\_432) = 1 TMP\_433 = 1 not(TMP\_433) = 0 TMP\_434 = 1 not(TMP\_434) = 0 TMP\_435 = 1 not(TMP\_435) = 0 TMP\_436 = 2 TMP\_437 = 1 not(TMP\_437) = 0 TMP\_438 = 0 not(TMP\_438) = 1 TMP\_439 = 1 not(TMP\_439) = 0 TMP\_440 = 1 not(TMP\_440) = 0 TMP\_441 = 0 not(TMP\_441) = 1 TMP\_442 = 1 not(TMP\_442) = 0 TMP\_443 = 4 TMP\_444 = 0 not(TMP\_444) = 1 TMP\_445 = 0 not(TMP\_445) = 1 TMP\_446 = 0 TMP\_447 = 1 not(TMP\_447) = 0 TMP\_448 = 1 not(TMP\_448) = 0 TMP\_449 = 2 TMP\_450 = 0 not(TMP\_450) = 1 TMP\_451 = 0 not(TMP\_451) = 1 TMP\_452 = 1 not(TMP\_452) = 0 TMP\_453 = 1 not(TMP\_453) = 0 TMP\_454 = 1 not(TMP\_454) = 0 TMP\_455 = 2 TMP\_456 = 1 not(TMP\_456) = 0 TMP\_457 = 1 not(TMP\_457) = 0 TMP\_458 = 1 not(TMP\_458) = 0 TMP\_459 = 1 not(TMP\_459) = 0 TMP\_460 = 0 not(TMP\_460) = 1 TMP\_461 = 1 not(TMP\_461) = 0 TMP\_462 = 5 TMP\_463 = 0 not(TMP\_463) = 1 TMP\_464 = 0 not(TMP\_464) = 1 TMP\_465 = 0 TMP\_466 = 1 not(TMP\_466) = 0 TMP\_467 = 1 not(TMP\_467) = 0 TMP\_468 = 2 TMP\_469 = 0 not(TMP\_469) = 1 TMP\_470 = 0 not(TMP\_470) = 1 TMP\_471 = 1 not(TMP\_471) = 0 TMP\_472 = 1 not(TMP\_472) = 0 TMP\_473 = 1 not(TMP\_473) = 0 TMP\_474 = 2 TMP\_475 = 1 not(TMP\_475) = 0 TMP\_476 = 0 not(TMP\_476) = 1 TMP\_477 = 1 not(TMP\_477) = 0 TMP\_478 = 1 not(TMP\_478) = 0 TMP\_479 = 0 not(TMP\_479) = 1 TMP\_480 = 1 not(TMP\_480) = 0 TMP\_481 = 4 TMP\_482 = 0 not(TMP\_482) = 1 TMP\_483 = 0 not(TMP\_483) = 1 TMP\_484 = 0 TMP\_485 = 1 not(TMP\_485) = 0 TMP\_486 = 1 not(TMP\_486) = 0 TMP\_487 = 2 TMP\_488 = 0 not(TMP\_488) = 1 TMP\_489 = 0 not(TMP\_489) = 1 TMP\_490 = 1 not(TMP\_490) = 0 TMP\_491 = 1 not(TMP\_491) = 0 TMP\_492 = 1 not(TMP\_492) = 0 TMP\_493 = 2 TMP\_494 = 1 not(TMP\_494) = 0 TMP\_495 = 0 not(TMP\_495) = 1 TMP\_496 = 1 not(TMP\_496) = 0 TMP\_497 = 1 not(TMP\_497) = 0 TMP\_498 = 1 not(TMP\_498) = 0 TMP\_499 = 1 not(TMP\_499) = 0 TMP\_500 = 5 TMP\_501 = 0 not(TMP\_501) = 1 TMP\_502 = 0 not(TMP\_502) = 1 TMP\_503 = 0 TMP\_504 = 1 not(TMP\_504) = 0 TMP\_505 = 1 not(TMP\_505) = 0 TMP\_506 = 2 TMP\_507 = 0 not(TMP\_507) = 1 TMP\_508 = 0 not(TMP\_508) = 1 TMP\_509 = 1 not(TMP\_509) = 0 TMP\_510 = 1 not(TMP\_510) = 0 TMP\_511 = 1 not(TMP\_511) = 0 TMP\_512 = 2 TMP\_513 = 1 not(TMP\_513) = 0 TMP\_514 = 1 not(TMP\_514) = 0 TMP\_515 = 1 not(TMP\_515) = 0 TMP\_516 = 1 not(TMP\_516) = 0 TMP\_517 = 0 not(TMP\_517) = 1 TMP\_518 = 1 not(TMP\_518) = 0 TMP\_519 = 5 TMP\_520 = 0 not(TMP\_520) = 1 TMP\_521 = 0 not(TMP\_521) = 1 TMP\_522 = 0 TMP\_523 = 1 not(TMP\_523) = 0 TMP\_524 = 1 not(TMP\_524) = 0 TMP\_525 = 2 TMP\_526 = 0 not(TMP\_526) = 1 TMP\_527 = 0 not(TMP\_527) = 1 TMP\_528 = 1 not(TMP\_528) = 0 TMP\_529 = 1 not(TMP\_529) = 0 TMP\_530 = 1 not(TMP\_530) = 0 TMP\_531 = 2 TMP\_532 = 1 not(TMP\_532) = 0 TMP\_533 = 1 not(TMP\_533) = 0 TMP\_534 = 1 not(TMP\_534) = 0 TMP\_535 = 1 not(TMP\_535) = 0 TMP\_536 = 1 not(TMP\_536) = 0 TMP\_537 = 0 not(TMP\_537) = 1 TMP\_538 = 5 TMP\_539 = 0 not(TMP\_539) = 1 TMP\_540 = 0 not(TMP\_540) = 1 TMP\_541 = 0 TMP\_542 = 1 not(TMP\_542) = 0 TMP\_543 = 1 not(TMP\_543) = 0 TMP\_544 = 2 TMP\_545 = 0 not(TMP\_545) = 1 TMP\_546 = 0 not(TMP\_546) = 1 TMP\_547 = 1 not(TMP\_547) = 0 TMP\_548 = 1 not(TMP\_548) = 0 TMP\_549 = 1 not(TMP\_549) = 0 TMP\_550 = 2 TMP\_551 = 1 not(TMP\_551) = 0 TMP\_552 = 0 not(TMP\_552) = 1 TMP\_553 = 1 not(TMP\_553) = 0 TMP\_554 = 1 not(TMP\_554) = 0 TMP\_555 = 1 not(TMP\_555) = 0 TMP\_556 = 0 not(TMP\_556) = 1 TMP\_557 = 4 TMP\_558 = 0 not(TMP\_558) = 1 TMP\_559 = 0 not(TMP\_559) = 1 TMP\_560 = 0 TMP\_561 = 1 not(TMP\_561) = 0 TMP\_562 = 1 not(TMP\_562) = 0 TMP\_563 = 2 TMP\_564 = 0 not(TMP\_564) = 1 TMP\_565 = 0 not(TMP\_565) = 1 TMP\_566 = 1 not(TMP\_566) = 0 TMP\_567 = 1 not(TMP\_567) = 0 TMP\_568 = 1 not(TMP\_568) = 0 TMP\_569 = 2 TMP\_570 = 1 not(TMP\_570) = 0 TMP\_571 = 0 not(TMP\_571) = 1 TMP\_572 = 1 not(TMP\_572) = 0 TMP\_573 = 1 not(TMP\_573) = 0 TMP\_574 = 1 not(TMP\_574) = 0 TMP\_575 = 1 not(TMP\_575) = 0 TMP\_576 = 5 TMP\_577 = 0 not(TMP\_577) = 1 TMP\_578 = 0 not(TMP\_578) = 1 TMP\_579 = 0 TMP\_580 = 1 not(TMP\_580) = 0 TMP\_581 = 1 not(TMP\_581) = 0 TMP\_582 = 2 TMP\_583 = 0 not(TMP\_583) = 1 TMP\_584 = 0 not(TMP\_584) = 1 TMP\_585 = 1 not(TMP\_585) = 0 TMP\_586 = 1 not(TMP\_586) = 0 TMP\_587 = 1 not(TMP\_587) = 0 TMP\_588 = 2 TMP\_589 = 1 not(TMP\_589) = 0 TMP\_590 = 1 not(TMP\_590) = 0 TMP\_591 = 0 not(TMP\_591) = 1 TMP\_592 = 1 not(TMP\_592) = 0 TMP\_593 = 1 not(TMP\_593) = 0 TMP\_594 = 1 not(TMP\_594) = 0 TMP\_595 = 5 TMP\_596 = 0 not(TMP\_596) = 1 TMP\_597 = 0 not(TMP\_597) = 1 TMP\_598 = 0 TMP\_599 = 1 not(TMP\_599) = 0 TMP\_600 = 1 not(TMP\_600) = 0 TMP\_601 = 2 TMP\_602 = 0 not(TMP\_602) = 1 TMP\_603 = 0 not(TMP\_603) = 1 TMP\_604 = 1 not(TMP\_604) = 0 TMP\_605 = 1 not(TMP\_605) = 0 TMP\_606 = 1 not(TMP\_606) = 0 TMP\_607 = 2 TMP\_608 = 1 not(TMP\_608) = 0 TMP\_609 = 0 not(TMP\_609) = 1 TMP\_610 = 1 not(TMP\_610) = 0 TMP\_611 = 1 not(TMP\_611) = 0 TMP\_612 = 1 not(TMP\_612) = 0 TMP\_613 = 1 not(TMP\_613) = 0 TMP\_614 = 5 TMP\_615 = 0 not(TMP\_615) = 1 TMP\_616 = 0 not(TMP\_616) = 1 TMP\_617 = 0 TMP\_618 = 1 not(TMP\_618) = 0 TMP\_619 = 1 not(TMP\_619) = 0 TMP\_620 = 2 TMP\_621 = 0 not(TMP\_621) = 1 TMP\_622 = 0 not(TMP\_622) = 1 TMP\_623 = 1 not(TMP\_623) = 0 TMP\_624 = 1 not(TMP\_624) = 0 TMP\_625 = 1 not(TMP\_625) = 0 TMP\_626 = 2 TMP\_627 = 1 not(TMP\_627) = 0 TMP\_628 = 0 not(TMP\_628) = 1 TMP\_629 = 1 not(TMP\_629) = 0 TMP\_630 = 1 not(TMP\_630) = 0 TMP\_631 = 1 not(TMP\_631) = 0 TMP\_632 = 0 not(TMP\_632) = 1 TMP\_633 = 4 TMP\_634 = 0 not(TMP\_634) = 1 TMP\_635 = 0 not(TMP\_635) = 1 TMP\_636 = 0 TMP\_637 = 1 not(TMP\_637) = 0 TMP\_638 = 1 not(TMP\_638) = 0 TMP\_639 = 2 TMP\_640 = 0 not(TMP\_640) = 1 TMP\_641 = 0 not(TMP\_641) = 1 TMP\_642 = 1 not(TMP\_642) = 0 TMP\_643 = 1 not(TMP\_643) = 0 TMP\_644 = 1 not(TMP\_644) = 0 TMP\_645 = 2 TMP\_646 = 1 not(TMP\_646) = 0 TMP\_647 = 1 not(TMP\_647) = 0 TMP\_648 = 1 not(TMP\_648) = 0 TMP\_649 = 1 not(TMP\_649) = 0 TMP\_650 = 1 not(TMP\_650) = 0 TMP\_651 = 0 not(TMP\_651) = 1 TMP\_652 = 5 TMP\_653 = 0 not(TMP\_653) = 1 TMP\_654 = 0 not(TMP\_654) = 1 TMP\_655 = 0 TMP\_656 = 1 not(TMP\_656) = 0 TMP\_657 = 1 not(TMP\_657) = 0 TMP\_658 = 2 TMP\_659 = 0 not(TMP\_659) = 1 TMP\_660 = 0 not(TMP\_660) = 1 TMP\_661 = 1 not(TMP\_661) = 0 TMP\_662 = 1 not(TMP\_662) = 0 TMP\_663 = 1 not(TMP\_663) = 0 TMP\_664 = 2 Area\_0 = 60 Distance\_0\_Rule\_0 = 20 Distance\_1\_Rule\_0 = 3 Distance\_2\_Rule\_0 = 1 Area\_1 = 174 Distance\_0\_Rule\_1 = 58 Distance\_1\_Rule\_1 = 3 Distance\_2\_Rule\_1 = 1 Area\_2 = 116 Distance\_0\_Rule\_2 = 58 Distance\_1\_Rule\_2 = 2 Distance\_2\_Rule\_2 = 1 Area\_3 = 79 -(Rule\_3\_LB) = 0 Distance\_0\_Rule\_3 = 79 -(Rule\_3\_LB) = 0 Distance\_1\_Rule\_3 = 1 -(Rule\_3\_LB) = 0 Distance\_2\_Rule\_3 = 1 Area\_4 = 123 -(Rule\_4\_LB) = -79 Distance\_0\_Rule\_4 = 41 -(Rule\_4\_LB) = 0 Distance\_1\_Rule\_4 = 3 -(Rule\_4\_LB) = 0 Distance\_2\_Rule\_4 = 1 Area\_5 = 123 -(Rule\_5\_LB) = -79 Distance\_0\_Rule\_5 = 41 -(Rule\_5\_LB) = 0 Distance\_1\_Rule\_5 = 3 -(Rule\_5\_LB) = -1 Distance\_2\_Rule\_5 = 1 Area\_6 = 3 -(Rule\_6\_LB) = -20 Distance\_0\_Rule\_6 = 1 -(Rule\_6\_LB) = 0 Distance\_1\_Rule\_6 = 3 -(Rule\_6\_LB) = -1 Distance\_2\_Rule\_6 = 1 Area\_7 = 42 -(Rule\_7\_LB) = 0 Distance\_0\_Rule\_7 = 21 -(Rule\_7\_LB) = -1 Distance\_1\_Rule\_7 = 2 -(Rule\_7\_LB) = 0 Distance\_2\_Rule\_7 = 1 TMP\_665 = 720 .

- Solution #13 found. 13 Solutions, Resolution 3.201s, 23840 Nodes (7,447.6 n/s), 47611 Backtracks, 23801 Fails, 0 Restarts

Rule\_3\_LB = 0 Rule\_3\_UB = 79 Rule\_3\_LB = 0 Rule\_3\_UB = 1 Rule\_3\_LB = 0 Rule\_3\_UB = 1 Rule\_4\_LB = 79 Rule\_4\_UB = 120 Rule\_4\_LB = 0 Rule\_4\_UB = 3 Rule\_4\_LB = 0 Rule\_4\_UB = 1 Rule\_5\_LB = 79 Rule\_5\_UB = 120 Rule\_5\_LB = 0 Rule\_5\_UB = 3 Rule\_5\_LB = 1 Rule\_5\_UB = 2 Rule\_6\_LB = 20 Rule\_6\_UB = 21 Rule\_6\_LB = 0 Rule\_6\_UB = 3 Rule\_6\_LB = 1 Rule\_6\_UB = 2 Rule\_7\_LB = 0 Rule\_7\_UB = 21 Rule\_7\_LB = 1 Rule\_7\_UB = 3 Rule\_7\_LB = 0 Rule\_7\_UB = 1 Overlaps\_0\_0 = 0 Overlaps\_0\_1 = 0 Overlaps\_0\_2 = 0 Overlaps\_0\_3 = 0 Overlaps\_0\_4 = 0 Overlaps\_0\_5 = 0 Overlaps\_0\_6 = 0 Overlaps\_0\_7 = 0 Overlaps\_1\_0 = 0 Overlaps\_1\_1 = 0 Overlaps\_1\_2 = 0 Overlaps\_1\_3 = 0 Overlaps\_1\_4 = 0 Overlaps\_1\_5 = 0 Overlaps\_1\_6 = 0 Overlaps\_1\_7 = 0 Overlaps\_2\_0 = 1 Overlaps\_2\_1 = 1 Overlaps\_2\_2 = 0 Overlaps\_2\_3 = 0 Overlaps\_2\_4 = 0 Overlaps\_2\_5 = 0 Overlaps\_2\_6 = 0 Overlaps\_2\_7 = 0 Overlaps\_3\_0 = 0 Overlaps\_3\_1 = 0 Overlaps\_3\_2 = 0 Overlaps\_3\_3 = 0 Overlaps\_3\_4 = 0 Overlaps\_3\_5 = 0 Overlaps\_3\_6 = 0 Overlaps\_3\_7 = 0 Overlaps\_4\_0 = 0 Overlaps\_4\_1 = 0 Overlaps\_4\_2 = 0 Overlaps\_4\_3 = 0 Overlaps\_4\_4 = 0 Overlaps\_4\_5 = 0 Overlaps\_4\_6 = 0 Overlaps\_4\_7 = 0 Overlaps\_5\_0 = 0 Overlaps\_5\_1 = 0 Overlaps\_5\_2 = 0 Overlaps\_5\_3 = 0 Overlaps\_5\_4 = 0 Overlaps\_5\_5 = 0 Overlaps\_5\_6 = 0 Overlaps\_5\_7 = 0 Overlaps\_6\_0 = 0 Overlaps\_6\_1 = 0 Overlaps\_6\_2 = 0 Overlaps\_6\_3 = 0 Overlaps\_6\_4 = 0 Overlaps\_6\_5 = 0 Overlaps\_6\_6 = 0 Overlaps\_6\_7 = 0 Overlaps\_7\_0 = 0 Overlaps\_7\_1 = 0 Overlaps\_7\_2 = 0 Overlaps\_7\_3 = 0 Overlaps\_7\_4 = 0 Overlaps\_7\_5 = 0 Overlaps\_7\_6 = 0 Overlaps\_7\_7 = 0 TMP\_0 = 1 not(TMP\_0) = 0 TMP\_1 = 1 not(TMP\_1) = 0 TMP\_2 = 1 not(TMP\_2) = 0 TMP\_3 = 1 not(TMP\_3) = 0 TMP\_4 = 1 not(TMP\_4) = 0 TMP\_5 = 0 not(TMP\_5) = 1 TMP\_6 = 5 TMP\_7 = 0 not(TMP\_7) = 1 TMP\_8 = 0 not(TMP\_8) = 1 TMP\_9 = 0 TMP\_10 = 1 not(TMP\_10) = 0 TMP\_11 = 1 not(TMP\_11) = 0 TMP\_12 = 2 TMP\_13 = 0 not(TMP\_13) = 1 TMP\_14 = 0 not(TMP\_14) = 1 TMP\_15 = 1 not(TMP\_15) = 0 TMP\_16 = 1 not(TMP\_16) = 0 TMP\_17 = 1 not(TMP\_17) = 0 TMP\_18 = 2 TMP\_19 = 1 not(TMP\_19) = 0 TMP\_20 = 1 not(TMP\_20) = 0 TMP\_21 = 1 not(TMP\_21) = 0 TMP\_22 = 1 not(TMP\_22) = 0 TMP\_23 = 1 not(TMP\_23) = 0 TMP\_24 = 0 not(TMP\_24) = 1 TMP\_25 = 5 TMP\_26 = 0 not(TMP\_26) = 1 TMP\_27 = 0 not(TMP\_27) = 1 TMP\_28 = 0 TMP\_29 = 1 not(TMP\_29) = 0 TMP\_30 = 1 not(TMP\_30) = 0 TMP\_31 = 2 TMP\_32 = 0 not(TMP\_32) = 1 TMP\_33 = 0 not(TMP\_33) = 1 TMP\_34 = 1 not(TMP\_34) = 0 TMP\_35 = 1 not(TMP\_35) = 0 TMP\_36 = 1 not(TMP\_36) = 0 TMP\_37 = 2 TMP\_38 = 1 not(TMP\_38) = 0 TMP\_39 = 1 not(TMP\_39) = 0 TMP\_40 = 1 not(TMP\_40) = 0 TMP\_41 = 0 not(TMP\_41) = 1 TMP\_42 = 1 not(TMP\_42) = 0 TMP\_43 = 1 not(TMP\_43) = 0 TMP\_44 = 5 TMP\_45 = 0 not(TMP\_45) = 1 TMP\_46 = 0 not(TMP\_46) = 1 TMP\_47 = 0 TMP\_48 = 1 not(TMP\_48) = 0 TMP\_49 = 1 not(TMP\_49) = 0 TMP\_50 = 2 TMP\_51 = 0 not(TMP\_51) = 1 TMP\_52 = 0 not(TMP\_52) = 1 TMP\_53 = 1 not(TMP\_53) = 0 TMP\_54 = 1 not(TMP\_54) = 0 TMP\_55 = 1 not(TMP\_55) = 0 TMP\_56 = 2 TMP\_57 = 1 not(TMP\_57) = 0 TMP\_58 = 0 not(TMP\_58) = 1 TMP\_59 = 1 not(TMP\_59) = 0 TMP\_60 = 1 not(TMP\_60) = 0 TMP\_61 = 1 not(TMP\_61) = 0 TMP\_62 = 1 not(TMP\_62) = 0 TMP\_63 = 5 TMP\_64 = 0 not(TMP\_64) = 1 TMP\_65 = 0 not(TMP\_65) = 1 TMP\_66 = 0 TMP\_67 = 1 not(TMP\_67) = 0 TMP\_68 = 1 not(TMP\_68) = 0 TMP\_69 = 2 TMP\_70 = 0 not(TMP\_70) = 1 TMP\_71 = 0 not(TMP\_71) = 1 TMP\_72 = 1 not(TMP\_72) = 0 TMP\_73 = 1 not(TMP\_73) = 0 TMP\_74 = 1 not(TMP\_74) = 0 TMP\_75 = 2 TMP\_76 = 1 not(TMP\_76) = 0 TMP\_77 = 0 not(TMP\_77) = 1 TMP\_78 = 1 not(TMP\_78) = 0 TMP\_79 = 1 not(TMP\_79) = 0 TMP\_80 = 1 not(TMP\_80) = 0 TMP\_81 = 0 not(TMP\_81) = 1 TMP\_82 = 4 TMP\_83 = 0 not(TMP\_83) = 1 TMP\_84 = 0 not(TMP\_84) = 1 TMP\_85 = 0 TMP\_86 = 1 not(TMP\_86) = 0 TMP\_87 = 1 not(TMP\_87) = 0 TMP\_88 = 2 TMP\_89 = 0 not(TMP\_89) = 1 TMP\_90 = 0 not(TMP\_90) = 1 TMP\_91 = 1 not(TMP\_91) = 0 TMP\_92 = 1 not(TMP\_92) = 0 TMP\_93 = 1 not(TMP\_93) = 0 TMP\_94 = 2 TMP\_95 = 1 not(TMP\_95) = 0 TMP\_96 = 1 not(TMP\_96) = 0 TMP\_97 = 1 not(TMP\_97) = 0 TMP\_98 = 1 not(TMP\_98) = 0 TMP\_99 = 1 not(TMP\_99) = 0 TMP\_100 = 0 not(TMP\_100) = 1 TMP\_101 = 5 TMP\_102 = 0 not(TMP\_102) = 1 TMP\_103 = 0 not(TMP\_103) = 1 TMP\_104 = 0 TMP\_105 = 1 not(TMP\_105) = 0 TMP\_106 = 1 not(TMP\_106) = 0 TMP\_107 = 2 TMP\_108 = 0 not(TMP\_108) = 1 TMP\_109 = 0 not(TMP\_109) = 1 TMP\_110 = 1 not(TMP\_110) = 0 TMP\_111 = 1 not(TMP\_111) = 0 TMP\_112 = 1 not(TMP\_112) = 0 TMP\_113 = 2 TMP\_114 = 1 not(TMP\_114) = 0 TMP\_115 = 1 not(TMP\_115) = 0 TMP\_116 = 1 not(TMP\_116) = 0 TMP\_117 = 0 not(TMP\_117) = 1 TMP\_118 = 1 not(TMP\_118) = 0 TMP\_119 = 1 not(TMP\_119) = 0 TMP\_120 = 5 TMP\_121 = 0 not(TMP\_121) = 1 TMP\_122 = 0 not(TMP\_122) = 1 TMP\_123 = 0 TMP\_124 = 1 not(TMP\_124) = 0 TMP\_125 = 1 not(TMP\_125) = 0 TMP\_126 = 2 TMP\_127 = 0 not(TMP\_127) = 1 TMP\_128 = 0 not(TMP\_128) = 1 TMP\_129 = 1 not(TMP\_129) = 0 TMP\_130 = 1 not(TMP\_130) = 0 TMP\_131 = 1 not(TMP\_131) = 0 TMP\_132 = 2 TMP\_133 = 0 not(TMP\_133) = 1 TMP\_134 = 1 not(TMP\_134) = 0 TMP\_135 = 1 not(TMP\_135) = 0 TMP\_136 = 1 not(TMP\_136) = 0 TMP\_137 = 1 not(TMP\_137) = 0 TMP\_138 = 0 not(TMP\_138) = 1 TMP\_139 = 4 TMP\_140 = 0 not(TMP\_140) = 1 TMP\_141 = 0 not(TMP\_141) = 1 TMP\_142 = 0 TMP\_143 = 1 not(TMP\_143) = 0 TMP\_144 = 1 not(TMP\_144) = 0 TMP\_145 = 2 TMP\_146 = 0 not(TMP\_146) = 1 TMP\_147 = 0 not(TMP\_147) = 1 TMP\_148 = 1 not(TMP\_148) = 0 TMP\_149 = 1 not(TMP\_149) = 0 TMP\_150 = 1 not(TMP\_150) = 0 TMP\_151 = 2 TMP\_152 = 0 not(TMP\_152) = 1 TMP\_153 = 1 not(TMP\_153) = 0 TMP\_154 = 1 not(TMP\_154) = 0 TMP\_155 = 1 not(TMP\_155) = 0 TMP\_156 = 1 not(TMP\_156) = 0 TMP\_157 = 0 not(TMP\_157) = 1 TMP\_158 = 4 TMP\_159 = 0 not(TMP\_159) = 1 TMP\_160 = 0 not(TMP\_160) = 1 TMP\_161 = 0 TMP\_162 = 1 not(TMP\_162) = 0 TMP\_163 = 1 not(TMP\_163) = 0 TMP\_164 = 2 TMP\_165 = 0 not(TMP\_165) = 1 TMP\_166 = 0 not(TMP\_166) = 1 TMP\_167 = 1 not(TMP\_167) = 0 TMP\_168 = 1 not(TMP\_168) = 0 TMP\_169 = 1 not(TMP\_169) = 0 TMP\_170 = 2 TMP\_171 = 0 not(TMP\_171) = 1 TMP\_172 = 1 not(TMP\_172) = 0 TMP\_173 = 1 not(TMP\_173) = 0 TMP\_174 = 1 not(TMP\_174) = 0 TMP\_175 = 1 not(TMP\_175) = 0 TMP\_176 = 1 not(TMP\_176) = 0 TMP\_177 = 5 TMP\_178 = 0 not(TMP\_178) = 1 TMP\_179 = 0 not(TMP\_179) = 1 TMP\_180 = 0 TMP\_181 = 1 not(TMP\_181) = 0 TMP\_182 = 1 not(TMP\_182) = 0 TMP\_183 = 2 TMP\_184 = 0 not(TMP\_184) = 1 TMP\_185 = 0 not(TMP\_185) = 1 TMP\_186 = 1 not(TMP\_186) = 0 TMP\_187 = 1 not(TMP\_187) = 0 TMP\_188 = 1 not(TMP\_188) = 0 TMP\_189 = 2 TMP\_190 = 0 not(TMP\_190) = 1 TMP\_191 = 1 not(TMP\_191) = 0 TMP\_192 = 1 not(TMP\_192) = 0 TMP\_193 = 1 not(TMP\_193) = 0 TMP\_194 = 1 not(TMP\_194) = 0 TMP\_195 = 1 not(TMP\_195) = 0 TMP\_196 = 5 TMP\_197 = 0 not(TMP\_197) = 1 TMP\_198 = 0 not(TMP\_198) = 1 TMP\_199 = 0 TMP\_200 = 1 not(TMP\_200) = 0 TMP\_201 = 1 not(TMP\_201) = 0 TMP\_202 = 2 TMP\_203 = 0 not(TMP\_203) = 1 TMP\_204 = 0 not(TMP\_204) = 1 TMP\_205 = 1 not(TMP\_205) = 0 TMP\_206 = 1 not(TMP\_206) = 0 TMP\_207 = 1 not(TMP\_207) = 0 TMP\_208 = 2 TMP\_209 = 1 not(TMP\_209) = 0 TMP\_210 = 1 not(TMP\_210) = 0 TMP\_211 = 1 not(TMP\_211) = 0 TMP\_212 = 1 not(TMP\_212) = 0 TMP\_213 = 1 not(TMP\_213) = 0 TMP\_214 = 0 not(TMP\_214) = 1 TMP\_215 = 5 TMP\_216 = 0 not(TMP\_216) = 1 TMP\_217 = 0 not(TMP\_217) = 1 TMP\_218 = 0 TMP\_219 = 1 not(TMP\_219) = 0 TMP\_220 = 1 not(TMP\_220) = 0 TMP\_221 = 2 TMP\_222 = 0 not(TMP\_222) = 1 TMP\_223 = 0 not(TMP\_223) = 1 TMP\_224 = 1 not(TMP\_224) = 0 TMP\_225 = 1 not(TMP\_225) = 0 TMP\_226 = 1 not(TMP\_226) = 0 TMP\_227 = 2 TMP\_228 = 0 not(TMP\_228) = 1 TMP\_229 = 1 not(TMP\_229) = 0 TMP\_230 = 1 not(TMP\_230) = 0 TMP\_231 = 1 not(TMP\_231) = 0 TMP\_232 = 1 not(TMP\_232) = 0 TMP\_233 = 0 not(TMP\_233) = 1 TMP\_234 = 4 TMP\_235 = 0 not(TMP\_235) = 1 TMP\_236 = 0 not(TMP\_236) = 1 TMP\_237 = 0 TMP\_238 = 1 not(TMP\_238) = 0 TMP\_239 = 1 not(TMP\_239) = 0 TMP\_240 = 2 TMP\_241 = 0 not(TMP\_241) = 1 TMP\_242 = 0 not(TMP\_242) = 1 TMP\_243 = 1 not(TMP\_243) = 0 TMP\_244 = 1 not(TMP\_244) = 0 TMP\_245 = 1 not(TMP\_245) = 0 TMP\_246 = 2 TMP\_247 = 0 not(TMP\_247) = 1 TMP\_248 = 1 not(TMP\_248) = 0 TMP\_249 = 1 not(TMP\_249) = 0 TMP\_250 = 1 not(TMP\_250) = 0 TMP\_251 = 1 not(TMP\_251) = 0 TMP\_252 = 1 not(TMP\_252) = 0 TMP\_253 = 5 TMP\_254 = 0 not(TMP\_254) = 1 TMP\_255 = 0 not(TMP\_255) = 1 TMP\_256 = 0 TMP\_257 = 1 not(TMP\_257) = 0 TMP\_258 = 1 not(TMP\_258) = 0 TMP\_259 = 2 TMP\_260 = 0 not(TMP\_260) = 1 TMP\_261 = 0 not(TMP\_261) = 1 TMP\_262 = 1 not(TMP\_262) = 0 TMP\_263 = 1 not(TMP\_263) = 0 TMP\_264 = 1 not(TMP\_264) = 0 TMP\_265 = 2 TMP\_266 = 0 not(TMP\_266) = 1 TMP\_267 = 1 not(TMP\_267) = 0 TMP\_268 = 1 not(TMP\_268) = 0 TMP\_269 = 1 not(TMP\_269) = 0 TMP\_270 = 1 not(TMP\_270) = 0 TMP\_271 = 1 not(TMP\_271) = 0 TMP\_272 = 5 TMP\_273 = 0 not(TMP\_273) = 1 TMP\_274 = 0 not(TMP\_274) = 1 TMP\_275 = 0 TMP\_276 = 1 not(TMP\_276) = 0 TMP\_277 = 1 not(TMP\_277) = 0 TMP\_278 = 2 TMP\_279 = 0 not(TMP\_279) = 1 TMP\_280 = 0 not(TMP\_280) = 1 TMP\_281 = 1 not(TMP\_281) = 0 TMP\_282 = 1 not(TMP\_282) = 0 TMP\_283 = 1 not(TMP\_283) = 0 TMP\_284 = 2 TMP\_285 = 0 not(TMP\_285) = 1 TMP\_286 = 1 not(TMP\_286) = 0 TMP\_287 = 1 not(TMP\_287) = 0 TMP\_288 = 1 not(TMP\_288) = 0 TMP\_289 = 1 not(TMP\_289) = 0 TMP\_290 = 1 not(TMP\_290) = 0 TMP\_291 = 5 TMP\_292 = 0 not(TMP\_292) = 1 TMP\_293 = 0 not(TMP\_293) = 1 TMP\_294 = 0 TMP\_295 = 1 not(TMP\_295) = 0 TMP\_296 = 1 not(TMP\_296) = 0 TMP\_297 = 2 TMP\_298 = 0 not(TMP\_298) = 1 TMP\_299 = 0 not(TMP\_299) = 1 TMP\_300 = 1 not(TMP\_300) = 0 TMP\_301 = 1 not(TMP\_301) = 0 TMP\_302 = 1 not(TMP\_302) = 0 TMP\_303 = 2 TMP\_304 = 0 not(TMP\_304) = 1 TMP\_305 = 1 not(TMP\_305) = 0 TMP\_306 = 1 not(TMP\_306) = 0 TMP\_307 = 1 not(TMP\_307) = 0 TMP\_308 = 0 not(TMP\_308) = 1 TMP\_309 = 1 not(TMP\_309) = 0 TMP\_310 = 4 TMP\_311 = 0 not(TMP\_311) = 1 TMP\_312 = 0 not(TMP\_312) = 1 TMP\_313 = 0 TMP\_314 = 1 not(TMP\_314) = 0 TMP\_315 = 1 not(TMP\_315) = 0 TMP\_316 = 2 TMP\_317 = 0 not(TMP\_317) = 1 TMP\_318 = 0 not(TMP\_318) = 1 TMP\_319 = 1 not(TMP\_319) = 0 TMP\_320 = 1 not(TMP\_320) = 0 TMP\_321 = 1 not(TMP\_321) = 0 TMP\_322 = 2 TMP\_323 = 0 not(TMP\_323) = 1 TMP\_324 = 1 not(TMP\_324) = 0 TMP\_325 = 1 not(TMP\_325) = 0 TMP\_326 = 1 not(TMP\_326) = 0 TMP\_327 = 0 not(TMP\_327) = 1 TMP\_328 = 1 not(TMP\_328) = 0 TMP\_329 = 4 TMP\_330 = 0 not(TMP\_330) = 1 TMP\_331 = 0 not(TMP\_331) = 1 TMP\_332 = 0 TMP\_333 = 1 not(TMP\_333) = 0 TMP\_334 = 1 not(TMP\_334) = 0 TMP\_335 = 2 TMP\_336 = 0 not(TMP\_336) = 1 TMP\_337 = 0 not(TMP\_337) = 1 TMP\_338 = 1 not(TMP\_338) = 0 TMP\_339 = 1 not(TMP\_339) = 0 TMP\_340 = 1 not(TMP\_340) = 0 TMP\_341 = 2 TMP\_342 = 1 not(TMP\_342) = 0 TMP\_343 = 1 not(TMP\_343) = 0 TMP\_344 = 1 not(TMP\_344) = 0 TMP\_345 = 1 not(TMP\_345) = 0 TMP\_346 = 0 not(TMP\_346) = 1 TMP\_347 = 1 not(TMP\_347) = 0 TMP\_348 = 5 TMP\_349 = 0 not(TMP\_349) = 1 TMP\_350 = 0 not(TMP\_350) = 1 TMP\_351 = 0 TMP\_352 = 1 not(TMP\_352) = 0 TMP\_353 = 1 not(TMP\_353) = 0 TMP\_354 = 2 TMP\_355 = 0 not(TMP\_355) = 1 TMP\_356 = 0 not(TMP\_356) = 1 TMP\_357 = 1 not(TMP\_357) = 0 TMP\_358 = 1 not(TMP\_358) = 0 TMP\_359 = 1 not(TMP\_359) = 0 TMP\_360 = 2 TMP\_361 = 0 not(TMP\_361) = 1 TMP\_362 = 1 not(TMP\_362) = 0 TMP\_363 = 1 not(TMP\_363) = 0 TMP\_364 = 1 not(TMP\_364) = 0 TMP\_365 = 1 not(TMP\_365) = 0 TMP\_366 = 1 not(TMP\_366) = 0 TMP\_367 = 5 TMP\_368 = 0 not(TMP\_368) = 1 TMP\_369 = 0 not(TMP\_369) = 1 TMP\_370 = 0 TMP\_371 = 1 not(TMP\_371) = 0 TMP\_372 = 1 not(TMP\_372) = 0 TMP\_373 = 2 TMP\_374 = 0 not(TMP\_374) = 1 TMP\_375 = 0 not(TMP\_375) = 1 TMP\_376 = 1 not(TMP\_376) = 0 TMP\_377 = 1 not(TMP\_377) = 0 TMP\_378 = 1 not(TMP\_378) = 0 TMP\_379 = 2 TMP\_380 = 0 not(TMP\_380) = 1 TMP\_381 = 1 not(TMP\_381) = 0 TMP\_382 = 1 not(TMP\_382) = 0 TMP\_383 = 1 not(TMP\_383) = 0 TMP\_384 = 0 not(TMP\_384) = 1 TMP\_385 = 1 not(TMP\_385) = 0 TMP\_386 = 4 TMP\_387 = 0 not(TMP\_387) = 1 TMP\_388 = 0 not(TMP\_388) = 1 TMP\_389 = 0 TMP\_390 = 1 not(TMP\_390) = 0 TMP\_391 = 1 not(TMP\_391) = 0 TMP\_392 = 2 TMP\_393 = 0 not(TMP\_393) = 1 TMP\_394 = 0 not(TMP\_394) = 1 TMP\_395 = 1 not(TMP\_395) = 0 TMP\_396 = 1 not(TMP\_396) = 0 TMP\_397 = 1 not(TMP\_397) = 0 TMP\_398 = 2 TMP\_399 = 0 not(TMP\_399) = 1 TMP\_400 = 1 not(TMP\_400) = 0 TMP\_401 = 1 not(TMP\_401) = 0 TMP\_402 = 1 not(TMP\_402) = 0 TMP\_403 = 1 not(TMP\_403) = 0 TMP\_404 = 1 not(TMP\_404) = 0 TMP\_405 = 5 TMP\_406 = 0 not(TMP\_406) = 1 TMP\_407 = 0 not(TMP\_407) = 1 TMP\_408 = 0 TMP\_409 = 1 not(TMP\_409) = 0 TMP\_410 = 1 not(TMP\_410) = 0 TMP\_411 = 2 TMP\_412 = 0 not(TMP\_412) = 1 TMP\_413 = 0 not(TMP\_413) = 1 TMP\_414 = 1 not(TMP\_414) = 0 TMP\_415 = 1 not(TMP\_415) = 0 TMP\_416 = 1 not(TMP\_416) = 0 TMP\_417 = 2 TMP\_418 = 1 not(TMP\_418) = 0 TMP\_419 = 0 not(TMP\_419) = 1 TMP\_420 = 1 not(TMP\_420) = 0 TMP\_421 = 1 not(TMP\_421) = 0 TMP\_422 = 1 not(TMP\_422) = 0 TMP\_423 = 1 not(TMP\_423) = 0 TMP\_424 = 5 TMP\_425 = 0 not(TMP\_425) = 1 TMP\_426 = 0 not(TMP\_426) = 1 TMP\_427 = 0 TMP\_428 = 1 not(TMP\_428) = 0 TMP\_429 = 1 not(TMP\_429) = 0 TMP\_430 = 2 TMP\_431 = 0 not(TMP\_431) = 1 TMP\_432 = 0 not(TMP\_432) = 1 TMP\_433 = 1 not(TMP\_433) = 0 TMP\_434 = 1 not(TMP\_434) = 0 TMP\_435 = 1 not(TMP\_435) = 0 TMP\_436 = 2 TMP\_437 = 1 not(TMP\_437) = 0 TMP\_438 = 0 not(TMP\_438) = 1 TMP\_439 = 1 not(TMP\_439) = 0 TMP\_440 = 1 not(TMP\_440) = 0 TMP\_441 = 0 not(TMP\_441) = 1 TMP\_442 = 1 not(TMP\_442) = 0 TMP\_443 = 4 TMP\_444 = 0 not(TMP\_444) = 1 TMP\_445 = 0 not(TMP\_445) = 1 TMP\_446 = 0 TMP\_447 = 1 not(TMP\_447) = 0 TMP\_448 = 1 not(TMP\_448) = 0 TMP\_449 = 2 TMP\_450 = 0 not(TMP\_450) = 1 TMP\_451 = 0 not(TMP\_451) = 1 TMP\_452 = 1 not(TMP\_452) = 0 TMP\_453 = 1 not(TMP\_453) = 0 TMP\_454 = 1 not(TMP\_454) = 0 TMP\_455 = 2 TMP\_456 = 1 not(TMP\_456) = 0 TMP\_457 = 1 not(TMP\_457) = 0 TMP\_458 = 1 not(TMP\_458) = 0 TMP\_459 = 1 not(TMP\_459) = 0 TMP\_460 = 0 not(TMP\_460) = 1 TMP\_461 = 1 not(TMP\_461) = 0 TMP\_462 = 5 TMP\_463 = 0 not(TMP\_463) = 1 TMP\_464 = 0 not(TMP\_464) = 1 TMP\_465 = 0 TMP\_466 = 1 not(TMP\_466) = 0 TMP\_467 = 1 not(TMP\_467) = 0 TMP\_468 = 2 TMP\_469 = 0 not(TMP\_469) = 1 TMP\_470 = 0 not(TMP\_470) = 1 TMP\_471 = 1 not(TMP\_471) = 0 TMP\_472 = 1 not(TMP\_472) = 0 TMP\_473 = 1 not(TMP\_473) = 0 TMP\_474 = 2 TMP\_475 = 1 not(TMP\_475) = 0 TMP\_476 = 0 not(TMP\_476) = 1 TMP\_477 = 1 not(TMP\_477) = 0 TMP\_478 = 1 not(TMP\_478) = 0 TMP\_479 = 0 not(TMP\_479) = 1 TMP\_480 = 1 not(TMP\_480) = 0 TMP\_481 = 4 TMP\_482 = 0 not(TMP\_482) = 1 TMP\_483 = 0 not(TMP\_483) = 1 TMP\_484 = 0 TMP\_485 = 1 not(TMP\_485) = 0 TMP\_486 = 1 not(TMP\_486) = 0 TMP\_487 = 2 TMP\_488 = 0 not(TMP\_488) = 1 TMP\_489 = 0 not(TMP\_489) = 1 TMP\_490 = 1 not(TMP\_490) = 0 TMP\_491 = 1 not(TMP\_491) = 0 TMP\_492 = 1 not(TMP\_492) = 0 TMP\_493 = 2 TMP\_494 = 1 not(TMP\_494) = 0 TMP\_495 = 0 not(TMP\_495) = 1 TMP\_496 = 1 not(TMP\_496) = 0 TMP\_497 = 1 not(TMP\_497) = 0 TMP\_498 = 1 not(TMP\_498) = 0 TMP\_499 = 1 not(TMP\_499) = 0 TMP\_500 = 5 TMP\_501 = 0 not(TMP\_501) = 1 TMP\_502 = 0 not(TMP\_502) = 1 TMP\_503 = 0 TMP\_504 = 1 not(TMP\_504) = 0 TMP\_505 = 1 not(TMP\_505) = 0 TMP\_506 = 2 TMP\_507 = 0 not(TMP\_507) = 1 TMP\_508 = 0 not(TMP\_508) = 1 TMP\_509 = 1 not(TMP\_509) = 0 TMP\_510 = 1 not(TMP\_510) = 0 TMP\_511 = 1 not(TMP\_511) = 0 TMP\_512 = 2 TMP\_513 = 1 not(TMP\_513) = 0 TMP\_514 = 1 not(TMP\_514) = 0 TMP\_515 = 1 not(TMP\_515) = 0 TMP\_516 = 1 not(TMP\_516) = 0 TMP\_517 = 0 not(TMP\_517) = 1 TMP\_518 = 1 not(TMP\_518) = 0 TMP\_519 = 5 TMP\_520 = 0 not(TMP\_520) = 1 TMP\_521 = 0 not(TMP\_521) = 1 TMP\_522 = 0 TMP\_523 = 1 not(TMP\_523) = 0 TMP\_524 = 1 not(TMP\_524) = 0 TMP\_525 = 2 TMP\_526 = 0 not(TMP\_526) = 1 TMP\_527 = 0 not(TMP\_527) = 1 TMP\_528 = 1 not(TMP\_528) = 0 TMP\_529 = 1 not(TMP\_529) = 0 TMP\_530 = 1 not(TMP\_530) = 0 TMP\_531 = 2 TMP\_532 = 1 not(TMP\_532) = 0 TMP\_533 = 1 not(TMP\_533) = 0 TMP\_534 = 1 not(TMP\_534) = 0 TMP\_535 = 1 not(TMP\_535) = 0 TMP\_536 = 1 not(TMP\_536) = 0 TMP\_537 = 0 not(TMP\_537) = 1 TMP\_538 = 5 TMP\_539 = 0 not(TMP\_539) = 1 TMP\_540 = 0 not(TMP\_540) = 1 TMP\_541 = 0 TMP\_542 = 1 not(TMP\_542) = 0 TMP\_543 = 1 not(TMP\_543) = 0 TMP\_544 = 2 TMP\_545 = 0 not(TMP\_545) = 1 TMP\_546 = 0 not(TMP\_546) = 1 TMP\_547 = 1 not(TMP\_547) = 0 TMP\_548 = 1 not(TMP\_548) = 0 TMP\_549 = 1 not(TMP\_549) = 0 TMP\_550 = 2 TMP\_551 = 1 not(TMP\_551) = 0 TMP\_552 = 0 not(TMP\_552) = 1 TMP\_553 = 1 not(TMP\_553) = 0 TMP\_554 = 1 not(TMP\_554) = 0 TMP\_555 = 1 not(TMP\_555) = 0 TMP\_556 = 0 not(TMP\_556) = 1 TMP\_557 = 4 TMP\_558 = 0 not(TMP\_558) = 1 TMP\_559 = 0 not(TMP\_559) = 1 TMP\_560 = 0 TMP\_561 = 1 not(TMP\_561) = 0 TMP\_562 = 1 not(TMP\_562) = 0 TMP\_563 = 2 TMP\_564 = 0 not(TMP\_564) = 1 TMP\_565 = 0 not(TMP\_565) = 1 TMP\_566 = 1 not(TMP\_566) = 0 TMP\_567 = 1 not(TMP\_567) = 0 TMP\_568 = 1 not(TMP\_568) = 0 TMP\_569 = 2 TMP\_570 = 1 not(TMP\_570) = 0 TMP\_571 = 0 not(TMP\_571) = 1 TMP\_572 = 1 not(TMP\_572) = 0 TMP\_573 = 1 not(TMP\_573) = 0 TMP\_574 = 1 not(TMP\_574) = 0 TMP\_575 = 1 not(TMP\_575) = 0 TMP\_576 = 5 TMP\_577 = 0 not(TMP\_577) = 1 TMP\_578 = 0 not(TMP\_578) = 1 TMP\_579 = 0 TMP\_580 = 1 not(TMP\_580) = 0 TMP\_581 = 1 not(TMP\_581) = 0 TMP\_582 = 2 TMP\_583 = 0 not(TMP\_583) = 1 TMP\_584 = 0 not(TMP\_584) = 1 TMP\_585 = 1 not(TMP\_585) = 0 TMP\_586 = 1 not(TMP\_586) = 0 TMP\_587 = 1 not(TMP\_587) = 0 TMP\_588 = 2 TMP\_589 = 1 not(TMP\_589) = 0 TMP\_590 = 1 not(TMP\_590) = 0 TMP\_591 = 0 not(TMP\_591) = 1 TMP\_592 = 1 not(TMP\_592) = 0 TMP\_593 = 1 not(TMP\_593) = 0 TMP\_594 = 1 not(TMP\_594) = 0 TMP\_595 = 5 TMP\_596 = 0 not(TMP\_596) = 1 TMP\_597 = 0 not(TMP\_597) = 1 TMP\_598 = 0 TMP\_599 = 1 not(TMP\_599) = 0 TMP\_600 = 1 not(TMP\_600) = 0 TMP\_601 = 2 TMP\_602 = 0 not(TMP\_602) = 1 TMP\_603 = 0 not(TMP\_603) = 1 TMP\_604 = 1 not(TMP\_604) = 0 TMP\_605 = 1 not(TMP\_605) = 0 TMP\_606 = 1 not(TMP\_606) = 0 TMP\_607 = 2 TMP\_608 = 1 not(TMP\_608) = 0 TMP\_609 = 0 not(TMP\_609) = 1 TMP\_610 = 1 not(TMP\_610) = 0 TMP\_611 = 1 not(TMP\_611) = 0 TMP\_612 = 1 not(TMP\_612) = 0 TMP\_613 = 1 not(TMP\_613) = 0 TMP\_614 = 5 TMP\_615 = 0 not(TMP\_615) = 1 TMP\_616 = 0 not(TMP\_616) = 1 TMP\_617 = 0 TMP\_618 = 1 not(TMP\_618) = 0 TMP\_619 = 1 not(TMP\_619) = 0 TMP\_620 = 2 TMP\_621 = 0 not(TMP\_621) = 1 TMP\_622 = 0 not(TMP\_622) = 1 TMP\_623 = 1 not(TMP\_623) = 0 TMP\_624 = 1 not(TMP\_624) = 0 TMP\_625 = 1 not(TMP\_625) = 0 TMP\_626 = 2 TMP\_627 = 1 not(TMP\_627) = 0 TMP\_628 = 0 not(TMP\_628) = 1 TMP\_629 = 1 not(TMP\_629) = 0 TMP\_630 = 1 not(TMP\_630) = 0 TMP\_631 = 1 not(TMP\_631) = 0 TMP\_632 = 0 not(TMP\_632) = 1 TMP\_633 = 4 TMP\_634 = 0 not(TMP\_634) = 1 TMP\_635 = 0 not(TMP\_635) = 1 TMP\_636 = 0 TMP\_637 = 1 not(TMP\_637) = 0 TMP\_638 = 1 not(TMP\_638) = 0 TMP\_639 = 2 TMP\_640 = 0 not(TMP\_640) = 1 TMP\_641 = 0 not(TMP\_641) = 1 TMP\_642 = 1 not(TMP\_642) = 0 TMP\_643 = 1 not(TMP\_643) = 0 TMP\_644 = 1 not(TMP\_644) = 0 TMP\_645 = 2 TMP\_646 = 1 not(TMP\_646) = 0 TMP\_647 = 1 not(TMP\_647) = 0 TMP\_648 = 1 not(TMP\_648) = 0 TMP\_649 = 1 not(TMP\_649) = 0 TMP\_650 = 1 not(TMP\_650) = 0 TMP\_651 = 0 not(TMP\_651) = 1 TMP\_652 = 5 TMP\_653 = 0 not(TMP\_653) = 1 TMP\_654 = 0 not(TMP\_654) = 1 TMP\_655 = 0 TMP\_656 = 1 not(TMP\_656) = 0 TMP\_657 = 1 not(TMP\_657) = 0 TMP\_658 = 2 TMP\_659 = 0 not(TMP\_659) = 1 TMP\_660 = 0 not(TMP\_660) = 1 TMP\_661 = 1 not(TMP\_661) = 0 TMP\_662 = 1 not(TMP\_662) = 0 TMP\_663 = 1 not(TMP\_663) = 0 TMP\_664 = 2 Area\_0 = 60 Distance\_0\_Rule\_0 = 20 Distance\_1\_Rule\_0 = 3 Distance\_2\_Rule\_0 = 1 Area\_1 = 174 Distance\_0\_Rule\_1 = 58 Distance\_1\_Rule\_1 = 3 Distance\_2\_Rule\_1 = 1 Area\_2 = 116 Distance\_0\_Rule\_2 = 58 Distance\_1\_Rule\_2 = 2 Distance\_2\_Rule\_2 = 1 Area\_3 = 79 -(Rule\_3\_LB) = 0 Distance\_0\_Rule\_3 = 79 -(Rule\_3\_LB) = 0 Distance\_1\_Rule\_3 = 1 -(Rule\_3\_LB) = 0 Distance\_2\_Rule\_3 = 1 Area\_4 = 123 -(Rule\_4\_LB) = -79 Distance\_0\_Rule\_4 = 41 -(Rule\_4\_LB) = 0 Distance\_1\_Rule\_4 = 3 -(Rule\_4\_LB) = 0 Distance\_2\_Rule\_4 = 1 Area\_5 = 123 -(Rule\_5\_LB) = -79 Distance\_0\_Rule\_5 = 41 -(Rule\_5\_LB) = 0 Distance\_1\_Rule\_5 = 3 -(Rule\_5\_LB) = -1 Distance\_2\_Rule\_5 = 1 Area\_6 = 3 -(Rule\_6\_LB) = -20 Distance\_0\_Rule\_6 = 1 -(Rule\_6\_LB) = 0 Distance\_1\_Rule\_6 = 3 -(Rule\_6\_LB) = -1 Distance\_2\_Rule\_6 = 1 Area\_7 = 42 -(Rule\_7\_LB) = 0 Distance\_0\_Rule\_7 = 21 -(Rule\_7\_LB) = -1 Distance\_1\_Rule\_7 = 2 -(Rule\_7\_LB) = 0 Distance\_2\_Rule\_7 = 1 TMP\_665 = 720 .

- Solution #14 found. 14 Solutions, Resolution 3.211s, 23841 Nodes (7,425.7 n/s), 47612 Backtracks, 23801 Fails, 0 Restarts

Rule\_3\_LB = 0 Rule\_3\_UB = 79 Rule\_3\_LB = 0 Rule\_3\_UB = 1 Rule\_3\_LB = 0 Rule\_3\_UB = 1 Rule\_4\_LB = 79 Rule\_4\_UB = 120 Rule\_4\_LB = 0 Rule\_4\_UB = 3 Rule\_4\_LB = 0 Rule\_4\_UB = 1 Rule\_5\_LB = 79 Rule\_5\_UB = 120 Rule\_5\_LB = 0 Rule\_5\_UB = 3 Rule\_5\_LB = 1 Rule\_5\_UB = 2 Rule\_6\_LB = 20 Rule\_6\_UB = 21 Rule\_6\_LB = 0 Rule\_6\_UB = 3 Rule\_6\_LB = 1 Rule\_6\_UB = 2 Rule\_7\_LB = 0 Rule\_7\_UB = 21 Rule\_7\_LB = 1 Rule\_7\_UB = 3 Rule\_7\_LB = 0 Rule\_7\_UB = 1 Overlaps\_0\_0 = 0 Overlaps\_0\_1 = 1 Overlaps\_0\_2 = 0 Overlaps\_0\_3 = 0 Overlaps\_0\_4 = 0 Overlaps\_0\_5 = 0 Overlaps\_0\_6 = 0 Overlaps\_0\_7 = 0 Overlaps\_1\_0 = 0 Overlaps\_1\_1 = 0 Overlaps\_1\_2 = 0 Overlaps\_1\_3 = 0 Overlaps\_1\_4 = 0 Overlaps\_1\_5 = 0 Overlaps\_1\_6 = 0 Overlaps\_1\_7 = 0 Overlaps\_2\_0 = 1 Overlaps\_2\_1 = 1 Overlaps\_2\_2 = 0 Overlaps\_2\_3 = 0 Overlaps\_2\_4 = 0 Overlaps\_2\_5 = 0 Overlaps\_2\_6 = 0 Overlaps\_2\_7 = 0 Overlaps\_3\_0 = 0 Overlaps\_3\_1 = 0 Overlaps\_3\_2 = 0 Overlaps\_3\_3 = 0 Overlaps\_3\_4 = 0 Overlaps\_3\_5 = 0 Overlaps\_3\_6 = 0 Overlaps\_3\_7 = 0 Overlaps\_4\_0 = 0 Overlaps\_4\_1 = 0 Overlaps\_4\_2 = 0 Overlaps\_4\_3 = 0 Overlaps\_4\_4 = 0 Overlaps\_4\_5 = 0 Overlaps\_4\_6 = 0 Overlaps\_4\_7 = 0 Overlaps\_5\_0 = 0 Overlaps\_5\_1 = 0 Overlaps\_5\_2 = 0 Overlaps\_5\_3 = 0 Overlaps\_5\_4 = 0 Overlaps\_5\_5 = 0 Overlaps\_5\_6 = 0 Overlaps\_5\_7 = 0 Overlaps\_6\_0 = 0 Overlaps\_6\_1 = 0 Overlaps\_6\_2 = 0 Overlaps\_6\_3 = 0 Overlaps\_6\_4 = 0 Overlaps\_6\_5 = 0 Overlaps\_6\_6 = 0 Overlaps\_6\_7 = 0 Overlaps\_7\_0 = 0 Overlaps\_7\_1 = 0 Overlaps\_7\_2 = 0 Overlaps\_7\_3 = 0 Overlaps\_7\_4 = 0 Overlaps\_7\_5 = 0 Overlaps\_7\_6 = 0 Overlaps\_7\_7 = 0 TMP\_0 = 1 not(TMP\_0) = 0 TMP\_1 = 1 not(TMP\_1) = 0 TMP\_2 = 1 not(TMP\_2) = 0 TMP\_3 = 1 not(TMP\_3) = 0 TMP\_4 = 1 not(TMP\_4) = 0 TMP\_5 = 0 not(TMP\_5) = 1 TMP\_6 = 5 TMP\_7 = 0 not(TMP\_7) = 1 TMP\_8 = 0 not(TMP\_8) = 1 TMP\_9 = 0 TMP\_10 = 1 not(TMP\_10) = 0 TMP\_11 = 1 not(TMP\_11) = 0 TMP\_12 = 2 TMP\_13 = 0 not(TMP\_13) = 1 TMP\_14 = 0 not(TMP\_14) = 1 TMP\_15 = 1 not(TMP\_15) = 0 TMP\_16 = 1 not(TMP\_16) = 0 TMP\_17 = 1 not(TMP\_17) = 0 TMP\_18 = 2 TMP\_19 = 1 not(TMP\_19) = 0 TMP\_20 = 1 not(TMP\_20) = 0 TMP\_21 = 1 not(TMP\_21) = 0 TMP\_22 = 1 not(TMP\_22) = 0 TMP\_23 = 1 not(TMP\_23) = 0 TMP\_24 = 0 not(TMP\_24) = 1 TMP\_25 = 5 TMP\_26 = 0 not(TMP\_26) = 1 TMP\_27 = 0 not(TMP\_27) = 1 TMP\_28 = 0 TMP\_29 = 1 not(TMP\_29) = 0 TMP\_30 = 1 not(TMP\_30) = 0 TMP\_31 = 2 TMP\_32 = 0 not(TMP\_32) = 1 TMP\_33 = 0 not(TMP\_33) = 1 TMP\_34 = 1 not(TMP\_34) = 0 TMP\_35 = 1 not(TMP\_35) = 0 TMP\_36 = 1 not(TMP\_36) = 0 TMP\_37 = 2 TMP\_38 = 1 not(TMP\_38) = 0 TMP\_39 = 1 not(TMP\_39) = 0 TMP\_40 = 1 not(TMP\_40) = 0 TMP\_41 = 0 not(TMP\_41) = 1 TMP\_42 = 1 not(TMP\_42) = 0 TMP\_43 = 1 not(TMP\_43) = 0 TMP\_44 = 5 TMP\_45 = 0 not(TMP\_45) = 1 TMP\_46 = 0 not(TMP\_46) = 1 TMP\_47 = 0 TMP\_48 = 1 not(TMP\_48) = 0 TMP\_49 = 1 not(TMP\_49) = 0 TMP\_50 = 2 TMP\_51 = 0 not(TMP\_51) = 1 TMP\_52 = 0 not(TMP\_52) = 1 TMP\_53 = 1 not(TMP\_53) = 0 TMP\_54 = 1 not(TMP\_54) = 0 TMP\_55 = 1 not(TMP\_55) = 0 TMP\_56 = 2 TMP\_57 = 1 not(TMP\_57) = 0 TMP\_58 = 0 not(TMP\_58) = 1 TMP\_59 = 1 not(TMP\_59) = 0 TMP\_60 = 1 not(TMP\_60) = 0 TMP\_61 = 1 not(TMP\_61) = 0 TMP\_62 = 1 not(TMP\_62) = 0 TMP\_63 = 5 TMP\_64 = 0 not(TMP\_64) = 1 TMP\_65 = 0 not(TMP\_65) = 1 TMP\_66 = 0 TMP\_67 = 1 not(TMP\_67) = 0 TMP\_68 = 1 not(TMP\_68) = 0 TMP\_69 = 2 TMP\_70 = 0 not(TMP\_70) = 1 TMP\_71 = 0 not(TMP\_71) = 1 TMP\_72 = 1 not(TMP\_72) = 0 TMP\_73 = 1 not(TMP\_73) = 0 TMP\_74 = 1 not(TMP\_74) = 0 TMP\_75 = 2 TMP\_76 = 1 not(TMP\_76) = 0 TMP\_77 = 0 not(TMP\_77) = 1 TMP\_78 = 1 not(TMP\_78) = 0 TMP\_79 = 1 not(TMP\_79) = 0 TMP\_80 = 1 not(TMP\_80) = 0 TMP\_81 = 0 not(TMP\_81) = 1 TMP\_82 = 4 TMP\_83 = 0 not(TMP\_83) = 1 TMP\_84 = 0 not(TMP\_84) = 1 TMP\_85 = 0 TMP\_86 = 1 not(TMP\_86) = 0 TMP\_87 = 1 not(TMP\_87) = 0 TMP\_88 = 2 TMP\_89 = 0 not(TMP\_89) = 1 TMP\_90 = 0 not(TMP\_90) = 1 TMP\_91 = 1 not(TMP\_91) = 0 TMP\_92 = 1 not(TMP\_92) = 0 TMP\_93 = 1 not(TMP\_93) = 0 TMP\_94 = 2 TMP\_95 = 1 not(TMP\_95) = 0 TMP\_96 = 1 not(TMP\_96) = 0 TMP\_97 = 1 not(TMP\_97) = 0 TMP\_98 = 1 not(TMP\_98) = 0 TMP\_99 = 1 not(TMP\_99) = 0 TMP\_100 = 0 not(TMP\_100) = 1 TMP\_101 = 5 TMP\_102 = 0 not(TMP\_102) = 1 TMP\_103 = 0 not(TMP\_103) = 1 TMP\_104 = 0 TMP\_105 = 1 not(TMP\_105) = 0 TMP\_106 = 1 not(TMP\_106) = 0 TMP\_107 = 2 TMP\_108 = 0 not(TMP\_108) = 1 TMP\_109 = 0 not(TMP\_109) = 1 TMP\_110 = 1 not(TMP\_110) = 0 TMP\_111 = 1 not(TMP\_111) = 0 TMP\_112 = 1 not(TMP\_112) = 0 TMP\_113 = 2 TMP\_114 = 1 not(TMP\_114) = 0 TMP\_115 = 1 not(TMP\_115) = 0 TMP\_116 = 1 not(TMP\_116) = 0 TMP\_117 = 0 not(TMP\_117) = 1 TMP\_118 = 1 not(TMP\_118) = 0 TMP\_119 = 1 not(TMP\_119) = 0 TMP\_120 = 5 TMP\_121 = 0 not(TMP\_121) = 1 TMP\_122 = 0 not(TMP\_122) = 1 TMP\_123 = 0 TMP\_124 = 1 not(TMP\_124) = 0 TMP\_125 = 1 not(TMP\_125) = 0 TMP\_126 = 2 TMP\_127 = 0 not(TMP\_127) = 1 TMP\_128 = 0 not(TMP\_128) = 1 TMP\_129 = 1 not(TMP\_129) = 0 TMP\_130 = 1 not(TMP\_130) = 0 TMP\_131 = 1 not(TMP\_131) = 0 TMP\_132 = 2 TMP\_133 = 0 not(TMP\_133) = 1 TMP\_134 = 1 not(TMP\_134) = 0 TMP\_135 = 1 not(TMP\_135) = 0 TMP\_136 = 1 not(TMP\_136) = 0 TMP\_137 = 1 not(TMP\_137) = 0 TMP\_138 = 0 not(TMP\_138) = 1 TMP\_139 = 4 TMP\_140 = 0 not(TMP\_140) = 1 TMP\_141 = 0 not(TMP\_141) = 1 TMP\_142 = 0 TMP\_143 = 1 not(TMP\_143) = 0 TMP\_144 = 1 not(TMP\_144) = 0 TMP\_145 = 2 TMP\_146 = 0 not(TMP\_146) = 1 TMP\_147 = 0 not(TMP\_147) = 1 TMP\_148 = 1 not(TMP\_148) = 0 TMP\_149 = 1 not(TMP\_149) = 0 TMP\_150 = 1 not(TMP\_150) = 0 TMP\_151 = 2 TMP\_152 = 0 not(TMP\_152) = 1 TMP\_153 = 1 not(TMP\_153) = 0 TMP\_154 = 1 not(TMP\_154) = 0 TMP\_155 = 1 not(TMP\_155) = 0 TMP\_156 = 1 not(TMP\_156) = 0 TMP\_157 = 0 not(TMP\_157) = 1 TMP\_158 = 4 TMP\_159 = 0 not(TMP\_159) = 1 TMP\_160 = 0 not(TMP\_160) = 1 TMP\_161 = 0 TMP\_162 = 1 not(TMP\_162) = 0 TMP\_163 = 1 not(TMP\_163) = 0 TMP\_164 = 2 TMP\_165 = 0 not(TMP\_165) = 1 TMP\_166 = 0 not(TMP\_166) = 1 TMP\_167 = 1 not(TMP\_167) = 0 TMP\_168 = 1 not(TMP\_168) = 0 TMP\_169 = 1 not(TMP\_169) = 0 TMP\_170 = 2 TMP\_171 = 0 not(TMP\_171) = 1 TMP\_172 = 1 not(TMP\_172) = 0 TMP\_173 = 1 not(TMP\_173) = 0 TMP\_174 = 1 not(TMP\_174) = 0 TMP\_175 = 1 not(TMP\_175) = 0 TMP\_176 = 1 not(TMP\_176) = 0 TMP\_177 = 5 TMP\_178 = 0 not(TMP\_178) = 1 TMP\_179 = 0 not(TMP\_179) = 1 TMP\_180 = 0 TMP\_181 = 1 not(TMP\_181) = 0 TMP\_182 = 1 not(TMP\_182) = 0 TMP\_183 = 2 TMP\_184 = 0 not(TMP\_184) = 1 TMP\_185 = 0 not(TMP\_185) = 1 TMP\_186 = 1 not(TMP\_186) = 0 TMP\_187 = 1 not(TMP\_187) = 0 TMP\_188 = 1 not(TMP\_188) = 0 TMP\_189 = 2 TMP\_190 = 0 not(TMP\_190) = 1 TMP\_191 = 1 not(TMP\_191) = 0 TMP\_192 = 1 not(TMP\_192) = 0 TMP\_193 = 1 not(TMP\_193) = 0 TMP\_194 = 1 not(TMP\_194) = 0 TMP\_195 = 1 not(TMP\_195) = 0 TMP\_196 = 5 TMP\_197 = 0 not(TMP\_197) = 1 TMP\_198 = 0 not(TMP\_198) = 1 TMP\_199 = 0 TMP\_200 = 1 not(TMP\_200) = 0 TMP\_201 = 1 not(TMP\_201) = 0 TMP\_202 = 2 TMP\_203 = 0 not(TMP\_203) = 1 TMP\_204 = 0 not(TMP\_204) = 1 TMP\_205 = 1 not(TMP\_205) = 0 TMP\_206 = 1 not(TMP\_206) = 0 TMP\_207 = 1 not(TMP\_207) = 0 TMP\_208 = 2 TMP\_209 = 1 not(TMP\_209) = 0 TMP\_210 = 1 not(TMP\_210) = 0 TMP\_211 = 1 not(TMP\_211) = 0 TMP\_212 = 1 not(TMP\_212) = 0 TMP\_213 = 1 not(TMP\_213) = 0 TMP\_214 = 0 not(TMP\_214) = 1 TMP\_215 = 5 TMP\_216 = 0 not(TMP\_216) = 1 TMP\_217 = 0 not(TMP\_217) = 1 TMP\_218 = 0 TMP\_219 = 1 not(TMP\_219) = 0 TMP\_220 = 1 not(TMP\_220) = 0 TMP\_221 = 2 TMP\_222 = 0 not(TMP\_222) = 1 TMP\_223 = 0 not(TMP\_223) = 1 TMP\_224 = 1 not(TMP\_224) = 0 TMP\_225 = 1 not(TMP\_225) = 0 TMP\_226 = 1 not(TMP\_226) = 0 TMP\_227 = 2 TMP\_228 = 0 not(TMP\_228) = 1 TMP\_229 = 1 not(TMP\_229) = 0 TMP\_230 = 1 not(TMP\_230) = 0 TMP\_231 = 1 not(TMP\_231) = 0 TMP\_232 = 1 not(TMP\_232) = 0 TMP\_233 = 0 not(TMP\_233) = 1 TMP\_234 = 4 TMP\_235 = 0 not(TMP\_235) = 1 TMP\_236 = 0 not(TMP\_236) = 1 TMP\_237 = 0 TMP\_238 = 1 not(TMP\_238) = 0 TMP\_239 = 1 not(TMP\_239) = 0 TMP\_240 = 2 TMP\_241 = 0 not(TMP\_241) = 1 TMP\_242 = 0 not(TMP\_242) = 1 TMP\_243 = 1 not(TMP\_243) = 0 TMP\_244 = 1 not(TMP\_244) = 0 TMP\_245 = 1 not(TMP\_245) = 0 TMP\_246 = 2 TMP\_247 = 0 not(TMP\_247) = 1 TMP\_248 = 1 not(TMP\_248) = 0 TMP\_249 = 1 not(TMP\_249) = 0 TMP\_250 = 1 not(TMP\_250) = 0 TMP\_251 = 1 not(TMP\_251) = 0 TMP\_252 = 1 not(TMP\_252) = 0 TMP\_253 = 5 TMP\_254 = 0 not(TMP\_254) = 1 TMP\_255 = 0 not(TMP\_255) = 1 TMP\_256 = 0 TMP\_257 = 1 not(TMP\_257) = 0 TMP\_258 = 1 not(TMP\_258) = 0 TMP\_259 = 2 TMP\_260 = 0 not(TMP\_260) = 1 TMP\_261 = 0 not(TMP\_261) = 1 TMP\_262 = 1 not(TMP\_262) = 0 TMP\_263 = 1 not(TMP\_263) = 0 TMP\_264 = 1 not(TMP\_264) = 0 TMP\_265 = 2 TMP\_266 = 0 not(TMP\_266) = 1 TMP\_267 = 1 not(TMP\_267) = 0 TMP\_268 = 1 not(TMP\_268) = 0 TMP\_269 = 1 not(TMP\_269) = 0 TMP\_270 = 1 not(TMP\_270) = 0 TMP\_271 = 1 not(TMP\_271) = 0 TMP\_272 = 5 TMP\_273 = 0 not(TMP\_273) = 1 TMP\_274 = 0 not(TMP\_274) = 1 TMP\_275 = 0 TMP\_276 = 1 not(TMP\_276) = 0 TMP\_277 = 1 not(TMP\_277) = 0 TMP\_278 = 2 TMP\_279 = 0 not(TMP\_279) = 1 TMP\_280 = 0 not(TMP\_280) = 1 TMP\_281 = 1 not(TMP\_281) = 0 TMP\_282 = 1 not(TMP\_282) = 0 TMP\_283 = 1 not(TMP\_283) = 0 TMP\_284 = 2 TMP\_285 = 0 not(TMP\_285) = 1 TMP\_286 = 1 not(TMP\_286) = 0 TMP\_287 = 1 not(TMP\_287) = 0 TMP\_288 = 1 not(TMP\_288) = 0 TMP\_289 = 1 not(TMP\_289) = 0 TMP\_290 = 1 not(TMP\_290) = 0 TMP\_291 = 5 TMP\_292 = 0 not(TMP\_292) = 1 TMP\_293 = 0 not(TMP\_293) = 1 TMP\_294 = 0 TMP\_295 = 1 not(TMP\_295) = 0 TMP\_296 = 1 not(TMP\_296) = 0 TMP\_297 = 2 TMP\_298 = 0 not(TMP\_298) = 1 TMP\_299 = 0 not(TMP\_299) = 1 TMP\_300 = 1 not(TMP\_300) = 0 TMP\_301 = 1 not(TMP\_301) = 0 TMP\_302 = 1 not(TMP\_302) = 0 TMP\_303 = 2 TMP\_304 = 0 not(TMP\_304) = 1 TMP\_305 = 1 not(TMP\_305) = 0 TMP\_306 = 1 not(TMP\_306) = 0 TMP\_307 = 1 not(TMP\_307) = 0 TMP\_308 = 0 not(TMP\_308) = 1 TMP\_309 = 1 not(TMP\_309) = 0 TMP\_310 = 4 TMP\_311 = 0 not(TMP\_311) = 1 TMP\_312 = 0 not(TMP\_312) = 1 TMP\_313 = 0 TMP\_314 = 1 not(TMP\_314) = 0 TMP\_315 = 1 not(TMP\_315) = 0 TMP\_316 = 2 TMP\_317 = 0 not(TMP\_317) = 1 TMP\_318 = 0 not(TMP\_318) = 1 TMP\_319 = 1 not(TMP\_319) = 0 TMP\_320 = 1 not(TMP\_320) = 0 TMP\_321 = 1 not(TMP\_321) = 0 TMP\_322 = 2 TMP\_323 = 0 not(TMP\_323) = 1 TMP\_324 = 1 not(TMP\_324) = 0 TMP\_325 = 1 not(TMP\_325) = 0 TMP\_326 = 1 not(TMP\_326) = 0 TMP\_327 = 0 not(TMP\_327) = 1 TMP\_328 = 1 not(TMP\_328) = 0 TMP\_329 = 4 TMP\_330 = 0 not(TMP\_330) = 1 TMP\_331 = 0 not(TMP\_331) = 1 TMP\_332 = 0 TMP\_333 = 1 not(TMP\_333) = 0 TMP\_334 = 1 not(TMP\_334) = 0 TMP\_335 = 2 TMP\_336 = 0 not(TMP\_336) = 1 TMP\_337 = 0 not(TMP\_337) = 1 TMP\_338 = 1 not(TMP\_338) = 0 TMP\_339 = 1 not(TMP\_339) = 0 TMP\_340 = 1 not(TMP\_340) = 0 TMP\_341 = 2 TMP\_342 = 1 not(TMP\_342) = 0 TMP\_343 = 1 not(TMP\_343) = 0 TMP\_344 = 1 not(TMP\_344) = 0 TMP\_345 = 1 not(TMP\_345) = 0 TMP\_346 = 0 not(TMP\_346) = 1 TMP\_347 = 1 not(TMP\_347) = 0 TMP\_348 = 5 TMP\_349 = 0 not(TMP\_349) = 1 TMP\_350 = 0 not(TMP\_350) = 1 TMP\_351 = 0 TMP\_352 = 1 not(TMP\_352) = 0 TMP\_353 = 1 not(TMP\_353) = 0 TMP\_354 = 2 TMP\_355 = 0 not(TMP\_355) = 1 TMP\_356 = 0 not(TMP\_356) = 1 TMP\_357 = 1 not(TMP\_357) = 0 TMP\_358 = 1 not(TMP\_358) = 0 TMP\_359 = 1 not(TMP\_359) = 0 TMP\_360 = 2 TMP\_361 = 0 not(TMP\_361) = 1 TMP\_362 = 1 not(TMP\_362) = 0 TMP\_363 = 1 not(TMP\_363) = 0 TMP\_364 = 1 not(TMP\_364) = 0 TMP\_365 = 1 not(TMP\_365) = 0 TMP\_366 = 1 not(TMP\_366) = 0 TMP\_367 = 5 TMP\_368 = 0 not(TMP\_368) = 1 TMP\_369 = 0 not(TMP\_369) = 1 TMP\_370 = 0 TMP\_371 = 1 not(TMP\_371) = 0 TMP\_372 = 1 not(TMP\_372) = 0 TMP\_373 = 2 TMP\_374 = 0 not(TMP\_374) = 1 TMP\_375 = 0 not(TMP\_375) = 1 TMP\_376 = 1 not(TMP\_376) = 0 TMP\_377 = 1 not(TMP\_377) = 0 TMP\_378 = 1 not(TMP\_378) = 0 TMP\_379 = 2 TMP\_380 = 0 not(TMP\_380) = 1 TMP\_381 = 1 not(TMP\_381) = 0 TMP\_382 = 1 not(TMP\_382) = 0 TMP\_383 = 1 not(TMP\_383) = 0 TMP\_384 = 0 not(TMP\_384) = 1 TMP\_385 = 1 not(TMP\_385) = 0 TMP\_386 = 4 TMP\_387 = 0 not(TMP\_387) = 1 TMP\_388 = 0 not(TMP\_388) = 1 TMP\_389 = 0 TMP\_390 = 1 not(TMP\_390) = 0 TMP\_391 = 1 not(TMP\_391) = 0 TMP\_392 = 2 TMP\_393 = 0 not(TMP\_393) = 1 TMP\_394 = 0 not(TMP\_394) = 1 TMP\_395 = 1 not(TMP\_395) = 0 TMP\_396 = 1 not(TMP\_396) = 0 TMP\_397 = 1 not(TMP\_397) = 0 TMP\_398 = 2 TMP\_399 = 0 not(TMP\_399) = 1 TMP\_400 = 1 not(TMP\_400) = 0 TMP\_401 = 1 not(TMP\_401) = 0 TMP\_402 = 1 not(TMP\_402) = 0 TMP\_403 = 1 not(TMP\_403) = 0 TMP\_404 = 1 not(TMP\_404) = 0 TMP\_405 = 5 TMP\_406 = 0 not(TMP\_406) = 1 TMP\_407 = 0 not(TMP\_407) = 1 TMP\_408 = 0 TMP\_409 = 1 not(TMP\_409) = 0 TMP\_410 = 1 not(TMP\_410) = 0 TMP\_411 = 2 TMP\_412 = 0 not(TMP\_412) = 1 TMP\_413 = 0 not(TMP\_413) = 1 TMP\_414 = 1 not(TMP\_414) = 0 TMP\_415 = 1 not(TMP\_415) = 0 TMP\_416 = 1 not(TMP\_416) = 0 TMP\_417 = 2 TMP\_418 = 1 not(TMP\_418) = 0 TMP\_419 = 0 not(TMP\_419) = 1 TMP\_420 = 1 not(TMP\_420) = 0 TMP\_421 = 1 not(TMP\_421) = 0 TMP\_422 = 1 not(TMP\_422) = 0 TMP\_423 = 1 not(TMP\_423) = 0 TMP\_424 = 5 TMP\_425 = 0 not(TMP\_425) = 1 TMP\_426 = 0 not(TMP\_426) = 1 TMP\_427 = 0 TMP\_428 = 1 not(TMP\_428) = 0 TMP\_429 = 1 not(TMP\_429) = 0 TMP\_430 = 2 TMP\_431 = 0 not(TMP\_431) = 1 TMP\_432 = 0 not(TMP\_432) = 1 TMP\_433 = 1 not(TMP\_433) = 0 TMP\_434 = 1 not(TMP\_434) = 0 TMP\_435 = 1 not(TMP\_435) = 0 TMP\_436 = 2 TMP\_437 = 1 not(TMP\_437) = 0 TMP\_438 = 0 not(TMP\_438) = 1 TMP\_439 = 1 not(TMP\_439) = 0 TMP\_440 = 1 not(TMP\_440) = 0 TMP\_441 = 0 not(TMP\_441) = 1 TMP\_442 = 1 not(TMP\_442) = 0 TMP\_443 = 4 TMP\_444 = 0 not(TMP\_444) = 1 TMP\_445 = 0 not(TMP\_445) = 1 TMP\_446 = 0 TMP\_447 = 1 not(TMP\_447) = 0 TMP\_448 = 1 not(TMP\_448) = 0 TMP\_449 = 2 TMP\_450 = 0 not(TMP\_450) = 1 TMP\_451 = 0 not(TMP\_451) = 1 TMP\_452 = 1 not(TMP\_452) = 0 TMP\_453 = 1 not(TMP\_453) = 0 TMP\_454 = 1 not(TMP\_454) = 0 TMP\_455 = 2 TMP\_456 = 1 not(TMP\_456) = 0 TMP\_457 = 1 not(TMP\_457) = 0 TMP\_458 = 1 not(TMP\_458) = 0 TMP\_459 = 1 not(TMP\_459) = 0 TMP\_460 = 0 not(TMP\_460) = 1 TMP\_461 = 1 not(TMP\_461) = 0 TMP\_462 = 5 TMP\_463 = 0 not(TMP\_463) = 1 TMP\_464 = 0 not(TMP\_464) = 1 TMP\_465 = 0 TMP\_466 = 1 not(TMP\_466) = 0 TMP\_467 = 1 not(TMP\_467) = 0 TMP\_468 = 2 TMP\_469 = 0 not(TMP\_469) = 1 TMP\_470 = 0 not(TMP\_470) = 1 TMP\_471 = 1 not(TMP\_471) = 0 TMP\_472 = 1 not(TMP\_472) = 0 TMP\_473 = 1 not(TMP\_473) = 0 TMP\_474 = 2 TMP\_475 = 1 not(TMP\_475) = 0 TMP\_476 = 0 not(TMP\_476) = 1 TMP\_477 = 1 not(TMP\_477) = 0 TMP\_478 = 1 not(TMP\_478) = 0 TMP\_479 = 0 not(TMP\_479) = 1 TMP\_480 = 1 not(TMP\_480) = 0 TMP\_481 = 4 TMP\_482 = 0 not(TMP\_482) = 1 TMP\_483 = 0 not(TMP\_483) = 1 TMP\_484 = 0 TMP\_485 = 1 not(TMP\_485) = 0 TMP\_486 = 1 not(TMP\_486) = 0 TMP\_487 = 2 TMP\_488 = 0 not(TMP\_488) = 1 TMP\_489 = 0 not(TMP\_489) = 1 TMP\_490 = 1 not(TMP\_490) = 0 TMP\_491 = 1 not(TMP\_491) = 0 TMP\_492 = 1 not(TMP\_492) = 0 TMP\_493 = 2 TMP\_494 = 1 not(TMP\_494) = 0 TMP\_495 = 0 not(TMP\_495) = 1 TMP\_496 = 1 not(TMP\_496) = 0 TMP\_497 = 1 not(TMP\_497) = 0 TMP\_498 = 1 not(TMP\_498) = 0 TMP\_499 = 1 not(TMP\_499) = 0 TMP\_500 = 5 TMP\_501 = 0 not(TMP\_501) = 1 TMP\_502 = 0 not(TMP\_502) = 1 TMP\_503 = 0 TMP\_504 = 1 not(TMP\_504) = 0 TMP\_505 = 1 not(TMP\_505) = 0 TMP\_506 = 2 TMP\_507 = 0 not(TMP\_507) = 1 TMP\_508 = 0 not(TMP\_508) = 1 TMP\_509 = 1 not(TMP\_509) = 0 TMP\_510 = 1 not(TMP\_510) = 0 TMP\_511 = 1 not(TMP\_511) = 0 TMP\_512 = 2 TMP\_513 = 1 not(TMP\_513) = 0 TMP\_514 = 1 not(TMP\_514) = 0 TMP\_515 = 1 not(TMP\_515) = 0 TMP\_516 = 1 not(TMP\_516) = 0 TMP\_517 = 0 not(TMP\_517) = 1 TMP\_518 = 1 not(TMP\_518) = 0 TMP\_519 = 5 TMP\_520 = 0 not(TMP\_520) = 1 TMP\_521 = 0 not(TMP\_521) = 1 TMP\_522 = 0 TMP\_523 = 1 not(TMP\_523) = 0 TMP\_524 = 1 not(TMP\_524) = 0 TMP\_525 = 2 TMP\_526 = 0 not(TMP\_526) = 1 TMP\_527 = 0 not(TMP\_527) = 1 TMP\_528 = 1 not(TMP\_528) = 0 TMP\_529 = 1 not(TMP\_529) = 0 TMP\_530 = 1 not(TMP\_530) = 0 TMP\_531 = 2 TMP\_532 = 1 not(TMP\_532) = 0 TMP\_533 = 1 not(TMP\_533) = 0 TMP\_534 = 1 not(TMP\_534) = 0 TMP\_535 = 1 not(TMP\_535) = 0 TMP\_536 = 1 not(TMP\_536) = 0 TMP\_537 = 0 not(TMP\_537) = 1 TMP\_538 = 5 TMP\_539 = 0 not(TMP\_539) = 1 TMP\_540 = 0 not(TMP\_540) = 1 TMP\_541 = 0 TMP\_542 = 1 not(TMP\_542) = 0 TMP\_543 = 1 not(TMP\_543) = 0 TMP\_544 = 2 TMP\_545 = 0 not(TMP\_545) = 1 TMP\_546 = 0 not(TMP\_546) = 1 TMP\_547 = 1 not(TMP\_547) = 0 TMP\_548 = 1 not(TMP\_548) = 0 TMP\_549 = 1 not(TMP\_549) = 0 TMP\_550 = 2 TMP\_551 = 1 not(TMP\_551) = 0 TMP\_552 = 0 not(TMP\_552) = 1 TMP\_553 = 1 not(TMP\_553) = 0 TMP\_554 = 1 not(TMP\_554) = 0 TMP\_555 = 1 not(TMP\_555) = 0 TMP\_556 = 0 not(TMP\_556) = 1 TMP\_557 = 4 TMP\_558 = 0 not(TMP\_558) = 1 TMP\_559 = 0 not(TMP\_559) = 1 TMP\_560 = 0 TMP\_561 = 1 not(TMP\_561) = 0 TMP\_562 = 1 not(TMP\_562) = 0 TMP\_563 = 2 TMP\_564 = 0 not(TMP\_564) = 1 TMP\_565 = 0 not(TMP\_565) = 1 TMP\_566 = 1 not(TMP\_566) = 0 TMP\_567 = 1 not(TMP\_567) = 0 TMP\_568 = 1 not(TMP\_568) = 0 TMP\_569 = 2 TMP\_570 = 1 not(TMP\_570) = 0 TMP\_571 = 0 not(TMP\_571) = 1 TMP\_572 = 1 not(TMP\_572) = 0 TMP\_573 = 1 not(TMP\_573) = 0 TMP\_574 = 1 not(TMP\_574) = 0 TMP\_575 = 1 not(TMP\_575) = 0 TMP\_576 = 5 TMP\_577 = 0 not(TMP\_577) = 1 TMP\_578 = 0 not(TMP\_578) = 1 TMP\_579 = 0 TMP\_580 = 1 not(TMP\_580) = 0 TMP\_581 = 1 not(TMP\_581) = 0 TMP\_582 = 2 TMP\_583 = 0 not(TMP\_583) = 1 TMP\_584 = 0 not(TMP\_584) = 1 TMP\_585 = 1 not(TMP\_585) = 0 TMP\_586 = 1 not(TMP\_586) = 0 TMP\_587 = 1 not(TMP\_587) = 0 TMP\_588 = 2 TMP\_589 = 1 not(TMP\_589) = 0 TMP\_590 = 1 not(TMP\_590) = 0 TMP\_591 = 0 not(TMP\_591) = 1 TMP\_592 = 1 not(TMP\_592) = 0 TMP\_593 = 1 not(TMP\_593) = 0 TMP\_594 = 1 not(TMP\_594) = 0 TMP\_595 = 5 TMP\_596 = 0 not(TMP\_596) = 1 TMP\_597 = 0 not(TMP\_597) = 1 TMP\_598 = 0 TMP\_599 = 1 not(TMP\_599) = 0 TMP\_600 = 1 not(TMP\_600) = 0 TMP\_601 = 2 TMP\_602 = 0 not(TMP\_602) = 1 TMP\_603 = 0 not(TMP\_603) = 1 TMP\_604 = 1 not(TMP\_604) = 0 TMP\_605 = 1 not(TMP\_605) = 0 TMP\_606 = 1 not(TMP\_606) = 0 TMP\_607 = 2 TMP\_608 = 1 not(TMP\_608) = 0 TMP\_609 = 0 not(TMP\_609) = 1 TMP\_610 = 1 not(TMP\_610) = 0 TMP\_611 = 1 not(TMP\_611) = 0 TMP\_612 = 1 not(TMP\_612) = 0 TMP\_613 = 1 not(TMP\_613) = 0 TMP\_614 = 5 TMP\_615 = 0 not(TMP\_615) = 1 TMP\_616 = 0 not(TMP\_616) = 1 TMP\_617 = 0 TMP\_618 = 1 not(TMP\_618) = 0 TMP\_619 = 1 not(TMP\_619) = 0 TMP\_620 = 2 TMP\_621 = 0 not(TMP\_621) = 1 TMP\_622 = 0 not(TMP\_622) = 1 TMP\_623 = 1 not(TMP\_623) = 0 TMP\_624 = 1 not(TMP\_624) = 0 TMP\_625 = 1 not(TMP\_625) = 0 TMP\_626 = 2 TMP\_627 = 1 not(TMP\_627) = 0 TMP\_628 = 0 not(TMP\_628) = 1 TMP\_629 = 1 not(TMP\_629) = 0 TMP\_630 = 1 not(TMP\_630) = 0 TMP\_631 = 1 not(TMP\_631) = 0 TMP\_632 = 0 not(TMP\_632) = 1 TMP\_633 = 4 TMP\_634 = 0 not(TMP\_634) = 1 TMP\_635 = 0 not(TMP\_635) = 1 TMP\_636 = 0 TMP\_637 = 1 not(TMP\_637) = 0 TMP\_638 = 1 not(TMP\_638) = 0 TMP\_639 = 2 TMP\_640 = 0 not(TMP\_640) = 1 TMP\_641 = 0 not(TMP\_641) = 1 TMP\_642 = 1 not(TMP\_642) = 0 TMP\_643 = 1 not(TMP\_643) = 0 TMP\_644 = 1 not(TMP\_644) = 0 TMP\_645 = 2 TMP\_646 = 1 not(TMP\_646) = 0 TMP\_647 = 1 not(TMP\_647) = 0 TMP\_648 = 1 not(TMP\_648) = 0 TMP\_649 = 1 not(TMP\_649) = 0 TMP\_650 = 1 not(TMP\_650) = 0 TMP\_651 = 0 not(TMP\_651) = 1 TMP\_652 = 5 TMP\_653 = 0 not(TMP\_653) = 1 TMP\_654 = 0 not(TMP\_654) = 1 TMP\_655 = 0 TMP\_656 = 1 not(TMP\_656) = 0 TMP\_657 = 1 not(TMP\_657) = 0 TMP\_658 = 2 TMP\_659 = 0 not(TMP\_659) = 1 TMP\_660 = 0 not(TMP\_660) = 1 TMP\_661 = 1 not(TMP\_661) = 0 TMP\_662 = 1 not(TMP\_662) = 0 TMP\_663 = 1 not(TMP\_663) = 0 TMP\_664 = 2 Area\_0 = 60 Distance\_0\_Rule\_0 = 20 Distance\_1\_Rule\_0 = 3 Distance\_2\_Rule\_0 = 1 Area\_1 = 174 Distance\_0\_Rule\_1 = 58 Distance\_1\_Rule\_1 = 3 Distance\_2\_Rule\_1 = 1 Area\_2 = 116 Distance\_0\_Rule\_2 = 58 Distance\_1\_Rule\_2 = 2 Distance\_2\_Rule\_2 = 1 Area\_3 = 79 -(Rule\_3\_LB) = 0 Distance\_0\_Rule\_3 = 79 -(Rule\_3\_LB) = 0 Distance\_1\_Rule\_3 = 1 -(Rule\_3\_LB) = 0 Distance\_2\_Rule\_3 = 1 Area\_4 = 123 -(Rule\_4\_LB) = -79 Distance\_0\_Rule\_4 = 41 -(Rule\_4\_LB) = 0 Distance\_1\_Rule\_4 = 3 -(Rule\_4\_LB) = 0 Distance\_2\_Rule\_4 = 1 Area\_5 = 123 -(Rule\_5\_LB) = -79 Distance\_0\_Rule\_5 = 41 -(Rule\_5\_LB) = 0 Distance\_1\_Rule\_5 = 3 -(Rule\_5\_LB) = -1 Distance\_2\_Rule\_5 = 1 Area\_6 = 3 -(Rule\_6\_LB) = -20 Distance\_0\_Rule\_6 = 1 -(Rule\_6\_LB) = 0 Distance\_1\_Rule\_6 = 3 -(Rule\_6\_LB) = -1 Distance\_2\_Rule\_6 = 1 Area\_7 = 42 -(Rule\_7\_LB) = 0 Distance\_0\_Rule\_7 = 21 -(Rule\_7\_LB) = -1 Distance\_1\_Rule\_7 = 2 -(Rule\_7\_LB) = 0 Distance\_2\_Rule\_7 = 1 TMP\_665 = 720 .

- Solution #15 found. 15 Solutions, Resolution 3.219s, 23843 Nodes (7,408.0 n/s), 47614 Backtracks, 23801 Fails, 0 Restarts

Rule\_3\_LB = 0 Rule\_3\_UB = 79 Rule\_3\_LB = 0 Rule\_3\_UB = 1 Rule\_3\_LB = 0 Rule\_3\_UB = 1 Rule\_4\_LB = 79 Rule\_4\_UB = 120 Rule\_4\_LB = 0 Rule\_4\_UB = 3 Rule\_4\_LB = 0 Rule\_4\_UB = 1 Rule\_5\_LB = 79 Rule\_5\_UB = 120 Rule\_5\_LB = 0 Rule\_5\_UB = 3 Rule\_5\_LB = 1 Rule\_5\_UB = 2 Rule\_6\_LB = 20 Rule\_6\_UB = 21 Rule\_6\_LB = 0 Rule\_6\_UB = 3 Rule\_6\_LB = 1 Rule\_6\_UB = 2 Rule\_7\_LB = 0 Rule\_7\_UB = 21 Rule\_7\_LB = 1 Rule\_7\_UB = 3 Rule\_7\_LB = 0 Rule\_7\_UB = 1 Overlaps\_0\_0 = 0 Overlaps\_0\_1 = 0 Overlaps\_0\_2 = 0 Overlaps\_0\_3 = 0 Overlaps\_0\_4 = 0 Overlaps\_0\_5 = 0 Overlaps\_0\_6 = 0 Overlaps\_0\_7 = 0 Overlaps\_1\_0 = 0 Overlaps\_1\_1 = 0 Overlaps\_1\_2 = 1 Overlaps\_1\_3 = 0 Overlaps\_1\_4 = 0 Overlaps\_1\_5 = 0 Overlaps\_1\_6 = 0 Overlaps\_1\_7 = 0 Overlaps\_2\_0 = 1 Overlaps\_2\_1 = 1 Overlaps\_2\_2 = 0 Overlaps\_2\_3 = 0 Overlaps\_2\_4 = 0 Overlaps\_2\_5 = 0 Overlaps\_2\_6 = 0 Overlaps\_2\_7 = 0 Overlaps\_3\_0 = 0 Overlaps\_3\_1 = 0 Overlaps\_3\_2 = 0 Overlaps\_3\_3 = 0 Overlaps\_3\_4 = 0 Overlaps\_3\_5 = 0 Overlaps\_3\_6 = 0 Overlaps\_3\_7 = 0 Overlaps\_4\_0 = 0 Overlaps\_4\_1 = 0 Overlaps\_4\_2 = 0 Overlaps\_4\_3 = 0 Overlaps\_4\_4 = 0 Overlaps\_4\_5 = 0 Overlaps\_4\_6 = 0 Overlaps\_4\_7 = 0 Overlaps\_5\_0 = 0 Overlaps\_5\_1 = 0 Overlaps\_5\_2 = 0 Overlaps\_5\_3 = 0 Overlaps\_5\_4 = 0 Overlaps\_5\_5 = 0 Overlaps\_5\_6 = 0 Overlaps\_5\_7 = 0 Overlaps\_6\_0 = 0 Overlaps\_6\_1 = 0 Overlaps\_6\_2 = 0 Overlaps\_6\_3 = 0 Overlaps\_6\_4 = 0 Overlaps\_6\_5 = 0 Overlaps\_6\_6 = 0 Overlaps\_6\_7 = 0 Overlaps\_7\_0 = 0 Overlaps\_7\_1 = 0 Overlaps\_7\_2 = 0 Overlaps\_7\_3 = 0 Overlaps\_7\_4 = 0 Overlaps\_7\_5 = 0 Overlaps\_7\_6 = 0 Overlaps\_7\_7 = 0 TMP\_0 = 1 not(TMP\_0) = 0 TMP\_1 = 1 not(TMP\_1) = 0 TMP\_2 = 1 not(TMP\_2) = 0 TMP\_3 = 1 not(TMP\_3) = 0 TMP\_4 = 1 not(TMP\_4) = 0 TMP\_5 = 0 not(TMP\_5) = 1 TMP\_6 = 5 TMP\_7 = 0 not(TMP\_7) = 1 TMP\_8 = 0 not(TMP\_8) = 1 TMP\_9 = 0 TMP\_10 = 1 not(TMP\_10) = 0 TMP\_11 = 1 not(TMP\_11) = 0 TMP\_12 = 2 TMP\_13 = 0 not(TMP\_13) = 1 TMP\_14 = 0 not(TMP\_14) = 1 TMP\_15 = 1 not(TMP\_15) = 0 TMP\_16 = 1 not(TMP\_16) = 0 TMP\_17 = 1 not(TMP\_17) = 0 TMP\_18 = 2 TMP\_19 = 1 not(TMP\_19) = 0 TMP\_20 = 1 not(TMP\_20) = 0 TMP\_21 = 1 not(TMP\_21) = 0 TMP\_22 = 1 not(TMP\_22) = 0 TMP\_23 = 1 not(TMP\_23) = 0 TMP\_24 = 0 not(TMP\_24) = 1 TMP\_25 = 5 TMP\_26 = 0 not(TMP\_26) = 1 TMP\_27 = 0 not(TMP\_27) = 1 TMP\_28 = 0 TMP\_29 = 1 not(TMP\_29) = 0 TMP\_30 = 1 not(TMP\_30) = 0 TMP\_31 = 2 TMP\_32 = 0 not(TMP\_32) = 1 TMP\_33 = 0 not(TMP\_33) = 1 TMP\_34 = 1 not(TMP\_34) = 0 TMP\_35 = 1 not(TMP\_35) = 0 TMP\_36 = 1 not(TMP\_36) = 0 TMP\_37 = 2 TMP\_38 = 1 not(TMP\_38) = 0 TMP\_39 = 1 not(TMP\_39) = 0 TMP\_40 = 1 not(TMP\_40) = 0 TMP\_41 = 0 not(TMP\_41) = 1 TMP\_42 = 1 not(TMP\_42) = 0 TMP\_43 = 1 not(TMP\_43) = 0 TMP\_44 = 5 TMP\_45 = 0 not(TMP\_45) = 1 TMP\_46 = 0 not(TMP\_46) = 1 TMP\_47 = 0 TMP\_48 = 1 not(TMP\_48) = 0 TMP\_49 = 1 not(TMP\_49) = 0 TMP\_50 = 2 TMP\_51 = 0 not(TMP\_51) = 1 TMP\_52 = 0 not(TMP\_52) = 1 TMP\_53 = 1 not(TMP\_53) = 0 TMP\_54 = 1 not(TMP\_54) = 0 TMP\_55 = 1 not(TMP\_55) = 0 TMP\_56 = 2 TMP\_57 = 1 not(TMP\_57) = 0 TMP\_58 = 0 not(TMP\_58) = 1 TMP\_59 = 1 not(TMP\_59) = 0 TMP\_60 = 1 not(TMP\_60) = 0 TMP\_61 = 1 not(TMP\_61) = 0 TMP\_62 = 1 not(TMP\_62) = 0 TMP\_63 = 5 TMP\_64 = 0 not(TMP\_64) = 1 TMP\_65 = 0 not(TMP\_65) = 1 TMP\_66 = 0 TMP\_67 = 1 not(TMP\_67) = 0 TMP\_68 = 1 not(TMP\_68) = 0 TMP\_69 = 2 TMP\_70 = 0 not(TMP\_70) = 1 TMP\_71 = 0 not(TMP\_71) = 1 TMP\_72 = 1 not(TMP\_72) = 0 TMP\_73 = 1 not(TMP\_73) = 0 TMP\_74 = 1 not(TMP\_74) = 0 TMP\_75 = 2 TMP\_76 = 1 not(TMP\_76) = 0 TMP\_77 = 0 not(TMP\_77) = 1 TMP\_78 = 1 not(TMP\_78) = 0 TMP\_79 = 1 not(TMP\_79) = 0 TMP\_80 = 1 not(TMP\_80) = 0 TMP\_81 = 0 not(TMP\_81) = 1 TMP\_82 = 4 TMP\_83 = 0 not(TMP\_83) = 1 TMP\_84 = 0 not(TMP\_84) = 1 TMP\_85 = 0 TMP\_86 = 1 not(TMP\_86) = 0 TMP\_87 = 1 not(TMP\_87) = 0 TMP\_88 = 2 TMP\_89 = 0 not(TMP\_89) = 1 TMP\_90 = 0 not(TMP\_90) = 1 TMP\_91 = 1 not(TMP\_91) = 0 TMP\_92 = 1 not(TMP\_92) = 0 TMP\_93 = 1 not(TMP\_93) = 0 TMP\_94 = 2 TMP\_95 = 1 not(TMP\_95) = 0 TMP\_96 = 1 not(TMP\_96) = 0 TMP\_97 = 1 not(TMP\_97) = 0 TMP\_98 = 1 not(TMP\_98) = 0 TMP\_99 = 1 not(TMP\_99) = 0 TMP\_100 = 0 not(TMP\_100) = 1 TMP\_101 = 5 TMP\_102 = 0 not(TMP\_102) = 1 TMP\_103 = 0 not(TMP\_103) = 1 TMP\_104 = 0 TMP\_105 = 1 not(TMP\_105) = 0 TMP\_106 = 1 not(TMP\_106) = 0 TMP\_107 = 2 TMP\_108 = 0 not(TMP\_108) = 1 TMP\_109 = 0 not(TMP\_109) = 1 TMP\_110 = 1 not(TMP\_110) = 0 TMP\_111 = 1 not(TMP\_111) = 0 TMP\_112 = 1 not(TMP\_112) = 0 TMP\_113 = 2 TMP\_114 = 1 not(TMP\_114) = 0 TMP\_115 = 1 not(TMP\_115) = 0 TMP\_116 = 1 not(TMP\_116) = 0 TMP\_117 = 0 not(TMP\_117) = 1 TMP\_118 = 1 not(TMP\_118) = 0 TMP\_119 = 1 not(TMP\_119) = 0 TMP\_120 = 5 TMP\_121 = 0 not(TMP\_121) = 1 TMP\_122 = 0 not(TMP\_122) = 1 TMP\_123 = 0 TMP\_124 = 1 not(TMP\_124) = 0 TMP\_125 = 1 not(TMP\_125) = 0 TMP\_126 = 2 TMP\_127 = 0 not(TMP\_127) = 1 TMP\_128 = 0 not(TMP\_128) = 1 TMP\_129 = 1 not(TMP\_129) = 0 TMP\_130 = 1 not(TMP\_130) = 0 TMP\_131 = 1 not(TMP\_131) = 0 TMP\_132 = 2 TMP\_133 = 0 not(TMP\_133) = 1 TMP\_134 = 1 not(TMP\_134) = 0 TMP\_135 = 1 not(TMP\_135) = 0 TMP\_136 = 1 not(TMP\_136) = 0 TMP\_137 = 1 not(TMP\_137) = 0 TMP\_138 = 0 not(TMP\_138) = 1 TMP\_139 = 4 TMP\_140 = 0 not(TMP\_140) = 1 TMP\_141 = 0 not(TMP\_141) = 1 TMP\_142 = 0 TMP\_143 = 1 not(TMP\_143) = 0 TMP\_144 = 1 not(TMP\_144) = 0 TMP\_145 = 2 TMP\_146 = 0 not(TMP\_146) = 1 TMP\_147 = 0 not(TMP\_147) = 1 TMP\_148 = 1 not(TMP\_148) = 0 TMP\_149 = 1 not(TMP\_149) = 0 TMP\_150 = 1 not(TMP\_150) = 0 TMP\_151 = 2 TMP\_152 = 0 not(TMP\_152) = 1 TMP\_153 = 1 not(TMP\_153) = 0 TMP\_154 = 1 not(TMP\_154) = 0 TMP\_155 = 1 not(TMP\_155) = 0 TMP\_156 = 1 not(TMP\_156) = 0 TMP\_157 = 0 not(TMP\_157) = 1 TMP\_158 = 4 TMP\_159 = 0 not(TMP\_159) = 1 TMP\_160 = 0 not(TMP\_160) = 1 TMP\_161 = 0 TMP\_162 = 1 not(TMP\_162) = 0 TMP\_163 = 1 not(TMP\_163) = 0 TMP\_164 = 2 TMP\_165 = 0 not(TMP\_165) = 1 TMP\_166 = 0 not(TMP\_166) = 1 TMP\_167 = 1 not(TMP\_167) = 0 TMP\_168 = 1 not(TMP\_168) = 0 TMP\_169 = 1 not(TMP\_169) = 0 TMP\_170 = 2 TMP\_171 = 0 not(TMP\_171) = 1 TMP\_172 = 1 not(TMP\_172) = 0 TMP\_173 = 1 not(TMP\_173) = 0 TMP\_174 = 1 not(TMP\_174) = 0 TMP\_175 = 1 not(TMP\_175) = 0 TMP\_176 = 1 not(TMP\_176) = 0 TMP\_177 = 5 TMP\_178 = 0 not(TMP\_178) = 1 TMP\_179 = 0 not(TMP\_179) = 1 TMP\_180 = 0 TMP\_181 = 1 not(TMP\_181) = 0 TMP\_182 = 1 not(TMP\_182) = 0 TMP\_183 = 2 TMP\_184 = 0 not(TMP\_184) = 1 TMP\_185 = 0 not(TMP\_185) = 1 TMP\_186 = 1 not(TMP\_186) = 0 TMP\_187 = 1 not(TMP\_187) = 0 TMP\_188 = 1 not(TMP\_188) = 0 TMP\_189 = 2 TMP\_190 = 0 not(TMP\_190) = 1 TMP\_191 = 1 not(TMP\_191) = 0 TMP\_192 = 1 not(TMP\_192) = 0 TMP\_193 = 1 not(TMP\_193) = 0 TMP\_194 = 1 not(TMP\_194) = 0 TMP\_195 = 1 not(TMP\_195) = 0 TMP\_196 = 5 TMP\_197 = 0 not(TMP\_197) = 1 TMP\_198 = 0 not(TMP\_198) = 1 TMP\_199 = 0 TMP\_200 = 1 not(TMP\_200) = 0 TMP\_201 = 1 not(TMP\_201) = 0 TMP\_202 = 2 TMP\_203 = 0 not(TMP\_203) = 1 TMP\_204 = 0 not(TMP\_204) = 1 TMP\_205 = 1 not(TMP\_205) = 0 TMP\_206 = 1 not(TMP\_206) = 0 TMP\_207 = 1 not(TMP\_207) = 0 TMP\_208 = 2 TMP\_209 = 1 not(TMP\_209) = 0 TMP\_210 = 1 not(TMP\_210) = 0 TMP\_211 = 1 not(TMP\_211) = 0 TMP\_212 = 1 not(TMP\_212) = 0 TMP\_213 = 1 not(TMP\_213) = 0 TMP\_214 = 0 not(TMP\_214) = 1 TMP\_215 = 5 TMP\_216 = 0 not(TMP\_216) = 1 TMP\_217 = 0 not(TMP\_217) = 1 TMP\_218 = 0 TMP\_219 = 1 not(TMP\_219) = 0 TMP\_220 = 1 not(TMP\_220) = 0 TMP\_221 = 2 TMP\_222 = 0 not(TMP\_222) = 1 TMP\_223 = 0 not(TMP\_223) = 1 TMP\_224 = 1 not(TMP\_224) = 0 TMP\_225 = 1 not(TMP\_225) = 0 TMP\_226 = 1 not(TMP\_226) = 0 TMP\_227 = 2 TMP\_228 = 0 not(TMP\_228) = 1 TMP\_229 = 1 not(TMP\_229) = 0 TMP\_230 = 1 not(TMP\_230) = 0 TMP\_231 = 1 not(TMP\_231) = 0 TMP\_232 = 1 not(TMP\_232) = 0 TMP\_233 = 0 not(TMP\_233) = 1 TMP\_234 = 4 TMP\_235 = 0 not(TMP\_235) = 1 TMP\_236 = 0 not(TMP\_236) = 1 TMP\_237 = 0 TMP\_238 = 1 not(TMP\_238) = 0 TMP\_239 = 1 not(TMP\_239) = 0 TMP\_240 = 2 TMP\_241 = 0 not(TMP\_241) = 1 TMP\_242 = 0 not(TMP\_242) = 1 TMP\_243 = 1 not(TMP\_243) = 0 TMP\_244 = 1 not(TMP\_244) = 0 TMP\_245 = 1 not(TMP\_245) = 0 TMP\_246 = 2 TMP\_247 = 0 not(TMP\_247) = 1 TMP\_248 = 1 not(TMP\_248) = 0 TMP\_249 = 1 not(TMP\_249) = 0 TMP\_250 = 1 not(TMP\_250) = 0 TMP\_251 = 1 not(TMP\_251) = 0 TMP\_252 = 1 not(TMP\_252) = 0 TMP\_253 = 5 TMP\_254 = 0 not(TMP\_254) = 1 TMP\_255 = 0 not(TMP\_255) = 1 TMP\_256 = 0 TMP\_257 = 1 not(TMP\_257) = 0 TMP\_258 = 1 not(TMP\_258) = 0 TMP\_259 = 2 TMP\_260 = 0 not(TMP\_260) = 1 TMP\_261 = 0 not(TMP\_261) = 1 TMP\_262 = 1 not(TMP\_262) = 0 TMP\_263 = 1 not(TMP\_263) = 0 TMP\_264 = 1 not(TMP\_264) = 0 TMP\_265 = 2 TMP\_266 = 0 not(TMP\_266) = 1 TMP\_267 = 1 not(TMP\_267) = 0 TMP\_268 = 1 not(TMP\_268) = 0 TMP\_269 = 1 not(TMP\_269) = 0 TMP\_270 = 1 not(TMP\_270) = 0 TMP\_271 = 1 not(TMP\_271) = 0 TMP\_272 = 5 TMP\_273 = 0 not(TMP\_273) = 1 TMP\_274 = 0 not(TMP\_274) = 1 TMP\_275 = 0 TMP\_276 = 1 not(TMP\_276) = 0 TMP\_277 = 1 not(TMP\_277) = 0 TMP\_278 = 2 TMP\_279 = 0 not(TMP\_279) = 1 TMP\_280 = 0 not(TMP\_280) = 1 TMP\_281 = 1 not(TMP\_281) = 0 TMP\_282 = 1 not(TMP\_282) = 0 TMP\_283 = 1 not(TMP\_283) = 0 TMP\_284 = 2 TMP\_285 = 0 not(TMP\_285) = 1 TMP\_286 = 1 not(TMP\_286) = 0 TMP\_287 = 1 not(TMP\_287) = 0 TMP\_288 = 1 not(TMP\_288) = 0 TMP\_289 = 1 not(TMP\_289) = 0 TMP\_290 = 1 not(TMP\_290) = 0 TMP\_291 = 5 TMP\_292 = 0 not(TMP\_292) = 1 TMP\_293 = 0 not(TMP\_293) = 1 TMP\_294 = 0 TMP\_295 = 1 not(TMP\_295) = 0 TMP\_296 = 1 not(TMP\_296) = 0 TMP\_297 = 2 TMP\_298 = 0 not(TMP\_298) = 1 TMP\_299 = 0 not(TMP\_299) = 1 TMP\_300 = 1 not(TMP\_300) = 0 TMP\_301 = 1 not(TMP\_301) = 0 TMP\_302 = 1 not(TMP\_302) = 0 TMP\_303 = 2 TMP\_304 = 0 not(TMP\_304) = 1 TMP\_305 = 1 not(TMP\_305) = 0 TMP\_306 = 1 not(TMP\_306) = 0 TMP\_307 = 1 not(TMP\_307) = 0 TMP\_308 = 0 not(TMP\_308) = 1 TMP\_309 = 1 not(TMP\_309) = 0 TMP\_310 = 4 TMP\_311 = 0 not(TMP\_311) = 1 TMP\_312 = 0 not(TMP\_312) = 1 TMP\_313 = 0 TMP\_314 = 1 not(TMP\_314) = 0 TMP\_315 = 1 not(TMP\_315) = 0 TMP\_316 = 2 TMP\_317 = 0 not(TMP\_317) = 1 TMP\_318 = 0 not(TMP\_318) = 1 TMP\_319 = 1 not(TMP\_319) = 0 TMP\_320 = 1 not(TMP\_320) = 0 TMP\_321 = 1 not(TMP\_321) = 0 TMP\_322 = 2 TMP\_323 = 0 not(TMP\_323) = 1 TMP\_324 = 1 not(TMP\_324) = 0 TMP\_325 = 1 not(TMP\_325) = 0 TMP\_326 = 1 not(TMP\_326) = 0 TMP\_327 = 0 not(TMP\_327) = 1 TMP\_328 = 1 not(TMP\_328) = 0 TMP\_329 = 4 TMP\_330 = 0 not(TMP\_330) = 1 TMP\_331 = 0 not(TMP\_331) = 1 TMP\_332 = 0 TMP\_333 = 1 not(TMP\_333) = 0 TMP\_334 = 1 not(TMP\_334) = 0 TMP\_335 = 2 TMP\_336 = 0 not(TMP\_336) = 1 TMP\_337 = 0 not(TMP\_337) = 1 TMP\_338 = 1 not(TMP\_338) = 0 TMP\_339 = 1 not(TMP\_339) = 0 TMP\_340 = 1 not(TMP\_340) = 0 TMP\_341 = 2 TMP\_342 = 1 not(TMP\_342) = 0 TMP\_343 = 1 not(TMP\_343) = 0 TMP\_344 = 1 not(TMP\_344) = 0 TMP\_345 = 1 not(TMP\_345) = 0 TMP\_346 = 0 not(TMP\_346) = 1 TMP\_347 = 1 not(TMP\_347) = 0 TMP\_348 = 5 TMP\_349 = 0 not(TMP\_349) = 1 TMP\_350 = 0 not(TMP\_350) = 1 TMP\_351 = 0 TMP\_352 = 1 not(TMP\_352) = 0 TMP\_353 = 1 not(TMP\_353) = 0 TMP\_354 = 2 TMP\_355 = 0 not(TMP\_355) = 1 TMP\_356 = 0 not(TMP\_356) = 1 TMP\_357 = 1 not(TMP\_357) = 0 TMP\_358 = 1 not(TMP\_358) = 0 TMP\_359 = 1 not(TMP\_359) = 0 TMP\_360 = 2 TMP\_361 = 0 not(TMP\_361) = 1 TMP\_362 = 1 not(TMP\_362) = 0 TMP\_363 = 1 not(TMP\_363) = 0 TMP\_364 = 1 not(TMP\_364) = 0 TMP\_365 = 1 not(TMP\_365) = 0 TMP\_366 = 1 not(TMP\_366) = 0 TMP\_367 = 5 TMP\_368 = 0 not(TMP\_368) = 1 TMP\_369 = 0 not(TMP\_369) = 1 TMP\_370 = 0 TMP\_371 = 1 not(TMP\_371) = 0 TMP\_372 = 1 not(TMP\_372) = 0 TMP\_373 = 2 TMP\_374 = 0 not(TMP\_374) = 1 TMP\_375 = 0 not(TMP\_375) = 1 TMP\_376 = 1 not(TMP\_376) = 0 TMP\_377 = 1 not(TMP\_377) = 0 TMP\_378 = 1 not(TMP\_378) = 0 TMP\_379 = 2 TMP\_380 = 0 not(TMP\_380) = 1 TMP\_381 = 1 not(TMP\_381) = 0 TMP\_382 = 1 not(TMP\_382) = 0 TMP\_383 = 1 not(TMP\_383) = 0 TMP\_384 = 0 not(TMP\_384) = 1 TMP\_385 = 1 not(TMP\_385) = 0 TMP\_386 = 4 TMP\_387 = 0 not(TMP\_387) = 1 TMP\_388 = 0 not(TMP\_388) = 1 TMP\_389 = 0 TMP\_390 = 1 not(TMP\_390) = 0 TMP\_391 = 1 not(TMP\_391) = 0 TMP\_392 = 2 TMP\_393 = 0 not(TMP\_393) = 1 TMP\_394 = 0 not(TMP\_394) = 1 TMP\_395 = 1 not(TMP\_395) = 0 TMP\_396 = 1 not(TMP\_396) = 0 TMP\_397 = 1 not(TMP\_397) = 0 TMP\_398 = 2 TMP\_399 = 0 not(TMP\_399) = 1 TMP\_400 = 1 not(TMP\_400) = 0 TMP\_401 = 1 not(TMP\_401) = 0 TMP\_402 = 1 not(TMP\_402) = 0 TMP\_403 = 1 not(TMP\_403) = 0 TMP\_404 = 1 not(TMP\_404) = 0 TMP\_405 = 5 TMP\_406 = 0 not(TMP\_406) = 1 TMP\_407 = 0 not(TMP\_407) = 1 TMP\_408 = 0 TMP\_409 = 1 not(TMP\_409) = 0 TMP\_410 = 1 not(TMP\_410) = 0 TMP\_411 = 2 TMP\_412 = 0 not(TMP\_412) = 1 TMP\_413 = 0 not(TMP\_413) = 1 TMP\_414 = 1 not(TMP\_414) = 0 TMP\_415 = 1 not(TMP\_415) = 0 TMP\_416 = 1 not(TMP\_416) = 0 TMP\_417 = 2 TMP\_418 = 1 not(TMP\_418) = 0 TMP\_419 = 0 not(TMP\_419) = 1 TMP\_420 = 1 not(TMP\_420) = 0 TMP\_421 = 1 not(TMP\_421) = 0 TMP\_422 = 1 not(TMP\_422) = 0 TMP\_423 = 1 not(TMP\_423) = 0 TMP\_424 = 5 TMP\_425 = 0 not(TMP\_425) = 1 TMP\_426 = 0 not(TMP\_426) = 1 TMP\_427 = 0 TMP\_428 = 1 not(TMP\_428) = 0 TMP\_429 = 1 not(TMP\_429) = 0 TMP\_430 = 2 TMP\_431 = 0 not(TMP\_431) = 1 TMP\_432 = 0 not(TMP\_432) = 1 TMP\_433 = 1 not(TMP\_433) = 0 TMP\_434 = 1 not(TMP\_434) = 0 TMP\_435 = 1 not(TMP\_435) = 0 TMP\_436 = 2 TMP\_437 = 1 not(TMP\_437) = 0 TMP\_438 = 0 not(TMP\_438) = 1 TMP\_439 = 1 not(TMP\_439) = 0 TMP\_440 = 1 not(TMP\_440) = 0 TMP\_441 = 0 not(TMP\_441) = 1 TMP\_442 = 1 not(TMP\_442) = 0 TMP\_443 = 4 TMP\_444 = 0 not(TMP\_444) = 1 TMP\_445 = 0 not(TMP\_445) = 1 TMP\_446 = 0 TMP\_447 = 1 not(TMP\_447) = 0 TMP\_448 = 1 not(TMP\_448) = 0 TMP\_449 = 2 TMP\_450 = 0 not(TMP\_450) = 1 TMP\_451 = 0 not(TMP\_451) = 1 TMP\_452 = 1 not(TMP\_452) = 0 TMP\_453 = 1 not(TMP\_453) = 0 TMP\_454 = 1 not(TMP\_454) = 0 TMP\_455 = 2 TMP\_456 = 1 not(TMP\_456) = 0 TMP\_457 = 1 not(TMP\_457) = 0 TMP\_458 = 1 not(TMP\_458) = 0 TMP\_459 = 1 not(TMP\_459) = 0 TMP\_460 = 0 not(TMP\_460) = 1 TMP\_461 = 1 not(TMP\_461) = 0 TMP\_462 = 5 TMP\_463 = 0 not(TMP\_463) = 1 TMP\_464 = 0 not(TMP\_464) = 1 TMP\_465 = 0 TMP\_466 = 1 not(TMP\_466) = 0 TMP\_467 = 1 not(TMP\_467) = 0 TMP\_468 = 2 TMP\_469 = 0 not(TMP\_469) = 1 TMP\_470 = 0 not(TMP\_470) = 1 TMP\_471 = 1 not(TMP\_471) = 0 TMP\_472 = 1 not(TMP\_472) = 0 TMP\_473 = 1 not(TMP\_473) = 0 TMP\_474 = 2 TMP\_475 = 1 not(TMP\_475) = 0 TMP\_476 = 0 not(TMP\_476) = 1 TMP\_477 = 1 not(TMP\_477) = 0 TMP\_478 = 1 not(TMP\_478) = 0 TMP\_479 = 0 not(TMP\_479) = 1 TMP\_480 = 1 not(TMP\_480) = 0 TMP\_481 = 4 TMP\_482 = 0 not(TMP\_482) = 1 TMP\_483 = 0 not(TMP\_483) = 1 TMP\_484 = 0 TMP\_485 = 1 not(TMP\_485) = 0 TMP\_486 = 1 not(TMP\_486) = 0 TMP\_487 = 2 TMP\_488 = 0 not(TMP\_488) = 1 TMP\_489 = 0 not(TMP\_489) = 1 TMP\_490 = 1 not(TMP\_490) = 0 TMP\_491 = 1 not(TMP\_491) = 0 TMP\_492 = 1 not(TMP\_492) = 0 TMP\_493 = 2 TMP\_494 = 1 not(TMP\_494) = 0 TMP\_495 = 0 not(TMP\_495) = 1 TMP\_496 = 1 not(TMP\_496) = 0 TMP\_497 = 1 not(TMP\_497) = 0 TMP\_498 = 1 not(TMP\_498) = 0 TMP\_499 = 1 not(TMP\_499) = 0 TMP\_500 = 5 TMP\_501 = 0 not(TMP\_501) = 1 TMP\_502 = 0 not(TMP\_502) = 1 TMP\_503 = 0 TMP\_504 = 1 not(TMP\_504) = 0 TMP\_505 = 1 not(TMP\_505) = 0 TMP\_506 = 2 TMP\_507 = 0 not(TMP\_507) = 1 TMP\_508 = 0 not(TMP\_508) = 1 TMP\_509 = 1 not(TMP\_509) = 0 TMP\_510 = 1 not(TMP\_510) = 0 TMP\_511 = 1 not(TMP\_511) = 0 TMP\_512 = 2 TMP\_513 = 1 not(TMP\_513) = 0 TMP\_514 = 1 not(TMP\_514) = 0 TMP\_515 = 1 not(TMP\_515) = 0 TMP\_516 = 1 not(TMP\_516) = 0 TMP\_517 = 0 not(TMP\_517) = 1 TMP\_518 = 1 not(TMP\_518) = 0 TMP\_519 = 5 TMP\_520 = 0 not(TMP\_520) = 1 TMP\_521 = 0 not(TMP\_521) = 1 TMP\_522 = 0 TMP\_523 = 1 not(TMP\_523) = 0 TMP\_524 = 1 not(TMP\_524) = 0 TMP\_525 = 2 TMP\_526 = 0 not(TMP\_526) = 1 TMP\_527 = 0 not(TMP\_527) = 1 TMP\_528 = 1 not(TMP\_528) = 0 TMP\_529 = 1 not(TMP\_529) = 0 TMP\_530 = 1 not(TMP\_530) = 0 TMP\_531 = 2 TMP\_532 = 1 not(TMP\_532) = 0 TMP\_533 = 1 not(TMP\_533) = 0 TMP\_534 = 1 not(TMP\_534) = 0 TMP\_535 = 1 not(TMP\_535) = 0 TMP\_536 = 1 not(TMP\_536) = 0 TMP\_537 = 0 not(TMP\_537) = 1 TMP\_538 = 5 TMP\_539 = 0 not(TMP\_539) = 1 TMP\_540 = 0 not(TMP\_540) = 1 TMP\_541 = 0 TMP\_542 = 1 not(TMP\_542) = 0 TMP\_543 = 1 not(TMP\_543) = 0 TMP\_544 = 2 TMP\_545 = 0 not(TMP\_545) = 1 TMP\_546 = 0 not(TMP\_546) = 1 TMP\_547 = 1 not(TMP\_547) = 0 TMP\_548 = 1 not(TMP\_548) = 0 TMP\_549 = 1 not(TMP\_549) = 0 TMP\_550 = 2 TMP\_551 = 1 not(TMP\_551) = 0 TMP\_552 = 0 not(TMP\_552) = 1 TMP\_553 = 1 not(TMP\_553) = 0 TMP\_554 = 1 not(TMP\_554) = 0 TMP\_555 = 1 not(TMP\_555) = 0 TMP\_556 = 0 not(TMP\_556) = 1 TMP\_557 = 4 TMP\_558 = 0 not(TMP\_558) = 1 TMP\_559 = 0 not(TMP\_559) = 1 TMP\_560 = 0 TMP\_561 = 1 not(TMP\_561) = 0 TMP\_562 = 1 not(TMP\_562) = 0 TMP\_563 = 2 TMP\_564 = 0 not(TMP\_564) = 1 TMP\_565 = 0 not(TMP\_565) = 1 TMP\_566 = 1 not(TMP\_566) = 0 TMP\_567 = 1 not(TMP\_567) = 0 TMP\_568 = 1 not(TMP\_568) = 0 TMP\_569 = 2 TMP\_570 = 1 not(TMP\_570) = 0 TMP\_571 = 0 not(TMP\_571) = 1 TMP\_572 = 1 not(TMP\_572) = 0 TMP\_573 = 1 not(TMP\_573) = 0 TMP\_574 = 1 not(TMP\_574) = 0 TMP\_575 = 1 not(TMP\_575) = 0 TMP\_576 = 5 TMP\_577 = 0 not(TMP\_577) = 1 TMP\_578 = 0 not(TMP\_578) = 1 TMP\_579 = 0 TMP\_580 = 1 not(TMP\_580) = 0 TMP\_581 = 1 not(TMP\_581) = 0 TMP\_582 = 2 TMP\_583 = 0 not(TMP\_583) = 1 TMP\_584 = 0 not(TMP\_584) = 1 TMP\_585 = 1 not(TMP\_585) = 0 TMP\_586 = 1 not(TMP\_586) = 0 TMP\_587 = 1 not(TMP\_587) = 0 TMP\_588 = 2 TMP\_589 = 1 not(TMP\_589) = 0 TMP\_590 = 1 not(TMP\_590) = 0 TMP\_591 = 0 not(TMP\_591) = 1 TMP\_592 = 1 not(TMP\_592) = 0 TMP\_593 = 1 not(TMP\_593) = 0 TMP\_594 = 1 not(TMP\_594) = 0 TMP\_595 = 5 TMP\_596 = 0 not(TMP\_596) = 1 TMP\_597 = 0 not(TMP\_597) = 1 TMP\_598 = 0 TMP\_599 = 1 not(TMP\_599) = 0 TMP\_600 = 1 not(TMP\_600) = 0 TMP\_601 = 2 TMP\_602 = 0 not(TMP\_602) = 1 TMP\_603 = 0 not(TMP\_603) = 1 TMP\_604 = 1 not(TMP\_604) = 0 TMP\_605 = 1 not(TMP\_605) = 0 TMP\_606 = 1 not(TMP\_606) = 0 TMP\_607 = 2 TMP\_608 = 1 not(TMP\_608) = 0 TMP\_609 = 0 not(TMP\_609) = 1 TMP\_610 = 1 not(TMP\_610) = 0 TMP\_611 = 1 not(TMP\_611) = 0 TMP\_612 = 1 not(TMP\_612) = 0 TMP\_613 = 1 not(TMP\_613) = 0 TMP\_614 = 5 TMP\_615 = 0 not(TMP\_615) = 1 TMP\_616 = 0 not(TMP\_616) = 1 TMP\_617 = 0 TMP\_618 = 1 not(TMP\_618) = 0 TMP\_619 = 1 not(TMP\_619) = 0 TMP\_620 = 2 TMP\_621 = 0 not(TMP\_621) = 1 TMP\_622 = 0 not(TMP\_622) = 1 TMP\_623 = 1 not(TMP\_623) = 0 TMP\_624 = 1 not(TMP\_624) = 0 TMP\_625 = 1 not(TMP\_625) = 0 TMP\_626 = 2 TMP\_627 = 1 not(TMP\_627) = 0 TMP\_628 = 0 not(TMP\_628) = 1 TMP\_629 = 1 not(TMP\_629) = 0 TMP\_630 = 1 not(TMP\_630) = 0 TMP\_631 = 1 not(TMP\_631) = 0 TMP\_632 = 0 not(TMP\_632) = 1 TMP\_633 = 4 TMP\_634 = 0 not(TMP\_634) = 1 TMP\_635 = 0 not(TMP\_635) = 1 TMP\_636 = 0 TMP\_637 = 1 not(TMP\_637) = 0 TMP\_638 = 1 not(TMP\_638) = 0 TMP\_639 = 2 TMP\_640 = 0 not(TMP\_640) = 1 TMP\_641 = 0 not(TMP\_641) = 1 TMP\_642 = 1 not(TMP\_642) = 0 TMP\_643 = 1 not(TMP\_643) = 0 TMP\_644 = 1 not(TMP\_644) = 0 TMP\_645 = 2 TMP\_646 = 1 not(TMP\_646) = 0 TMP\_647 = 1 not(TMP\_647) = 0 TMP\_648 = 1 not(TMP\_648) = 0 TMP\_649 = 1 not(TMP\_649) = 0 TMP\_650 = 1 not(TMP\_650) = 0 TMP\_651 = 0 not(TMP\_651) = 1 TMP\_652 = 5 TMP\_653 = 0 not(TMP\_653) = 1 TMP\_654 = 0 not(TMP\_654) = 1 TMP\_655 = 0 TMP\_656 = 1 not(TMP\_656) = 0 TMP\_657 = 1 not(TMP\_657) = 0 TMP\_658 = 2 TMP\_659 = 0 not(TMP\_659) = 1 TMP\_660 = 0 not(TMP\_660) = 1 TMP\_661 = 1 not(TMP\_661) = 0 TMP\_662 = 1 not(TMP\_662) = 0 TMP\_663 = 1 not(TMP\_663) = 0 TMP\_664 = 2 Area\_0 = 60 Distance\_0\_Rule\_0 = 20 Distance\_1\_Rule\_0 = 3 Distance\_2\_Rule\_0 = 1 Area\_1 = 174 Distance\_0\_Rule\_1 = 58 Distance\_1\_Rule\_1 = 3 Distance\_2\_Rule\_1 = 1 Area\_2 = 116 Distance\_0\_Rule\_2 = 58 Distance\_1\_Rule\_2 = 2 Distance\_2\_Rule\_2 = 1 Area\_3 = 79 -(Rule\_3\_LB) = 0 Distance\_0\_Rule\_3 = 79 -(Rule\_3\_LB) = 0 Distance\_1\_Rule\_3 = 1 -(Rule\_3\_LB) = 0 Distance\_2\_Rule\_3 = 1 Area\_4 = 123 -(Rule\_4\_LB) = -79 Distance\_0\_Rule\_4 = 41 -(Rule\_4\_LB) = 0 Distance\_1\_Rule\_4 = 3 -(Rule\_4\_LB) = 0 Distance\_2\_Rule\_4 = 1 Area\_5 = 123 -(Rule\_5\_LB) = -79 Distance\_0\_Rule\_5 = 41 -(Rule\_5\_LB) = 0 Distance\_1\_Rule\_5 = 3 -(Rule\_5\_LB) = -1 Distance\_2\_Rule\_5 = 1 Area\_6 = 3 -(Rule\_6\_LB) = -20 Distance\_0\_Rule\_6 = 1 -(Rule\_6\_LB) = 0 Distance\_1\_Rule\_6 = 3 -(Rule\_6\_LB) = -1 Distance\_2\_Rule\_6 = 1 Area\_7 = 42 -(Rule\_7\_LB) = 0 Distance\_0\_Rule\_7 = 21 -(Rule\_7\_LB) = -1 Distance\_1\_Rule\_7 = 2 -(Rule\_7\_LB) = 0 Distance\_2\_Rule\_7 = 1 TMP\_665 = 720 .

- Solution #16 found. 16 Solutions, Resolution 3.221s, 23844 Nodes (7,403.4 n/s), 47615 Backtracks, 23801 Fails, 0 Restarts

Rule\_3\_LB = 0 Rule\_3\_UB = 79 Rule\_3\_LB = 0 Rule\_3\_UB = 1 Rule\_3\_LB = 0 Rule\_3\_UB = 1 Rule\_4\_LB = 79 Rule\_4\_UB = 120 Rule\_4\_LB = 0 Rule\_4\_UB = 3 Rule\_4\_LB = 0 Rule\_4\_UB = 1 Rule\_5\_LB = 79 Rule\_5\_UB = 120 Rule\_5\_LB = 0 Rule\_5\_UB = 3 Rule\_5\_LB = 1 Rule\_5\_UB = 2 Rule\_6\_LB = 20 Rule\_6\_UB = 21 Rule\_6\_LB = 0 Rule\_6\_UB = 3 Rule\_6\_LB = 1 Rule\_6\_UB = 2 Rule\_7\_LB = 0 Rule\_7\_UB = 21 Rule\_7\_LB = 1 Rule\_7\_UB = 3 Rule\_7\_LB = 0 Rule\_7\_UB = 1 Overlaps\_0\_0 = 0 Overlaps\_0\_1 = 1 Overlaps\_0\_2 = 0 Overlaps\_0\_3 = 0 Overlaps\_0\_4 = 0 Overlaps\_0\_5 = 0 Overlaps\_0\_6 = 0 Overlaps\_0\_7 = 0 Overlaps\_1\_0 = 0 Overlaps\_1\_1 = 0 Overlaps\_1\_2 = 1 Overlaps\_1\_3 = 0 Overlaps\_1\_4 = 0 Overlaps\_1\_5 = 0 Overlaps\_1\_6 = 0 Overlaps\_1\_7 = 0 Overlaps\_2\_0 = 1 Overlaps\_2\_1 = 1 Overlaps\_2\_2 = 0 Overlaps\_2\_3 = 0 Overlaps\_2\_4 = 0 Overlaps\_2\_5 = 0 Overlaps\_2\_6 = 0 Overlaps\_2\_7 = 0 Overlaps\_3\_0 = 0 Overlaps\_3\_1 = 0 Overlaps\_3\_2 = 0 Overlaps\_3\_3 = 0 Overlaps\_3\_4 = 0 Overlaps\_3\_5 = 0 Overlaps\_3\_6 = 0 Overlaps\_3\_7 = 0 Overlaps\_4\_0 = 0 Overlaps\_4\_1 = 0 Overlaps\_4\_2 = 0 Overlaps\_4\_3 = 0 Overlaps\_4\_4 = 0 Overlaps\_4\_5 = 0 Overlaps\_4\_6 = 0 Overlaps\_4\_7 = 0 Overlaps\_5\_0 = 0 Overlaps\_5\_1 = 0 Overlaps\_5\_2 = 0 Overlaps\_5\_3 = 0 Overlaps\_5\_4 = 0 Overlaps\_5\_5 = 0 Overlaps\_5\_6 = 0 Overlaps\_5\_7 = 0 Overlaps\_6\_0 = 0 Overlaps\_6\_1 = 0 Overlaps\_6\_2 = 0 Overlaps\_6\_3 = 0 Overlaps\_6\_4 = 0 Overlaps\_6\_5 = 0 Overlaps\_6\_6 = 0 Overlaps\_6\_7 = 0 Overlaps\_7\_0 = 0 Overlaps\_7\_1 = 0 Overlaps\_7\_2 = 0 Overlaps\_7\_3 = 0 Overlaps\_7\_4 = 0 Overlaps\_7\_5 = 0 Overlaps\_7\_6 = 0 Overlaps\_7\_7 = 0 TMP\_0 = 1 not(TMP\_0) = 0 TMP\_1 = 1 not(TMP\_1) = 0 TMP\_2 = 1 not(TMP\_2) = 0 TMP\_3 = 1 not(TMP\_3) = 0 TMP\_4 = 1 not(TMP\_4) = 0 TMP\_5 = 0 not(TMP\_5) = 1 TMP\_6 = 5 TMP\_7 = 0 not(TMP\_7) = 1 TMP\_8 = 0 not(TMP\_8) = 1 TMP\_9 = 0 TMP\_10 = 1 not(TMP\_10) = 0 TMP\_11 = 1 not(TMP\_11) = 0 TMP\_12 = 2 TMP\_13 = 0 not(TMP\_13) = 1 TMP\_14 = 0 not(TMP\_14) = 1 TMP\_15 = 1 not(TMP\_15) = 0 TMP\_16 = 1 not(TMP\_16) = 0 TMP\_17 = 1 not(TMP\_17) = 0 TMP\_18 = 2 TMP\_19 = 1 not(TMP\_19) = 0 TMP\_20 = 1 not(TMP\_20) = 0 TMP\_21 = 1 not(TMP\_21) = 0 TMP\_22 = 1 not(TMP\_22) = 0 TMP\_23 = 1 not(TMP\_23) = 0 TMP\_24 = 0 not(TMP\_24) = 1 TMP\_25 = 5 TMP\_26 = 0 not(TMP\_26) = 1 TMP\_27 = 0 not(TMP\_27) = 1 TMP\_28 = 0 TMP\_29 = 1 not(TMP\_29) = 0 TMP\_30 = 1 not(TMP\_30) = 0 TMP\_31 = 2 TMP\_32 = 0 not(TMP\_32) = 1 TMP\_33 = 0 not(TMP\_33) = 1 TMP\_34 = 1 not(TMP\_34) = 0 TMP\_35 = 1 not(TMP\_35) = 0 TMP\_36 = 1 not(TMP\_36) = 0 TMP\_37 = 2 TMP\_38 = 1 not(TMP\_38) = 0 TMP\_39 = 1 not(TMP\_39) = 0 TMP\_40 = 1 not(TMP\_40) = 0 TMP\_41 = 0 not(TMP\_41) = 1 TMP\_42 = 1 not(TMP\_42) = 0 TMP\_43 = 1 not(TMP\_43) = 0 TMP\_44 = 5 TMP\_45 = 0 not(TMP\_45) = 1 TMP\_46 = 0 not(TMP\_46) = 1 TMP\_47 = 0 TMP\_48 = 1 not(TMP\_48) = 0 TMP\_49 = 1 not(TMP\_49) = 0 TMP\_50 = 2 TMP\_51 = 0 not(TMP\_51) = 1 TMP\_52 = 0 not(TMP\_52) = 1 TMP\_53 = 1 not(TMP\_53) = 0 TMP\_54 = 1 not(TMP\_54) = 0 TMP\_55 = 1 not(TMP\_55) = 0 TMP\_56 = 2 TMP\_57 = 1 not(TMP\_57) = 0 TMP\_58 = 0 not(TMP\_58) = 1 TMP\_59 = 1 not(TMP\_59) = 0 TMP\_60 = 1 not(TMP\_60) = 0 TMP\_61 = 1 not(TMP\_61) = 0 TMP\_62 = 1 not(TMP\_62) = 0 TMP\_63 = 5 TMP\_64 = 0 not(TMP\_64) = 1 TMP\_65 = 0 not(TMP\_65) = 1 TMP\_66 = 0 TMP\_67 = 1 not(TMP\_67) = 0 TMP\_68 = 1 not(TMP\_68) = 0 TMP\_69 = 2 TMP\_70 = 0 not(TMP\_70) = 1 TMP\_71 = 0 not(TMP\_71) = 1 TMP\_72 = 1 not(TMP\_72) = 0 TMP\_73 = 1 not(TMP\_73) = 0 TMP\_74 = 1 not(TMP\_74) = 0 TMP\_75 = 2 TMP\_76 = 1 not(TMP\_76) = 0 TMP\_77 = 0 not(TMP\_77) = 1 TMP\_78 = 1 not(TMP\_78) = 0 TMP\_79 = 1 not(TMP\_79) = 0 TMP\_80 = 1 not(TMP\_80) = 0 TMP\_81 = 0 not(TMP\_81) = 1 TMP\_82 = 4 TMP\_83 = 0 not(TMP\_83) = 1 TMP\_84 = 0 not(TMP\_84) = 1 TMP\_85 = 0 TMP\_86 = 1 not(TMP\_86) = 0 TMP\_87 = 1 not(TMP\_87) = 0 TMP\_88 = 2 TMP\_89 = 0 not(TMP\_89) = 1 TMP\_90 = 0 not(TMP\_90) = 1 TMP\_91 = 1 not(TMP\_91) = 0 TMP\_92 = 1 not(TMP\_92) = 0 TMP\_93 = 1 not(TMP\_93) = 0 TMP\_94 = 2 TMP\_95 = 1 not(TMP\_95) = 0 TMP\_96 = 1 not(TMP\_96) = 0 TMP\_97 = 1 not(TMP\_97) = 0 TMP\_98 = 1 not(TMP\_98) = 0 TMP\_99 = 1 not(TMP\_99) = 0 TMP\_100 = 0 not(TMP\_100) = 1 TMP\_101 = 5 TMP\_102 = 0 not(TMP\_102) = 1 TMP\_103 = 0 not(TMP\_103) = 1 TMP\_104 = 0 TMP\_105 = 1 not(TMP\_105) = 0 TMP\_106 = 1 not(TMP\_106) = 0 TMP\_107 = 2 TMP\_108 = 0 not(TMP\_108) = 1 TMP\_109 = 0 not(TMP\_109) = 1 TMP\_110 = 1 not(TMP\_110) = 0 TMP\_111 = 1 not(TMP\_111) = 0 TMP\_112 = 1 not(TMP\_112) = 0 TMP\_113 = 2 TMP\_114 = 1 not(TMP\_114) = 0 TMP\_115 = 1 not(TMP\_115) = 0 TMP\_116 = 1 not(TMP\_116) = 0 TMP\_117 = 0 not(TMP\_117) = 1 TMP\_118 = 1 not(TMP\_118) = 0 TMP\_119 = 1 not(TMP\_119) = 0 TMP\_120 = 5 TMP\_121 = 0 not(TMP\_121) = 1 TMP\_122 = 0 not(TMP\_122) = 1 TMP\_123 = 0 TMP\_124 = 1 not(TMP\_124) = 0 TMP\_125 = 1 not(TMP\_125) = 0 TMP\_126 = 2 TMP\_127 = 0 not(TMP\_127) = 1 TMP\_128 = 0 not(TMP\_128) = 1 TMP\_129 = 1 not(TMP\_129) = 0 TMP\_130 = 1 not(TMP\_130) = 0 TMP\_131 = 1 not(TMP\_131) = 0 TMP\_132 = 2 TMP\_133 = 0 not(TMP\_133) = 1 TMP\_134 = 1 not(TMP\_134) = 0 TMP\_135 = 1 not(TMP\_135) = 0 TMP\_136 = 1 not(TMP\_136) = 0 TMP\_137 = 1 not(TMP\_137) = 0 TMP\_138 = 0 not(TMP\_138) = 1 TMP\_139 = 4 TMP\_140 = 0 not(TMP\_140) = 1 TMP\_141 = 0 not(TMP\_141) = 1 TMP\_142 = 0 TMP\_143 = 1 not(TMP\_143) = 0 TMP\_144 = 1 not(TMP\_144) = 0 TMP\_145 = 2 TMP\_146 = 0 not(TMP\_146) = 1 TMP\_147 = 0 not(TMP\_147) = 1 TMP\_148 = 1 not(TMP\_148) = 0 TMP\_149 = 1 not(TMP\_149) = 0 TMP\_150 = 1 not(TMP\_150) = 0 TMP\_151 = 2 TMP\_152 = 0 not(TMP\_152) = 1 TMP\_153 = 1 not(TMP\_153) = 0 TMP\_154 = 1 not(TMP\_154) = 0 TMP\_155 = 1 not(TMP\_155) = 0 TMP\_156 = 1 not(TMP\_156) = 0 TMP\_157 = 0 not(TMP\_157) = 1 TMP\_158 = 4 TMP\_159 = 0 not(TMP\_159) = 1 TMP\_160 = 0 not(TMP\_160) = 1 TMP\_161 = 0 TMP\_162 = 1 not(TMP\_162) = 0 TMP\_163 = 1 not(TMP\_163) = 0 TMP\_164 = 2 TMP\_165 = 0 not(TMP\_165) = 1 TMP\_166 = 0 not(TMP\_166) = 1 TMP\_167 = 1 not(TMP\_167) = 0 TMP\_168 = 1 not(TMP\_168) = 0 TMP\_169 = 1 not(TMP\_169) = 0 TMP\_170 = 2 TMP\_171 = 0 not(TMP\_171) = 1 TMP\_172 = 1 not(TMP\_172) = 0 TMP\_173 = 1 not(TMP\_173) = 0 TMP\_174 = 1 not(TMP\_174) = 0 TMP\_175 = 1 not(TMP\_175) = 0 TMP\_176 = 1 not(TMP\_176) = 0 TMP\_177 = 5 TMP\_178 = 0 not(TMP\_178) = 1 TMP\_179 = 0 not(TMP\_179) = 1 TMP\_180 = 0 TMP\_181 = 1 not(TMP\_181) = 0 TMP\_182 = 1 not(TMP\_182) = 0 TMP\_183 = 2 TMP\_184 = 0 not(TMP\_184) = 1 TMP\_185 = 0 not(TMP\_185) = 1 TMP\_186 = 1 not(TMP\_186) = 0 TMP\_187 = 1 not(TMP\_187) = 0 TMP\_188 = 1 not(TMP\_188) = 0 TMP\_189 = 2 TMP\_190 = 0 not(TMP\_190) = 1 TMP\_191 = 1 not(TMP\_191) = 0 TMP\_192 = 1 not(TMP\_192) = 0 TMP\_193 = 1 not(TMP\_193) = 0 TMP\_194 = 1 not(TMP\_194) = 0 TMP\_195 = 1 not(TMP\_195) = 0 TMP\_196 = 5 TMP\_197 = 0 not(TMP\_197) = 1 TMP\_198 = 0 not(TMP\_198) = 1 TMP\_199 = 0 TMP\_200 = 1 not(TMP\_200) = 0 TMP\_201 = 1 not(TMP\_201) = 0 TMP\_202 = 2 TMP\_203 = 0 not(TMP\_203) = 1 TMP\_204 = 0 not(TMP\_204) = 1 TMP\_205 = 1 not(TMP\_205) = 0 TMP\_206 = 1 not(TMP\_206) = 0 TMP\_207 = 1 not(TMP\_207) = 0 TMP\_208 = 2 TMP\_209 = 1 not(TMP\_209) = 0 TMP\_210 = 1 not(TMP\_210) = 0 TMP\_211 = 1 not(TMP\_211) = 0 TMP\_212 = 1 not(TMP\_212) = 0 TMP\_213 = 1 not(TMP\_213) = 0 TMP\_214 = 0 not(TMP\_214) = 1 TMP\_215 = 5 TMP\_216 = 0 not(TMP\_216) = 1 TMP\_217 = 0 not(TMP\_217) = 1 TMP\_218 = 0 TMP\_219 = 1 not(TMP\_219) = 0 TMP\_220 = 1 not(TMP\_220) = 0 TMP\_221 = 2 TMP\_222 = 0 not(TMP\_222) = 1 TMP\_223 = 0 not(TMP\_223) = 1 TMP\_224 = 1 not(TMP\_224) = 0 TMP\_225 = 1 not(TMP\_225) = 0 TMP\_226 = 1 not(TMP\_226) = 0 TMP\_227 = 2 TMP\_228 = 0 not(TMP\_228) = 1 TMP\_229 = 1 not(TMP\_229) = 0 TMP\_230 = 1 not(TMP\_230) = 0 TMP\_231 = 1 not(TMP\_231) = 0 TMP\_232 = 1 not(TMP\_232) = 0 TMP\_233 = 0 not(TMP\_233) = 1 TMP\_234 = 4 TMP\_235 = 0 not(TMP\_235) = 1 TMP\_236 = 0 not(TMP\_236) = 1 TMP\_237 = 0 TMP\_238 = 1 not(TMP\_238) = 0 TMP\_239 = 1 not(TMP\_239) = 0 TMP\_240 = 2 TMP\_241 = 0 not(TMP\_241) = 1 TMP\_242 = 0 not(TMP\_242) = 1 TMP\_243 = 1 not(TMP\_243) = 0 TMP\_244 = 1 not(TMP\_244) = 0 TMP\_245 = 1 not(TMP\_245) = 0 TMP\_246 = 2 TMP\_247 = 0 not(TMP\_247) = 1 TMP\_248 = 1 not(TMP\_248) = 0 TMP\_249 = 1 not(TMP\_249) = 0 TMP\_250 = 1 not(TMP\_250) = 0 TMP\_251 = 1 not(TMP\_251) = 0 TMP\_252 = 1 not(TMP\_252) = 0 TMP\_253 = 5 TMP\_254 = 0 not(TMP\_254) = 1 TMP\_255 = 0 not(TMP\_255) = 1 TMP\_256 = 0 TMP\_257 = 1 not(TMP\_257) = 0 TMP\_258 = 1 not(TMP\_258) = 0 TMP\_259 = 2 TMP\_260 = 0 not(TMP\_260) = 1 TMP\_261 = 0 not(TMP\_261) = 1 TMP\_262 = 1 not(TMP\_262) = 0 TMP\_263 = 1 not(TMP\_263) = 0 TMP\_264 = 1 not(TMP\_264) = 0 TMP\_265 = 2 TMP\_266 = 0 not(TMP\_266) = 1 TMP\_267 = 1 not(TMP\_267) = 0 TMP\_268 = 1 not(TMP\_268) = 0 TMP\_269 = 1 not(TMP\_269) = 0 TMP\_270 = 1 not(TMP\_270) = 0 TMP\_271 = 1 not(TMP\_271) = 0 TMP\_272 = 5 TMP\_273 = 0 not(TMP\_273) = 1 TMP\_274 = 0 not(TMP\_274) = 1 TMP\_275 = 0 TMP\_276 = 1 not(TMP\_276) = 0 TMP\_277 = 1 not(TMP\_277) = 0 TMP\_278 = 2 TMP\_279 = 0 not(TMP\_279) = 1 TMP\_280 = 0 not(TMP\_280) = 1 TMP\_281 = 1 not(TMP\_281) = 0 TMP\_282 = 1 not(TMP\_282) = 0 TMP\_283 = 1 not(TMP\_283) = 0 TMP\_284 = 2 TMP\_285 = 0 not(TMP\_285) = 1 TMP\_286 = 1 not(TMP\_286) = 0 TMP\_287 = 1 not(TMP\_287) = 0 TMP\_288 = 1 not(TMP\_288) = 0 TMP\_289 = 1 not(TMP\_289) = 0 TMP\_290 = 1 not(TMP\_290) = 0 TMP\_291 = 5 TMP\_292 = 0 not(TMP\_292) = 1 TMP\_293 = 0 not(TMP\_293) = 1 TMP\_294 = 0 TMP\_295 = 1 not(TMP\_295) = 0 TMP\_296 = 1 not(TMP\_296) = 0 TMP\_297 = 2 TMP\_298 = 0 not(TMP\_298) = 1 TMP\_299 = 0 not(TMP\_299) = 1 TMP\_300 = 1 not(TMP\_300) = 0 TMP\_301 = 1 not(TMP\_301) = 0 TMP\_302 = 1 not(TMP\_302) = 0 TMP\_303 = 2 TMP\_304 = 0 not(TMP\_304) = 1 TMP\_305 = 1 not(TMP\_305) = 0 TMP\_306 = 1 not(TMP\_306) = 0 TMP\_307 = 1 not(TMP\_307) = 0 TMP\_308 = 0 not(TMP\_308) = 1 TMP\_309 = 1 not(TMP\_309) = 0 TMP\_310 = 4 TMP\_311 = 0 not(TMP\_311) = 1 TMP\_312 = 0 not(TMP\_312) = 1 TMP\_313 = 0 TMP\_314 = 1 not(TMP\_314) = 0 TMP\_315 = 1 not(TMP\_315) = 0 TMP\_316 = 2 TMP\_317 = 0 not(TMP\_317) = 1 TMP\_318 = 0 not(TMP\_318) = 1 TMP\_319 = 1 not(TMP\_319) = 0 TMP\_320 = 1 not(TMP\_320) = 0 TMP\_321 = 1 not(TMP\_321) = 0 TMP\_322 = 2 TMP\_323 = 0 not(TMP\_323) = 1 TMP\_324 = 1 not(TMP\_324) = 0 TMP\_325 = 1 not(TMP\_325) = 0 TMP\_326 = 1 not(TMP\_326) = 0 TMP\_327 = 0 not(TMP\_327) = 1 TMP\_328 = 1 not(TMP\_328) = 0 TMP\_329 = 4 TMP\_330 = 0 not(TMP\_330) = 1 TMP\_331 = 0 not(TMP\_331) = 1 TMP\_332 = 0 TMP\_333 = 1 not(TMP\_333) = 0 TMP\_334 = 1 not(TMP\_334) = 0 TMP\_335 = 2 TMP\_336 = 0 not(TMP\_336) = 1 TMP\_337 = 0 not(TMP\_337) = 1 TMP\_338 = 1 not(TMP\_338) = 0 TMP\_339 = 1 not(TMP\_339) = 0 TMP\_340 = 1 not(TMP\_340) = 0 TMP\_341 = 2 TMP\_342 = 1 not(TMP\_342) = 0 TMP\_343 = 1 not(TMP\_343) = 0 TMP\_344 = 1 not(TMP\_344) = 0 TMP\_345 = 1 not(TMP\_345) = 0 TMP\_346 = 0 not(TMP\_346) = 1 TMP\_347 = 1 not(TMP\_347) = 0 TMP\_348 = 5 TMP\_349 = 0 not(TMP\_349) = 1 TMP\_350 = 0 not(TMP\_350) = 1 TMP\_351 = 0 TMP\_352 = 1 not(TMP\_352) = 0 TMP\_353 = 1 not(TMP\_353) = 0 TMP\_354 = 2 TMP\_355 = 0 not(TMP\_355) = 1 TMP\_356 = 0 not(TMP\_356) = 1 TMP\_357 = 1 not(TMP\_357) = 0 TMP\_358 = 1 not(TMP\_358) = 0 TMP\_359 = 1 not(TMP\_359) = 0 TMP\_360 = 2 TMP\_361 = 0 not(TMP\_361) = 1 TMP\_362 = 1 not(TMP\_362) = 0 TMP\_363 = 1 not(TMP\_363) = 0 TMP\_364 = 1 not(TMP\_364) = 0 TMP\_365 = 1 not(TMP\_365) = 0 TMP\_366 = 1 not(TMP\_366) = 0 TMP\_367 = 5 TMP\_368 = 0 not(TMP\_368) = 1 TMP\_369 = 0 not(TMP\_369) = 1 TMP\_370 = 0 TMP\_371 = 1 not(TMP\_371) = 0 TMP\_372 = 1 not(TMP\_372) = 0 TMP\_373 = 2 TMP\_374 = 0 not(TMP\_374) = 1 TMP\_375 = 0 not(TMP\_375) = 1 TMP\_376 = 1 not(TMP\_376) = 0 TMP\_377 = 1 not(TMP\_377) = 0 TMP\_378 = 1 not(TMP\_378) = 0 TMP\_379 = 2 TMP\_380 = 0 not(TMP\_380) = 1 TMP\_381 = 1 not(TMP\_381) = 0 TMP\_382 = 1 not(TMP\_382) = 0 TMP\_383 = 1 not(TMP\_383) = 0 TMP\_384 = 0 not(TMP\_384) = 1 TMP\_385 = 1 not(TMP\_385) = 0 TMP\_386 = 4 TMP\_387 = 0 not(TMP\_387) = 1 TMP\_388 = 0 not(TMP\_388) = 1 TMP\_389 = 0 TMP\_390 = 1 not(TMP\_390) = 0 TMP\_391 = 1 not(TMP\_391) = 0 TMP\_392 = 2 TMP\_393 = 0 not(TMP\_393) = 1 TMP\_394 = 0 not(TMP\_394) = 1 TMP\_395 = 1 not(TMP\_395) = 0 TMP\_396 = 1 not(TMP\_396) = 0 TMP\_397 = 1 not(TMP\_397) = 0 TMP\_398 = 2 TMP\_399 = 0 not(TMP\_399) = 1 TMP\_400 = 1 not(TMP\_400) = 0 TMP\_401 = 1 not(TMP\_401) = 0 TMP\_402 = 1 not(TMP\_402) = 0 TMP\_403 = 1 not(TMP\_403) = 0 TMP\_404 = 1 not(TMP\_404) = 0 TMP\_405 = 5 TMP\_406 = 0 not(TMP\_406) = 1 TMP\_407 = 0 not(TMP\_407) = 1 TMP\_408 = 0 TMP\_409 = 1 not(TMP\_409) = 0 TMP\_410 = 1 not(TMP\_410) = 0 TMP\_411 = 2 TMP\_412 = 0 not(TMP\_412) = 1 TMP\_413 = 0 not(TMP\_413) = 1 TMP\_414 = 1 not(TMP\_414) = 0 TMP\_415 = 1 not(TMP\_415) = 0 TMP\_416 = 1 not(TMP\_416) = 0 TMP\_417 = 2 TMP\_418 = 1 not(TMP\_418) = 0 TMP\_419 = 0 not(TMP\_419) = 1 TMP\_420 = 1 not(TMP\_420) = 0 TMP\_421 = 1 not(TMP\_421) = 0 TMP\_422 = 1 not(TMP\_422) = 0 TMP\_423 = 1 not(TMP\_423) = 0 TMP\_424 = 5 TMP\_425 = 0 not(TMP\_425) = 1 TMP\_426 = 0 not(TMP\_426) = 1 TMP\_427 = 0 TMP\_428 = 1 not(TMP\_428) = 0 TMP\_429 = 1 not(TMP\_429) = 0 TMP\_430 = 2 TMP\_431 = 0 not(TMP\_431) = 1 TMP\_432 = 0 not(TMP\_432) = 1 TMP\_433 = 1 not(TMP\_433) = 0 TMP\_434 = 1 not(TMP\_434) = 0 TMP\_435 = 1 not(TMP\_435) = 0 TMP\_436 = 2 TMP\_437 = 1 not(TMP\_437) = 0 TMP\_438 = 0 not(TMP\_438) = 1 TMP\_439 = 1 not(TMP\_439) = 0 TMP\_440 = 1 not(TMP\_440) = 0 TMP\_441 = 0 not(TMP\_441) = 1 TMP\_442 = 1 not(TMP\_442) = 0 TMP\_443 = 4 TMP\_444 = 0 not(TMP\_444) = 1 TMP\_445 = 0 not(TMP\_445) = 1 TMP\_446 = 0 TMP\_447 = 1 not(TMP\_447) = 0 TMP\_448 = 1 not(TMP\_448) = 0 TMP\_449 = 2 TMP\_450 = 0 not(TMP\_450) = 1 TMP\_451 = 0 not(TMP\_451) = 1 TMP\_452 = 1 not(TMP\_452) = 0 TMP\_453 = 1 not(TMP\_453) = 0 TMP\_454 = 1 not(TMP\_454) = 0 TMP\_455 = 2 TMP\_456 = 1 not(TMP\_456) = 0 TMP\_457 = 1 not(TMP\_457) = 0 TMP\_458 = 1 not(TMP\_458) = 0 TMP\_459 = 1 not(TMP\_459) = 0 TMP\_460 = 0 not(TMP\_460) = 1 TMP\_461 = 1 not(TMP\_461) = 0 TMP\_462 = 5 TMP\_463 = 0 not(TMP\_463) = 1 TMP\_464 = 0 not(TMP\_464) = 1 TMP\_465 = 0 TMP\_466 = 1 not(TMP\_466) = 0 TMP\_467 = 1 not(TMP\_467) = 0 TMP\_468 = 2 TMP\_469 = 0 not(TMP\_469) = 1 TMP\_470 = 0 not(TMP\_470) = 1 TMP\_471 = 1 not(TMP\_471) = 0 TMP\_472 = 1 not(TMP\_472) = 0 TMP\_473 = 1 not(TMP\_473) = 0 TMP\_474 = 2 TMP\_475 = 1 not(TMP\_475) = 0 TMP\_476 = 0 not(TMP\_476) = 1 TMP\_477 = 1 not(TMP\_477) = 0 TMP\_478 = 1 not(TMP\_478) = 0 TMP\_479 = 0 not(TMP\_479) = 1 TMP\_480 = 1 not(TMP\_480) = 0 TMP\_481 = 4 TMP\_482 = 0 not(TMP\_482) = 1 TMP\_483 = 0 not(TMP\_483) = 1 TMP\_484 = 0 TMP\_485 = 1 not(TMP\_485) = 0 TMP\_486 = 1 not(TMP\_486) = 0 TMP\_487 = 2 TMP\_488 = 0 not(TMP\_488) = 1 TMP\_489 = 0 not(TMP\_489) = 1 TMP\_490 = 1 not(TMP\_490) = 0 TMP\_491 = 1 not(TMP\_491) = 0 TMP\_492 = 1 not(TMP\_492) = 0 TMP\_493 = 2 TMP\_494 = 1 not(TMP\_494) = 0 TMP\_495 = 0 not(TMP\_495) = 1 TMP\_496 = 1 not(TMP\_496) = 0 TMP\_497 = 1 not(TMP\_497) = 0 TMP\_498 = 1 not(TMP\_498) = 0 TMP\_499 = 1 not(TMP\_499) = 0 TMP\_500 = 5 TMP\_501 = 0 not(TMP\_501) = 1 TMP\_502 = 0 not(TMP\_502) = 1 TMP\_503 = 0 TMP\_504 = 1 not(TMP\_504) = 0 TMP\_505 = 1 not(TMP\_505) = 0 TMP\_506 = 2 TMP\_507 = 0 not(TMP\_507) = 1 TMP\_508 = 0 not(TMP\_508) = 1 TMP\_509 = 1 not(TMP\_509) = 0 TMP\_510 = 1 not(TMP\_510) = 0 TMP\_511 = 1 not(TMP\_511) = 0 TMP\_512 = 2 TMP\_513 = 1 not(TMP\_513) = 0 TMP\_514 = 1 not(TMP\_514) = 0 TMP\_515 = 1 not(TMP\_515) = 0 TMP\_516 = 1 not(TMP\_516) = 0 TMP\_517 = 0 not(TMP\_517) = 1 TMP\_518 = 1 not(TMP\_518) = 0 TMP\_519 = 5 TMP\_520 = 0 not(TMP\_520) = 1 TMP\_521 = 0 not(TMP\_521) = 1 TMP\_522 = 0 TMP\_523 = 1 not(TMP\_523) = 0 TMP\_524 = 1 not(TMP\_524) = 0 TMP\_525 = 2 TMP\_526 = 0 not(TMP\_526) = 1 TMP\_527 = 0 not(TMP\_527) = 1 TMP\_528 = 1 not(TMP\_528) = 0 TMP\_529 = 1 not(TMP\_529) = 0 TMP\_530 = 1 not(TMP\_530) = 0 TMP\_531 = 2 TMP\_532 = 1 not(TMP\_532) = 0 TMP\_533 = 1 not(TMP\_533) = 0 TMP\_534 = 1 not(TMP\_534) = 0 TMP\_535 = 1 not(TMP\_535) = 0 TMP\_536 = 1 not(TMP\_536) = 0 TMP\_537 = 0 not(TMP\_537) = 1 TMP\_538 = 5 TMP\_539 = 0 not(TMP\_539) = 1 TMP\_540 = 0 not(TMP\_540) = 1 TMP\_541 = 0 TMP\_542 = 1 not(TMP\_542) = 0 TMP\_543 = 1 not(TMP\_543) = 0 TMP\_544 = 2 TMP\_545 = 0 not(TMP\_545) = 1 TMP\_546 = 0 not(TMP\_546) = 1 TMP\_547 = 1 not(TMP\_547) = 0 TMP\_548 = 1 not(TMP\_548) = 0 TMP\_549 = 1 not(TMP\_549) = 0 TMP\_550 = 2 TMP\_551 = 1 not(TMP\_551) = 0 TMP\_552 = 0 not(TMP\_552) = 1 TMP\_553 = 1 not(TMP\_553) = 0 TMP\_554 = 1 not(TMP\_554) = 0 TMP\_555 = 1 not(TMP\_555) = 0 TMP\_556 = 0 not(TMP\_556) = 1 TMP\_557 = 4 TMP\_558 = 0 not(TMP\_558) = 1 TMP\_559 = 0 not(TMP\_559) = 1 TMP\_560 = 0 TMP\_561 = 1 not(TMP\_561) = 0 TMP\_562 = 1 not(TMP\_562) = 0 TMP\_563 = 2 TMP\_564 = 0 not(TMP\_564) = 1 TMP\_565 = 0 not(TMP\_565) = 1 TMP\_566 = 1 not(TMP\_566) = 0 TMP\_567 = 1 not(TMP\_567) = 0 TMP\_568 = 1 not(TMP\_568) = 0 TMP\_569 = 2 TMP\_570 = 1 not(TMP\_570) = 0 TMP\_571 = 0 not(TMP\_571) = 1 TMP\_572 = 1 not(TMP\_572) = 0 TMP\_573 = 1 not(TMP\_573) = 0 TMP\_574 = 1 not(TMP\_574) = 0 TMP\_575 = 1 not(TMP\_575) = 0 TMP\_576 = 5 TMP\_577 = 0 not(TMP\_577) = 1 TMP\_578 = 0 not(TMP\_578) = 1 TMP\_579 = 0 TMP\_580 = 1 not(TMP\_580) = 0 TMP\_581 = 1 not(TMP\_581) = 0 TMP\_582 = 2 TMP\_583 = 0 not(TMP\_583) = 1 TMP\_584 = 0 not(TMP\_584) = 1 TMP\_585 = 1 not(TMP\_585) = 0 TMP\_586 = 1 not(TMP\_586) = 0 TMP\_587 = 1 not(TMP\_587) = 0 TMP\_588 = 2 TMP\_589 = 1 not(TMP\_589) = 0 TMP\_590 = 1 not(TMP\_590) = 0 TMP\_591 = 0 not(TMP\_591) = 1 TMP\_592 = 1 not(TMP\_592) = 0 TMP\_593 = 1 not(TMP\_593) = 0 TMP\_594 = 1 not(TMP\_594) = 0 TMP\_595 = 5 TMP\_596 = 0 not(TMP\_596) = 1 TMP\_597 = 0 not(TMP\_597) = 1 TMP\_598 = 0 TMP\_599 = 1 not(TMP\_599) = 0 TMP\_600 = 1 not(TMP\_600) = 0 TMP\_601 = 2 TMP\_602 = 0 not(TMP\_602) = 1 TMP\_603 = 0 not(TMP\_603) = 1 TMP\_604 = 1 not(TMP\_604) = 0 TMP\_605 = 1 not(TMP\_605) = 0 TMP\_606 = 1 not(TMP\_606) = 0 TMP\_607 = 2 TMP\_608 = 1 not(TMP\_608) = 0 TMP\_609 = 0 not(TMP\_609) = 1 TMP\_610 = 1 not(TMP\_610) = 0 TMP\_611 = 1 not(TMP\_611) = 0 TMP\_612 = 1 not(TMP\_612) = 0 TMP\_613 = 1 not(TMP\_613) = 0 TMP\_614 = 5 TMP\_615 = 0 not(TMP\_615) = 1 TMP\_616 = 0 not(TMP\_616) = 1 TMP\_617 = 0 TMP\_618 = 1 not(TMP\_618) = 0 TMP\_619 = 1 not(TMP\_619) = 0 TMP\_620 = 2 TMP\_621 = 0 not(TMP\_621) = 1 TMP\_622 = 0 not(TMP\_622) = 1 TMP\_623 = 1 not(TMP\_623) = 0 TMP\_624 = 1 not(TMP\_624) = 0 TMP\_625 = 1 not(TMP\_625) = 0 TMP\_626 = 2 TMP\_627 = 1 not(TMP\_627) = 0 TMP\_628 = 0 not(TMP\_628) = 1 TMP\_629 = 1 not(TMP\_629) = 0 TMP\_630 = 1 not(TMP\_630) = 0 TMP\_631 = 1 not(TMP\_631) = 0 TMP\_632 = 0 not(TMP\_632) = 1 TMP\_633 = 4 TMP\_634 = 0 not(TMP\_634) = 1 TMP\_635 = 0 not(TMP\_635) = 1 TMP\_636 = 0 TMP\_637 = 1 not(TMP\_637) = 0 TMP\_638 = 1 not(TMP\_638) = 0 TMP\_639 = 2 TMP\_640 = 0 not(TMP\_640) = 1 TMP\_641 = 0 not(TMP\_641) = 1 TMP\_642 = 1 not(TMP\_642) = 0 TMP\_643 = 1 not(TMP\_643) = 0 TMP\_644 = 1 not(TMP\_644) = 0 TMP\_645 = 2 TMP\_646 = 1 not(TMP\_646) = 0 TMP\_647 = 1 not(TMP\_647) = 0 TMP\_648 = 1 not(TMP\_648) = 0 TMP\_649 = 1 not(TMP\_649) = 0 TMP\_650 = 1 not(TMP\_650) = 0 TMP\_651 = 0 not(TMP\_651) = 1 TMP\_652 = 5 TMP\_653 = 0 not(TMP\_653) = 1 TMP\_654 = 0 not(TMP\_654) = 1 TMP\_655 = 0 TMP\_656 = 1 not(TMP\_656) = 0 TMP\_657 = 1 not(TMP\_657) = 0 TMP\_658 = 2 TMP\_659 = 0 not(TMP\_659) = 1 TMP\_660 = 0 not(TMP\_660) = 1 TMP\_661 = 1 not(TMP\_661) = 0 TMP\_662 = 1 not(TMP\_662) = 0 TMP\_663 = 1 not(TMP\_663) = 0 TMP\_664 = 2 Area\_0 = 60 Distance\_0\_Rule\_0 = 20 Distance\_1\_Rule\_0 = 3 Distance\_2\_Rule\_0 = 1 Area\_1 = 174 Distance\_0\_Rule\_1 = 58 Distance\_1\_Rule\_1 = 3 Distance\_2\_Rule\_1 = 1 Area\_2 = 116 Distance\_0\_Rule\_2 = 58 Distance\_1\_Rule\_2 = 2 Distance\_2\_Rule\_2 = 1 Area\_3 = 79 -(Rule\_3\_LB) = 0 Distance\_0\_Rule\_3 = 79 -(Rule\_3\_LB) = 0 Distance\_1\_Rule\_3 = 1 -(Rule\_3\_LB) = 0 Distance\_2\_Rule\_3 = 1 Area\_4 = 123 -(Rule\_4\_LB) = -79 Distance\_0\_Rule\_4 = 41 -(Rule\_4\_LB) = 0 Distance\_1\_Rule\_4 = 3 -(Rule\_4\_LB) = 0 Distance\_2\_Rule\_4 = 1 Area\_5 = 123 -(Rule\_5\_LB) = -79 Distance\_0\_Rule\_5 = 41 -(Rule\_5\_LB) = 0 Distance\_1\_Rule\_5 = 3 -(Rule\_5\_LB) = -1 Distance\_2\_Rule\_5 = 1 Area\_6 = 3 -(Rule\_6\_LB) = -20 Distance\_0\_Rule\_6 = 1 -(Rule\_6\_LB) = 0 Distance\_1\_Rule\_6 = 3 -(Rule\_6\_LB) = -1 Distance\_2\_Rule\_6 = 1 Area\_7 = 42 -(Rule\_7\_LB) = 0 Distance\_0\_Rule\_7 = 21 -(Rule\_7\_LB) = -1 Distance\_1\_Rule\_7 = 2 -(Rule\_7\_LB) = 0 Distance\_2\_Rule\_7 = 1 TMP\_665 = 720 .

- Solution #17 found. 17 Solutions, Resolution 3.293s, 23849 Nodes (7,241.4 n/s), 47620 Backtracks, 23801 Fails, 0 Restarts

Rule\_3\_LB = 0 Rule\_3\_UB = 79 Rule\_3\_LB = 0 Rule\_3\_UB = 1 Rule\_3\_LB = 0 Rule\_3\_UB = 1 Rule\_4\_LB = 79 Rule\_4\_UB = 120 Rule\_4\_LB = 0 Rule\_4\_UB = 3 Rule\_4\_LB = 0 Rule\_4\_UB = 1 Rule\_5\_LB = 79 Rule\_5\_UB = 120 Rule\_5\_LB = 0 Rule\_5\_UB = 3 Rule\_5\_LB = 1 Rule\_5\_UB = 2 Rule\_6\_LB = 20 Rule\_6\_UB = 21 Rule\_6\_LB = 0 Rule\_6\_UB = 3 Rule\_6\_LB = 1 Rule\_6\_UB = 2 Rule\_7\_LB = 0 Rule\_7\_UB = 21 Rule\_7\_LB = 1 Rule\_7\_UB = 3 Rule\_7\_LB = 0 Rule\_7\_UB = 1 Overlaps\_0\_0 = 0 Overlaps\_0\_1 = 0 Overlaps\_0\_2 = 0 Overlaps\_0\_3 = 0 Overlaps\_0\_4 = 0 Overlaps\_0\_5 = 0 Overlaps\_0\_6 = 0 Overlaps\_0\_7 = 0 Overlaps\_1\_0 = 1 Overlaps\_1\_1 = 0 Overlaps\_1\_2 = 0 Overlaps\_1\_3 = 0 Overlaps\_1\_4 = 0 Overlaps\_1\_5 = 0 Overlaps\_1\_6 = 0 Overlaps\_1\_7 = 0 Overlaps\_2\_0 = 0 Overlaps\_2\_1 = 0 Overlaps\_2\_2 = 0 Overlaps\_2\_3 = 0 Overlaps\_2\_4 = 0 Overlaps\_2\_5 = 0 Overlaps\_2\_6 = 0 Overlaps\_2\_7 = 0 Overlaps\_3\_0 = 0 Overlaps\_3\_1 = 0 Overlaps\_3\_2 = 0 Overlaps\_3\_3 = 0 Overlaps\_3\_4 = 0 Overlaps\_3\_5 = 0 Overlaps\_3\_6 = 0 Overlaps\_3\_7 = 0 Overlaps\_4\_0 = 0 Overlaps\_4\_1 = 0 Overlaps\_4\_2 = 0 Overlaps\_4\_3 = 0 Overlaps\_4\_4 = 0 Overlaps\_4\_5 = 0 Overlaps\_4\_6 = 0 Overlaps\_4\_7 = 0 Overlaps\_5\_0 = 0 Overlaps\_5\_1 = 0 Overlaps\_5\_2 = 0 Overlaps\_5\_3 = 0 Overlaps\_5\_4 = 0 Overlaps\_5\_5 = 0 Overlaps\_5\_6 = 0 Overlaps\_5\_7 = 0 Overlaps\_6\_0 = 0 Overlaps\_6\_1 = 0 Overlaps\_6\_2 = 0 Overlaps\_6\_3 = 0 Overlaps\_6\_4 = 0 Overlaps\_6\_5 = 0 Overlaps\_6\_6 = 0 Overlaps\_6\_7 = 0 Overlaps\_7\_0 = 0 Overlaps\_7\_1 = 0 Overlaps\_7\_2 = 0 Overlaps\_7\_3 = 0 Overlaps\_7\_4 = 0 Overlaps\_7\_5 = 0 Overlaps\_7\_6 = 0 Overlaps\_7\_7 = 0 TMP\_0 = 1 not(TMP\_0) = 0 TMP\_1 = 1 not(TMP\_1) = 0 TMP\_2 = 1 not(TMP\_2) = 0 TMP\_3 = 1 not(TMP\_3) = 0 TMP\_4 = 1 not(TMP\_4) = 0 TMP\_5 = 0 not(TMP\_5) = 1 TMP\_6 = 5 TMP\_7 = 0 not(TMP\_7) = 1 TMP\_8 = 0 not(TMP\_8) = 1 TMP\_9 = 0 TMP\_10 = 1 not(TMP\_10) = 0 TMP\_11 = 1 not(TMP\_11) = 0 TMP\_12 = 2 TMP\_13 = 0 not(TMP\_13) = 1 TMP\_14 = 0 not(TMP\_14) = 1 TMP\_15 = 1 not(TMP\_15) = 0 TMP\_16 = 1 not(TMP\_16) = 0 TMP\_17 = 1 not(TMP\_17) = 0 TMP\_18 = 2 TMP\_19 = 1 not(TMP\_19) = 0 TMP\_20 = 1 not(TMP\_20) = 0 TMP\_21 = 1 not(TMP\_21) = 0 TMP\_22 = 1 not(TMP\_22) = 0 TMP\_23 = 1 not(TMP\_23) = 0 TMP\_24 = 0 not(TMP\_24) = 1 TMP\_25 = 5 TMP\_26 = 0 not(TMP\_26) = 1 TMP\_27 = 0 not(TMP\_27) = 1 TMP\_28 = 0 TMP\_29 = 1 not(TMP\_29) = 0 TMP\_30 = 1 not(TMP\_30) = 0 TMP\_31 = 2 TMP\_32 = 0 not(TMP\_32) = 1 TMP\_33 = 0 not(TMP\_33) = 1 TMP\_34 = 1 not(TMP\_34) = 0 TMP\_35 = 1 not(TMP\_35) = 0 TMP\_36 = 1 not(TMP\_36) = 0 TMP\_37 = 2 TMP\_38 = 1 not(TMP\_38) = 0 TMP\_39 = 1 not(TMP\_39) = 0 TMP\_40 = 1 not(TMP\_40) = 0 TMP\_41 = 0 not(TMP\_41) = 1 TMP\_42 = 1 not(TMP\_42) = 0 TMP\_43 = 1 not(TMP\_43) = 0 TMP\_44 = 5 TMP\_45 = 0 not(TMP\_45) = 1 TMP\_46 = 0 not(TMP\_46) = 1 TMP\_47 = 0 TMP\_48 = 1 not(TMP\_48) = 0 TMP\_49 = 1 not(TMP\_49) = 0 TMP\_50 = 2 TMP\_51 = 0 not(TMP\_51) = 1 TMP\_52 = 0 not(TMP\_52) = 1 TMP\_53 = 1 not(TMP\_53) = 0 TMP\_54 = 1 not(TMP\_54) = 0 TMP\_55 = 1 not(TMP\_55) = 0 TMP\_56 = 2 TMP\_57 = 1 not(TMP\_57) = 0 TMP\_58 = 0 not(TMP\_58) = 1 TMP\_59 = 1 not(TMP\_59) = 0 TMP\_60 = 1 not(TMP\_60) = 0 TMP\_61 = 1 not(TMP\_61) = 0 TMP\_62 = 1 not(TMP\_62) = 0 TMP\_63 = 5 TMP\_64 = 0 not(TMP\_64) = 1 TMP\_65 = 0 not(TMP\_65) = 1 TMP\_66 = 0 TMP\_67 = 1 not(TMP\_67) = 0 TMP\_68 = 1 not(TMP\_68) = 0 TMP\_69 = 2 TMP\_70 = 0 not(TMP\_70) = 1 TMP\_71 = 0 not(TMP\_71) = 1 TMP\_72 = 1 not(TMP\_72) = 0 TMP\_73 = 1 not(TMP\_73) = 0 TMP\_74 = 1 not(TMP\_74) = 0 TMP\_75 = 2 TMP\_76 = 1 not(TMP\_76) = 0 TMP\_77 = 0 not(TMP\_77) = 1 TMP\_78 = 1 not(TMP\_78) = 0 TMP\_79 = 1 not(TMP\_79) = 0 TMP\_80 = 1 not(TMP\_80) = 0 TMP\_81 = 0 not(TMP\_81) = 1 TMP\_82 = 4 TMP\_83 = 0 not(TMP\_83) = 1 TMP\_84 = 0 not(TMP\_84) = 1 TMP\_85 = 0 TMP\_86 = 1 not(TMP\_86) = 0 TMP\_87 = 1 not(TMP\_87) = 0 TMP\_88 = 2 TMP\_89 = 0 not(TMP\_89) = 1 TMP\_90 = 0 not(TMP\_90) = 1 TMP\_91 = 1 not(TMP\_91) = 0 TMP\_92 = 1 not(TMP\_92) = 0 TMP\_93 = 1 not(TMP\_93) = 0 TMP\_94 = 2 TMP\_95 = 1 not(TMP\_95) = 0 TMP\_96 = 1 not(TMP\_96) = 0 TMP\_97 = 1 not(TMP\_97) = 0 TMP\_98 = 1 not(TMP\_98) = 0 TMP\_99 = 1 not(TMP\_99) = 0 TMP\_100 = 0 not(TMP\_100) = 1 TMP\_101 = 5 TMP\_102 = 0 not(TMP\_102) = 1 TMP\_103 = 0 not(TMP\_103) = 1 TMP\_104 = 0 TMP\_105 = 1 not(TMP\_105) = 0 TMP\_106 = 1 not(TMP\_106) = 0 TMP\_107 = 2 TMP\_108 = 0 not(TMP\_108) = 1 TMP\_109 = 0 not(TMP\_109) = 1 TMP\_110 = 1 not(TMP\_110) = 0 TMP\_111 = 1 not(TMP\_111) = 0 TMP\_112 = 1 not(TMP\_112) = 0 TMP\_113 = 2 TMP\_114 = 1 not(TMP\_114) = 0 TMP\_115 = 1 not(TMP\_115) = 0 TMP\_116 = 1 not(TMP\_116) = 0 TMP\_117 = 0 not(TMP\_117) = 1 TMP\_118 = 1 not(TMP\_118) = 0 TMP\_119 = 1 not(TMP\_119) = 0 TMP\_120 = 5 TMP\_121 = 0 not(TMP\_121) = 1 TMP\_122 = 0 not(TMP\_122) = 1 TMP\_123 = 0 TMP\_124 = 1 not(TMP\_124) = 0 TMP\_125 = 1 not(TMP\_125) = 0 TMP\_126 = 2 TMP\_127 = 0 not(TMP\_127) = 1 TMP\_128 = 0 not(TMP\_128) = 1 TMP\_129 = 1 not(TMP\_129) = 0 TMP\_130 = 1 not(TMP\_130) = 0 TMP\_131 = 1 not(TMP\_131) = 0 TMP\_132 = 2 TMP\_133 = 0 not(TMP\_133) = 1 TMP\_134 = 1 not(TMP\_134) = 0 TMP\_135 = 1 not(TMP\_135) = 0 TMP\_136 = 1 not(TMP\_136) = 0 TMP\_137 = 1 not(TMP\_137) = 0 TMP\_138 = 0 not(TMP\_138) = 1 TMP\_139 = 4 TMP\_140 = 0 not(TMP\_140) = 1 TMP\_141 = 0 not(TMP\_141) = 1 TMP\_142 = 0 TMP\_143 = 1 not(TMP\_143) = 0 TMP\_144 = 1 not(TMP\_144) = 0 TMP\_145 = 2 TMP\_146 = 0 not(TMP\_146) = 1 TMP\_147 = 0 not(TMP\_147) = 1 TMP\_148 = 1 not(TMP\_148) = 0 TMP\_149 = 1 not(TMP\_149) = 0 TMP\_150 = 1 not(TMP\_150) = 0 TMP\_151 = 2 TMP\_152 = 0 not(TMP\_152) = 1 TMP\_153 = 1 not(TMP\_153) = 0 TMP\_154 = 1 not(TMP\_154) = 0 TMP\_155 = 1 not(TMP\_155) = 0 TMP\_156 = 1 not(TMP\_156) = 0 TMP\_157 = 0 not(TMP\_157) = 1 TMP\_158 = 4 TMP\_159 = 0 not(TMP\_159) = 1 TMP\_160 = 0 not(TMP\_160) = 1 TMP\_161 = 0 TMP\_162 = 1 not(TMP\_162) = 0 TMP\_163 = 1 not(TMP\_163) = 0 TMP\_164 = 2 TMP\_165 = 0 not(TMP\_165) = 1 TMP\_166 = 0 not(TMP\_166) = 1 TMP\_167 = 1 not(TMP\_167) = 0 TMP\_168 = 1 not(TMP\_168) = 0 TMP\_169 = 1 not(TMP\_169) = 0 TMP\_170 = 2 TMP\_171 = 0 not(TMP\_171) = 1 TMP\_172 = 1 not(TMP\_172) = 0 TMP\_173 = 1 not(TMP\_173) = 0 TMP\_174 = 1 not(TMP\_174) = 0 TMP\_175 = 1 not(TMP\_175) = 0 TMP\_176 = 1 not(TMP\_176) = 0 TMP\_177 = 5 TMP\_178 = 0 not(TMP\_178) = 1 TMP\_179 = 0 not(TMP\_179) = 1 TMP\_180 = 0 TMP\_181 = 1 not(TMP\_181) = 0 TMP\_182 = 1 not(TMP\_182) = 0 TMP\_183 = 2 TMP\_184 = 0 not(TMP\_184) = 1 TMP\_185 = 0 not(TMP\_185) = 1 TMP\_186 = 1 not(TMP\_186) = 0 TMP\_187 = 1 not(TMP\_187) = 0 TMP\_188 = 1 not(TMP\_188) = 0 TMP\_189 = 2 TMP\_190 = 0 not(TMP\_190) = 1 TMP\_191 = 1 not(TMP\_191) = 0 TMP\_192 = 1 not(TMP\_192) = 0 TMP\_193 = 1 not(TMP\_193) = 0 TMP\_194 = 1 not(TMP\_194) = 0 TMP\_195 = 1 not(TMP\_195) = 0 TMP\_196 = 5 TMP\_197 = 0 not(TMP\_197) = 1 TMP\_198 = 0 not(TMP\_198) = 1 TMP\_199 = 0 TMP\_200 = 1 not(TMP\_200) = 0 TMP\_201 = 1 not(TMP\_201) = 0 TMP\_202 = 2 TMP\_203 = 0 not(TMP\_203) = 1 TMP\_204 = 0 not(TMP\_204) = 1 TMP\_205 = 1 not(TMP\_205) = 0 TMP\_206 = 1 not(TMP\_206) = 0 TMP\_207 = 1 not(TMP\_207) = 0 TMP\_208 = 2 TMP\_209 = 1 not(TMP\_209) = 0 TMP\_210 = 1 not(TMP\_210) = 0 TMP\_211 = 1 not(TMP\_211) = 0 TMP\_212 = 1 not(TMP\_212) = 0 TMP\_213 = 1 not(TMP\_213) = 0 TMP\_214 = 0 not(TMP\_214) = 1 TMP\_215 = 5 TMP\_216 = 0 not(TMP\_216) = 1 TMP\_217 = 0 not(TMP\_217) = 1 TMP\_218 = 0 TMP\_219 = 1 not(TMP\_219) = 0 TMP\_220 = 1 not(TMP\_220) = 0 TMP\_221 = 2 TMP\_222 = 0 not(TMP\_222) = 1 TMP\_223 = 0 not(TMP\_223) = 1 TMP\_224 = 1 not(TMP\_224) = 0 TMP\_225 = 1 not(TMP\_225) = 0 TMP\_226 = 1 not(TMP\_226) = 0 TMP\_227 = 2 TMP\_228 = 0 not(TMP\_228) = 1 TMP\_229 = 1 not(TMP\_229) = 0 TMP\_230 = 1 not(TMP\_230) = 0 TMP\_231 = 1 not(TMP\_231) = 0 TMP\_232 = 1 not(TMP\_232) = 0 TMP\_233 = 0 not(TMP\_233) = 1 TMP\_234 = 4 TMP\_235 = 0 not(TMP\_235) = 1 TMP\_236 = 0 not(TMP\_236) = 1 TMP\_237 = 0 TMP\_238 = 1 not(TMP\_238) = 0 TMP\_239 = 1 not(TMP\_239) = 0 TMP\_240 = 2 TMP\_241 = 0 not(TMP\_241) = 1 TMP\_242 = 0 not(TMP\_242) = 1 TMP\_243 = 1 not(TMP\_243) = 0 TMP\_244 = 1 not(TMP\_244) = 0 TMP\_245 = 1 not(TMP\_245) = 0 TMP\_246 = 2 TMP\_247 = 0 not(TMP\_247) = 1 TMP\_248 = 1 not(TMP\_248) = 0 TMP\_249 = 1 not(TMP\_249) = 0 TMP\_250 = 1 not(TMP\_250) = 0 TMP\_251 = 1 not(TMP\_251) = 0 TMP\_252 = 1 not(TMP\_252) = 0 TMP\_253 = 5 TMP\_254 = 0 not(TMP\_254) = 1 TMP\_255 = 0 not(TMP\_255) = 1 TMP\_256 = 0 TMP\_257 = 1 not(TMP\_257) = 0 TMP\_258 = 1 not(TMP\_258) = 0 TMP\_259 = 2 TMP\_260 = 0 not(TMP\_260) = 1 TMP\_261 = 0 not(TMP\_261) = 1 TMP\_262 = 1 not(TMP\_262) = 0 TMP\_263 = 1 not(TMP\_263) = 0 TMP\_264 = 1 not(TMP\_264) = 0 TMP\_265 = 2 TMP\_266 = 0 not(TMP\_266) = 1 TMP\_267 = 1 not(TMP\_267) = 0 TMP\_268 = 1 not(TMP\_268) = 0 TMP\_269 = 1 not(TMP\_269) = 0 TMP\_270 = 1 not(TMP\_270) = 0 TMP\_271 = 1 not(TMP\_271) = 0 TMP\_272 = 5 TMP\_273 = 0 not(TMP\_273) = 1 TMP\_274 = 0 not(TMP\_274) = 1 TMP\_275 = 0 TMP\_276 = 1 not(TMP\_276) = 0 TMP\_277 = 1 not(TMP\_277) = 0 TMP\_278 = 2 TMP\_279 = 0 not(TMP\_279) = 1 TMP\_280 = 0 not(TMP\_280) = 1 TMP\_281 = 1 not(TMP\_281) = 0 TMP\_282 = 1 not(TMP\_282) = 0 TMP\_283 = 1 not(TMP\_283) = 0 TMP\_284 = 2 TMP\_285 = 0 not(TMP\_285) = 1 TMP\_286 = 1 not(TMP\_286) = 0 TMP\_287 = 1 not(TMP\_287) = 0 TMP\_288 = 1 not(TMP\_288) = 0 TMP\_289 = 1 not(TMP\_289) = 0 TMP\_290 = 1 not(TMP\_290) = 0 TMP\_291 = 5 TMP\_292 = 0 not(TMP\_292) = 1 TMP\_293 = 0 not(TMP\_293) = 1 TMP\_294 = 0 TMP\_295 = 1 not(TMP\_295) = 0 TMP\_296 = 1 not(TMP\_296) = 0 TMP\_297 = 2 TMP\_298 = 0 not(TMP\_298) = 1 TMP\_299 = 0 not(TMP\_299) = 1 TMP\_300 = 1 not(TMP\_300) = 0 TMP\_301 = 1 not(TMP\_301) = 0 TMP\_302 = 1 not(TMP\_302) = 0 TMP\_303 = 2 TMP\_304 = 0 not(TMP\_304) = 1 TMP\_305 = 1 not(TMP\_305) = 0 TMP\_306 = 1 not(TMP\_306) = 0 TMP\_307 = 1 not(TMP\_307) = 0 TMP\_308 = 0 not(TMP\_308) = 1 TMP\_309 = 1 not(TMP\_309) = 0 TMP\_310 = 4 TMP\_311 = 0 not(TMP\_311) = 1 TMP\_312 = 0 not(TMP\_312) = 1 TMP\_313 = 0 TMP\_314 = 1 not(TMP\_314) = 0 TMP\_315 = 1 not(TMP\_315) = 0 TMP\_316 = 2 TMP\_317 = 0 not(TMP\_317) = 1 TMP\_318 = 0 not(TMP\_318) = 1 TMP\_319 = 1 not(TMP\_319) = 0 TMP\_320 = 1 not(TMP\_320) = 0 TMP\_321 = 1 not(TMP\_321) = 0 TMP\_322 = 2 TMP\_323 = 0 not(TMP\_323) = 1 TMP\_324 = 1 not(TMP\_324) = 0 TMP\_325 = 1 not(TMP\_325) = 0 TMP\_326 = 1 not(TMP\_326) = 0 TMP\_327 = 0 not(TMP\_327) = 1 TMP\_328 = 1 not(TMP\_328) = 0 TMP\_329 = 4 TMP\_330 = 0 not(TMP\_330) = 1 TMP\_331 = 0 not(TMP\_331) = 1 TMP\_332 = 0 TMP\_333 = 1 not(TMP\_333) = 0 TMP\_334 = 1 not(TMP\_334) = 0 TMP\_335 = 2 TMP\_336 = 0 not(TMP\_336) = 1 TMP\_337 = 0 not(TMP\_337) = 1 TMP\_338 = 1 not(TMP\_338) = 0 TMP\_339 = 1 not(TMP\_339) = 0 TMP\_340 = 1 not(TMP\_340) = 0 TMP\_341 = 2 TMP\_342 = 1 not(TMP\_342) = 0 TMP\_343 = 1 not(TMP\_343) = 0 TMP\_344 = 1 not(TMP\_344) = 0 TMP\_345 = 1 not(TMP\_345) = 0 TMP\_346 = 0 not(TMP\_346) = 1 TMP\_347 = 1 not(TMP\_347) = 0 TMP\_348 = 5 TMP\_349 = 0 not(TMP\_349) = 1 TMP\_350 = 0 not(TMP\_350) = 1 TMP\_351 = 0 TMP\_352 = 1 not(TMP\_352) = 0 TMP\_353 = 1 not(TMP\_353) = 0 TMP\_354 = 2 TMP\_355 = 0 not(TMP\_355) = 1 TMP\_356 = 0 not(TMP\_356) = 1 TMP\_357 = 1 not(TMP\_357) = 0 TMP\_358 = 1 not(TMP\_358) = 0 TMP\_359 = 1 not(TMP\_359) = 0 TMP\_360 = 2 TMP\_361 = 0 not(TMP\_361) = 1 TMP\_362 = 1 not(TMP\_362) = 0 TMP\_363 = 1 not(TMP\_363) = 0 TMP\_364 = 1 not(TMP\_364) = 0 TMP\_365 = 1 not(TMP\_365) = 0 TMP\_366 = 1 not(TMP\_366) = 0 TMP\_367 = 5 TMP\_368 = 0 not(TMP\_368) = 1 TMP\_369 = 0 not(TMP\_369) = 1 TMP\_370 = 0 TMP\_371 = 1 not(TMP\_371) = 0 TMP\_372 = 1 not(TMP\_372) = 0 TMP\_373 = 2 TMP\_374 = 0 not(TMP\_374) = 1 TMP\_375 = 0 not(TMP\_375) = 1 TMP\_376 = 1 not(TMP\_376) = 0 TMP\_377 = 1 not(TMP\_377) = 0 TMP\_378 = 1 not(TMP\_378) = 0 TMP\_379 = 2 TMP\_380 = 0 not(TMP\_380) = 1 TMP\_381 = 1 not(TMP\_381) = 0 TMP\_382 = 1 not(TMP\_382) = 0 TMP\_383 = 1 not(TMP\_383) = 0 TMP\_384 = 0 not(TMP\_384) = 1 TMP\_385 = 1 not(TMP\_385) = 0 TMP\_386 = 4 TMP\_387 = 0 not(TMP\_387) = 1 TMP\_388 = 0 not(TMP\_388) = 1 TMP\_389 = 0 TMP\_390 = 1 not(TMP\_390) = 0 TMP\_391 = 1 not(TMP\_391) = 0 TMP\_392 = 2 TMP\_393 = 0 not(TMP\_393) = 1 TMP\_394 = 0 not(TMP\_394) = 1 TMP\_395 = 1 not(TMP\_395) = 0 TMP\_396 = 1 not(TMP\_396) = 0 TMP\_397 = 1 not(TMP\_397) = 0 TMP\_398 = 2 TMP\_399 = 0 not(TMP\_399) = 1 TMP\_400 = 1 not(TMP\_400) = 0 TMP\_401 = 1 not(TMP\_401) = 0 TMP\_402 = 1 not(TMP\_402) = 0 TMP\_403 = 1 not(TMP\_403) = 0 TMP\_404 = 1 not(TMP\_404) = 0 TMP\_405 = 5 TMP\_406 = 0 not(TMP\_406) = 1 TMP\_407 = 0 not(TMP\_407) = 1 TMP\_408 = 0 TMP\_409 = 1 not(TMP\_409) = 0 TMP\_410 = 1 not(TMP\_410) = 0 TMP\_411 = 2 TMP\_412 = 0 not(TMP\_412) = 1 TMP\_413 = 0 not(TMP\_413) = 1 TMP\_414 = 1 not(TMP\_414) = 0 TMP\_415 = 1 not(TMP\_415) = 0 TMP\_416 = 1 not(TMP\_416) = 0 TMP\_417 = 2 TMP\_418 = 1 not(TMP\_418) = 0 TMP\_419 = 0 not(TMP\_419) = 1 TMP\_420 = 1 not(TMP\_420) = 0 TMP\_421 = 1 not(TMP\_421) = 0 TMP\_422 = 1 not(TMP\_422) = 0 TMP\_423 = 1 not(TMP\_423) = 0 TMP\_424 = 5 TMP\_425 = 0 not(TMP\_425) = 1 TMP\_426 = 0 not(TMP\_426) = 1 TMP\_427 = 0 TMP\_428 = 1 not(TMP\_428) = 0 TMP\_429 = 1 not(TMP\_429) = 0 TMP\_430 = 2 TMP\_431 = 0 not(TMP\_431) = 1 TMP\_432 = 0 not(TMP\_432) = 1 TMP\_433 = 1 not(TMP\_433) = 0 TMP\_434 = 1 not(TMP\_434) = 0 TMP\_435 = 1 not(TMP\_435) = 0 TMP\_436 = 2 TMP\_437 = 1 not(TMP\_437) = 0 TMP\_438 = 0 not(TMP\_438) = 1 TMP\_439 = 1 not(TMP\_439) = 0 TMP\_440 = 1 not(TMP\_440) = 0 TMP\_441 = 0 not(TMP\_441) = 1 TMP\_442 = 1 not(TMP\_442) = 0 TMP\_443 = 4 TMP\_444 = 0 not(TMP\_444) = 1 TMP\_445 = 0 not(TMP\_445) = 1 TMP\_446 = 0 TMP\_447 = 1 not(TMP\_447) = 0 TMP\_448 = 1 not(TMP\_448) = 0 TMP\_449 = 2 TMP\_450 = 0 not(TMP\_450) = 1 TMP\_451 = 0 not(TMP\_451) = 1 TMP\_452 = 1 not(TMP\_452) = 0 TMP\_453 = 1 not(TMP\_453) = 0 TMP\_454 = 1 not(TMP\_454) = 0 TMP\_455 = 2 TMP\_456 = 1 not(TMP\_456) = 0 TMP\_457 = 1 not(TMP\_457) = 0 TMP\_458 = 1 not(TMP\_458) = 0 TMP\_459 = 1 not(TMP\_459) = 0 TMP\_460 = 0 not(TMP\_460) = 1 TMP\_461 = 1 not(TMP\_461) = 0 TMP\_462 = 5 TMP\_463 = 0 not(TMP\_463) = 1 TMP\_464 = 0 not(TMP\_464) = 1 TMP\_465 = 0 TMP\_466 = 1 not(TMP\_466) = 0 TMP\_467 = 1 not(TMP\_467) = 0 TMP\_468 = 2 TMP\_469 = 0 not(TMP\_469) = 1 TMP\_470 = 0 not(TMP\_470) = 1 TMP\_471 = 1 not(TMP\_471) = 0 TMP\_472 = 1 not(TMP\_472) = 0 TMP\_473 = 1 not(TMP\_473) = 0 TMP\_474 = 2 TMP\_475 = 1 not(TMP\_475) = 0 TMP\_476 = 0 not(TMP\_476) = 1 TMP\_477 = 1 not(TMP\_477) = 0 TMP\_478 = 1 not(TMP\_478) = 0 TMP\_479 = 0 not(TMP\_479) = 1 TMP\_480 = 1 not(TMP\_480) = 0 TMP\_481 = 4 TMP\_482 = 0 not(TMP\_482) = 1 TMP\_483 = 0 not(TMP\_483) = 1 TMP\_484 = 0 TMP\_485 = 1 not(TMP\_485) = 0 TMP\_486 = 1 not(TMP\_486) = 0 TMP\_487 = 2 TMP\_488 = 0 not(TMP\_488) = 1 TMP\_489 = 0 not(TMP\_489) = 1 TMP\_490 = 1 not(TMP\_490) = 0 TMP\_491 = 1 not(TMP\_491) = 0 TMP\_492 = 1 not(TMP\_492) = 0 TMP\_493 = 2 TMP\_494 = 1 not(TMP\_494) = 0 TMP\_495 = 0 not(TMP\_495) = 1 TMP\_496 = 1 not(TMP\_496) = 0 TMP\_497 = 1 not(TMP\_497) = 0 TMP\_498 = 1 not(TMP\_498) = 0 TMP\_499 = 1 not(TMP\_499) = 0 TMP\_500 = 5 TMP\_501 = 0 not(TMP\_501) = 1 TMP\_502 = 0 not(TMP\_502) = 1 TMP\_503 = 0 TMP\_504 = 1 not(TMP\_504) = 0 TMP\_505 = 1 not(TMP\_505) = 0 TMP\_506 = 2 TMP\_507 = 0 not(TMP\_507) = 1 TMP\_508 = 0 not(TMP\_508) = 1 TMP\_509 = 1 not(TMP\_509) = 0 TMP\_510 = 1 not(TMP\_510) = 0 TMP\_511 = 1 not(TMP\_511) = 0 TMP\_512 = 2 TMP\_513 = 1 not(TMP\_513) = 0 TMP\_514 = 1 not(TMP\_514) = 0 TMP\_515 = 1 not(TMP\_515) = 0 TMP\_516 = 1 not(TMP\_516) = 0 TMP\_517 = 0 not(TMP\_517) = 1 TMP\_518 = 1 not(TMP\_518) = 0 TMP\_519 = 5 TMP\_520 = 0 not(TMP\_520) = 1 TMP\_521 = 0 not(TMP\_521) = 1 TMP\_522 = 0 TMP\_523 = 1 not(TMP\_523) = 0 TMP\_524 = 1 not(TMP\_524) = 0 TMP\_525 = 2 TMP\_526 = 0 not(TMP\_526) = 1 TMP\_527 = 0 not(TMP\_527) = 1 TMP\_528 = 1 not(TMP\_528) = 0 TMP\_529 = 1 not(TMP\_529) = 0 TMP\_530 = 1 not(TMP\_530) = 0 TMP\_531 = 2 TMP\_532 = 1 not(TMP\_532) = 0 TMP\_533 = 1 not(TMP\_533) = 0 TMP\_534 = 1 not(TMP\_534) = 0 TMP\_535 = 1 not(TMP\_535) = 0 TMP\_536 = 1 not(TMP\_536) = 0 TMP\_537 = 0 not(TMP\_537) = 1 TMP\_538 = 5 TMP\_539 = 0 not(TMP\_539) = 1 TMP\_540 = 0 not(TMP\_540) = 1 TMP\_541 = 0 TMP\_542 = 1 not(TMP\_542) = 0 TMP\_543 = 1 not(TMP\_543) = 0 TMP\_544 = 2 TMP\_545 = 0 not(TMP\_545) = 1 TMP\_546 = 0 not(TMP\_546) = 1 TMP\_547 = 1 not(TMP\_547) = 0 TMP\_548 = 1 not(TMP\_548) = 0 TMP\_549 = 1 not(TMP\_549) = 0 TMP\_550 = 2 TMP\_551 = 1 not(TMP\_551) = 0 TMP\_552 = 0 not(TMP\_552) = 1 TMP\_553 = 1 not(TMP\_553) = 0 TMP\_554 = 1 not(TMP\_554) = 0 TMP\_555 = 1 not(TMP\_555) = 0 TMP\_556 = 0 not(TMP\_556) = 1 TMP\_557 = 4 TMP\_558 = 0 not(TMP\_558) = 1 TMP\_559 = 0 not(TMP\_559) = 1 TMP\_560 = 0 TMP\_561 = 1 not(TMP\_561) = 0 TMP\_562 = 1 not(TMP\_562) = 0 TMP\_563 = 2 TMP\_564 = 0 not(TMP\_564) = 1 TMP\_565 = 0 not(TMP\_565) = 1 TMP\_566 = 1 not(TMP\_566) = 0 TMP\_567 = 1 not(TMP\_567) = 0 TMP\_568 = 1 not(TMP\_568) = 0 TMP\_569 = 2 TMP\_570 = 1 not(TMP\_570) = 0 TMP\_571 = 0 not(TMP\_571) = 1 TMP\_572 = 1 not(TMP\_572) = 0 TMP\_573 = 1 not(TMP\_573) = 0 TMP\_574 = 1 not(TMP\_574) = 0 TMP\_575 = 1 not(TMP\_575) = 0 TMP\_576 = 5 TMP\_577 = 0 not(TMP\_577) = 1 TMP\_578 = 0 not(TMP\_578) = 1 TMP\_579 = 0 TMP\_580 = 1 not(TMP\_580) = 0 TMP\_581 = 1 not(TMP\_581) = 0 TMP\_582 = 2 TMP\_583 = 0 not(TMP\_583) = 1 TMP\_584 = 0 not(TMP\_584) = 1 TMP\_585 = 1 not(TMP\_585) = 0 TMP\_586 = 1 not(TMP\_586) = 0 TMP\_587 = 1 not(TMP\_587) = 0 TMP\_588 = 2 TMP\_589 = 1 not(TMP\_589) = 0 TMP\_590 = 1 not(TMP\_590) = 0 TMP\_591 = 0 not(TMP\_591) = 1 TMP\_592 = 1 not(TMP\_592) = 0 TMP\_593 = 1 not(TMP\_593) = 0 TMP\_594 = 1 not(TMP\_594) = 0 TMP\_595 = 5 TMP\_596 = 0 not(TMP\_596) = 1 TMP\_597 = 0 not(TMP\_597) = 1 TMP\_598 = 0 TMP\_599 = 1 not(TMP\_599) = 0 TMP\_600 = 1 not(TMP\_600) = 0 TMP\_601 = 2 TMP\_602 = 0 not(TMP\_602) = 1 TMP\_603 = 0 not(TMP\_603) = 1 TMP\_604 = 1 not(TMP\_604) = 0 TMP\_605 = 1 not(TMP\_605) = 0 TMP\_606 = 1 not(TMP\_606) = 0 TMP\_607 = 2 TMP\_608 = 1 not(TMP\_608) = 0 TMP\_609 = 0 not(TMP\_609) = 1 TMP\_610 = 1 not(TMP\_610) = 0 TMP\_611 = 1 not(TMP\_611) = 0 TMP\_612 = 1 not(TMP\_612) = 0 TMP\_613 = 1 not(TMP\_613) = 0 TMP\_614 = 5 TMP\_615 = 0 not(TMP\_615) = 1 TMP\_616 = 0 not(TMP\_616) = 1 TMP\_617 = 0 TMP\_618 = 1 not(TMP\_618) = 0 TMP\_619 = 1 not(TMP\_619) = 0 TMP\_620 = 2 TMP\_621 = 0 not(TMP\_621) = 1 TMP\_622 = 0 not(TMP\_622) = 1 TMP\_623 = 1 not(TMP\_623) = 0 TMP\_624 = 1 not(TMP\_624) = 0 TMP\_625 = 1 not(TMP\_625) = 0 TMP\_626 = 2 TMP\_627 = 1 not(TMP\_627) = 0 TMP\_628 = 0 not(TMP\_628) = 1 TMP\_629 = 1 not(TMP\_629) = 0 TMP\_630 = 1 not(TMP\_630) = 0 TMP\_631 = 1 not(TMP\_631) = 0 TMP\_632 = 0 not(TMP\_632) = 1 TMP\_633 = 4 TMP\_634 = 0 not(TMP\_634) = 1 TMP\_635 = 0 not(TMP\_635) = 1 TMP\_636 = 0 TMP\_637 = 1 not(TMP\_637) = 0 TMP\_638 = 1 not(TMP\_638) = 0 TMP\_639 = 2 TMP\_640 = 0 not(TMP\_640) = 1 TMP\_641 = 0 not(TMP\_641) = 1 TMP\_642 = 1 not(TMP\_642) = 0 TMP\_643 = 1 not(TMP\_643) = 0 TMP\_644 = 1 not(TMP\_644) = 0 TMP\_645 = 2 TMP\_646 = 1 not(TMP\_646) = 0 TMP\_647 = 1 not(TMP\_647) = 0 TMP\_648 = 1 not(TMP\_648) = 0 TMP\_649 = 1 not(TMP\_649) = 0 TMP\_650 = 1 not(TMP\_650) = 0 TMP\_651 = 0 not(TMP\_651) = 1 TMP\_652 = 5 TMP\_653 = 0 not(TMP\_653) = 1 TMP\_654 = 0 not(TMP\_654) = 1 TMP\_655 = 0 TMP\_656 = 1 not(TMP\_656) = 0 TMP\_657 = 1 not(TMP\_657) = 0 TMP\_658 = 2 TMP\_659 = 0 not(TMP\_659) = 1 TMP\_660 = 0 not(TMP\_660) = 1 TMP\_661 = 1 not(TMP\_661) = 0 TMP\_662 = 1 not(TMP\_662) = 0 TMP\_663 = 1 not(TMP\_663) = 0 TMP\_664 = 2 Area\_0 = 60 Distance\_0\_Rule\_0 = 20 Distance\_1\_Rule\_0 = 3 Distance\_2\_Rule\_0 = 1 Area\_1 = 174 Distance\_0\_Rule\_1 = 58 Distance\_1\_Rule\_1 = 3 Distance\_2\_Rule\_1 = 1 Area\_2 = 116 Distance\_0\_Rule\_2 = 58 Distance\_1\_Rule\_2 = 2 Distance\_2\_Rule\_2 = 1 Area\_3 = 79 -(Rule\_3\_LB) = 0 Distance\_0\_Rule\_3 = 79 -(Rule\_3\_LB) = 0 Distance\_1\_Rule\_3 = 1 -(Rule\_3\_LB) = 0 Distance\_2\_Rule\_3 = 1 Area\_4 = 123 -(Rule\_4\_LB) = -79 Distance\_0\_Rule\_4 = 41 -(Rule\_4\_LB) = 0 Distance\_1\_Rule\_4 = 3 -(Rule\_4\_LB) = 0 Distance\_2\_Rule\_4 = 1 Area\_5 = 123 -(Rule\_5\_LB) = -79 Distance\_0\_Rule\_5 = 41 -(Rule\_5\_LB) = 0 Distance\_1\_Rule\_5 = 3 -(Rule\_5\_LB) = -1 Distance\_2\_Rule\_5 = 1 Area\_6 = 3 -(Rule\_6\_LB) = -20 Distance\_0\_Rule\_6 = 1 -(Rule\_6\_LB) = 0 Distance\_1\_Rule\_6 = 3 -(Rule\_6\_LB) = -1 Distance\_2\_Rule\_6 = 1 Area\_7 = 42 -(Rule\_7\_LB) = 0 Distance\_0\_Rule\_7 = 21 -(Rule\_7\_LB) = -1 Distance\_1\_Rule\_7 = 2 -(Rule\_7\_LB) = 0 Distance\_2\_Rule\_7 = 1 TMP\_665 = 720 .

- Solution #18 found. 18 Solutions, Resolution 3.296s, 23850 Nodes (7,235.1 n/s), 47621 Backtracks, 23801 Fails, 0 Restarts

Rule\_3\_LB = 0 Rule\_3\_UB = 79 Rule\_3\_LB = 0 Rule\_3\_UB = 1 Rule\_3\_LB = 0 Rule\_3\_UB = 1 Rule\_4\_LB = 79 Rule\_4\_UB = 120 Rule\_4\_LB = 0 Rule\_4\_UB = 3 Rule\_4\_LB = 0 Rule\_4\_UB = 1 Rule\_5\_LB = 79 Rule\_5\_UB = 120 Rule\_5\_LB = 0 Rule\_5\_UB = 3 Rule\_5\_LB = 1 Rule\_5\_UB = 2 Rule\_6\_LB = 20 Rule\_6\_UB = 21 Rule\_6\_LB = 0 Rule\_6\_UB = 3 Rule\_6\_LB = 1 Rule\_6\_UB = 2 Rule\_7\_LB = 0 Rule\_7\_UB = 21 Rule\_7\_LB = 1 Rule\_7\_UB = 3 Rule\_7\_LB = 0 Rule\_7\_UB = 1 Overlaps\_0\_0 = 0 Overlaps\_0\_1 = 0 Overlaps\_0\_2 = 0 Overlaps\_0\_3 = 0 Overlaps\_0\_4 = 0 Overlaps\_0\_5 = 0 Overlaps\_0\_6 = 0 Overlaps\_0\_7 = 0 Overlaps\_1\_0 = 1 Overlaps\_1\_1 = 0 Overlaps\_1\_2 = 0 Overlaps\_1\_3 = 0 Overlaps\_1\_4 = 0 Overlaps\_1\_5 = 0 Overlaps\_1\_6 = 0 Overlaps\_1\_7 = 0 Overlaps\_2\_0 = 1 Overlaps\_2\_1 = 0 Overlaps\_2\_2 = 0 Overlaps\_2\_3 = 0 Overlaps\_2\_4 = 0 Overlaps\_2\_5 = 0 Overlaps\_2\_6 = 0 Overlaps\_2\_7 = 0 Overlaps\_3\_0 = 0 Overlaps\_3\_1 = 0 Overlaps\_3\_2 = 0 Overlaps\_3\_3 = 0 Overlaps\_3\_4 = 0 Overlaps\_3\_5 = 0 Overlaps\_3\_6 = 0 Overlaps\_3\_7 = 0 Overlaps\_4\_0 = 0 Overlaps\_4\_1 = 0 Overlaps\_4\_2 = 0 Overlaps\_4\_3 = 0 Overlaps\_4\_4 = 0 Overlaps\_4\_5 = 0 Overlaps\_4\_6 = 0 Overlaps\_4\_7 = 0 Overlaps\_5\_0 = 0 Overlaps\_5\_1 = 0 Overlaps\_5\_2 = 0 Overlaps\_5\_3 = 0 Overlaps\_5\_4 = 0 Overlaps\_5\_5 = 0 Overlaps\_5\_6 = 0 Overlaps\_5\_7 = 0 Overlaps\_6\_0 = 0 Overlaps\_6\_1 = 0 Overlaps\_6\_2 = 0 Overlaps\_6\_3 = 0 Overlaps\_6\_4 = 0 Overlaps\_6\_5 = 0 Overlaps\_6\_6 = 0 Overlaps\_6\_7 = 0 Overlaps\_7\_0 = 0 Overlaps\_7\_1 = 0 Overlaps\_7\_2 = 0 Overlaps\_7\_3 = 0 Overlaps\_7\_4 = 0 Overlaps\_7\_5 = 0 Overlaps\_7\_6 = 0 Overlaps\_7\_7 = 0 TMP\_0 = 1 not(TMP\_0) = 0 TMP\_1 = 1 not(TMP\_1) = 0 TMP\_2 = 1 not(TMP\_2) = 0 TMP\_3 = 1 not(TMP\_3) = 0 TMP\_4 = 1 not(TMP\_4) = 0 TMP\_5 = 0 not(TMP\_5) = 1 TMP\_6 = 5 TMP\_7 = 0 not(TMP\_7) = 1 TMP\_8 = 0 not(TMP\_8) = 1 TMP\_9 = 0 TMP\_10 = 1 not(TMP\_10) = 0 TMP\_11 = 1 not(TMP\_11) = 0 TMP\_12 = 2 TMP\_13 = 0 not(TMP\_13) = 1 TMP\_14 = 0 not(TMP\_14) = 1 TMP\_15 = 1 not(TMP\_15) = 0 TMP\_16 = 1 not(TMP\_16) = 0 TMP\_17 = 1 not(TMP\_17) = 0 TMP\_18 = 2 TMP\_19 = 1 not(TMP\_19) = 0 TMP\_20 = 1 not(TMP\_20) = 0 TMP\_21 = 1 not(TMP\_21) = 0 TMP\_22 = 1 not(TMP\_22) = 0 TMP\_23 = 1 not(TMP\_23) = 0 TMP\_24 = 0 not(TMP\_24) = 1 TMP\_25 = 5 TMP\_26 = 0 not(TMP\_26) = 1 TMP\_27 = 0 not(TMP\_27) = 1 TMP\_28 = 0 TMP\_29 = 1 not(TMP\_29) = 0 TMP\_30 = 1 not(TMP\_30) = 0 TMP\_31 = 2 TMP\_32 = 0 not(TMP\_32) = 1 TMP\_33 = 0 not(TMP\_33) = 1 TMP\_34 = 1 not(TMP\_34) = 0 TMP\_35 = 1 not(TMP\_35) = 0 TMP\_36 = 1 not(TMP\_36) = 0 TMP\_37 = 2 TMP\_38 = 1 not(TMP\_38) = 0 TMP\_39 = 1 not(TMP\_39) = 0 TMP\_40 = 1 not(TMP\_40) = 0 TMP\_41 = 0 not(TMP\_41) = 1 TMP\_42 = 1 not(TMP\_42) = 0 TMP\_43 = 1 not(TMP\_43) = 0 TMP\_44 = 5 TMP\_45 = 0 not(TMP\_45) = 1 TMP\_46 = 0 not(TMP\_46) = 1 TMP\_47 = 0 TMP\_48 = 1 not(TMP\_48) = 0 TMP\_49 = 1 not(TMP\_49) = 0 TMP\_50 = 2 TMP\_51 = 0 not(TMP\_51) = 1 TMP\_52 = 0 not(TMP\_52) = 1 TMP\_53 = 1 not(TMP\_53) = 0 TMP\_54 = 1 not(TMP\_54) = 0 TMP\_55 = 1 not(TMP\_55) = 0 TMP\_56 = 2 TMP\_57 = 1 not(TMP\_57) = 0 TMP\_58 = 0 not(TMP\_58) = 1 TMP\_59 = 1 not(TMP\_59) = 0 TMP\_60 = 1 not(TMP\_60) = 0 TMP\_61 = 1 not(TMP\_61) = 0 TMP\_62 = 1 not(TMP\_62) = 0 TMP\_63 = 5 TMP\_64 = 0 not(TMP\_64) = 1 TMP\_65 = 0 not(TMP\_65) = 1 TMP\_66 = 0 TMP\_67 = 1 not(TMP\_67) = 0 TMP\_68 = 1 not(TMP\_68) = 0 TMP\_69 = 2 TMP\_70 = 0 not(TMP\_70) = 1 TMP\_71 = 0 not(TMP\_71) = 1 TMP\_72 = 1 not(TMP\_72) = 0 TMP\_73 = 1 not(TMP\_73) = 0 TMP\_74 = 1 not(TMP\_74) = 0 TMP\_75 = 2 TMP\_76 = 1 not(TMP\_76) = 0 TMP\_77 = 0 not(TMP\_77) = 1 TMP\_78 = 1 not(TMP\_78) = 0 TMP\_79 = 1 not(TMP\_79) = 0 TMP\_80 = 1 not(TMP\_80) = 0 TMP\_81 = 0 not(TMP\_81) = 1 TMP\_82 = 4 TMP\_83 = 0 not(TMP\_83) = 1 TMP\_84 = 0 not(TMP\_84) = 1 TMP\_85 = 0 TMP\_86 = 1 not(TMP\_86) = 0 TMP\_87 = 1 not(TMP\_87) = 0 TMP\_88 = 2 TMP\_89 = 0 not(TMP\_89) = 1 TMP\_90 = 0 not(TMP\_90) = 1 TMP\_91 = 1 not(TMP\_91) = 0 TMP\_92 = 1 not(TMP\_92) = 0 TMP\_93 = 1 not(TMP\_93) = 0 TMP\_94 = 2 TMP\_95 = 1 not(TMP\_95) = 0 TMP\_96 = 1 not(TMP\_96) = 0 TMP\_97 = 1 not(TMP\_97) = 0 TMP\_98 = 1 not(TMP\_98) = 0 TMP\_99 = 1 not(TMP\_99) = 0 TMP\_100 = 0 not(TMP\_100) = 1 TMP\_101 = 5 TMP\_102 = 0 not(TMP\_102) = 1 TMP\_103 = 0 not(TMP\_103) = 1 TMP\_104 = 0 TMP\_105 = 1 not(TMP\_105) = 0 TMP\_106 = 1 not(TMP\_106) = 0 TMP\_107 = 2 TMP\_108 = 0 not(TMP\_108) = 1 TMP\_109 = 0 not(TMP\_109) = 1 TMP\_110 = 1 not(TMP\_110) = 0 TMP\_111 = 1 not(TMP\_111) = 0 TMP\_112 = 1 not(TMP\_112) = 0 TMP\_113 = 2 TMP\_114 = 1 not(TMP\_114) = 0 TMP\_115 = 1 not(TMP\_115) = 0 TMP\_116 = 1 not(TMP\_116) = 0 TMP\_117 = 0 not(TMP\_117) = 1 TMP\_118 = 1 not(TMP\_118) = 0 TMP\_119 = 1 not(TMP\_119) = 0 TMP\_120 = 5 TMP\_121 = 0 not(TMP\_121) = 1 TMP\_122 = 0 not(TMP\_122) = 1 TMP\_123 = 0 TMP\_124 = 1 not(TMP\_124) = 0 TMP\_125 = 1 not(TMP\_125) = 0 TMP\_126 = 2 TMP\_127 = 0 not(TMP\_127) = 1 TMP\_128 = 0 not(TMP\_128) = 1 TMP\_129 = 1 not(TMP\_129) = 0 TMP\_130 = 1 not(TMP\_130) = 0 TMP\_131 = 1 not(TMP\_131) = 0 TMP\_132 = 2 TMP\_133 = 0 not(TMP\_133) = 1 TMP\_134 = 1 not(TMP\_134) = 0 TMP\_135 = 1 not(TMP\_135) = 0 TMP\_136 = 1 not(TMP\_136) = 0 TMP\_137 = 1 not(TMP\_137) = 0 TMP\_138 = 0 not(TMP\_138) = 1 TMP\_139 = 4 TMP\_140 = 0 not(TMP\_140) = 1 TMP\_141 = 0 not(TMP\_141) = 1 TMP\_142 = 0 TMP\_143 = 1 not(TMP\_143) = 0 TMP\_144 = 1 not(TMP\_144) = 0 TMP\_145 = 2 TMP\_146 = 0 not(TMP\_146) = 1 TMP\_147 = 0 not(TMP\_147) = 1 TMP\_148 = 1 not(TMP\_148) = 0 TMP\_149 = 1 not(TMP\_149) = 0 TMP\_150 = 1 not(TMP\_150) = 0 TMP\_151 = 2 TMP\_152 = 0 not(TMP\_152) = 1 TMP\_153 = 1 not(TMP\_153) = 0 TMP\_154 = 1 not(TMP\_154) = 0 TMP\_155 = 1 not(TMP\_155) = 0 TMP\_156 = 1 not(TMP\_156) = 0 TMP\_157 = 0 not(TMP\_157) = 1 TMP\_158 = 4 TMP\_159 = 0 not(TMP\_159) = 1 TMP\_160 = 0 not(TMP\_160) = 1 TMP\_161 = 0 TMP\_162 = 1 not(TMP\_162) = 0 TMP\_163 = 1 not(TMP\_163) = 0 TMP\_164 = 2 TMP\_165 = 0 not(TMP\_165) = 1 TMP\_166 = 0 not(TMP\_166) = 1 TMP\_167 = 1 not(TMP\_167) = 0 TMP\_168 = 1 not(TMP\_168) = 0 TMP\_169 = 1 not(TMP\_169) = 0 TMP\_170 = 2 TMP\_171 = 0 not(TMP\_171) = 1 TMP\_172 = 1 not(TMP\_172) = 0 TMP\_173 = 1 not(TMP\_173) = 0 TMP\_174 = 1 not(TMP\_174) = 0 TMP\_175 = 1 not(TMP\_175) = 0 TMP\_176 = 1 not(TMP\_176) = 0 TMP\_177 = 5 TMP\_178 = 0 not(TMP\_178) = 1 TMP\_179 = 0 not(TMP\_179) = 1 TMP\_180 = 0 TMP\_181 = 1 not(TMP\_181) = 0 TMP\_182 = 1 not(TMP\_182) = 0 TMP\_183 = 2 TMP\_184 = 0 not(TMP\_184) = 1 TMP\_185 = 0 not(TMP\_185) = 1 TMP\_186 = 1 not(TMP\_186) = 0 TMP\_187 = 1 not(TMP\_187) = 0 TMP\_188 = 1 not(TMP\_188) = 0 TMP\_189 = 2 TMP\_190 = 0 not(TMP\_190) = 1 TMP\_191 = 1 not(TMP\_191) = 0 TMP\_192 = 1 not(TMP\_192) = 0 TMP\_193 = 1 not(TMP\_193) = 0 TMP\_194 = 1 not(TMP\_194) = 0 TMP\_195 = 1 not(TMP\_195) = 0 TMP\_196 = 5 TMP\_197 = 0 not(TMP\_197) = 1 TMP\_198 = 0 not(TMP\_198) = 1 TMP\_199 = 0 TMP\_200 = 1 not(TMP\_200) = 0 TMP\_201 = 1 not(TMP\_201) = 0 TMP\_202 = 2 TMP\_203 = 0 not(TMP\_203) = 1 TMP\_204 = 0 not(TMP\_204) = 1 TMP\_205 = 1 not(TMP\_205) = 0 TMP\_206 = 1 not(TMP\_206) = 0 TMP\_207 = 1 not(TMP\_207) = 0 TMP\_208 = 2 TMP\_209 = 1 not(TMP\_209) = 0 TMP\_210 = 1 not(TMP\_210) = 0 TMP\_211 = 1 not(TMP\_211) = 0 TMP\_212 = 1 not(TMP\_212) = 0 TMP\_213 = 1 not(TMP\_213) = 0 TMP\_214 = 0 not(TMP\_214) = 1 TMP\_215 = 5 TMP\_216 = 0 not(TMP\_216) = 1 TMP\_217 = 0 not(TMP\_217) = 1 TMP\_218 = 0 TMP\_219 = 1 not(TMP\_219) = 0 TMP\_220 = 1 not(TMP\_220) = 0 TMP\_221 = 2 TMP\_222 = 0 not(TMP\_222) = 1 TMP\_223 = 0 not(TMP\_223) = 1 TMP\_224 = 1 not(TMP\_224) = 0 TMP\_225 = 1 not(TMP\_225) = 0 TMP\_226 = 1 not(TMP\_226) = 0 TMP\_227 = 2 TMP\_228 = 0 not(TMP\_228) = 1 TMP\_229 = 1 not(TMP\_229) = 0 TMP\_230 = 1 not(TMP\_230) = 0 TMP\_231 = 1 not(TMP\_231) = 0 TMP\_232 = 1 not(TMP\_232) = 0 TMP\_233 = 0 not(TMP\_233) = 1 TMP\_234 = 4 TMP\_235 = 0 not(TMP\_235) = 1 TMP\_236 = 0 not(TMP\_236) = 1 TMP\_237 = 0 TMP\_238 = 1 not(TMP\_238) = 0 TMP\_239 = 1 not(TMP\_239) = 0 TMP\_240 = 2 TMP\_241 = 0 not(TMP\_241) = 1 TMP\_242 = 0 not(TMP\_242) = 1 TMP\_243 = 1 not(TMP\_243) = 0 TMP\_244 = 1 not(TMP\_244) = 0 TMP\_245 = 1 not(TMP\_245) = 0 TMP\_246 = 2 TMP\_247 = 0 not(TMP\_247) = 1 TMP\_248 = 1 not(TMP\_248) = 0 TMP\_249 = 1 not(TMP\_249) = 0 TMP\_250 = 1 not(TMP\_250) = 0 TMP\_251 = 1 not(TMP\_251) = 0 TMP\_252 = 1 not(TMP\_252) = 0 TMP\_253 = 5 TMP\_254 = 0 not(TMP\_254) = 1 TMP\_255 = 0 not(TMP\_255) = 1 TMP\_256 = 0 TMP\_257 = 1 not(TMP\_257) = 0 TMP\_258 = 1 not(TMP\_258) = 0 TMP\_259 = 2 TMP\_260 = 0 not(TMP\_260) = 1 TMP\_261 = 0 not(TMP\_261) = 1 TMP\_262 = 1 not(TMP\_262) = 0 TMP\_263 = 1 not(TMP\_263) = 0 TMP\_264 = 1 not(TMP\_264) = 0 TMP\_265 = 2 TMP\_266 = 0 not(TMP\_266) = 1 TMP\_267 = 1 not(TMP\_267) = 0 TMP\_268 = 1 not(TMP\_268) = 0 TMP\_269 = 1 not(TMP\_269) = 0 TMP\_270 = 1 not(TMP\_270) = 0 TMP\_271 = 1 not(TMP\_271) = 0 TMP\_272 = 5 TMP\_273 = 0 not(TMP\_273) = 1 TMP\_274 = 0 not(TMP\_274) = 1 TMP\_275 = 0 TMP\_276 = 1 not(TMP\_276) = 0 TMP\_277 = 1 not(TMP\_277) = 0 TMP\_278 = 2 TMP\_279 = 0 not(TMP\_279) = 1 TMP\_280 = 0 not(TMP\_280) = 1 TMP\_281 = 1 not(TMP\_281) = 0 TMP\_282 = 1 not(TMP\_282) = 0 TMP\_283 = 1 not(TMP\_283) = 0 TMP\_284 = 2 TMP\_285 = 0 not(TMP\_285) = 1 TMP\_286 = 1 not(TMP\_286) = 0 TMP\_287 = 1 not(TMP\_287) = 0 TMP\_288 = 1 not(TMP\_288) = 0 TMP\_289 = 1 not(TMP\_289) = 0 TMP\_290 = 1 not(TMP\_290) = 0 TMP\_291 = 5 TMP\_292 = 0 not(TMP\_292) = 1 TMP\_293 = 0 not(TMP\_293) = 1 TMP\_294 = 0 TMP\_295 = 1 not(TMP\_295) = 0 TMP\_296 = 1 not(TMP\_296) = 0 TMP\_297 = 2 TMP\_298 = 0 not(TMP\_298) = 1 TMP\_299 = 0 not(TMP\_299) = 1 TMP\_300 = 1 not(TMP\_300) = 0 TMP\_301 = 1 not(TMP\_301) = 0 TMP\_302 = 1 not(TMP\_302) = 0 TMP\_303 = 2 TMP\_304 = 0 not(TMP\_304) = 1 TMP\_305 = 1 not(TMP\_305) = 0 TMP\_306 = 1 not(TMP\_306) = 0 TMP\_307 = 1 not(TMP\_307) = 0 TMP\_308 = 0 not(TMP\_308) = 1 TMP\_309 = 1 not(TMP\_309) = 0 TMP\_310 = 4 TMP\_311 = 0 not(TMP\_311) = 1 TMP\_312 = 0 not(TMP\_312) = 1 TMP\_313 = 0 TMP\_314 = 1 not(TMP\_314) = 0 TMP\_315 = 1 not(TMP\_315) = 0 TMP\_316 = 2 TMP\_317 = 0 not(TMP\_317) = 1 TMP\_318 = 0 not(TMP\_318) = 1 TMP\_319 = 1 not(TMP\_319) = 0 TMP\_320 = 1 not(TMP\_320) = 0 TMP\_321 = 1 not(TMP\_321) = 0 TMP\_322 = 2 TMP\_323 = 0 not(TMP\_323) = 1 TMP\_324 = 1 not(TMP\_324) = 0 TMP\_325 = 1 not(TMP\_325) = 0 TMP\_326 = 1 not(TMP\_326) = 0 TMP\_327 = 0 not(TMP\_327) = 1 TMP\_328 = 1 not(TMP\_328) = 0 TMP\_329 = 4 TMP\_330 = 0 not(TMP\_330) = 1 TMP\_331 = 0 not(TMP\_331) = 1 TMP\_332 = 0 TMP\_333 = 1 not(TMP\_333) = 0 TMP\_334 = 1 not(TMP\_334) = 0 TMP\_335 = 2 TMP\_336 = 0 not(TMP\_336) = 1 TMP\_337 = 0 not(TMP\_337) = 1 TMP\_338 = 1 not(TMP\_338) = 0 TMP\_339 = 1 not(TMP\_339) = 0 TMP\_340 = 1 not(TMP\_340) = 0 TMP\_341 = 2 TMP\_342 = 1 not(TMP\_342) = 0 TMP\_343 = 1 not(TMP\_343) = 0 TMP\_344 = 1 not(TMP\_344) = 0 TMP\_345 = 1 not(TMP\_345) = 0 TMP\_346 = 0 not(TMP\_346) = 1 TMP\_347 = 1 not(TMP\_347) = 0 TMP\_348 = 5 TMP\_349 = 0 not(TMP\_349) = 1 TMP\_350 = 0 not(TMP\_350) = 1 TMP\_351 = 0 TMP\_352 = 1 not(TMP\_352) = 0 TMP\_353 = 1 not(TMP\_353) = 0 TMP\_354 = 2 TMP\_355 = 0 not(TMP\_355) = 1 TMP\_356 = 0 not(TMP\_356) = 1 TMP\_357 = 1 not(TMP\_357) = 0 TMP\_358 = 1 not(TMP\_358) = 0 TMP\_359 = 1 not(TMP\_359) = 0 TMP\_360 = 2 TMP\_361 = 0 not(TMP\_361) = 1 TMP\_362 = 1 not(TMP\_362) = 0 TMP\_363 = 1 not(TMP\_363) = 0 TMP\_364 = 1 not(TMP\_364) = 0 TMP\_365 = 1 not(TMP\_365) = 0 TMP\_366 = 1 not(TMP\_366) = 0 TMP\_367 = 5 TMP\_368 = 0 not(TMP\_368) = 1 TMP\_369 = 0 not(TMP\_369) = 1 TMP\_370 = 0 TMP\_371 = 1 not(TMP\_371) = 0 TMP\_372 = 1 not(TMP\_372) = 0 TMP\_373 = 2 TMP\_374 = 0 not(TMP\_374) = 1 TMP\_375 = 0 not(TMP\_375) = 1 TMP\_376 = 1 not(TMP\_376) = 0 TMP\_377 = 1 not(TMP\_377) = 0 TMP\_378 = 1 not(TMP\_378) = 0 TMP\_379 = 2 TMP\_380 = 0 not(TMP\_380) = 1 TMP\_381 = 1 not(TMP\_381) = 0 TMP\_382 = 1 not(TMP\_382) = 0 TMP\_383 = 1 not(TMP\_383) = 0 TMP\_384 = 0 not(TMP\_384) = 1 TMP\_385 = 1 not(TMP\_385) = 0 TMP\_386 = 4 TMP\_387 = 0 not(TMP\_387) = 1 TMP\_388 = 0 not(TMP\_388) = 1 TMP\_389 = 0 TMP\_390 = 1 not(TMP\_390) = 0 TMP\_391 = 1 not(TMP\_391) = 0 TMP\_392 = 2 TMP\_393 = 0 not(TMP\_393) = 1 TMP\_394 = 0 not(TMP\_394) = 1 TMP\_395 = 1 not(TMP\_395) = 0 TMP\_396 = 1 not(TMP\_396) = 0 TMP\_397 = 1 not(TMP\_397) = 0 TMP\_398 = 2 TMP\_399 = 0 not(TMP\_399) = 1 TMP\_400 = 1 not(TMP\_400) = 0 TMP\_401 = 1 not(TMP\_401) = 0 TMP\_402 = 1 not(TMP\_402) = 0 TMP\_403 = 1 not(TMP\_403) = 0 TMP\_404 = 1 not(TMP\_404) = 0 TMP\_405 = 5 TMP\_406 = 0 not(TMP\_406) = 1 TMP\_407 = 0 not(TMP\_407) = 1 TMP\_408 = 0 TMP\_409 = 1 not(TMP\_409) = 0 TMP\_410 = 1 not(TMP\_410) = 0 TMP\_411 = 2 TMP\_412 = 0 not(TMP\_412) = 1 TMP\_413 = 0 not(TMP\_413) = 1 TMP\_414 = 1 not(TMP\_414) = 0 TMP\_415 = 1 not(TMP\_415) = 0 TMP\_416 = 1 not(TMP\_416) = 0 TMP\_417 = 2 TMP\_418 = 1 not(TMP\_418) = 0 TMP\_419 = 0 not(TMP\_419) = 1 TMP\_420 = 1 not(TMP\_420) = 0 TMP\_421 = 1 not(TMP\_421) = 0 TMP\_422 = 1 not(TMP\_422) = 0 TMP\_423 = 1 not(TMP\_423) = 0 TMP\_424 = 5 TMP\_425 = 0 not(TMP\_425) = 1 TMP\_426 = 0 not(TMP\_426) = 1 TMP\_427 = 0 TMP\_428 = 1 not(TMP\_428) = 0 TMP\_429 = 1 not(TMP\_429) = 0 TMP\_430 = 2 TMP\_431 = 0 not(TMP\_431) = 1 TMP\_432 = 0 not(TMP\_432) = 1 TMP\_433 = 1 not(TMP\_433) = 0 TMP\_434 = 1 not(TMP\_434) = 0 TMP\_435 = 1 not(TMP\_435) = 0 TMP\_436 = 2 TMP\_437 = 1 not(TMP\_437) = 0 TMP\_438 = 0 not(TMP\_438) = 1 TMP\_439 = 1 not(TMP\_439) = 0 TMP\_440 = 1 not(TMP\_440) = 0 TMP\_441 = 0 not(TMP\_441) = 1 TMP\_442 = 1 not(TMP\_442) = 0 TMP\_443 = 4 TMP\_444 = 0 not(TMP\_444) = 1 TMP\_445 = 0 not(TMP\_445) = 1 TMP\_446 = 0 TMP\_447 = 1 not(TMP\_447) = 0 TMP\_448 = 1 not(TMP\_448) = 0 TMP\_449 = 2 TMP\_450 = 0 not(TMP\_450) = 1 TMP\_451 = 0 not(TMP\_451) = 1 TMP\_452 = 1 not(TMP\_452) = 0 TMP\_453 = 1 not(TMP\_453) = 0 TMP\_454 = 1 not(TMP\_454) = 0 TMP\_455 = 2 TMP\_456 = 1 not(TMP\_456) = 0 TMP\_457 = 1 not(TMP\_457) = 0 TMP\_458 = 1 not(TMP\_458) = 0 TMP\_459 = 1 not(TMP\_459) = 0 TMP\_460 = 0 not(TMP\_460) = 1 TMP\_461 = 1 not(TMP\_461) = 0 TMP\_462 = 5 TMP\_463 = 0 not(TMP\_463) = 1 TMP\_464 = 0 not(TMP\_464) = 1 TMP\_465 = 0 TMP\_466 = 1 not(TMP\_466) = 0 TMP\_467 = 1 not(TMP\_467) = 0 TMP\_468 = 2 TMP\_469 = 0 not(TMP\_469) = 1 TMP\_470 = 0 not(TMP\_470) = 1 TMP\_471 = 1 not(TMP\_471) = 0 TMP\_472 = 1 not(TMP\_472) = 0 TMP\_473 = 1 not(TMP\_473) = 0 TMP\_474 = 2 TMP\_475 = 1 not(TMP\_475) = 0 TMP\_476 = 0 not(TMP\_476) = 1 TMP\_477 = 1 not(TMP\_477) = 0 TMP\_478 = 1 not(TMP\_478) = 0 TMP\_479 = 0 not(TMP\_479) = 1 TMP\_480 = 1 not(TMP\_480) = 0 TMP\_481 = 4 TMP\_482 = 0 not(TMP\_482) = 1 TMP\_483 = 0 not(TMP\_483) = 1 TMP\_484 = 0 TMP\_485 = 1 not(TMP\_485) = 0 TMP\_486 = 1 not(TMP\_486) = 0 TMP\_487 = 2 TMP\_488 = 0 not(TMP\_488) = 1 TMP\_489 = 0 not(TMP\_489) = 1 TMP\_490 = 1 not(TMP\_490) = 0 TMP\_491 = 1 not(TMP\_491) = 0 TMP\_492 = 1 not(TMP\_492) = 0 TMP\_493 = 2 TMP\_494 = 1 not(TMP\_494) = 0 TMP\_495 = 0 not(TMP\_495) = 1 TMP\_496 = 1 not(TMP\_496) = 0 TMP\_497 = 1 not(TMP\_497) = 0 TMP\_498 = 1 not(TMP\_498) = 0 TMP\_499 = 1 not(TMP\_499) = 0 TMP\_500 = 5 TMP\_501 = 0 not(TMP\_501) = 1 TMP\_502 = 0 not(TMP\_502) = 1 TMP\_503 = 0 TMP\_504 = 1 not(TMP\_504) = 0 TMP\_505 = 1 not(TMP\_505) = 0 TMP\_506 = 2 TMP\_507 = 0 not(TMP\_507) = 1 TMP\_508 = 0 not(TMP\_508) = 1 TMP\_509 = 1 not(TMP\_509) = 0 TMP\_510 = 1 not(TMP\_510) = 0 TMP\_511 = 1 not(TMP\_511) = 0 TMP\_512 = 2 TMP\_513 = 1 not(TMP\_513) = 0 TMP\_514 = 1 not(TMP\_514) = 0 TMP\_515 = 1 not(TMP\_515) = 0 TMP\_516 = 1 not(TMP\_516) = 0 TMP\_517 = 0 not(TMP\_517) = 1 TMP\_518 = 1 not(TMP\_518) = 0 TMP\_519 = 5 TMP\_520 = 0 not(TMP\_520) = 1 TMP\_521 = 0 not(TMP\_521) = 1 TMP\_522 = 0 TMP\_523 = 1 not(TMP\_523) = 0 TMP\_524 = 1 not(TMP\_524) = 0 TMP\_525 = 2 TMP\_526 = 0 not(TMP\_526) = 1 TMP\_527 = 0 not(TMP\_527) = 1 TMP\_528 = 1 not(TMP\_528) = 0 TMP\_529 = 1 not(TMP\_529) = 0 TMP\_530 = 1 not(TMP\_530) = 0 TMP\_531 = 2 TMP\_532 = 1 not(TMP\_532) = 0 TMP\_533 = 1 not(TMP\_533) = 0 TMP\_534 = 1 not(TMP\_534) = 0 TMP\_535 = 1 not(TMP\_535) = 0 TMP\_536 = 1 not(TMP\_536) = 0 TMP\_537 = 0 not(TMP\_537) = 1 TMP\_538 = 5 TMP\_539 = 0 not(TMP\_539) = 1 TMP\_540 = 0 not(TMP\_540) = 1 TMP\_541 = 0 TMP\_542 = 1 not(TMP\_542) = 0 TMP\_543 = 1 not(TMP\_543) = 0 TMP\_544 = 2 TMP\_545 = 0 not(TMP\_545) = 1 TMP\_546 = 0 not(TMP\_546) = 1 TMP\_547 = 1 not(TMP\_547) = 0 TMP\_548 = 1 not(TMP\_548) = 0 TMP\_549 = 1 not(TMP\_549) = 0 TMP\_550 = 2 TMP\_551 = 1 not(TMP\_551) = 0 TMP\_552 = 0 not(TMP\_552) = 1 TMP\_553 = 1 not(TMP\_553) = 0 TMP\_554 = 1 not(TMP\_554) = 0 TMP\_555 = 1 not(TMP\_555) = 0 TMP\_556 = 0 not(TMP\_556) = 1 TMP\_557 = 4 TMP\_558 = 0 not(TMP\_558) = 1 TMP\_559 = 0 not(TMP\_559) = 1 TMP\_560 = 0 TMP\_561 = 1 not(TMP\_561) = 0 TMP\_562 = 1 not(TMP\_562) = 0 TMP\_563 = 2 TMP\_564 = 0 not(TMP\_564) = 1 TMP\_565 = 0 not(TMP\_565) = 1 TMP\_566 = 1 not(TMP\_566) = 0 TMP\_567 = 1 not(TMP\_567) = 0 TMP\_568 = 1 not(TMP\_568) = 0 TMP\_569 = 2 TMP\_570 = 1 not(TMP\_570) = 0 TMP\_571 = 0 not(TMP\_571) = 1 TMP\_572 = 1 not(TMP\_572) = 0 TMP\_573 = 1 not(TMP\_573) = 0 TMP\_574 = 1 not(TMP\_574) = 0 TMP\_575 = 1 not(TMP\_575) = 0 TMP\_576 = 5 TMP\_577 = 0 not(TMP\_577) = 1 TMP\_578 = 0 not(TMP\_578) = 1 TMP\_579 = 0 TMP\_580 = 1 not(TMP\_580) = 0 TMP\_581 = 1 not(TMP\_581) = 0 TMP\_582 = 2 TMP\_583 = 0 not(TMP\_583) = 1 TMP\_584 = 0 not(TMP\_584) = 1 TMP\_585 = 1 not(TMP\_585) = 0 TMP\_586 = 1 not(TMP\_586) = 0 TMP\_587 = 1 not(TMP\_587) = 0 TMP\_588 = 2 TMP\_589 = 1 not(TMP\_589) = 0 TMP\_590 = 1 not(TMP\_590) = 0 TMP\_591 = 0 not(TMP\_591) = 1 TMP\_592 = 1 not(TMP\_592) = 0 TMP\_593 = 1 not(TMP\_593) = 0 TMP\_594 = 1 not(TMP\_594) = 0 TMP\_595 = 5 TMP\_596 = 0 not(TMP\_596) = 1 TMP\_597 = 0 not(TMP\_597) = 1 TMP\_598 = 0 TMP\_599 = 1 not(TMP\_599) = 0 TMP\_600 = 1 not(TMP\_600) = 0 TMP\_601 = 2 TMP\_602 = 0 not(TMP\_602) = 1 TMP\_603 = 0 not(TMP\_603) = 1 TMP\_604 = 1 not(TMP\_604) = 0 TMP\_605 = 1 not(TMP\_605) = 0 TMP\_606 = 1 not(TMP\_606) = 0 TMP\_607 = 2 TMP\_608 = 1 not(TMP\_608) = 0 TMP\_609 = 0 not(TMP\_609) = 1 TMP\_610 = 1 not(TMP\_610) = 0 TMP\_611 = 1 not(TMP\_611) = 0 TMP\_612 = 1 not(TMP\_612) = 0 TMP\_613 = 1 not(TMP\_613) = 0 TMP\_614 = 5 TMP\_615 = 0 not(TMP\_615) = 1 TMP\_616 = 0 not(TMP\_616) = 1 TMP\_617 = 0 TMP\_618 = 1 not(TMP\_618) = 0 TMP\_619 = 1 not(TMP\_619) = 0 TMP\_620 = 2 TMP\_621 = 0 not(TMP\_621) = 1 TMP\_622 = 0 not(TMP\_622) = 1 TMP\_623 = 1 not(TMP\_623) = 0 TMP\_624 = 1 not(TMP\_624) = 0 TMP\_625 = 1 not(TMP\_625) = 0 TMP\_626 = 2 TMP\_627 = 1 not(TMP\_627) = 0 TMP\_628 = 0 not(TMP\_628) = 1 TMP\_629 = 1 not(TMP\_629) = 0 TMP\_630 = 1 not(TMP\_630) = 0 TMP\_631 = 1 not(TMP\_631) = 0 TMP\_632 = 0 not(TMP\_632) = 1 TMP\_633 = 4 TMP\_634 = 0 not(TMP\_634) = 1 TMP\_635 = 0 not(TMP\_635) = 1 TMP\_636 = 0 TMP\_637 = 1 not(TMP\_637) = 0 TMP\_638 = 1 not(TMP\_638) = 0 TMP\_639 = 2 TMP\_640 = 0 not(TMP\_640) = 1 TMP\_641 = 0 not(TMP\_641) = 1 TMP\_642 = 1 not(TMP\_642) = 0 TMP\_643 = 1 not(TMP\_643) = 0 TMP\_644 = 1 not(TMP\_644) = 0 TMP\_645 = 2 TMP\_646 = 1 not(TMP\_646) = 0 TMP\_647 = 1 not(TMP\_647) = 0 TMP\_648 = 1 not(TMP\_648) = 0 TMP\_649 = 1 not(TMP\_649) = 0 TMP\_650 = 1 not(TMP\_650) = 0 TMP\_651 = 0 not(TMP\_651) = 1 TMP\_652 = 5 TMP\_653 = 0 not(TMP\_653) = 1 TMP\_654 = 0 not(TMP\_654) = 1 TMP\_655 = 0 TMP\_656 = 1 not(TMP\_656) = 0 TMP\_657 = 1 not(TMP\_657) = 0 TMP\_658 = 2 TMP\_659 = 0 not(TMP\_659) = 1 TMP\_660 = 0 not(TMP\_660) = 1 TMP\_661 = 1 not(TMP\_661) = 0 TMP\_662 = 1 not(TMP\_662) = 0 TMP\_663 = 1 not(TMP\_663) = 0 TMP\_664 = 2 Area\_0 = 60 Distance\_0\_Rule\_0 = 20 Distance\_1\_Rule\_0 = 3 Distance\_2\_Rule\_0 = 1 Area\_1 = 174 Distance\_0\_Rule\_1 = 58 Distance\_1\_Rule\_1 = 3 Distance\_2\_Rule\_1 = 1 Area\_2 = 116 Distance\_0\_Rule\_2 = 58 Distance\_1\_Rule\_2 = 2 Distance\_2\_Rule\_2 = 1 Area\_3 = 79 -(Rule\_3\_LB) = 0 Distance\_0\_Rule\_3 = 79 -(Rule\_3\_LB) = 0 Distance\_1\_Rule\_3 = 1 -(Rule\_3\_LB) = 0 Distance\_2\_Rule\_3 = 1 Area\_4 = 123 -(Rule\_4\_LB) = -79 Distance\_0\_Rule\_4 = 41 -(Rule\_4\_LB) = 0 Distance\_1\_Rule\_4 = 3 -(Rule\_4\_LB) = 0 Distance\_2\_Rule\_4 = 1 Area\_5 = 123 -(Rule\_5\_LB) = -79 Distance\_0\_Rule\_5 = 41 -(Rule\_5\_LB) = 0 Distance\_1\_Rule\_5 = 3 -(Rule\_5\_LB) = -1 Distance\_2\_Rule\_5 = 1 Area\_6 = 3 -(Rule\_6\_LB) = -20 Distance\_0\_Rule\_6 = 1 -(Rule\_6\_LB) = 0 Distance\_1\_Rule\_6 = 3 -(Rule\_6\_LB) = -1 Distance\_2\_Rule\_6 = 1 Area\_7 = 42 -(Rule\_7\_LB) = 0 Distance\_0\_Rule\_7 = 21 -(Rule\_7\_LB) = -1 Distance\_1\_Rule\_7 = 2 -(Rule\_7\_LB) = 0 Distance\_2\_Rule\_7 = 1 TMP\_665 = 720 .

- Solution #19 found. 19 Solutions, Resolution 3.302s, 23852 Nodes (7,224.2 n/s), 47623 Backtracks, 23801 Fails, 0 Restarts

Rule\_3\_LB = 0 Rule\_3\_UB = 79 Rule\_3\_LB = 0 Rule\_3\_UB = 1 Rule\_3\_LB = 0 Rule\_3\_UB = 1 Rule\_4\_LB = 79 Rule\_4\_UB = 120 Rule\_4\_LB = 0 Rule\_4\_UB = 3 Rule\_4\_LB = 0 Rule\_4\_UB = 1 Rule\_5\_LB = 79 Rule\_5\_UB = 120 Rule\_5\_LB = 0 Rule\_5\_UB = 3 Rule\_5\_LB = 1 Rule\_5\_UB = 2 Rule\_6\_LB = 20 Rule\_6\_UB = 21 Rule\_6\_LB = 0 Rule\_6\_UB = 3 Rule\_6\_LB = 1 Rule\_6\_UB = 2 Rule\_7\_LB = 0 Rule\_7\_UB = 21 Rule\_7\_LB = 1 Rule\_7\_UB = 3 Rule\_7\_LB = 0 Rule\_7\_UB = 1 Overlaps\_0\_0 = 0 Overlaps\_0\_1 = 1 Overlaps\_0\_2 = 0 Overlaps\_0\_3 = 0 Overlaps\_0\_4 = 0 Overlaps\_0\_5 = 0 Overlaps\_0\_6 = 0 Overlaps\_0\_7 = 0 Overlaps\_1\_0 = 1 Overlaps\_1\_1 = 0 Overlaps\_1\_2 = 0 Overlaps\_1\_3 = 0 Overlaps\_1\_4 = 0 Overlaps\_1\_5 = 0 Overlaps\_1\_6 = 0 Overlaps\_1\_7 = 0 Overlaps\_2\_0 = 0 Overlaps\_2\_1 = 0 Overlaps\_2\_2 = 0 Overlaps\_2\_3 = 0 Overlaps\_2\_4 = 0 Overlaps\_2\_5 = 0 Overlaps\_2\_6 = 0 Overlaps\_2\_7 = 0 Overlaps\_3\_0 = 0 Overlaps\_3\_1 = 0 Overlaps\_3\_2 = 0 Overlaps\_3\_3 = 0 Overlaps\_3\_4 = 0 Overlaps\_3\_5 = 0 Overlaps\_3\_6 = 0 Overlaps\_3\_7 = 0 Overlaps\_4\_0 = 0 Overlaps\_4\_1 = 0 Overlaps\_4\_2 = 0 Overlaps\_4\_3 = 0 Overlaps\_4\_4 = 0 Overlaps\_4\_5 = 0 Overlaps\_4\_6 = 0 Overlaps\_4\_7 = 0 Overlaps\_5\_0 = 0 Overlaps\_5\_1 = 0 Overlaps\_5\_2 = 0 Overlaps\_5\_3 = 0 Overlaps\_5\_4 = 0 Overlaps\_5\_5 = 0 Overlaps\_5\_6 = 0 Overlaps\_5\_7 = 0 Overlaps\_6\_0 = 0 Overlaps\_6\_1 = 0 Overlaps\_6\_2 = 0 Overlaps\_6\_3 = 0 Overlaps\_6\_4 = 0 Overlaps\_6\_5 = 0 Overlaps\_6\_6 = 0 Overlaps\_6\_7 = 0 Overlaps\_7\_0 = 0 Overlaps\_7\_1 = 0 Overlaps\_7\_2 = 0 Overlaps\_7\_3 = 0 Overlaps\_7\_4 = 0 Overlaps\_7\_5 = 0 Overlaps\_7\_6 = 0 Overlaps\_7\_7 = 0 TMP\_0 = 1 not(TMP\_0) = 0 TMP\_1 = 1 not(TMP\_1) = 0 TMP\_2 = 1 not(TMP\_2) = 0 TMP\_3 = 1 not(TMP\_3) = 0 TMP\_4 = 1 not(TMP\_4) = 0 TMP\_5 = 0 not(TMP\_5) = 1 TMP\_6 = 5 TMP\_7 = 0 not(TMP\_7) = 1 TMP\_8 = 0 not(TMP\_8) = 1 TMP\_9 = 0 TMP\_10 = 1 not(TMP\_10) = 0 TMP\_11 = 1 not(TMP\_11) = 0 TMP\_12 = 2 TMP\_13 = 0 not(TMP\_13) = 1 TMP\_14 = 0 not(TMP\_14) = 1 TMP\_15 = 1 not(TMP\_15) = 0 TMP\_16 = 1 not(TMP\_16) = 0 TMP\_17 = 1 not(TMP\_17) = 0 TMP\_18 = 2 TMP\_19 = 1 not(TMP\_19) = 0 TMP\_20 = 1 not(TMP\_20) = 0 TMP\_21 = 1 not(TMP\_21) = 0 TMP\_22 = 1 not(TMP\_22) = 0 TMP\_23 = 1 not(TMP\_23) = 0 TMP\_24 = 0 not(TMP\_24) = 1 TMP\_25 = 5 TMP\_26 = 0 not(TMP\_26) = 1 TMP\_27 = 0 not(TMP\_27) = 1 TMP\_28 = 0 TMP\_29 = 1 not(TMP\_29) = 0 TMP\_30 = 1 not(TMP\_30) = 0 TMP\_31 = 2 TMP\_32 = 0 not(TMP\_32) = 1 TMP\_33 = 0 not(TMP\_33) = 1 TMP\_34 = 1 not(TMP\_34) = 0 TMP\_35 = 1 not(TMP\_35) = 0 TMP\_36 = 1 not(TMP\_36) = 0 TMP\_37 = 2 TMP\_38 = 1 not(TMP\_38) = 0 TMP\_39 = 1 not(TMP\_39) = 0 TMP\_40 = 1 not(TMP\_40) = 0 TMP\_41 = 0 not(TMP\_41) = 1 TMP\_42 = 1 not(TMP\_42) = 0 TMP\_43 = 1 not(TMP\_43) = 0 TMP\_44 = 5 TMP\_45 = 0 not(TMP\_45) = 1 TMP\_46 = 0 not(TMP\_46) = 1 TMP\_47 = 0 TMP\_48 = 1 not(TMP\_48) = 0 TMP\_49 = 1 not(TMP\_49) = 0 TMP\_50 = 2 TMP\_51 = 0 not(TMP\_51) = 1 TMP\_52 = 0 not(TMP\_52) = 1 TMP\_53 = 1 not(TMP\_53) = 0 TMP\_54 = 1 not(TMP\_54) = 0 TMP\_55 = 1 not(TMP\_55) = 0 TMP\_56 = 2 TMP\_57 = 1 not(TMP\_57) = 0 TMP\_58 = 0 not(TMP\_58) = 1 TMP\_59 = 1 not(TMP\_59) = 0 TMP\_60 = 1 not(TMP\_60) = 0 TMP\_61 = 1 not(TMP\_61) = 0 TMP\_62 = 1 not(TMP\_62) = 0 TMP\_63 = 5 TMP\_64 = 0 not(TMP\_64) = 1 TMP\_65 = 0 not(TMP\_65) = 1 TMP\_66 = 0 TMP\_67 = 1 not(TMP\_67) = 0 TMP\_68 = 1 not(TMP\_68) = 0 TMP\_69 = 2 TMP\_70 = 0 not(TMP\_70) = 1 TMP\_71 = 0 not(TMP\_71) = 1 TMP\_72 = 1 not(TMP\_72) = 0 TMP\_73 = 1 not(TMP\_73) = 0 TMP\_74 = 1 not(TMP\_74) = 0 TMP\_75 = 2 TMP\_76 = 1 not(TMP\_76) = 0 TMP\_77 = 0 not(TMP\_77) = 1 TMP\_78 = 1 not(TMP\_78) = 0 TMP\_79 = 1 not(TMP\_79) = 0 TMP\_80 = 1 not(TMP\_80) = 0 TMP\_81 = 0 not(TMP\_81) = 1 TMP\_82 = 4 TMP\_83 = 0 not(TMP\_83) = 1 TMP\_84 = 0 not(TMP\_84) = 1 TMP\_85 = 0 TMP\_86 = 1 not(TMP\_86) = 0 TMP\_87 = 1 not(TMP\_87) = 0 TMP\_88 = 2 TMP\_89 = 0 not(TMP\_89) = 1 TMP\_90 = 0 not(TMP\_90) = 1 TMP\_91 = 1 not(TMP\_91) = 0 TMP\_92 = 1 not(TMP\_92) = 0 TMP\_93 = 1 not(TMP\_93) = 0 TMP\_94 = 2 TMP\_95 = 1 not(TMP\_95) = 0 TMP\_96 = 1 not(TMP\_96) = 0 TMP\_97 = 1 not(TMP\_97) = 0 TMP\_98 = 1 not(TMP\_98) = 0 TMP\_99 = 1 not(TMP\_99) = 0 TMP\_100 = 0 not(TMP\_100) = 1 TMP\_101 = 5 TMP\_102 = 0 not(TMP\_102) = 1 TMP\_103 = 0 not(TMP\_103) = 1 TMP\_104 = 0 TMP\_105 = 1 not(TMP\_105) = 0 TMP\_106 = 1 not(TMP\_106) = 0 TMP\_107 = 2 TMP\_108 = 0 not(TMP\_108) = 1 TMP\_109 = 0 not(TMP\_109) = 1 TMP\_110 = 1 not(TMP\_110) = 0 TMP\_111 = 1 not(TMP\_111) = 0 TMP\_112 = 1 not(TMP\_112) = 0 TMP\_113 = 2 TMP\_114 = 1 not(TMP\_114) = 0 TMP\_115 = 1 not(TMP\_115) = 0 TMP\_116 = 1 not(TMP\_116) = 0 TMP\_117 = 0 not(TMP\_117) = 1 TMP\_118 = 1 not(TMP\_118) = 0 TMP\_119 = 1 not(TMP\_119) = 0 TMP\_120 = 5 TMP\_121 = 0 not(TMP\_121) = 1 TMP\_122 = 0 not(TMP\_122) = 1 TMP\_123 = 0 TMP\_124 = 1 not(TMP\_124) = 0 TMP\_125 = 1 not(TMP\_125) = 0 TMP\_126 = 2 TMP\_127 = 0 not(TMP\_127) = 1 TMP\_128 = 0 not(TMP\_128) = 1 TMP\_129 = 1 not(TMP\_129) = 0 TMP\_130 = 1 not(TMP\_130) = 0 TMP\_131 = 1 not(TMP\_131) = 0 TMP\_132 = 2 TMP\_133 = 0 not(TMP\_133) = 1 TMP\_134 = 1 not(TMP\_134) = 0 TMP\_135 = 1 not(TMP\_135) = 0 TMP\_136 = 1 not(TMP\_136) = 0 TMP\_137 = 1 not(TMP\_137) = 0 TMP\_138 = 0 not(TMP\_138) = 1 TMP\_139 = 4 TMP\_140 = 0 not(TMP\_140) = 1 TMP\_141 = 0 not(TMP\_141) = 1 TMP\_142 = 0 TMP\_143 = 1 not(TMP\_143) = 0 TMP\_144 = 1 not(TMP\_144) = 0 TMP\_145 = 2 TMP\_146 = 0 not(TMP\_146) = 1 TMP\_147 = 0 not(TMP\_147) = 1 TMP\_148 = 1 not(TMP\_148) = 0 TMP\_149 = 1 not(TMP\_149) = 0 TMP\_150 = 1 not(TMP\_150) = 0 TMP\_151 = 2 TMP\_152 = 0 not(TMP\_152) = 1 TMP\_153 = 1 not(TMP\_153) = 0 TMP\_154 = 1 not(TMP\_154) = 0 TMP\_155 = 1 not(TMP\_155) = 0 TMP\_156 = 1 not(TMP\_156) = 0 TMP\_157 = 0 not(TMP\_157) = 1 TMP\_158 = 4 TMP\_159 = 0 not(TMP\_159) = 1 TMP\_160 = 0 not(TMP\_160) = 1 TMP\_161 = 0 TMP\_162 = 1 not(TMP\_162) = 0 TMP\_163 = 1 not(TMP\_163) = 0 TMP\_164 = 2 TMP\_165 = 0 not(TMP\_165) = 1 TMP\_166 = 0 not(TMP\_166) = 1 TMP\_167 = 1 not(TMP\_167) = 0 TMP\_168 = 1 not(TMP\_168) = 0 TMP\_169 = 1 not(TMP\_169) = 0 TMP\_170 = 2 TMP\_171 = 0 not(TMP\_171) = 1 TMP\_172 = 1 not(TMP\_172) = 0 TMP\_173 = 1 not(TMP\_173) = 0 TMP\_174 = 1 not(TMP\_174) = 0 TMP\_175 = 1 not(TMP\_175) = 0 TMP\_176 = 1 not(TMP\_176) = 0 TMP\_177 = 5 TMP\_178 = 0 not(TMP\_178) = 1 TMP\_179 = 0 not(TMP\_179) = 1 TMP\_180 = 0 TMP\_181 = 1 not(TMP\_181) = 0 TMP\_182 = 1 not(TMP\_182) = 0 TMP\_183 = 2 TMP\_184 = 0 not(TMP\_184) = 1 TMP\_185 = 0 not(TMP\_185) = 1 TMP\_186 = 1 not(TMP\_186) = 0 TMP\_187 = 1 not(TMP\_187) = 0 TMP\_188 = 1 not(TMP\_188) = 0 TMP\_189 = 2 TMP\_190 = 0 not(TMP\_190) = 1 TMP\_191 = 1 not(TMP\_191) = 0 TMP\_192 = 1 not(TMP\_192) = 0 TMP\_193 = 1 not(TMP\_193) = 0 TMP\_194 = 1 not(TMP\_194) = 0 TMP\_195 = 1 not(TMP\_195) = 0 TMP\_196 = 5 TMP\_197 = 0 not(TMP\_197) = 1 TMP\_198 = 0 not(TMP\_198) = 1 TMP\_199 = 0 TMP\_200 = 1 not(TMP\_200) = 0 TMP\_201 = 1 not(TMP\_201) = 0 TMP\_202 = 2 TMP\_203 = 0 not(TMP\_203) = 1 TMP\_204 = 0 not(TMP\_204) = 1 TMP\_205 = 1 not(TMP\_205) = 0 TMP\_206 = 1 not(TMP\_206) = 0 TMP\_207 = 1 not(TMP\_207) = 0 TMP\_208 = 2 TMP\_209 = 1 not(TMP\_209) = 0 TMP\_210 = 1 not(TMP\_210) = 0 TMP\_211 = 1 not(TMP\_211) = 0 TMP\_212 = 1 not(TMP\_212) = 0 TMP\_213 = 1 not(TMP\_213) = 0 TMP\_214 = 0 not(TMP\_214) = 1 TMP\_215 = 5 TMP\_216 = 0 not(TMP\_216) = 1 TMP\_217 = 0 not(TMP\_217) = 1 TMP\_218 = 0 TMP\_219 = 1 not(TMP\_219) = 0 TMP\_220 = 1 not(TMP\_220) = 0 TMP\_221 = 2 TMP\_222 = 0 not(TMP\_222) = 1 TMP\_223 = 0 not(TMP\_223) = 1 TMP\_224 = 1 not(TMP\_224) = 0 TMP\_225 = 1 not(TMP\_225) = 0 TMP\_226 = 1 not(TMP\_226) = 0 TMP\_227 = 2 TMP\_228 = 0 not(TMP\_228) = 1 TMP\_229 = 1 not(TMP\_229) = 0 TMP\_230 = 1 not(TMP\_230) = 0 TMP\_231 = 1 not(TMP\_231) = 0 TMP\_232 = 1 not(TMP\_232) = 0 TMP\_233 = 0 not(TMP\_233) = 1 TMP\_234 = 4 TMP\_235 = 0 not(TMP\_235) = 1 TMP\_236 = 0 not(TMP\_236) = 1 TMP\_237 = 0 TMP\_238 = 1 not(TMP\_238) = 0 TMP\_239 = 1 not(TMP\_239) = 0 TMP\_240 = 2 TMP\_241 = 0 not(TMP\_241) = 1 TMP\_242 = 0 not(TMP\_242) = 1 TMP\_243 = 1 not(TMP\_243) = 0 TMP\_244 = 1 not(TMP\_244) = 0 TMP\_245 = 1 not(TMP\_245) = 0 TMP\_246 = 2 TMP\_247 = 0 not(TMP\_247) = 1 TMP\_248 = 1 not(TMP\_248) = 0 TMP\_249 = 1 not(TMP\_249) = 0 TMP\_250 = 1 not(TMP\_250) = 0 TMP\_251 = 1 not(TMP\_251) = 0 TMP\_252 = 1 not(TMP\_252) = 0 TMP\_253 = 5 TMP\_254 = 0 not(TMP\_254) = 1 TMP\_255 = 0 not(TMP\_255) = 1 TMP\_256 = 0 TMP\_257 = 1 not(TMP\_257) = 0 TMP\_258 = 1 not(TMP\_258) = 0 TMP\_259 = 2 TMP\_260 = 0 not(TMP\_260) = 1 TMP\_261 = 0 not(TMP\_261) = 1 TMP\_262 = 1 not(TMP\_262) = 0 TMP\_263 = 1 not(TMP\_263) = 0 TMP\_264 = 1 not(TMP\_264) = 0 TMP\_265 = 2 TMP\_266 = 0 not(TMP\_266) = 1 TMP\_267 = 1 not(TMP\_267) = 0 TMP\_268 = 1 not(TMP\_268) = 0 TMP\_269 = 1 not(TMP\_269) = 0 TMP\_270 = 1 not(TMP\_270) = 0 TMP\_271 = 1 not(TMP\_271) = 0 TMP\_272 = 5 TMP\_273 = 0 not(TMP\_273) = 1 TMP\_274 = 0 not(TMP\_274) = 1 TMP\_275 = 0 TMP\_276 = 1 not(TMP\_276) = 0 TMP\_277 = 1 not(TMP\_277) = 0 TMP\_278 = 2 TMP\_279 = 0 not(TMP\_279) = 1 TMP\_280 = 0 not(TMP\_280) = 1 TMP\_281 = 1 not(TMP\_281) = 0 TMP\_282 = 1 not(TMP\_282) = 0 TMP\_283 = 1 not(TMP\_283) = 0 TMP\_284 = 2 TMP\_285 = 0 not(TMP\_285) = 1 TMP\_286 = 1 not(TMP\_286) = 0 TMP\_287 = 1 not(TMP\_287) = 0 TMP\_288 = 1 not(TMP\_288) = 0 TMP\_289 = 1 not(TMP\_289) = 0 TMP\_290 = 1 not(TMP\_290) = 0 TMP\_291 = 5 TMP\_292 = 0 not(TMP\_292) = 1 TMP\_293 = 0 not(TMP\_293) = 1 TMP\_294 = 0 TMP\_295 = 1 not(TMP\_295) = 0 TMP\_296 = 1 not(TMP\_296) = 0 TMP\_297 = 2 TMP\_298 = 0 not(TMP\_298) = 1 TMP\_299 = 0 not(TMP\_299) = 1 TMP\_300 = 1 not(TMP\_300) = 0 TMP\_301 = 1 not(TMP\_301) = 0 TMP\_302 = 1 not(TMP\_302) = 0 TMP\_303 = 2 TMP\_304 = 0 not(TMP\_304) = 1 TMP\_305 = 1 not(TMP\_305) = 0 TMP\_306 = 1 not(TMP\_306) = 0 TMP\_307 = 1 not(TMP\_307) = 0 TMP\_308 = 0 not(TMP\_308) = 1 TMP\_309 = 1 not(TMP\_309) = 0 TMP\_310 = 4 TMP\_311 = 0 not(TMP\_311) = 1 TMP\_312 = 0 not(TMP\_312) = 1 TMP\_313 = 0 TMP\_314 = 1 not(TMP\_314) = 0 TMP\_315 = 1 not(TMP\_315) = 0 TMP\_316 = 2 TMP\_317 = 0 not(TMP\_317) = 1 TMP\_318 = 0 not(TMP\_318) = 1 TMP\_319 = 1 not(TMP\_319) = 0 TMP\_320 = 1 not(TMP\_320) = 0 TMP\_321 = 1 not(TMP\_321) = 0 TMP\_322 = 2 TMP\_323 = 0 not(TMP\_323) = 1 TMP\_324 = 1 not(TMP\_324) = 0 TMP\_325 = 1 not(TMP\_325) = 0 TMP\_326 = 1 not(TMP\_326) = 0 TMP\_327 = 0 not(TMP\_327) = 1 TMP\_328 = 1 not(TMP\_328) = 0 TMP\_329 = 4 TMP\_330 = 0 not(TMP\_330) = 1 TMP\_331 = 0 not(TMP\_331) = 1 TMP\_332 = 0 TMP\_333 = 1 not(TMP\_333) = 0 TMP\_334 = 1 not(TMP\_334) = 0 TMP\_335 = 2 TMP\_336 = 0 not(TMP\_336) = 1 TMP\_337 = 0 not(TMP\_337) = 1 TMP\_338 = 1 not(TMP\_338) = 0 TMP\_339 = 1 not(TMP\_339) = 0 TMP\_340 = 1 not(TMP\_340) = 0 TMP\_341 = 2 TMP\_342 = 1 not(TMP\_342) = 0 TMP\_343 = 1 not(TMP\_343) = 0 TMP\_344 = 1 not(TMP\_344) = 0 TMP\_345 = 1 not(TMP\_345) = 0 TMP\_346 = 0 not(TMP\_346) = 1 TMP\_347 = 1 not(TMP\_347) = 0 TMP\_348 = 5 TMP\_349 = 0 not(TMP\_349) = 1 TMP\_350 = 0 not(TMP\_350) = 1 TMP\_351 = 0 TMP\_352 = 1 not(TMP\_352) = 0 TMP\_353 = 1 not(TMP\_353) = 0 TMP\_354 = 2 TMP\_355 = 0 not(TMP\_355) = 1 TMP\_356 = 0 not(TMP\_356) = 1 TMP\_357 = 1 not(TMP\_357) = 0 TMP\_358 = 1 not(TMP\_358) = 0 TMP\_359 = 1 not(TMP\_359) = 0 TMP\_360 = 2 TMP\_361 = 0 not(TMP\_361) = 1 TMP\_362 = 1 not(TMP\_362) = 0 TMP\_363 = 1 not(TMP\_363) = 0 TMP\_364 = 1 not(TMP\_364) = 0 TMP\_365 = 1 not(TMP\_365) = 0 TMP\_366 = 1 not(TMP\_366) = 0 TMP\_367 = 5 TMP\_368 = 0 not(TMP\_368) = 1 TMP\_369 = 0 not(TMP\_369) = 1 TMP\_370 = 0 TMP\_371 = 1 not(TMP\_371) = 0 TMP\_372 = 1 not(TMP\_372) = 0 TMP\_373 = 2 TMP\_374 = 0 not(TMP\_374) = 1 TMP\_375 = 0 not(TMP\_375) = 1 TMP\_376 = 1 not(TMP\_376) = 0 TMP\_377 = 1 not(TMP\_377) = 0 TMP\_378 = 1 not(TMP\_378) = 0 TMP\_379 = 2 TMP\_380 = 0 not(TMP\_380) = 1 TMP\_381 = 1 not(TMP\_381) = 0 TMP\_382 = 1 not(TMP\_382) = 0 TMP\_383 = 1 not(TMP\_383) = 0 TMP\_384 = 0 not(TMP\_384) = 1 TMP\_385 = 1 not(TMP\_385) = 0 TMP\_386 = 4 TMP\_387 = 0 not(TMP\_387) = 1 TMP\_388 = 0 not(TMP\_388) = 1 TMP\_389 = 0 TMP\_390 = 1 not(TMP\_390) = 0 TMP\_391 = 1 not(TMP\_391) = 0 TMP\_392 = 2 TMP\_393 = 0 not(TMP\_393) = 1 TMP\_394 = 0 not(TMP\_394) = 1 TMP\_395 = 1 not(TMP\_395) = 0 TMP\_396 = 1 not(TMP\_396) = 0 TMP\_397 = 1 not(TMP\_397) = 0 TMP\_398 = 2 TMP\_399 = 0 not(TMP\_399) = 1 TMP\_400 = 1 not(TMP\_400) = 0 TMP\_401 = 1 not(TMP\_401) = 0 TMP\_402 = 1 not(TMP\_402) = 0 TMP\_403 = 1 not(TMP\_403) = 0 TMP\_404 = 1 not(TMP\_404) = 0 TMP\_405 = 5 TMP\_406 = 0 not(TMP\_406) = 1 TMP\_407 = 0 not(TMP\_407) = 1 TMP\_408 = 0 TMP\_409 = 1 not(TMP\_409) = 0 TMP\_410 = 1 not(TMP\_410) = 0 TMP\_411 = 2 TMP\_412 = 0 not(TMP\_412) = 1 TMP\_413 = 0 not(TMP\_413) = 1 TMP\_414 = 1 not(TMP\_414) = 0 TMP\_415 = 1 not(TMP\_415) = 0 TMP\_416 = 1 not(TMP\_416) = 0 TMP\_417 = 2 TMP\_418 = 1 not(TMP\_418) = 0 TMP\_419 = 0 not(TMP\_419) = 1 TMP\_420 = 1 not(TMP\_420) = 0 TMP\_421 = 1 not(TMP\_421) = 0 TMP\_422 = 1 not(TMP\_422) = 0 TMP\_423 = 1 not(TMP\_423) = 0 TMP\_424 = 5 TMP\_425 = 0 not(TMP\_425) = 1 TMP\_426 = 0 not(TMP\_426) = 1 TMP\_427 = 0 TMP\_428 = 1 not(TMP\_428) = 0 TMP\_429 = 1 not(TMP\_429) = 0 TMP\_430 = 2 TMP\_431 = 0 not(TMP\_431) = 1 TMP\_432 = 0 not(TMP\_432) = 1 TMP\_433 = 1 not(TMP\_433) = 0 TMP\_434 = 1 not(TMP\_434) = 0 TMP\_435 = 1 not(TMP\_435) = 0 TMP\_436 = 2 TMP\_437 = 1 not(TMP\_437) = 0 TMP\_438 = 0 not(TMP\_438) = 1 TMP\_439 = 1 not(TMP\_439) = 0 TMP\_440 = 1 not(TMP\_440) = 0 TMP\_441 = 0 not(TMP\_441) = 1 TMP\_442 = 1 not(TMP\_442) = 0 TMP\_443 = 4 TMP\_444 = 0 not(TMP\_444) = 1 TMP\_445 = 0 not(TMP\_445) = 1 TMP\_446 = 0 TMP\_447 = 1 not(TMP\_447) = 0 TMP\_448 = 1 not(TMP\_448) = 0 TMP\_449 = 2 TMP\_450 = 0 not(TMP\_450) = 1 TMP\_451 = 0 not(TMP\_451) = 1 TMP\_452 = 1 not(TMP\_452) = 0 TMP\_453 = 1 not(TMP\_453) = 0 TMP\_454 = 1 not(TMP\_454) = 0 TMP\_455 = 2 TMP\_456 = 1 not(TMP\_456) = 0 TMP\_457 = 1 not(TMP\_457) = 0 TMP\_458 = 1 not(TMP\_458) = 0 TMP\_459 = 1 not(TMP\_459) = 0 TMP\_460 = 0 not(TMP\_460) = 1 TMP\_461 = 1 not(TMP\_461) = 0 TMP\_462 = 5 TMP\_463 = 0 not(TMP\_463) = 1 TMP\_464 = 0 not(TMP\_464) = 1 TMP\_465 = 0 TMP\_466 = 1 not(TMP\_466) = 0 TMP\_467 = 1 not(TMP\_467) = 0 TMP\_468 = 2 TMP\_469 = 0 not(TMP\_469) = 1 TMP\_470 = 0 not(TMP\_470) = 1 TMP\_471 = 1 not(TMP\_471) = 0 TMP\_472 = 1 not(TMP\_472) = 0 TMP\_473 = 1 not(TMP\_473) = 0 TMP\_474 = 2 TMP\_475 = 1 not(TMP\_475) = 0 TMP\_476 = 0 not(TMP\_476) = 1 TMP\_477 = 1 not(TMP\_477) = 0 TMP\_478 = 1 not(TMP\_478) = 0 TMP\_479 = 0 not(TMP\_479) = 1 TMP\_480 = 1 not(TMP\_480) = 0 TMP\_481 = 4 TMP\_482 = 0 not(TMP\_482) = 1 TMP\_483 = 0 not(TMP\_483) = 1 TMP\_484 = 0 TMP\_485 = 1 not(TMP\_485) = 0 TMP\_486 = 1 not(TMP\_486) = 0 TMP\_487 = 2 TMP\_488 = 0 not(TMP\_488) = 1 TMP\_489 = 0 not(TMP\_489) = 1 TMP\_490 = 1 not(TMP\_490) = 0 TMP\_491 = 1 not(TMP\_491) = 0 TMP\_492 = 1 not(TMP\_492) = 0 TMP\_493 = 2 TMP\_494 = 1 not(TMP\_494) = 0 TMP\_495 = 0 not(TMP\_495) = 1 TMP\_496 = 1 not(TMP\_496) = 0 TMP\_497 = 1 not(TMP\_497) = 0 TMP\_498 = 1 not(TMP\_498) = 0 TMP\_499 = 1 not(TMP\_499) = 0 TMP\_500 = 5 TMP\_501 = 0 not(TMP\_501) = 1 TMP\_502 = 0 not(TMP\_502) = 1 TMP\_503 = 0 TMP\_504 = 1 not(TMP\_504) = 0 TMP\_505 = 1 not(TMP\_505) = 0 TMP\_506 = 2 TMP\_507 = 0 not(TMP\_507) = 1 TMP\_508 = 0 not(TMP\_508) = 1 TMP\_509 = 1 not(TMP\_509) = 0 TMP\_510 = 1 not(TMP\_510) = 0 TMP\_511 = 1 not(TMP\_511) = 0 TMP\_512 = 2 TMP\_513 = 1 not(TMP\_513) = 0 TMP\_514 = 1 not(TMP\_514) = 0 TMP\_515 = 1 not(TMP\_515) = 0 TMP\_516 = 1 not(TMP\_516) = 0 TMP\_517 = 0 not(TMP\_517) = 1 TMP\_518 = 1 not(TMP\_518) = 0 TMP\_519 = 5 TMP\_520 = 0 not(TMP\_520) = 1 TMP\_521 = 0 not(TMP\_521) = 1 TMP\_522 = 0 TMP\_523 = 1 not(TMP\_523) = 0 TMP\_524 = 1 not(TMP\_524) = 0 TMP\_525 = 2 TMP\_526 = 0 not(TMP\_526) = 1 TMP\_527 = 0 not(TMP\_527) = 1 TMP\_528 = 1 not(TMP\_528) = 0 TMP\_529 = 1 not(TMP\_529) = 0 TMP\_530 = 1 not(TMP\_530) = 0 TMP\_531 = 2 TMP\_532 = 1 not(TMP\_532) = 0 TMP\_533 = 1 not(TMP\_533) = 0 TMP\_534 = 1 not(TMP\_534) = 0 TMP\_535 = 1 not(TMP\_535) = 0 TMP\_536 = 1 not(TMP\_536) = 0 TMP\_537 = 0 not(TMP\_537) = 1 TMP\_538 = 5 TMP\_539 = 0 not(TMP\_539) = 1 TMP\_540 = 0 not(TMP\_540) = 1 TMP\_541 = 0 TMP\_542 = 1 not(TMP\_542) = 0 TMP\_543 = 1 not(TMP\_543) = 0 TMP\_544 = 2 TMP\_545 = 0 not(TMP\_545) = 1 TMP\_546 = 0 not(TMP\_546) = 1 TMP\_547 = 1 not(TMP\_547) = 0 TMP\_548 = 1 not(TMP\_548) = 0 TMP\_549 = 1 not(TMP\_549) = 0 TMP\_550 = 2 TMP\_551 = 1 not(TMP\_551) = 0 TMP\_552 = 0 not(TMP\_552) = 1 TMP\_553 = 1 not(TMP\_553) = 0 TMP\_554 = 1 not(TMP\_554) = 0 TMP\_555 = 1 not(TMP\_555) = 0 TMP\_556 = 0 not(TMP\_556) = 1 TMP\_557 = 4 TMP\_558 = 0 not(TMP\_558) = 1 TMP\_559 = 0 not(TMP\_559) = 1 TMP\_560 = 0 TMP\_561 = 1 not(TMP\_561) = 0 TMP\_562 = 1 not(TMP\_562) = 0 TMP\_563 = 2 TMP\_564 = 0 not(TMP\_564) = 1 TMP\_565 = 0 not(TMP\_565) = 1 TMP\_566 = 1 not(TMP\_566) = 0 TMP\_567 = 1 not(TMP\_567) = 0 TMP\_568 = 1 not(TMP\_568) = 0 TMP\_569 = 2 TMP\_570 = 1 not(TMP\_570) = 0 TMP\_571 = 0 not(TMP\_571) = 1 TMP\_572 = 1 not(TMP\_572) = 0 TMP\_573 = 1 not(TMP\_573) = 0 TMP\_574 = 1 not(TMP\_574) = 0 TMP\_575 = 1 not(TMP\_575) = 0 TMP\_576 = 5 TMP\_577 = 0 not(TMP\_577) = 1 TMP\_578 = 0 not(TMP\_578) = 1 TMP\_579 = 0 TMP\_580 = 1 not(TMP\_580) = 0 TMP\_581 = 1 not(TMP\_581) = 0 TMP\_582 = 2 TMP\_583 = 0 not(TMP\_583) = 1 TMP\_584 = 0 not(TMP\_584) = 1 TMP\_585 = 1 not(TMP\_585) = 0 TMP\_586 = 1 not(TMP\_586) = 0 TMP\_587 = 1 not(TMP\_587) = 0 TMP\_588 = 2 TMP\_589 = 1 not(TMP\_589) = 0 TMP\_590 = 1 not(TMP\_590) = 0 TMP\_591 = 0 not(TMP\_591) = 1 TMP\_592 = 1 not(TMP\_592) = 0 TMP\_593 = 1 not(TMP\_593) = 0 TMP\_594 = 1 not(TMP\_594) = 0 TMP\_595 = 5 TMP\_596 = 0 not(TMP\_596) = 1 TMP\_597 = 0 not(TMP\_597) = 1 TMP\_598 = 0 TMP\_599 = 1 not(TMP\_599) = 0 TMP\_600 = 1 not(TMP\_600) = 0 TMP\_601 = 2 TMP\_602 = 0 not(TMP\_602) = 1 TMP\_603 = 0 not(TMP\_603) = 1 TMP\_604 = 1 not(TMP\_604) = 0 TMP\_605 = 1 not(TMP\_605) = 0 TMP\_606 = 1 not(TMP\_606) = 0 TMP\_607 = 2 TMP\_608 = 1 not(TMP\_608) = 0 TMP\_609 = 0 not(TMP\_609) = 1 TMP\_610 = 1 not(TMP\_610) = 0 TMP\_611 = 1 not(TMP\_611) = 0 TMP\_612 = 1 not(TMP\_612) = 0 TMP\_613 = 1 not(TMP\_613) = 0 TMP\_614 = 5 TMP\_615 = 0 not(TMP\_615) = 1 TMP\_616 = 0 not(TMP\_616) = 1 TMP\_617 = 0 TMP\_618 = 1 not(TMP\_618) = 0 TMP\_619 = 1 not(TMP\_619) = 0 TMP\_620 = 2 TMP\_621 = 0 not(TMP\_621) = 1 TMP\_622 = 0 not(TMP\_622) = 1 TMP\_623 = 1 not(TMP\_623) = 0 TMP\_624 = 1 not(TMP\_624) = 0 TMP\_625 = 1 not(TMP\_625) = 0 TMP\_626 = 2 TMP\_627 = 1 not(TMP\_627) = 0 TMP\_628 = 0 not(TMP\_628) = 1 TMP\_629 = 1 not(TMP\_629) = 0 TMP\_630 = 1 not(TMP\_630) = 0 TMP\_631 = 1 not(TMP\_631) = 0 TMP\_632 = 0 not(TMP\_632) = 1 TMP\_633 = 4 TMP\_634 = 0 not(TMP\_634) = 1 TMP\_635 = 0 not(TMP\_635) = 1 TMP\_636 = 0 TMP\_637 = 1 not(TMP\_637) = 0 TMP\_638 = 1 not(TMP\_638) = 0 TMP\_639 = 2 TMP\_640 = 0 not(TMP\_640) = 1 TMP\_641 = 0 not(TMP\_641) = 1 TMP\_642 = 1 not(TMP\_642) = 0 TMP\_643 = 1 not(TMP\_643) = 0 TMP\_644 = 1 not(TMP\_644) = 0 TMP\_645 = 2 TMP\_646 = 1 not(TMP\_646) = 0 TMP\_647 = 1 not(TMP\_647) = 0 TMP\_648 = 1 not(TMP\_648) = 0 TMP\_649 = 1 not(TMP\_649) = 0 TMP\_650 = 1 not(TMP\_650) = 0 TMP\_651 = 0 not(TMP\_651) = 1 TMP\_652 = 5 TMP\_653 = 0 not(TMP\_653) = 1 TMP\_654 = 0 not(TMP\_654) = 1 TMP\_655 = 0 TMP\_656 = 1 not(TMP\_656) = 0 TMP\_657 = 1 not(TMP\_657) = 0 TMP\_658 = 2 TMP\_659 = 0 not(TMP\_659) = 1 TMP\_660 = 0 not(TMP\_660) = 1 TMP\_661 = 1 not(TMP\_661) = 0 TMP\_662 = 1 not(TMP\_662) = 0 TMP\_663 = 1 not(TMP\_663) = 0 TMP\_664 = 2 Area\_0 = 60 Distance\_0\_Rule\_0 = 20 Distance\_1\_Rule\_0 = 3 Distance\_2\_Rule\_0 = 1 Area\_1 = 174 Distance\_0\_Rule\_1 = 58 Distance\_1\_Rule\_1 = 3 Distance\_2\_Rule\_1 = 1 Area\_2 = 116 Distance\_0\_Rule\_2 = 58 Distance\_1\_Rule\_2 = 2 Distance\_2\_Rule\_2 = 1 Area\_3 = 79 -(Rule\_3\_LB) = 0 Distance\_0\_Rule\_3 = 79 -(Rule\_3\_LB) = 0 Distance\_1\_Rule\_3 = 1 -(Rule\_3\_LB) = 0 Distance\_2\_Rule\_3 = 1 Area\_4 = 123 -(Rule\_4\_LB) = -79 Distance\_0\_Rule\_4 = 41 -(Rule\_4\_LB) = 0 Distance\_1\_Rule\_4 = 3 -(Rule\_4\_LB) = 0 Distance\_2\_Rule\_4 = 1 Area\_5 = 123 -(Rule\_5\_LB) = -79 Distance\_0\_Rule\_5 = 41 -(Rule\_5\_LB) = 0 Distance\_1\_Rule\_5 = 3 -(Rule\_5\_LB) = -1 Distance\_2\_Rule\_5 = 1 Area\_6 = 3 -(Rule\_6\_LB) = -20 Distance\_0\_Rule\_6 = 1 -(Rule\_6\_LB) = 0 Distance\_1\_Rule\_6 = 3 -(Rule\_6\_LB) = -1 Distance\_2\_Rule\_6 = 1 Area\_7 = 42 -(Rule\_7\_LB) = 0 Distance\_0\_Rule\_7 = 21 -(Rule\_7\_LB) = -1 Distance\_1\_Rule\_7 = 2 -(Rule\_7\_LB) = 0 Distance\_2\_Rule\_7 = 1 TMP\_665 = 720 .

- Solution #20 found. 20 Solutions, Resolution 3.304s, 23853 Nodes (7,220.2 n/s), 47624 Backtracks, 23801 Fails, 0 Restarts

Rule\_3\_LB = 0 Rule\_3\_UB = 79 Rule\_3\_LB = 0 Rule\_3\_UB = 1 Rule\_3\_LB = 0 Rule\_3\_UB = 1 Rule\_4\_LB = 79 Rule\_4\_UB = 120 Rule\_4\_LB = 0 Rule\_4\_UB = 3 Rule\_4\_LB = 0 Rule\_4\_UB = 1 Rule\_5\_LB = 79 Rule\_5\_UB = 120 Rule\_5\_LB = 0 Rule\_5\_UB = 3 Rule\_5\_LB = 1 Rule\_5\_UB = 2 Rule\_6\_LB = 20 Rule\_6\_UB = 21 Rule\_6\_LB = 0 Rule\_6\_UB = 3 Rule\_6\_LB = 1 Rule\_6\_UB = 2 Rule\_7\_LB = 0 Rule\_7\_UB = 21 Rule\_7\_LB = 1 Rule\_7\_UB = 3 Rule\_7\_LB = 0 Rule\_7\_UB = 1 Overlaps\_0\_0 = 0 Overlaps\_0\_1 = 1 Overlaps\_0\_2 = 0 Overlaps\_0\_3 = 0 Overlaps\_0\_4 = 0 Overlaps\_0\_5 = 0 Overlaps\_0\_6 = 0 Overlaps\_0\_7 = 0 Overlaps\_1\_0 = 1 Overlaps\_1\_1 = 0 Overlaps\_1\_2 = 0 Overlaps\_1\_3 = 0 Overlaps\_1\_4 = 0 Overlaps\_1\_5 = 0 Overlaps\_1\_6 = 0 Overlaps\_1\_7 = 0 Overlaps\_2\_0 = 1 Overlaps\_2\_1 = 0 Overlaps\_2\_2 = 0 Overlaps\_2\_3 = 0 Overlaps\_2\_4 = 0 Overlaps\_2\_5 = 0 Overlaps\_2\_6 = 0 Overlaps\_2\_7 = 0 Overlaps\_3\_0 = 0 Overlaps\_3\_1 = 0 Overlaps\_3\_2 = 0 Overlaps\_3\_3 = 0 Overlaps\_3\_4 = 0 Overlaps\_3\_5 = 0 Overlaps\_3\_6 = 0 Overlaps\_3\_7 = 0 Overlaps\_4\_0 = 0 Overlaps\_4\_1 = 0 Overlaps\_4\_2 = 0 Overlaps\_4\_3 = 0 Overlaps\_4\_4 = 0 Overlaps\_4\_5 = 0 Overlaps\_4\_6 = 0 Overlaps\_4\_7 = 0 Overlaps\_5\_0 = 0 Overlaps\_5\_1 = 0 Overlaps\_5\_2 = 0 Overlaps\_5\_3 = 0 Overlaps\_5\_4 = 0 Overlaps\_5\_5 = 0 Overlaps\_5\_6 = 0 Overlaps\_5\_7 = 0 Overlaps\_6\_0 = 0 Overlaps\_6\_1 = 0 Overlaps\_6\_2 = 0 Overlaps\_6\_3 = 0 Overlaps\_6\_4 = 0 Overlaps\_6\_5 = 0 Overlaps\_6\_6 = 0 Overlaps\_6\_7 = 0 Overlaps\_7\_0 = 0 Overlaps\_7\_1 = 0 Overlaps\_7\_2 = 0 Overlaps\_7\_3 = 0 Overlaps\_7\_4 = 0 Overlaps\_7\_5 = 0 Overlaps\_7\_6 = 0 Overlaps\_7\_7 = 0 TMP\_0 = 1 not(TMP\_0) = 0 TMP\_1 = 1 not(TMP\_1) = 0 TMP\_2 = 1 not(TMP\_2) = 0 TMP\_3 = 1 not(TMP\_3) = 0 TMP\_4 = 1 not(TMP\_4) = 0 TMP\_5 = 0 not(TMP\_5) = 1 TMP\_6 = 5 TMP\_7 = 0 not(TMP\_7) = 1 TMP\_8 = 0 not(TMP\_8) = 1 TMP\_9 = 0 TMP\_10 = 1 not(TMP\_10) = 0 TMP\_11 = 1 not(TMP\_11) = 0 TMP\_12 = 2 TMP\_13 = 0 not(TMP\_13) = 1 TMP\_14 = 0 not(TMP\_14) = 1 TMP\_15 = 1 not(TMP\_15) = 0 TMP\_16 = 1 not(TMP\_16) = 0 TMP\_17 = 1 not(TMP\_17) = 0 TMP\_18 = 2 TMP\_19 = 1 not(TMP\_19) = 0 TMP\_20 = 1 not(TMP\_20) = 0 TMP\_21 = 1 not(TMP\_21) = 0 TMP\_22 = 1 not(TMP\_22) = 0 TMP\_23 = 1 not(TMP\_23) = 0 TMP\_24 = 0 not(TMP\_24) = 1 TMP\_25 = 5 TMP\_26 = 0 not(TMP\_26) = 1 TMP\_27 = 0 not(TMP\_27) = 1 TMP\_28 = 0 TMP\_29 = 1 not(TMP\_29) = 0 TMP\_30 = 1 not(TMP\_30) = 0 TMP\_31 = 2 TMP\_32 = 0 not(TMP\_32) = 1 TMP\_33 = 0 not(TMP\_33) = 1 TMP\_34 = 1 not(TMP\_34) = 0 TMP\_35 = 1 not(TMP\_35) = 0 TMP\_36 = 1 not(TMP\_36) = 0 TMP\_37 = 2 TMP\_38 = 1 not(TMP\_38) = 0 TMP\_39 = 1 not(TMP\_39) = 0 TMP\_40 = 1 not(TMP\_40) = 0 TMP\_41 = 0 not(TMP\_41) = 1 TMP\_42 = 1 not(TMP\_42) = 0 TMP\_43 = 1 not(TMP\_43) = 0 TMP\_44 = 5 TMP\_45 = 0 not(TMP\_45) = 1 TMP\_46 = 0 not(TMP\_46) = 1 TMP\_47 = 0 TMP\_48 = 1 not(TMP\_48) = 0 TMP\_49 = 1 not(TMP\_49) = 0 TMP\_50 = 2 TMP\_51 = 0 not(TMP\_51) = 1 TMP\_52 = 0 not(TMP\_52) = 1 TMP\_53 = 1 not(TMP\_53) = 0 TMP\_54 = 1 not(TMP\_54) = 0 TMP\_55 = 1 not(TMP\_55) = 0 TMP\_56 = 2 TMP\_57 = 1 not(TMP\_57) = 0 TMP\_58 = 0 not(TMP\_58) = 1 TMP\_59 = 1 not(TMP\_59) = 0 TMP\_60 = 1 not(TMP\_60) = 0 TMP\_61 = 1 not(TMP\_61) = 0 TMP\_62 = 1 not(TMP\_62) = 0 TMP\_63 = 5 TMP\_64 = 0 not(TMP\_64) = 1 TMP\_65 = 0 not(TMP\_65) = 1 TMP\_66 = 0 TMP\_67 = 1 not(TMP\_67) = 0 TMP\_68 = 1 not(TMP\_68) = 0 TMP\_69 = 2 TMP\_70 = 0 not(TMP\_70) = 1 TMP\_71 = 0 not(TMP\_71) = 1 TMP\_72 = 1 not(TMP\_72) = 0 TMP\_73 = 1 not(TMP\_73) = 0 TMP\_74 = 1 not(TMP\_74) = 0 TMP\_75 = 2 TMP\_76 = 1 not(TMP\_76) = 0 TMP\_77 = 0 not(TMP\_77) = 1 TMP\_78 = 1 not(TMP\_78) = 0 TMP\_79 = 1 not(TMP\_79) = 0 TMP\_80 = 1 not(TMP\_80) = 0 TMP\_81 = 0 not(TMP\_81) = 1 TMP\_82 = 4 TMP\_83 = 0 not(TMP\_83) = 1 TMP\_84 = 0 not(TMP\_84) = 1 TMP\_85 = 0 TMP\_86 = 1 not(TMP\_86) = 0 TMP\_87 = 1 not(TMP\_87) = 0 TMP\_88 = 2 TMP\_89 = 0 not(TMP\_89) = 1 TMP\_90 = 0 not(TMP\_90) = 1 TMP\_91 = 1 not(TMP\_91) = 0 TMP\_92 = 1 not(TMP\_92) = 0 TMP\_93 = 1 not(TMP\_93) = 0 TMP\_94 = 2 TMP\_95 = 1 not(TMP\_95) = 0 TMP\_96 = 1 not(TMP\_96) = 0 TMP\_97 = 1 not(TMP\_97) = 0 TMP\_98 = 1 not(TMP\_98) = 0 TMP\_99 = 1 not(TMP\_99) = 0 TMP\_100 = 0 not(TMP\_100) = 1 TMP\_101 = 5 TMP\_102 = 0 not(TMP\_102) = 1 TMP\_103 = 0 not(TMP\_103) = 1 TMP\_104 = 0 TMP\_105 = 1 not(TMP\_105) = 0 TMP\_106 = 1 not(TMP\_106) = 0 TMP\_107 = 2 TMP\_108 = 0 not(TMP\_108) = 1 TMP\_109 = 0 not(TMP\_109) = 1 TMP\_110 = 1 not(TMP\_110) = 0 TMP\_111 = 1 not(TMP\_111) = 0 TMP\_112 = 1 not(TMP\_112) = 0 TMP\_113 = 2 TMP\_114 = 1 not(TMP\_114) = 0 TMP\_115 = 1 not(TMP\_115) = 0 TMP\_116 = 1 not(TMP\_116) = 0 TMP\_117 = 0 not(TMP\_117) = 1 TMP\_118 = 1 not(TMP\_118) = 0 TMP\_119 = 1 not(TMP\_119) = 0 TMP\_120 = 5 TMP\_121 = 0 not(TMP\_121) = 1 TMP\_122 = 0 not(TMP\_122) = 1 TMP\_123 = 0 TMP\_124 = 1 not(TMP\_124) = 0 TMP\_125 = 1 not(TMP\_125) = 0 TMP\_126 = 2 TMP\_127 = 0 not(TMP\_127) = 1 TMP\_128 = 0 not(TMP\_128) = 1 TMP\_129 = 1 not(TMP\_129) = 0 TMP\_130 = 1 not(TMP\_130) = 0 TMP\_131 = 1 not(TMP\_131) = 0 TMP\_132 = 2 TMP\_133 = 0 not(TMP\_133) = 1 TMP\_134 = 1 not(TMP\_134) = 0 TMP\_135 = 1 not(TMP\_135) = 0 TMP\_136 = 1 not(TMP\_136) = 0 TMP\_137 = 1 not(TMP\_137) = 0 TMP\_138 = 0 not(TMP\_138) = 1 TMP\_139 = 4 TMP\_140 = 0 not(TMP\_140) = 1 TMP\_141 = 0 not(TMP\_141) = 1 TMP\_142 = 0 TMP\_143 = 1 not(TMP\_143) = 0 TMP\_144 = 1 not(TMP\_144) = 0 TMP\_145 = 2 TMP\_146 = 0 not(TMP\_146) = 1 TMP\_147 = 0 not(TMP\_147) = 1 TMP\_148 = 1 not(TMP\_148) = 0 TMP\_149 = 1 not(TMP\_149) = 0 TMP\_150 = 1 not(TMP\_150) = 0 TMP\_151 = 2 TMP\_152 = 0 not(TMP\_152) = 1 TMP\_153 = 1 not(TMP\_153) = 0 TMP\_154 = 1 not(TMP\_154) = 0 TMP\_155 = 1 not(TMP\_155) = 0 TMP\_156 = 1 not(TMP\_156) = 0 TMP\_157 = 0 not(TMP\_157) = 1 TMP\_158 = 4 TMP\_159 = 0 not(TMP\_159) = 1 TMP\_160 = 0 not(TMP\_160) = 1 TMP\_161 = 0 TMP\_162 = 1 not(TMP\_162) = 0 TMP\_163 = 1 not(TMP\_163) = 0 TMP\_164 = 2 TMP\_165 = 0 not(TMP\_165) = 1 TMP\_166 = 0 not(TMP\_166) = 1 TMP\_167 = 1 not(TMP\_167) = 0 TMP\_168 = 1 not(TMP\_168) = 0 TMP\_169 = 1 not(TMP\_169) = 0 TMP\_170 = 2 TMP\_171 = 0 not(TMP\_171) = 1 TMP\_172 = 1 not(TMP\_172) = 0 TMP\_173 = 1 not(TMP\_173) = 0 TMP\_174 = 1 not(TMP\_174) = 0 TMP\_175 = 1 not(TMP\_175) = 0 TMP\_176 = 1 not(TMP\_176) = 0 TMP\_177 = 5 TMP\_178 = 0 not(TMP\_178) = 1 TMP\_179 = 0 not(TMP\_179) = 1 TMP\_180 = 0 TMP\_181 = 1 not(TMP\_181) = 0 TMP\_182 = 1 not(TMP\_182) = 0 TMP\_183 = 2 TMP\_184 = 0 not(TMP\_184) = 1 TMP\_185 = 0 not(TMP\_185) = 1 TMP\_186 = 1 not(TMP\_186) = 0 TMP\_187 = 1 not(TMP\_187) = 0 TMP\_188 = 1 not(TMP\_188) = 0 TMP\_189 = 2 TMP\_190 = 0 not(TMP\_190) = 1 TMP\_191 = 1 not(TMP\_191) = 0 TMP\_192 = 1 not(TMP\_192) = 0 TMP\_193 = 1 not(TMP\_193) = 0 TMP\_194 = 1 not(TMP\_194) = 0 TMP\_195 = 1 not(TMP\_195) = 0 TMP\_196 = 5 TMP\_197 = 0 not(TMP\_197) = 1 TMP\_198 = 0 not(TMP\_198) = 1 TMP\_199 = 0 TMP\_200 = 1 not(TMP\_200) = 0 TMP\_201 = 1 not(TMP\_201) = 0 TMP\_202 = 2 TMP\_203 = 0 not(TMP\_203) = 1 TMP\_204 = 0 not(TMP\_204) = 1 TMP\_205 = 1 not(TMP\_205) = 0 TMP\_206 = 1 not(TMP\_206) = 0 TMP\_207 = 1 not(TMP\_207) = 0 TMP\_208 = 2 TMP\_209 = 1 not(TMP\_209) = 0 TMP\_210 = 1 not(TMP\_210) = 0 TMP\_211 = 1 not(TMP\_211) = 0 TMP\_212 = 1 not(TMP\_212) = 0 TMP\_213 = 1 not(TMP\_213) = 0 TMP\_214 = 0 not(TMP\_214) = 1 TMP\_215 = 5 TMP\_216 = 0 not(TMP\_216) = 1 TMP\_217 = 0 not(TMP\_217) = 1 TMP\_218 = 0 TMP\_219 = 1 not(TMP\_219) = 0 TMP\_220 = 1 not(TMP\_220) = 0 TMP\_221 = 2 TMP\_222 = 0 not(TMP\_222) = 1 TMP\_223 = 0 not(TMP\_223) = 1 TMP\_224 = 1 not(TMP\_224) = 0 TMP\_225 = 1 not(TMP\_225) = 0 TMP\_226 = 1 not(TMP\_226) = 0 TMP\_227 = 2 TMP\_228 = 0 not(TMP\_228) = 1 TMP\_229 = 1 not(TMP\_229) = 0 TMP\_230 = 1 not(TMP\_230) = 0 TMP\_231 = 1 not(TMP\_231) = 0 TMP\_232 = 1 not(TMP\_232) = 0 TMP\_233 = 0 not(TMP\_233) = 1 TMP\_234 = 4 TMP\_235 = 0 not(TMP\_235) = 1 TMP\_236 = 0 not(TMP\_236) = 1 TMP\_237 = 0 TMP\_238 = 1 not(TMP\_238) = 0 TMP\_239 = 1 not(TMP\_239) = 0 TMP\_240 = 2 TMP\_241 = 0 not(TMP\_241) = 1 TMP\_242 = 0 not(TMP\_242) = 1 TMP\_243 = 1 not(TMP\_243) = 0 TMP\_244 = 1 not(TMP\_244) = 0 TMP\_245 = 1 not(TMP\_245) = 0 TMP\_246 = 2 TMP\_247 = 0 not(TMP\_247) = 1 TMP\_248 = 1 not(TMP\_248) = 0 TMP\_249 = 1 not(TMP\_249) = 0 TMP\_250 = 1 not(TMP\_250) = 0 TMP\_251 = 1 not(TMP\_251) = 0 TMP\_252 = 1 not(TMP\_252) = 0 TMP\_253 = 5 TMP\_254 = 0 not(TMP\_254) = 1 TMP\_255 = 0 not(TMP\_255) = 1 TMP\_256 = 0 TMP\_257 = 1 not(TMP\_257) = 0 TMP\_258 = 1 not(TMP\_258) = 0 TMP\_259 = 2 TMP\_260 = 0 not(TMP\_260) = 1 TMP\_261 = 0 not(TMP\_261) = 1 TMP\_262 = 1 not(TMP\_262) = 0 TMP\_263 = 1 not(TMP\_263) = 0 TMP\_264 = 1 not(TMP\_264) = 0 TMP\_265 = 2 TMP\_266 = 0 not(TMP\_266) = 1 TMP\_267 = 1 not(TMP\_267) = 0 TMP\_268 = 1 not(TMP\_268) = 0 TMP\_269 = 1 not(TMP\_269) = 0 TMP\_270 = 1 not(TMP\_270) = 0 TMP\_271 = 1 not(TMP\_271) = 0 TMP\_272 = 5 TMP\_273 = 0 not(TMP\_273) = 1 TMP\_274 = 0 not(TMP\_274) = 1 TMP\_275 = 0 TMP\_276 = 1 not(TMP\_276) = 0 TMP\_277 = 1 not(TMP\_277) = 0 TMP\_278 = 2 TMP\_279 = 0 not(TMP\_279) = 1 TMP\_280 = 0 not(TMP\_280) = 1 TMP\_281 = 1 not(TMP\_281) = 0 TMP\_282 = 1 not(TMP\_282) = 0 TMP\_283 = 1 not(TMP\_283) = 0 TMP\_284 = 2 TMP\_285 = 0 not(TMP\_285) = 1 TMP\_286 = 1 not(TMP\_286) = 0 TMP\_287 = 1 not(TMP\_287) = 0 TMP\_288 = 1 not(TMP\_288) = 0 TMP\_289 = 1 not(TMP\_289) = 0 TMP\_290 = 1 not(TMP\_290) = 0 TMP\_291 = 5 TMP\_292 = 0 not(TMP\_292) = 1 TMP\_293 = 0 not(TMP\_293) = 1 TMP\_294 = 0 TMP\_295 = 1 not(TMP\_295) = 0 TMP\_296 = 1 not(TMP\_296) = 0 TMP\_297 = 2 TMP\_298 = 0 not(TMP\_298) = 1 TMP\_299 = 0 not(TMP\_299) = 1 TMP\_300 = 1 not(TMP\_300) = 0 TMP\_301 = 1 not(TMP\_301) = 0 TMP\_302 = 1 not(TMP\_302) = 0 TMP\_303 = 2 TMP\_304 = 0 not(TMP\_304) = 1 TMP\_305 = 1 not(TMP\_305) = 0 TMP\_306 = 1 not(TMP\_306) = 0 TMP\_307 = 1 not(TMP\_307) = 0 TMP\_308 = 0 not(TMP\_308) = 1 TMP\_309 = 1 not(TMP\_309) = 0 TMP\_310 = 4 TMP\_311 = 0 not(TMP\_311) = 1 TMP\_312 = 0 not(TMP\_312) = 1 TMP\_313 = 0 TMP\_314 = 1 not(TMP\_314) = 0 TMP\_315 = 1 not(TMP\_315) = 0 TMP\_316 = 2 TMP\_317 = 0 not(TMP\_317) = 1 TMP\_318 = 0 not(TMP\_318) = 1 TMP\_319 = 1 not(TMP\_319) = 0 TMP\_320 = 1 not(TMP\_320) = 0 TMP\_321 = 1 not(TMP\_321) = 0 TMP\_322 = 2 TMP\_323 = 0 not(TMP\_323) = 1 TMP\_324 = 1 not(TMP\_324) = 0 TMP\_325 = 1 not(TMP\_325) = 0 TMP\_326 = 1 not(TMP\_326) = 0 TMP\_327 = 0 not(TMP\_327) = 1 TMP\_328 = 1 not(TMP\_328) = 0 TMP\_329 = 4 TMP\_330 = 0 not(TMP\_330) = 1 TMP\_331 = 0 not(TMP\_331) = 1 TMP\_332 = 0 TMP\_333 = 1 not(TMP\_333) = 0 TMP\_334 = 1 not(TMP\_334) = 0 TMP\_335 = 2 TMP\_336 = 0 not(TMP\_336) = 1 TMP\_337 = 0 not(TMP\_337) = 1 TMP\_338 = 1 not(TMP\_338) = 0 TMP\_339 = 1 not(TMP\_339) = 0 TMP\_340 = 1 not(TMP\_340) = 0 TMP\_341 = 2 TMP\_342 = 1 not(TMP\_342) = 0 TMP\_343 = 1 not(TMP\_343) = 0 TMP\_344 = 1 not(TMP\_344) = 0 TMP\_345 = 1 not(TMP\_345) = 0 TMP\_346 = 0 not(TMP\_346) = 1 TMP\_347 = 1 not(TMP\_347) = 0 TMP\_348 = 5 TMP\_349 = 0 not(TMP\_349) = 1 TMP\_350 = 0 not(TMP\_350) = 1 TMP\_351 = 0 TMP\_352 = 1 not(TMP\_352) = 0 TMP\_353 = 1 not(TMP\_353) = 0 TMP\_354 = 2 TMP\_355 = 0 not(TMP\_355) = 1 TMP\_356 = 0 not(TMP\_356) = 1 TMP\_357 = 1 not(TMP\_357) = 0 TMP\_358 = 1 not(TMP\_358) = 0 TMP\_359 = 1 not(TMP\_359) = 0 TMP\_360 = 2 TMP\_361 = 0 not(TMP\_361) = 1 TMP\_362 = 1 not(TMP\_362) = 0 TMP\_363 = 1 not(TMP\_363) = 0 TMP\_364 = 1 not(TMP\_364) = 0 TMP\_365 = 1 not(TMP\_365) = 0 TMP\_366 = 1 not(TMP\_366) = 0 TMP\_367 = 5 TMP\_368 = 0 not(TMP\_368) = 1 TMP\_369 = 0 not(TMP\_369) = 1 TMP\_370 = 0 TMP\_371 = 1 not(TMP\_371) = 0 TMP\_372 = 1 not(TMP\_372) = 0 TMP\_373 = 2 TMP\_374 = 0 not(TMP\_374) = 1 TMP\_375 = 0 not(TMP\_375) = 1 TMP\_376 = 1 not(TMP\_376) = 0 TMP\_377 = 1 not(TMP\_377) = 0 TMP\_378 = 1 not(TMP\_378) = 0 TMP\_379 = 2 TMP\_380 = 0 not(TMP\_380) = 1 TMP\_381 = 1 not(TMP\_381) = 0 TMP\_382 = 1 not(TMP\_382) = 0 TMP\_383 = 1 not(TMP\_383) = 0 TMP\_384 = 0 not(TMP\_384) = 1 TMP\_385 = 1 not(TMP\_385) = 0 TMP\_386 = 4 TMP\_387 = 0 not(TMP\_387) = 1 TMP\_388 = 0 not(TMP\_388) = 1 TMP\_389 = 0 TMP\_390 = 1 not(TMP\_390) = 0 TMP\_391 = 1 not(TMP\_391) = 0 TMP\_392 = 2 TMP\_393 = 0 not(TMP\_393) = 1 TMP\_394 = 0 not(TMP\_394) = 1 TMP\_395 = 1 not(TMP\_395) = 0 TMP\_396 = 1 not(TMP\_396) = 0 TMP\_397 = 1 not(TMP\_397) = 0 TMP\_398 = 2 TMP\_399 = 0 not(TMP\_399) = 1 TMP\_400 = 1 not(TMP\_400) = 0 TMP\_401 = 1 not(TMP\_401) = 0 TMP\_402 = 1 not(TMP\_402) = 0 TMP\_403 = 1 not(TMP\_403) = 0 TMP\_404 = 1 not(TMP\_404) = 0 TMP\_405 = 5 TMP\_406 = 0 not(TMP\_406) = 1 TMP\_407 = 0 not(TMP\_407) = 1 TMP\_408 = 0 TMP\_409 = 1 not(TMP\_409) = 0 TMP\_410 = 1 not(TMP\_410) = 0 TMP\_411 = 2 TMP\_412 = 0 not(TMP\_412) = 1 TMP\_413 = 0 not(TMP\_413) = 1 TMP\_414 = 1 not(TMP\_414) = 0 TMP\_415 = 1 not(TMP\_415) = 0 TMP\_416 = 1 not(TMP\_416) = 0 TMP\_417 = 2 TMP\_418 = 1 not(TMP\_418) = 0 TMP\_419 = 0 not(TMP\_419) = 1 TMP\_420 = 1 not(TMP\_420) = 0 TMP\_421 = 1 not(TMP\_421) = 0 TMP\_422 = 1 not(TMP\_422) = 0 TMP\_423 = 1 not(TMP\_423) = 0 TMP\_424 = 5 TMP\_425 = 0 not(TMP\_425) = 1 TMP\_426 = 0 not(TMP\_426) = 1 TMP\_427 = 0 TMP\_428 = 1 not(TMP\_428) = 0 TMP\_429 = 1 not(TMP\_429) = 0 TMP\_430 = 2 TMP\_431 = 0 not(TMP\_431) = 1 TMP\_432 = 0 not(TMP\_432) = 1 TMP\_433 = 1 not(TMP\_433) = 0 TMP\_434 = 1 not(TMP\_434) = 0 TMP\_435 = 1 not(TMP\_435) = 0 TMP\_436 = 2 TMP\_437 = 1 not(TMP\_437) = 0 TMP\_438 = 0 not(TMP\_438) = 1 TMP\_439 = 1 not(TMP\_439) = 0 TMP\_440 = 1 not(TMP\_440) = 0 TMP\_441 = 0 not(TMP\_441) = 1 TMP\_442 = 1 not(TMP\_442) = 0 TMP\_443 = 4 TMP\_444 = 0 not(TMP\_444) = 1 TMP\_445 = 0 not(TMP\_445) = 1 TMP\_446 = 0 TMP\_447 = 1 not(TMP\_447) = 0 TMP\_448 = 1 not(TMP\_448) = 0 TMP\_449 = 2 TMP\_450 = 0 not(TMP\_450) = 1 TMP\_451 = 0 not(TMP\_451) = 1 TMP\_452 = 1 not(TMP\_452) = 0 TMP\_453 = 1 not(TMP\_453) = 0 TMP\_454 = 1 not(TMP\_454) = 0 TMP\_455 = 2 TMP\_456 = 1 not(TMP\_456) = 0 TMP\_457 = 1 not(TMP\_457) = 0 TMP\_458 = 1 not(TMP\_458) = 0 TMP\_459 = 1 not(TMP\_459) = 0 TMP\_460 = 0 not(TMP\_460) = 1 TMP\_461 = 1 not(TMP\_461) = 0 TMP\_462 = 5 TMP\_463 = 0 not(TMP\_463) = 1 TMP\_464 = 0 not(TMP\_464) = 1 TMP\_465 = 0 TMP\_466 = 1 not(TMP\_466) = 0 TMP\_467 = 1 not(TMP\_467) = 0 TMP\_468 = 2 TMP\_469 = 0 not(TMP\_469) = 1 TMP\_470 = 0 not(TMP\_470) = 1 TMP\_471 = 1 not(TMP\_471) = 0 TMP\_472 = 1 not(TMP\_472) = 0 TMP\_473 = 1 not(TMP\_473) = 0 TMP\_474 = 2 TMP\_475 = 1 not(TMP\_475) = 0 TMP\_476 = 0 not(TMP\_476) = 1 TMP\_477 = 1 not(TMP\_477) = 0 TMP\_478 = 1 not(TMP\_478) = 0 TMP\_479 = 0 not(TMP\_479) = 1 TMP\_480 = 1 not(TMP\_480) = 0 TMP\_481 = 4 TMP\_482 = 0 not(TMP\_482) = 1 TMP\_483 = 0 not(TMP\_483) = 1 TMP\_484 = 0 TMP\_485 = 1 not(TMP\_485) = 0 TMP\_486 = 1 not(TMP\_486) = 0 TMP\_487 = 2 TMP\_488 = 0 not(TMP\_488) = 1 TMP\_489 = 0 not(TMP\_489) = 1 TMP\_490 = 1 not(TMP\_490) = 0 TMP\_491 = 1 not(TMP\_491) = 0 TMP\_492 = 1 not(TMP\_492) = 0 TMP\_493 = 2 TMP\_494 = 1 not(TMP\_494) = 0 TMP\_495 = 0 not(TMP\_495) = 1 TMP\_496 = 1 not(TMP\_496) = 0 TMP\_497 = 1 not(TMP\_497) = 0 TMP\_498 = 1 not(TMP\_498) = 0 TMP\_499 = 1 not(TMP\_499) = 0 TMP\_500 = 5 TMP\_501 = 0 not(TMP\_501) = 1 TMP\_502 = 0 not(TMP\_502) = 1 TMP\_503 = 0 TMP\_504 = 1 not(TMP\_504) = 0 TMP\_505 = 1 not(TMP\_505) = 0 TMP\_506 = 2 TMP\_507 = 0 not(TMP\_507) = 1 TMP\_508 = 0 not(TMP\_508) = 1 TMP\_509 = 1 not(TMP\_509) = 0 TMP\_510 = 1 not(TMP\_510) = 0 TMP\_511 = 1 not(TMP\_511) = 0 TMP\_512 = 2 TMP\_513 = 1 not(TMP\_513) = 0 TMP\_514 = 1 not(TMP\_514) = 0 TMP\_515 = 1 not(TMP\_515) = 0 TMP\_516 = 1 not(TMP\_516) = 0 TMP\_517 = 0 not(TMP\_517) = 1 TMP\_518 = 1 not(TMP\_518) = 0 TMP\_519 = 5 TMP\_520 = 0 not(TMP\_520) = 1 TMP\_521 = 0 not(TMP\_521) = 1 TMP\_522 = 0 TMP\_523 = 1 not(TMP\_523) = 0 TMP\_524 = 1 not(TMP\_524) = 0 TMP\_525 = 2 TMP\_526 = 0 not(TMP\_526) = 1 TMP\_527 = 0 not(TMP\_527) = 1 TMP\_528 = 1 not(TMP\_528) = 0 TMP\_529 = 1 not(TMP\_529) = 0 TMP\_530 = 1 not(TMP\_530) = 0 TMP\_531 = 2 TMP\_532 = 1 not(TMP\_532) = 0 TMP\_533 = 1 not(TMP\_533) = 0 TMP\_534 = 1 not(TMP\_534) = 0 TMP\_535 = 1 not(TMP\_535) = 0 TMP\_536 = 1 not(TMP\_536) = 0 TMP\_537 = 0 not(TMP\_537) = 1 TMP\_538 = 5 TMP\_539 = 0 not(TMP\_539) = 1 TMP\_540 = 0 not(TMP\_540) = 1 TMP\_541 = 0 TMP\_542 = 1 not(TMP\_542) = 0 TMP\_543 = 1 not(TMP\_543) = 0 TMP\_544 = 2 TMP\_545 = 0 not(TMP\_545) = 1 TMP\_546 = 0 not(TMP\_546) = 1 TMP\_547 = 1 not(TMP\_547) = 0 TMP\_548 = 1 not(TMP\_548) = 0 TMP\_549 = 1 not(TMP\_549) = 0 TMP\_550 = 2 TMP\_551 = 1 not(TMP\_551) = 0 TMP\_552 = 0 not(TMP\_552) = 1 TMP\_553 = 1 not(TMP\_553) = 0 TMP\_554 = 1 not(TMP\_554) = 0 TMP\_555 = 1 not(TMP\_555) = 0 TMP\_556 = 0 not(TMP\_556) = 1 TMP\_557 = 4 TMP\_558 = 0 not(TMP\_558) = 1 TMP\_559 = 0 not(TMP\_559) = 1 TMP\_560 = 0 TMP\_561 = 1 not(TMP\_561) = 0 TMP\_562 = 1 not(TMP\_562) = 0 TMP\_563 = 2 TMP\_564 = 0 not(TMP\_564) = 1 TMP\_565 = 0 not(TMP\_565) = 1 TMP\_566 = 1 not(TMP\_566) = 0 TMP\_567 = 1 not(TMP\_567) = 0 TMP\_568 = 1 not(TMP\_568) = 0 TMP\_569 = 2 TMP\_570 = 1 not(TMP\_570) = 0 TMP\_571 = 0 not(TMP\_571) = 1 TMP\_572 = 1 not(TMP\_572) = 0 TMP\_573 = 1 not(TMP\_573) = 0 TMP\_574 = 1 not(TMP\_574) = 0 TMP\_575 = 1 not(TMP\_575) = 0 TMP\_576 = 5 TMP\_577 = 0 not(TMP\_577) = 1 TMP\_578 = 0 not(TMP\_578) = 1 TMP\_579 = 0 TMP\_580 = 1 not(TMP\_580) = 0 TMP\_581 = 1 not(TMP\_581) = 0 TMP\_582 = 2 TMP\_583 = 0 not(TMP\_583) = 1 TMP\_584 = 0 not(TMP\_584) = 1 TMP\_585 = 1 not(TMP\_585) = 0 TMP\_586 = 1 not(TMP\_586) = 0 TMP\_587 = 1 not(TMP\_587) = 0 TMP\_588 = 2 TMP\_589 = 1 not(TMP\_589) = 0 TMP\_590 = 1 not(TMP\_590) = 0 TMP\_591 = 0 not(TMP\_591) = 1 TMP\_592 = 1 not(TMP\_592) = 0 TMP\_593 = 1 not(TMP\_593) = 0 TMP\_594 = 1 not(TMP\_594) = 0 TMP\_595 = 5 TMP\_596 = 0 not(TMP\_596) = 1 TMP\_597 = 0 not(TMP\_597) = 1 TMP\_598 = 0 TMP\_599 = 1 not(TMP\_599) = 0 TMP\_600 = 1 not(TMP\_600) = 0 TMP\_601 = 2 TMP\_602 = 0 not(TMP\_602) = 1 TMP\_603 = 0 not(TMP\_603) = 1 TMP\_604 = 1 not(TMP\_604) = 0 TMP\_605 = 1 not(TMP\_605) = 0 TMP\_606 = 1 not(TMP\_606) = 0 TMP\_607 = 2 TMP\_608 = 1 not(TMP\_608) = 0 TMP\_609 = 0 not(TMP\_609) = 1 TMP\_610 = 1 not(TMP\_610) = 0 TMP\_611 = 1 not(TMP\_611) = 0 TMP\_612 = 1 not(TMP\_612) = 0 TMP\_613 = 1 not(TMP\_613) = 0 TMP\_614 = 5 TMP\_615 = 0 not(TMP\_615) = 1 TMP\_616 = 0 not(TMP\_616) = 1 TMP\_617 = 0 TMP\_618 = 1 not(TMP\_618) = 0 TMP\_619 = 1 not(TMP\_619) = 0 TMP\_620 = 2 TMP\_621 = 0 not(TMP\_621) = 1 TMP\_622 = 0 not(TMP\_622) = 1 TMP\_623 = 1 not(TMP\_623) = 0 TMP\_624 = 1 not(TMP\_624) = 0 TMP\_625 = 1 not(TMP\_625) = 0 TMP\_626 = 2 TMP\_627 = 1 not(TMP\_627) = 0 TMP\_628 = 0 not(TMP\_628) = 1 TMP\_629 = 1 not(TMP\_629) = 0 TMP\_630 = 1 not(TMP\_630) = 0 TMP\_631 = 1 not(TMP\_631) = 0 TMP\_632 = 0 not(TMP\_632) = 1 TMP\_633 = 4 TMP\_634 = 0 not(TMP\_634) = 1 TMP\_635 = 0 not(TMP\_635) = 1 TMP\_636 = 0 TMP\_637 = 1 not(TMP\_637) = 0 TMP\_638 = 1 not(TMP\_638) = 0 TMP\_639 = 2 TMP\_640 = 0 not(TMP\_640) = 1 TMP\_641 = 0 not(TMP\_641) = 1 TMP\_642 = 1 not(TMP\_642) = 0 TMP\_643 = 1 not(TMP\_643) = 0 TMP\_644 = 1 not(TMP\_644) = 0 TMP\_645 = 2 TMP\_646 = 1 not(TMP\_646) = 0 TMP\_647 = 1 not(TMP\_647) = 0 TMP\_648 = 1 not(TMP\_648) = 0 TMP\_649 = 1 not(TMP\_649) = 0 TMP\_650 = 1 not(TMP\_650) = 0 TMP\_651 = 0 not(TMP\_651) = 1 TMP\_652 = 5 TMP\_653 = 0 not(TMP\_653) = 1 TMP\_654 = 0 not(TMP\_654) = 1 TMP\_655 = 0 TMP\_656 = 1 not(TMP\_656) = 0 TMP\_657 = 1 not(TMP\_657) = 0 TMP\_658 = 2 TMP\_659 = 0 not(TMP\_659) = 1 TMP\_660 = 0 not(TMP\_660) = 1 TMP\_661 = 1 not(TMP\_661) = 0 TMP\_662 = 1 not(TMP\_662) = 0 TMP\_663 = 1 not(TMP\_663) = 0 TMP\_664 = 2 Area\_0 = 60 Distance\_0\_Rule\_0 = 20 Distance\_1\_Rule\_0 = 3 Distance\_2\_Rule\_0 = 1 Area\_1 = 174 Distance\_0\_Rule\_1 = 58 Distance\_1\_Rule\_1 = 3 Distance\_2\_Rule\_1 = 1 Area\_2 = 116 Distance\_0\_Rule\_2 = 58 Distance\_1\_Rule\_2 = 2 Distance\_2\_Rule\_2 = 1 Area\_3 = 79 -(Rule\_3\_LB) = 0 Distance\_0\_Rule\_3 = 79 -(Rule\_3\_LB) = 0 Distance\_1\_Rule\_3 = 1 -(Rule\_3\_LB) = 0 Distance\_2\_Rule\_3 = 1 Area\_4 = 123 -(Rule\_4\_LB) = -79 Distance\_0\_Rule\_4 = 41 -(Rule\_4\_LB) = 0 Distance\_1\_Rule\_4 = 3 -(Rule\_4\_LB) = 0 Distance\_2\_Rule\_4 = 1 Area\_5 = 123 -(Rule\_5\_LB) = -79 Distance\_0\_Rule\_5 = 41 -(Rule\_5\_LB) = 0 Distance\_1\_Rule\_5 = 3 -(Rule\_5\_LB) = -1 Distance\_2\_Rule\_5 = 1 Area\_6 = 3 -(Rule\_6\_LB) = -20 Distance\_0\_Rule\_6 = 1 -(Rule\_6\_LB) = 0 Distance\_1\_Rule\_6 = 3 -(Rule\_6\_LB) = -1 Distance\_2\_Rule\_6 = 1 Area\_7 = 42 -(Rule\_7\_LB) = 0 Distance\_0\_Rule\_7 = 21 -(Rule\_7\_LB) = -1 Distance\_1\_Rule\_7 = 2 -(Rule\_7\_LB) = 0 Distance\_2\_Rule\_7 = 1 TMP\_665 = 720 .

- Incomplete search - Limit reached.

Solutions: 20

Building time : 0.223s

Initialisation : 0.000s

Initial propagation : 0.050s

Resolution : 3.305s

Nodes: 23,853 (7,216.5 n/s)

Backtracks: 47,624

Fails: 23,801

Restarts: 0

Max depth: 148

Memory: 5mb

Variables: 1,362

Constraints: 1,393

## Rules = 4 - Missing Rules = 4

- Solution #1 found. 1 Solutions, Resolution 0.212s, 81 Nodes (382.8 n/s), 107 Backtracks, 58 Fails, 0 Restarts

Rule\_4\_LB = 79 Rule\_4\_UB = 120 Rule\_4\_LB = 0 Rule\_4\_UB = 3 Rule\_4\_LB = 0 Rule\_4\_UB = 1 Rule\_5\_LB = 0 Rule\_5\_UB = 21 Rule\_5\_LB = 0 Rule\_5\_UB = 3 Rule\_5\_LB = 0 Rule\_5\_UB = 1 Rule\_6\_LB = 79 Rule\_6\_UB = 120 Rule\_6\_LB = 0 Rule\_6\_UB = 3 Rule\_6\_LB = 1 Rule\_6\_UB = 2 Rule\_7\_LB = 20 Rule\_7\_UB = 21 Rule\_7\_LB = 0 Rule\_7\_UB = 3 Rule\_7\_LB = 1 Rule\_7\_UB = 2 Overlaps\_0\_0 = 0 Overlaps\_0\_1 = 0 Overlaps\_0\_2 = 0 Overlaps\_0\_3 = 0 Overlaps\_0\_4 = 0 Overlaps\_0\_5 = 0 Overlaps\_0\_6 = 0 Overlaps\_0\_7 = 0 Overlaps\_1\_0 = 0 Overlaps\_1\_1 = 0 Overlaps\_1\_2 = 0 Overlaps\_1\_3 = 0 Overlaps\_1\_4 = 0 Overlaps\_1\_5 = 0 Overlaps\_1\_6 = 0 Overlaps\_1\_7 = 0 Overlaps\_2\_0 = 0 Overlaps\_2\_1 = 0 Overlaps\_2\_2 = 0 Overlaps\_2\_3 = 0 Overlaps\_2\_4 = 0 Overlaps\_2\_5 = 0 Overlaps\_2\_6 = 0 Overlaps\_2\_7 = 0 Overlaps\_3\_0 = 0 Overlaps\_3\_1 = 0 Overlaps\_3\_2 = 0 Overlaps\_3\_3 = 0 Overlaps\_3\_4 = 0 Overlaps\_3\_5 = 0 Overlaps\_3\_6 = 0 Overlaps\_3\_7 = 0 Overlaps\_4\_0 = 0 Overlaps\_4\_1 = 0 Overlaps\_4\_2 = 0 Overlaps\_4\_3 = 0 Overlaps\_4\_4 = 0 Overlaps\_4\_5 = 0 Overlaps\_4\_6 = 0 Overlaps\_4\_7 = 0 Overlaps\_5\_0 = 0 Overlaps\_5\_1 = 0 Overlaps\_5\_2 = 0 Overlaps\_5\_3 = 0 Overlaps\_5\_4 = 0 Overlaps\_5\_5 = 0 Overlaps\_5\_6 = 0 Overlaps\_5\_7 = 0 Overlaps\_6\_0 = 0 Overlaps\_6\_1 = 0 Overlaps\_6\_2 = 0 Overlaps\_6\_3 = 0 Overlaps\_6\_4 = 0 Overlaps\_6\_5 = 0 Overlaps\_6\_6 = 0 Overlaps\_6\_7 = 0 Overlaps\_7\_0 = 0 Overlaps\_7\_1 = 0 Overlaps\_7\_2 = 0 Overlaps\_7\_3 = 0 Overlaps\_7\_4 = 0 Overlaps\_7\_5 = 0 Overlaps\_7\_6 = 0 Overlaps\_7\_7 = 0 TMP\_0 = 0 not(TMP\_0) = 1 TMP\_1 = 1 not(TMP\_1) = 0 TMP\_2 = 1 not(TMP\_2) = 0 TMP\_3 = 1 not(TMP\_3) = 0 TMP\_4 = 1 not(TMP\_4) = 0 TMP\_5 = 0 not(TMP\_5) = 1 TMP\_6 = 4 TMP\_7 = 0 not(TMP\_7) = 1 TMP\_8 = 0 not(TMP\_8) = 1 TMP\_9 = 0 TMP\_10 = 1 not(TMP\_10) = 0 TMP\_11 = 1 not(TMP\_11) = 0 TMP\_12 = 2 TMP\_13 = 0 not(TMP\_13) = 1 TMP\_14 = 0 not(TMP\_14) = 1 TMP\_15 = 1 not(TMP\_15) = 0 TMP\_16 = 1 not(TMP\_16) = 0 TMP\_17 = 1 not(TMP\_17) = 0 TMP\_18 = 2 TMP\_19 = 0 not(TMP\_19) = 1 TMP\_20 = 1 not(TMP\_20) = 0 TMP\_21 = 1 not(TMP\_21) = 0 TMP\_22 = 1 not(TMP\_22) = 0 TMP\_23 = 1 not(TMP\_23) = 0 TMP\_24 = 0 not(TMP\_24) = 1 TMP\_25 = 4 TMP\_26 = 0 not(TMP\_26) = 1 TMP\_27 = 0 not(TMP\_27) = 1 TMP\_28 = 0 TMP\_29 = 1 not(TMP\_29) = 0 TMP\_30 = 1 not(TMP\_30) = 0 TMP\_31 = 2 TMP\_32 = 0 not(TMP\_32) = 1 TMP\_33 = 0 not(TMP\_33) = 1 TMP\_34 = 1 not(TMP\_34) = 0 TMP\_35 = 1 not(TMP\_35) = 0 TMP\_36 = 1 not(TMP\_36) = 0 TMP\_37 = 2 TMP\_38 = 0 not(TMP\_38) = 1 TMP\_39 = 1 not(TMP\_39) = 0 TMP\_40 = 1 not(TMP\_40) = 0 TMP\_41 = 1 not(TMP\_41) = 0 TMP\_42 = 1 not(TMP\_42) = 0 TMP\_43 = 1 not(TMP\_43) = 0 TMP\_44 = 5 TMP\_45 = 0 not(TMP\_45) = 1 TMP\_46 = 0 not(TMP\_46) = 1 TMP\_47 = 0 TMP\_48 = 1 not(TMP\_48) = 0 TMP\_49 = 1 not(TMP\_49) = 0 TMP\_50 = 2 TMP\_51 = 0 not(TMP\_51) = 1 TMP\_52 = 0 not(TMP\_52) = 1 TMP\_53 = 1 not(TMP\_53) = 0 TMP\_54 = 1 not(TMP\_54) = 0 TMP\_55 = 1 not(TMP\_55) = 0 TMP\_56 = 2 TMP\_57 = 0 not(TMP\_57) = 1 TMP\_58 = 1 not(TMP\_58) = 0 TMP\_59 = 1 not(TMP\_59) = 0 TMP\_60 = 1 not(TMP\_60) = 0 TMP\_61 = 1 not(TMP\_61) = 0 TMP\_62 = 1 not(TMP\_62) = 0 TMP\_63 = 5 TMP\_64 = 0 not(TMP\_64) = 1 TMP\_65 = 0 not(TMP\_65) = 1 TMP\_66 = 0 TMP\_67 = 1 not(TMP\_67) = 0 TMP\_68 = 1 not(TMP\_68) = 0 TMP\_69 = 2 TMP\_70 = 0 not(TMP\_70) = 1 TMP\_71 = 0 not(TMP\_71) = 1 TMP\_72 = 1 not(TMP\_72) = 0 TMP\_73 = 1 not(TMP\_73) = 0 TMP\_74 = 1 not(TMP\_74) = 0 TMP\_75 = 2 TMP\_76 = 0 not(TMP\_76) = 1 TMP\_77 = 1 not(TMP\_77) = 0 TMP\_78 = 1 not(TMP\_78) = 0 TMP\_79 = 1 not(TMP\_79) = 0 TMP\_80 = 1 not(TMP\_80) = 0 TMP\_81 = 1 not(TMP\_81) = 0 TMP\_82 = 5 TMP\_83 = 0 not(TMP\_83) = 1 TMP\_84 = 0 not(TMP\_84) = 1 TMP\_85 = 0 TMP\_86 = 1 not(TMP\_86) = 0 TMP\_87 = 1 not(TMP\_87) = 0 TMP\_88 = 2 TMP\_89 = 0 not(TMP\_89) = 1 TMP\_90 = 0 not(TMP\_90) = 1 TMP\_91 = 1 not(TMP\_91) = 0 TMP\_92 = 1 not(TMP\_92) = 0 TMP\_93 = 1 not(TMP\_93) = 0 TMP\_94 = 2 TMP\_95 = 1 not(TMP\_95) = 0 TMP\_96 = 1 not(TMP\_96) = 0 TMP\_97 = 1 not(TMP\_97) = 0 TMP\_98 = 1 not(TMP\_98) = 0 TMP\_99 = 1 not(TMP\_99) = 0 TMP\_100 = 0 not(TMP\_100) = 1 TMP\_101 = 5 TMP\_102 = 0 not(TMP\_102) = 1 TMP\_103 = 0 not(TMP\_103) = 1 TMP\_104 = 0 TMP\_105 = 1 not(TMP\_105) = 0 TMP\_106 = 1 not(TMP\_106) = 0 TMP\_107 = 2 TMP\_108 = 0 not(TMP\_108) = 1 TMP\_109 = 0 not(TMP\_109) = 1 TMP\_110 = 1 not(TMP\_110) = 0 TMP\_111 = 1 not(TMP\_111) = 0 TMP\_112 = 1 not(TMP\_112) = 0 TMP\_113 = 2 TMP\_114 = 0 not(TMP\_114) = 1 TMP\_115 = 1 not(TMP\_115) = 0 TMP\_116 = 1 not(TMP\_116) = 0 TMP\_117 = 1 not(TMP\_117) = 0 TMP\_118 = 1 not(TMP\_118) = 0 TMP\_119 = 0 not(TMP\_119) = 1 TMP\_120 = 4 TMP\_121 = 0 not(TMP\_121) = 1 TMP\_122 = 0 not(TMP\_122) = 1 TMP\_123 = 0 TMP\_124 = 1 not(TMP\_124) = 0 TMP\_125 = 1 not(TMP\_125) = 0 TMP\_126 = 2 TMP\_127 = 0 not(TMP\_127) = 1 TMP\_128 = 0 not(TMP\_128) = 1 TMP\_129 = 1 not(TMP\_129) = 0 TMP\_130 = 1 not(TMP\_130) = 0 TMP\_131 = 1 not(TMP\_131) = 0 TMP\_132 = 2 TMP\_133 = 1 not(TMP\_133) = 0 TMP\_134 = 1 not(TMP\_134) = 0 TMP\_135 = 1 not(TMP\_135) = 0 TMP\_136 = 1 not(TMP\_136) = 0 TMP\_137 = 1 not(TMP\_137) = 0 TMP\_138 = 0 not(TMP\_138) = 1 TMP\_139 = 5 TMP\_140 = 0 not(TMP\_140) = 1 TMP\_141 = 0 not(TMP\_141) = 1 TMP\_142 = 0 TMP\_143 = 1 not(TMP\_143) = 0 TMP\_144 = 1 not(TMP\_144) = 0 TMP\_145 = 2 TMP\_146 = 0 not(TMP\_146) = 1 TMP\_147 = 0 not(TMP\_147) = 1 TMP\_148 = 1 not(TMP\_148) = 0 TMP\_149 = 1 not(TMP\_149) = 0 TMP\_150 = 1 not(TMP\_150) = 0 TMP\_151 = 2 TMP\_152 = 1 not(TMP\_152) = 0 TMP\_153 = 0 not(TMP\_153) = 1 TMP\_154 = 1 not(TMP\_154) = 0 TMP\_155 = 1 not(TMP\_155) = 0 TMP\_156 = 1 not(TMP\_156) = 0 TMP\_157 = 0 not(TMP\_157) = 1 TMP\_158 = 4 TMP\_159 = 0 not(TMP\_159) = 1 TMP\_160 = 0 not(TMP\_160) = 1 TMP\_161 = 0 TMP\_162 = 1 not(TMP\_162) = 0 TMP\_163 = 1 not(TMP\_163) = 0 TMP\_164 = 2 TMP\_165 = 0 not(TMP\_165) = 1 TMP\_166 = 0 not(TMP\_166) = 1 TMP\_167 = 1 not(TMP\_167) = 0 TMP\_168 = 1 not(TMP\_168) = 0 TMP\_169 = 1 not(TMP\_169) = 0 TMP\_170 = 2 TMP\_171 = 1 not(TMP\_171) = 0 TMP\_172 = 0 not(TMP\_172) = 1 TMP\_173 = 1 not(TMP\_173) = 0 TMP\_174 = 1 not(TMP\_174) = 0 TMP\_175 = 1 not(TMP\_175) = 0 TMP\_176 = 1 not(TMP\_176) = 0 TMP\_177 = 5 TMP\_178 = 0 not(TMP\_178) = 1 TMP\_179 = 0 not(TMP\_179) = 1 TMP\_180 = 0 TMP\_181 = 1 not(TMP\_181) = 0 TMP\_182 = 1 not(TMP\_182) = 0 TMP\_183 = 2 TMP\_184 = 0 not(TMP\_184) = 1 TMP\_185 = 0 not(TMP\_185) = 1 TMP\_186 = 1 not(TMP\_186) = 0 TMP\_187 = 1 not(TMP\_187) = 0 TMP\_188 = 1 not(TMP\_188) = 0 TMP\_189 = 2 TMP\_190 = 1 not(TMP\_190) = 0 TMP\_191 = 0 not(TMP\_191) = 1 TMP\_192 = 1 not(TMP\_192) = 0 TMP\_193 = 1 not(TMP\_193) = 0 TMP\_194 = 1 not(TMP\_194) = 0 TMP\_195 = 1 not(TMP\_195) = 0 TMP\_196 = 5 TMP\_197 = 0 not(TMP\_197) = 1 TMP\_198 = 0 not(TMP\_198) = 1 TMP\_199 = 0 TMP\_200 = 1 not(TMP\_200) = 0 TMP\_201 = 1 not(TMP\_201) = 0 TMP\_202 = 2 TMP\_203 = 0 not(TMP\_203) = 1 TMP\_204 = 0 not(TMP\_204) = 1 TMP\_205 = 1 not(TMP\_205) = 0 TMP\_206 = 1 not(TMP\_206) = 0 TMP\_207 = 1 not(TMP\_207) = 0 TMP\_208 = 2 TMP\_209 = 1 not(TMP\_209) = 0 TMP\_210 = 0 not(TMP\_210) = 1 TMP\_211 = 1 not(TMP\_211) = 0 TMP\_212 = 1 not(TMP\_212) = 0 TMP\_213 = 1 not(TMP\_213) = 0 TMP\_214 = 1 not(TMP\_214) = 0 TMP\_215 = 5 TMP\_216 = 0 not(TMP\_216) = 1 TMP\_217 = 0 not(TMP\_217) = 1 TMP\_218 = 0 TMP\_219 = 1 not(TMP\_219) = 0 TMP\_220 = 1 not(TMP\_220) = 0 TMP\_221 = 2 TMP\_222 = 0 not(TMP\_222) = 1 TMP\_223 = 0 not(TMP\_223) = 1 TMP\_224 = 1 not(TMP\_224) = 0 TMP\_225 = 1 not(TMP\_225) = 0 TMP\_226 = 1 not(TMP\_226) = 0 TMP\_227 = 2 TMP\_228 = 1 not(TMP\_228) = 0 TMP\_229 = 0 not(TMP\_229) = 1 TMP\_230 = 1 not(TMP\_230) = 0 TMP\_231 = 1 not(TMP\_231) = 0 TMP\_232 = 1 not(TMP\_232) = 0 TMP\_233 = 0 not(TMP\_233) = 1 TMP\_234 = 4 TMP\_235 = 0 not(TMP\_235) = 1 TMP\_236 = 0 not(TMP\_236) = 1 TMP\_237 = 0 TMP\_238 = 1 not(TMP\_238) = 0 TMP\_239 = 1 not(TMP\_239) = 0 TMP\_240 = 2 TMP\_241 = 0 not(TMP\_241) = 1 TMP\_242 = 0 not(TMP\_242) = 1 TMP\_243 = 1 not(TMP\_243) = 0 TMP\_244 = 1 not(TMP\_244) = 0 TMP\_245 = 1 not(TMP\_245) = 0 TMP\_246 = 2 TMP\_247 = 1 not(TMP\_247) = 0 TMP\_248 = 1 not(TMP\_248) = 0 TMP\_249 = 1 not(TMP\_249) = 0 TMP\_250 = 1 not(TMP\_250) = 0 TMP\_251 = 1 not(TMP\_251) = 0 TMP\_252 = 0 not(TMP\_252) = 1 TMP\_253 = 5 TMP\_254 = 0 not(TMP\_254) = 1 TMP\_255 = 0 not(TMP\_255) = 1 TMP\_256 = 0 TMP\_257 = 1 not(TMP\_257) = 0 TMP\_258 = 1 not(TMP\_258) = 0 TMP\_259 = 2 TMP\_260 = 0 not(TMP\_260) = 1 TMP\_261 = 0 not(TMP\_261) = 1 TMP\_262 = 1 not(TMP\_262) = 0 TMP\_263 = 1 not(TMP\_263) = 0 TMP\_264 = 1 not(TMP\_264) = 0 TMP\_265 = 2 TMP\_266 = 0 not(TMP\_266) = 1 TMP\_267 = 1 not(TMP\_267) = 0 TMP\_268 = 1 not(TMP\_268) = 0 TMP\_269 = 1 not(TMP\_269) = 0 TMP\_270 = 1 not(TMP\_270) = 0 TMP\_271 = 1 not(TMP\_271) = 0 TMP\_272 = 5 TMP\_273 = 0 not(TMP\_273) = 1 TMP\_274 = 0 not(TMP\_274) = 1 TMP\_275 = 0 TMP\_276 = 1 not(TMP\_276) = 0 TMP\_277 = 1 not(TMP\_277) = 0 TMP\_278 = 2 TMP\_279 = 0 not(TMP\_279) = 1 TMP\_280 = 0 not(TMP\_280) = 1 TMP\_281 = 1 not(TMP\_281) = 0 TMP\_282 = 1 not(TMP\_282) = 0 TMP\_283 = 1 not(TMP\_283) = 0 TMP\_284 = 2 TMP\_285 = 0 not(TMP\_285) = 1 TMP\_286 = 1 not(TMP\_286) = 0 TMP\_287 = 1 not(TMP\_287) = 0 TMP\_288 = 1 not(TMP\_288) = 0 TMP\_289 = 1 not(TMP\_289) = 0 TMP\_290 = 1 not(TMP\_290) = 0 TMP\_291 = 5 TMP\_292 = 0 not(TMP\_292) = 1 TMP\_293 = 0 not(TMP\_293) = 1 TMP\_294 = 0 TMP\_295 = 1 not(TMP\_295) = 0 TMP\_296 = 1 not(TMP\_296) = 0 TMP\_297 = 2 TMP\_298 = 0 not(TMP\_298) = 1 TMP\_299 = 0 not(TMP\_299) = 1 TMP\_300 = 1 not(TMP\_300) = 0 TMP\_301 = 1 not(TMP\_301) = 0 TMP\_302 = 1 not(TMP\_302) = 0 TMP\_303 = 2 TMP\_304 = 0 not(TMP\_304) = 1 TMP\_305 = 1 not(TMP\_305) = 0 TMP\_306 = 1 not(TMP\_306) = 0 TMP\_307 = 1 not(TMP\_307) = 0 TMP\_308 = 0 not(TMP\_308) = 1 TMP\_309 = 1 not(TMP\_309) = 0 TMP\_310 = 4 TMP\_311 = 0 not(TMP\_311) = 1 TMP\_312 = 0 not(TMP\_312) = 1 TMP\_313 = 0 TMP\_314 = 1 not(TMP\_314) = 0 TMP\_315 = 1 not(TMP\_315) = 0 TMP\_316 = 2 TMP\_317 = 0 not(TMP\_317) = 1 TMP\_318 = 0 not(TMP\_318) = 1 TMP\_319 = 1 not(TMP\_319) = 0 TMP\_320 = 1 not(TMP\_320) = 0 TMP\_321 = 1 not(TMP\_321) = 0 TMP\_322 = 2 TMP\_323 = 0 not(TMP\_323) = 1 TMP\_324 = 1 not(TMP\_324) = 0 TMP\_325 = 1 not(TMP\_325) = 0 TMP\_326 = 1 not(TMP\_326) = 0 TMP\_327 = 0 not(TMP\_327) = 1 TMP\_328 = 1 not(TMP\_328) = 0 TMP\_329 = 4 TMP\_330 = 0 not(TMP\_330) = 1 TMP\_331 = 0 not(TMP\_331) = 1 TMP\_332 = 0 TMP\_333 = 1 not(TMP\_333) = 0 TMP\_334 = 1 not(TMP\_334) = 0 TMP\_335 = 2 TMP\_336 = 0 not(TMP\_336) = 1 TMP\_337 = 0 not(TMP\_337) = 1 TMP\_338 = 1 not(TMP\_338) = 0 TMP\_339 = 1 not(TMP\_339) = 0 TMP\_340 = 1 not(TMP\_340) = 0 TMP\_341 = 2 TMP\_342 = 1 not(TMP\_342) = 0 TMP\_343 = 1 not(TMP\_343) = 0 TMP\_344 = 1 not(TMP\_344) = 0 TMP\_345 = 1 not(TMP\_345) = 0 TMP\_346 = 0 not(TMP\_346) = 1 TMP\_347 = 1 not(TMP\_347) = 0 TMP\_348 = 5 TMP\_349 = 0 not(TMP\_349) = 1 TMP\_350 = 0 not(TMP\_350) = 1 TMP\_351 = 0 TMP\_352 = 1 not(TMP\_352) = 0 TMP\_353 = 1 not(TMP\_353) = 0 TMP\_354 = 2 TMP\_355 = 0 not(TMP\_355) = 1 TMP\_356 = 0 not(TMP\_356) = 1 TMP\_357 = 1 not(TMP\_357) = 0 TMP\_358 = 1 not(TMP\_358) = 0 TMP\_359 = 1 not(TMP\_359) = 0 TMP\_360 = 2 TMP\_361 = 0 not(TMP\_361) = 1 TMP\_362 = 1 not(TMP\_362) = 0 TMP\_363 = 1 not(TMP\_363) = 0 TMP\_364 = 1 not(TMP\_364) = 0 TMP\_365 = 0 not(TMP\_365) = 1 TMP\_366 = 1 not(TMP\_366) = 0 TMP\_367 = 4 TMP\_368 = 0 not(TMP\_368) = 1 TMP\_369 = 0 not(TMP\_369) = 1 TMP\_370 = 0 TMP\_371 = 1 not(TMP\_371) = 0 TMP\_372 = 1 not(TMP\_372) = 0 TMP\_373 = 2 TMP\_374 = 0 not(TMP\_374) = 1 TMP\_375 = 0 not(TMP\_375) = 1 TMP\_376 = 1 not(TMP\_376) = 0 TMP\_377 = 1 not(TMP\_377) = 0 TMP\_378 = 1 not(TMP\_378) = 0 TMP\_379 = 2 TMP\_380 = 0 not(TMP\_380) = 1 TMP\_381 = 1 not(TMP\_381) = 0 TMP\_382 = 1 not(TMP\_382) = 0 TMP\_383 = 1 not(TMP\_383) = 0 TMP\_384 = 1 not(TMP\_384) = 0 TMP\_385 = 1 not(TMP\_385) = 0 TMP\_386 = 5 TMP\_387 = 0 not(TMP\_387) = 1 TMP\_388 = 0 not(TMP\_388) = 1 TMP\_389 = 0 TMP\_390 = 1 not(TMP\_390) = 0 TMP\_391 = 1 not(TMP\_391) = 0 TMP\_392 = 2 TMP\_393 = 0 not(TMP\_393) = 1 TMP\_394 = 0 not(TMP\_394) = 1 TMP\_395 = 1 not(TMP\_395) = 0 TMP\_396 = 1 not(TMP\_396) = 0 TMP\_397 = 1 not(TMP\_397) = 0 TMP\_398 = 2 TMP\_399 = 0 not(TMP\_399) = 1 TMP\_400 = 1 not(TMP\_400) = 0 TMP\_401 = 1 not(TMP\_401) = 0 TMP\_402 = 1 not(TMP\_402) = 0 TMP\_403 = 1 not(TMP\_403) = 0 TMP\_404 = 1 not(TMP\_404) = 0 TMP\_405 = 5 TMP\_406 = 0 not(TMP\_406) = 1 TMP\_407 = 0 not(TMP\_407) = 1 TMP\_408 = 0 TMP\_409 = 1 not(TMP\_409) = 0 TMP\_410 = 1 not(TMP\_410) = 0 TMP\_411 = 2 TMP\_412 = 0 not(TMP\_412) = 1 TMP\_413 = 0 not(TMP\_413) = 1 TMP\_414 = 1 not(TMP\_414) = 0 TMP\_415 = 1 not(TMP\_415) = 0 TMP\_416 = 1 not(TMP\_416) = 0 TMP\_417 = 2 TMP\_418 = 1 not(TMP\_418) = 0 TMP\_419 = 0 not(TMP\_419) = 1 TMP\_420 = 1 not(TMP\_420) = 0 TMP\_421 = 1 not(TMP\_421) = 0 TMP\_422 = 1 not(TMP\_422) = 0 TMP\_423 = 1 not(TMP\_423) = 0 TMP\_424 = 5 TMP\_425 = 0 not(TMP\_425) = 1 TMP\_426 = 0 not(TMP\_426) = 1 TMP\_427 = 0 TMP\_428 = 1 not(TMP\_428) = 0 TMP\_429 = 1 not(TMP\_429) = 0 TMP\_430 = 2 TMP\_431 = 0 not(TMP\_431) = 1 TMP\_432 = 0 not(TMP\_432) = 1 TMP\_433 = 1 not(TMP\_433) = 0 TMP\_434 = 1 not(TMP\_434) = 0 TMP\_435 = 1 not(TMP\_435) = 0 TMP\_436 = 2 TMP\_437 = 1 not(TMP\_437) = 0 TMP\_438 = 0 not(TMP\_438) = 1 TMP\_439 = 1 not(TMP\_439) = 0 TMP\_440 = 1 not(TMP\_440) = 0 TMP\_441 = 0 not(TMP\_441) = 1 TMP\_442 = 1 not(TMP\_442) = 0 TMP\_443 = 4 TMP\_444 = 0 not(TMP\_444) = 1 TMP\_445 = 0 not(TMP\_445) = 1 TMP\_446 = 0 TMP\_447 = 1 not(TMP\_447) = 0 TMP\_448 = 1 not(TMP\_448) = 0 TMP\_449 = 2 TMP\_450 = 0 not(TMP\_450) = 1 TMP\_451 = 0 not(TMP\_451) = 1 TMP\_452 = 1 not(TMP\_452) = 0 TMP\_453 = 1 not(TMP\_453) = 0 TMP\_454 = 1 not(TMP\_454) = 0 TMP\_455 = 2 TMP\_456 = 1 not(TMP\_456) = 0 TMP\_457 = 0 not(TMP\_457) = 1 TMP\_458 = 1 not(TMP\_458) = 0 TMP\_459 = 1 not(TMP\_459) = 0 TMP\_460 = 0 not(TMP\_460) = 1 TMP\_461 = 1 not(TMP\_461) = 0 TMP\_462 = 4 TMP\_463 = 0 not(TMP\_463) = 1 TMP\_464 = 0 not(TMP\_464) = 1 TMP\_465 = 0 TMP\_466 = 1 not(TMP\_466) = 0 TMP\_467 = 1 not(TMP\_467) = 0 TMP\_468 = 2 TMP\_469 = 0 not(TMP\_469) = 1 TMP\_470 = 0 not(TMP\_470) = 1 TMP\_471 = 1 not(TMP\_471) = 0 TMP\_472 = 1 not(TMP\_472) = 0 TMP\_473 = 1 not(TMP\_473) = 0 TMP\_474 = 2 TMP\_475 = 1 not(TMP\_475) = 0 TMP\_476 = 0 not(TMP\_476) = 1 TMP\_477 = 1 not(TMP\_477) = 0 TMP\_478 = 1 not(TMP\_478) = 0 TMP\_479 = 0 not(TMP\_479) = 1 TMP\_480 = 1 not(TMP\_480) = 0 TMP\_481 = 4 TMP\_482 = 0 not(TMP\_482) = 1 TMP\_483 = 0 not(TMP\_483) = 1 TMP\_484 = 0 TMP\_485 = 1 not(TMP\_485) = 0 TMP\_486 = 1 not(TMP\_486) = 0 TMP\_487 = 2 TMP\_488 = 0 not(TMP\_488) = 1 TMP\_489 = 0 not(TMP\_489) = 1 TMP\_490 = 1 not(TMP\_490) = 0 TMP\_491 = 1 not(TMP\_491) = 0 TMP\_492 = 1 not(TMP\_492) = 0 TMP\_493 = 2 TMP\_494 = 1 not(TMP\_494) = 0 TMP\_495 = 1 not(TMP\_495) = 0 TMP\_496 = 1 not(TMP\_496) = 0 TMP\_497 = 1 not(TMP\_497) = 0 TMP\_498 = 0 not(TMP\_498) = 1 TMP\_499 = 1 not(TMP\_499) = 0 TMP\_500 = 5 TMP\_501 = 0 not(TMP\_501) = 1 TMP\_502 = 0 not(TMP\_502) = 1 TMP\_503 = 0 TMP\_504 = 1 not(TMP\_504) = 0 TMP\_505 = 1 not(TMP\_505) = 0 TMP\_506 = 2 TMP\_507 = 0 not(TMP\_507) = 1 TMP\_508 = 0 not(TMP\_508) = 1 TMP\_509 = 1 not(TMP\_509) = 0 TMP\_510 = 1 not(TMP\_510) = 0 TMP\_511 = 1 not(TMP\_511) = 0 TMP\_512 = 2 TMP\_513 = 1 not(TMP\_513) = 0 TMP\_514 = 0 not(TMP\_514) = 1 TMP\_515 = 1 not(TMP\_515) = 0 TMP\_516 = 1 not(TMP\_516) = 0 TMP\_517 = 1 not(TMP\_517) = 0 TMP\_518 = 1 not(TMP\_518) = 0 TMP\_519 = 5 TMP\_520 = 0 not(TMP\_520) = 1 TMP\_521 = 0 not(TMP\_521) = 1 TMP\_522 = 0 TMP\_523 = 1 not(TMP\_523) = 0 TMP\_524 = 1 not(TMP\_524) = 0 TMP\_525 = 2 TMP\_526 = 0 not(TMP\_526) = 1 TMP\_527 = 0 not(TMP\_527) = 1 TMP\_528 = 1 not(TMP\_528) = 0 TMP\_529 = 1 not(TMP\_529) = 0 TMP\_530 = 1 not(TMP\_530) = 0 TMP\_531 = 2 Area\_0 = 60 Distance\_0\_Rule\_0 = 20 Distance\_1\_Rule\_0 = 3 Distance\_2\_Rule\_0 = 1 Area\_1 = 174 Distance\_0\_Rule\_1 = 58 Distance\_1\_Rule\_1 = 3 Distance\_2\_Rule\_1 = 1 Area\_2 = 116 Distance\_0\_Rule\_2 = 58 Distance\_1\_Rule\_2 = 2 Distance\_2\_Rule\_2 = 1 Area\_3 = 58 Distance\_0\_Rule\_3 = 58 Distance\_1\_Rule\_3 = 1 Distance\_2\_Rule\_3 = 1 Area\_4 = 123 -(Rule\_4\_LB) = -79 Distance\_0\_Rule\_4 = 41 -(Rule\_4\_LB) = 0 Distance\_1\_Rule\_4 = 3 -(Rule\_4\_LB) = 0 Distance\_2\_Rule\_4 = 1 Area\_5 = 63 -(Rule\_5\_LB) = 0 Distance\_0\_Rule\_5 = 21 -(Rule\_5\_LB) = 0 Distance\_1\_Rule\_5 = 3 -(Rule\_5\_LB) = 0 Distance\_2\_Rule\_5 = 1 Area\_6 = 123 -(Rule\_6\_LB) = -79 Distance\_0\_Rule\_6 = 41 -(Rule\_6\_LB) = 0 Distance\_1\_Rule\_6 = 3 -(Rule\_6\_LB) = -1 Distance\_2\_Rule\_6 = 1 Area\_7 = 3 -(Rule\_7\_LB) = -20 Distance\_0\_Rule\_7 = 1 -(Rule\_7\_LB) = 0 Distance\_1\_Rule\_7 = 3 -(Rule\_7\_LB) = -1 Distance\_2\_Rule\_7 = 1 TMP\_532 = 720 .

- Solution #2 found. 2 Solutions, Resolution 0.237s, 82 Nodes (346.7 n/s), 108 Backtracks, 58 Fails, 0 Restarts

Rule\_4\_LB = 79 Rule\_4\_UB = 120 Rule\_4\_LB = 0 Rule\_4\_UB = 3 Rule\_4\_LB = 0 Rule\_4\_UB = 1 Rule\_5\_LB = 0 Rule\_5\_UB = 21 Rule\_5\_LB = 0 Rule\_5\_UB = 3 Rule\_5\_LB = 0 Rule\_5\_UB = 1 Rule\_6\_LB = 79 Rule\_6\_UB = 120 Rule\_6\_LB = 0 Rule\_6\_UB = 3 Rule\_6\_LB = 1 Rule\_6\_UB = 2 Rule\_7\_LB = 20 Rule\_7\_UB = 21 Rule\_7\_LB = 0 Rule\_7\_UB = 3 Rule\_7\_LB = 1 Rule\_7\_UB = 2 Overlaps\_0\_0 = 0 Overlaps\_0\_1 = 0 Overlaps\_0\_2 = 0 Overlaps\_0\_3 = 0 Overlaps\_0\_4 = 0 Overlaps\_0\_5 = 0 Overlaps\_0\_6 = 0 Overlaps\_0\_7 = 0 Overlaps\_1\_0 = 0 Overlaps\_1\_1 = 0 Overlaps\_1\_2 = 0 Overlaps\_1\_3 = 0 Overlaps\_1\_4 = 0 Overlaps\_1\_5 = 0 Overlaps\_1\_6 = 0 Overlaps\_1\_7 = 0 Overlaps\_2\_0 = 0 Overlaps\_2\_1 = 1 Overlaps\_2\_2 = 0 Overlaps\_2\_3 = 0 Overlaps\_2\_4 = 0 Overlaps\_2\_5 = 0 Overlaps\_2\_6 = 0 Overlaps\_2\_7 = 0 Overlaps\_3\_0 = 0 Overlaps\_3\_1 = 0 Overlaps\_3\_2 = 0 Overlaps\_3\_3 = 0 Overlaps\_3\_4 = 0 Overlaps\_3\_5 = 0 Overlaps\_3\_6 = 0 Overlaps\_3\_7 = 0 Overlaps\_4\_0 = 0 Overlaps\_4\_1 = 0 Overlaps\_4\_2 = 0 Overlaps\_4\_3 = 0 Overlaps\_4\_4 = 0 Overlaps\_4\_5 = 0 Overlaps\_4\_6 = 0 Overlaps\_4\_7 = 0 Overlaps\_5\_0 = 0 Overlaps\_5\_1 = 0 Overlaps\_5\_2 = 0 Overlaps\_5\_3 = 0 Overlaps\_5\_4 = 0 Overlaps\_5\_5 = 0 Overlaps\_5\_6 = 0 Overlaps\_5\_7 = 0 Overlaps\_6\_0 = 0 Overlaps\_6\_1 = 0 Overlaps\_6\_2 = 0 Overlaps\_6\_3 = 0 Overlaps\_6\_4 = 0 Overlaps\_6\_5 = 0 Overlaps\_6\_6 = 0 Overlaps\_6\_7 = 0 Overlaps\_7\_0 = 0 Overlaps\_7\_1 = 0 Overlaps\_7\_2 = 0 Overlaps\_7\_3 = 0 Overlaps\_7\_4 = 0 Overlaps\_7\_5 = 0 Overlaps\_7\_6 = 0 Overlaps\_7\_7 = 0 TMP\_0 = 0 not(TMP\_0) = 1 TMP\_1 = 1 not(TMP\_1) = 0 TMP\_2 = 1 not(TMP\_2) = 0 TMP\_3 = 1 not(TMP\_3) = 0 TMP\_4 = 1 not(TMP\_4) = 0 TMP\_5 = 0 not(TMP\_5) = 1 TMP\_6 = 4 TMP\_7 = 0 not(TMP\_7) = 1 TMP\_8 = 0 not(TMP\_8) = 1 TMP\_9 = 0 TMP\_10 = 1 not(TMP\_10) = 0 TMP\_11 = 1 not(TMP\_11) = 0 TMP\_12 = 2 TMP\_13 = 0 not(TMP\_13) = 1 TMP\_14 = 0 not(TMP\_14) = 1 TMP\_15 = 1 not(TMP\_15) = 0 TMP\_16 = 1 not(TMP\_16) = 0 TMP\_17 = 1 not(TMP\_17) = 0 TMP\_18 = 2 TMP\_19 = 0 not(TMP\_19) = 1 TMP\_20 = 1 not(TMP\_20) = 0 TMP\_21 = 1 not(TMP\_21) = 0 TMP\_22 = 1 not(TMP\_22) = 0 TMP\_23 = 1 not(TMP\_23) = 0 TMP\_24 = 0 not(TMP\_24) = 1 TMP\_25 = 4 TMP\_26 = 0 not(TMP\_26) = 1 TMP\_27 = 0 not(TMP\_27) = 1 TMP\_28 = 0 TMP\_29 = 1 not(TMP\_29) = 0 TMP\_30 = 1 not(TMP\_30) = 0 TMP\_31 = 2 TMP\_32 = 0 not(TMP\_32) = 1 TMP\_33 = 0 not(TMP\_33) = 1 TMP\_34 = 1 not(TMP\_34) = 0 TMP\_35 = 1 not(TMP\_35) = 0 TMP\_36 = 1 not(TMP\_36) = 0 TMP\_37 = 2 TMP\_38 = 0 not(TMP\_38) = 1 TMP\_39 = 1 not(TMP\_39) = 0 TMP\_40 = 1 not(TMP\_40) = 0 TMP\_41 = 1 not(TMP\_41) = 0 TMP\_42 = 1 not(TMP\_42) = 0 TMP\_43 = 1 not(TMP\_43) = 0 TMP\_44 = 5 TMP\_45 = 0 not(TMP\_45) = 1 TMP\_46 = 0 not(TMP\_46) = 1 TMP\_47 = 0 TMP\_48 = 1 not(TMP\_48) = 0 TMP\_49 = 1 not(TMP\_49) = 0 TMP\_50 = 2 TMP\_51 = 0 not(TMP\_51) = 1 TMP\_52 = 0 not(TMP\_52) = 1 TMP\_53 = 1 not(TMP\_53) = 0 TMP\_54 = 1 not(TMP\_54) = 0 TMP\_55 = 1 not(TMP\_55) = 0 TMP\_56 = 2 TMP\_57 = 0 not(TMP\_57) = 1 TMP\_58 = 1 not(TMP\_58) = 0 TMP\_59 = 1 not(TMP\_59) = 0 TMP\_60 = 1 not(TMP\_60) = 0 TMP\_61 = 1 not(TMP\_61) = 0 TMP\_62 = 1 not(TMP\_62) = 0 TMP\_63 = 5 TMP\_64 = 0 not(TMP\_64) = 1 TMP\_65 = 0 not(TMP\_65) = 1 TMP\_66 = 0 TMP\_67 = 1 not(TMP\_67) = 0 TMP\_68 = 1 not(TMP\_68) = 0 TMP\_69 = 2 TMP\_70 = 0 not(TMP\_70) = 1 TMP\_71 = 0 not(TMP\_71) = 1 TMP\_72 = 1 not(TMP\_72) = 0 TMP\_73 = 1 not(TMP\_73) = 0 TMP\_74 = 1 not(TMP\_74) = 0 TMP\_75 = 2 TMP\_76 = 0 not(TMP\_76) = 1 TMP\_77 = 1 not(TMP\_77) = 0 TMP\_78 = 1 not(TMP\_78) = 0 TMP\_79 = 1 not(TMP\_79) = 0 TMP\_80 = 1 not(TMP\_80) = 0 TMP\_81 = 1 not(TMP\_81) = 0 TMP\_82 = 5 TMP\_83 = 0 not(TMP\_83) = 1 TMP\_84 = 0 not(TMP\_84) = 1 TMP\_85 = 0 TMP\_86 = 1 not(TMP\_86) = 0 TMP\_87 = 1 not(TMP\_87) = 0 TMP\_88 = 2 TMP\_89 = 0 not(TMP\_89) = 1 TMP\_90 = 0 not(TMP\_90) = 1 TMP\_91 = 1 not(TMP\_91) = 0 TMP\_92 = 1 not(TMP\_92) = 0 TMP\_93 = 1 not(TMP\_93) = 0 TMP\_94 = 2 TMP\_95 = 1 not(TMP\_95) = 0 TMP\_96 = 1 not(TMP\_96) = 0 TMP\_97 = 1 not(TMP\_97) = 0 TMP\_98 = 1 not(TMP\_98) = 0 TMP\_99 = 1 not(TMP\_99) = 0 TMP\_100 = 0 not(TMP\_100) = 1 TMP\_101 = 5 TMP\_102 = 0 not(TMP\_102) = 1 TMP\_103 = 0 not(TMP\_103) = 1 TMP\_104 = 0 TMP\_105 = 1 not(TMP\_105) = 0 TMP\_106 = 1 not(TMP\_106) = 0 TMP\_107 = 2 TMP\_108 = 0 not(TMP\_108) = 1 TMP\_109 = 0 not(TMP\_109) = 1 TMP\_110 = 1 not(TMP\_110) = 0 TMP\_111 = 1 not(TMP\_111) = 0 TMP\_112 = 1 not(TMP\_112) = 0 TMP\_113 = 2 TMP\_114 = 0 not(TMP\_114) = 1 TMP\_115 = 1 not(TMP\_115) = 0 TMP\_116 = 1 not(TMP\_116) = 0 TMP\_117 = 1 not(TMP\_117) = 0 TMP\_118 = 1 not(TMP\_118) = 0 TMP\_119 = 0 not(TMP\_119) = 1 TMP\_120 = 4 TMP\_121 = 0 not(TMP\_121) = 1 TMP\_122 = 0 not(TMP\_122) = 1 TMP\_123 = 0 TMP\_124 = 1 not(TMP\_124) = 0 TMP\_125 = 1 not(TMP\_125) = 0 TMP\_126 = 2 TMP\_127 = 0 not(TMP\_127) = 1 TMP\_128 = 0 not(TMP\_128) = 1 TMP\_129 = 1 not(TMP\_129) = 0 TMP\_130 = 1 not(TMP\_130) = 0 TMP\_131 = 1 not(TMP\_131) = 0 TMP\_132 = 2 TMP\_133 = 1 not(TMP\_133) = 0 TMP\_134 = 1 not(TMP\_134) = 0 TMP\_135 = 1 not(TMP\_135) = 0 TMP\_136 = 1 not(TMP\_136) = 0 TMP\_137 = 1 not(TMP\_137) = 0 TMP\_138 = 0 not(TMP\_138) = 1 TMP\_139 = 5 TMP\_140 = 0 not(TMP\_140) = 1 TMP\_141 = 0 not(TMP\_141) = 1 TMP\_142 = 0 TMP\_143 = 1 not(TMP\_143) = 0 TMP\_144 = 1 not(TMP\_144) = 0 TMP\_145 = 2 TMP\_146 = 0 not(TMP\_146) = 1 TMP\_147 = 0 not(TMP\_147) = 1 TMP\_148 = 1 not(TMP\_148) = 0 TMP\_149 = 1 not(TMP\_149) = 0 TMP\_150 = 1 not(TMP\_150) = 0 TMP\_151 = 2 TMP\_152 = 1 not(TMP\_152) = 0 TMP\_153 = 0 not(TMP\_153) = 1 TMP\_154 = 1 not(TMP\_154) = 0 TMP\_155 = 1 not(TMP\_155) = 0 TMP\_156 = 1 not(TMP\_156) = 0 TMP\_157 = 0 not(TMP\_157) = 1 TMP\_158 = 4 TMP\_159 = 0 not(TMP\_159) = 1 TMP\_160 = 0 not(TMP\_160) = 1 TMP\_161 = 0 TMP\_162 = 1 not(TMP\_162) = 0 TMP\_163 = 1 not(TMP\_163) = 0 TMP\_164 = 2 TMP\_165 = 0 not(TMP\_165) = 1 TMP\_166 = 0 not(TMP\_166) = 1 TMP\_167 = 1 not(TMP\_167) = 0 TMP\_168 = 1 not(TMP\_168) = 0 TMP\_169 = 1 not(TMP\_169) = 0 TMP\_170 = 2 TMP\_171 = 1 not(TMP\_171) = 0 TMP\_172 = 0 not(TMP\_172) = 1 TMP\_173 = 1 not(TMP\_173) = 0 TMP\_174 = 1 not(TMP\_174) = 0 TMP\_175 = 1 not(TMP\_175) = 0 TMP\_176 = 1 not(TMP\_176) = 0 TMP\_177 = 5 TMP\_178 = 0 not(TMP\_178) = 1 TMP\_179 = 0 not(TMP\_179) = 1 TMP\_180 = 0 TMP\_181 = 1 not(TMP\_181) = 0 TMP\_182 = 1 not(TMP\_182) = 0 TMP\_183 = 2 TMP\_184 = 0 not(TMP\_184) = 1 TMP\_185 = 0 not(TMP\_185) = 1 TMP\_186 = 1 not(TMP\_186) = 0 TMP\_187 = 1 not(TMP\_187) = 0 TMP\_188 = 1 not(TMP\_188) = 0 TMP\_189 = 2 TMP\_190 = 1 not(TMP\_190) = 0 TMP\_191 = 0 not(TMP\_191) = 1 TMP\_192 = 1 not(TMP\_192) = 0 TMP\_193 = 1 not(TMP\_193) = 0 TMP\_194 = 1 not(TMP\_194) = 0 TMP\_195 = 1 not(TMP\_195) = 0 TMP\_196 = 5 TMP\_197 = 0 not(TMP\_197) = 1 TMP\_198 = 0 not(TMP\_198) = 1 TMP\_199 = 0 TMP\_200 = 1 not(TMP\_200) = 0 TMP\_201 = 1 not(TMP\_201) = 0 TMP\_202 = 2 TMP\_203 = 0 not(TMP\_203) = 1 TMP\_204 = 0 not(TMP\_204) = 1 TMP\_205 = 1 not(TMP\_205) = 0 TMP\_206 = 1 not(TMP\_206) = 0 TMP\_207 = 1 not(TMP\_207) = 0 TMP\_208 = 2 TMP\_209 = 1 not(TMP\_209) = 0 TMP\_210 = 0 not(TMP\_210) = 1 TMP\_211 = 1 not(TMP\_211) = 0 TMP\_212 = 1 not(TMP\_212) = 0 TMP\_213 = 1 not(TMP\_213) = 0 TMP\_214 = 1 not(TMP\_214) = 0 TMP\_215 = 5 TMP\_216 = 0 not(TMP\_216) = 1 TMP\_217 = 0 not(TMP\_217) = 1 TMP\_218 = 0 TMP\_219 = 1 not(TMP\_219) = 0 TMP\_220 = 1 not(TMP\_220) = 0 TMP\_221 = 2 TMP\_222 = 0 not(TMP\_222) = 1 TMP\_223 = 0 not(TMP\_223) = 1 TMP\_224 = 1 not(TMP\_224) = 0 TMP\_225 = 1 not(TMP\_225) = 0 TMP\_226 = 1 not(TMP\_226) = 0 TMP\_227 = 2 TMP\_228 = 1 not(TMP\_228) = 0 TMP\_229 = 0 not(TMP\_229) = 1 TMP\_230 = 1 not(TMP\_230) = 0 TMP\_231 = 1 not(TMP\_231) = 0 TMP\_232 = 1 not(TMP\_232) = 0 TMP\_233 = 0 not(TMP\_233) = 1 TMP\_234 = 4 TMP\_235 = 0 not(TMP\_235) = 1 TMP\_236 = 0 not(TMP\_236) = 1 TMP\_237 = 0 TMP\_238 = 1 not(TMP\_238) = 0 TMP\_239 = 1 not(TMP\_239) = 0 TMP\_240 = 2 TMP\_241 = 0 not(TMP\_241) = 1 TMP\_242 = 0 not(TMP\_242) = 1 TMP\_243 = 1 not(TMP\_243) = 0 TMP\_244 = 1 not(TMP\_244) = 0 TMP\_245 = 1 not(TMP\_245) = 0 TMP\_246 = 2 TMP\_247 = 1 not(TMP\_247) = 0 TMP\_248 = 1 not(TMP\_248) = 0 TMP\_249 = 1 not(TMP\_249) = 0 TMP\_250 = 1 not(TMP\_250) = 0 TMP\_251 = 1 not(TMP\_251) = 0 TMP\_252 = 0 not(TMP\_252) = 1 TMP\_253 = 5 TMP\_254 = 0 not(TMP\_254) = 1 TMP\_255 = 0 not(TMP\_255) = 1 TMP\_256 = 0 TMP\_257 = 1 not(TMP\_257) = 0 TMP\_258 = 1 not(TMP\_258) = 0 TMP\_259 = 2 TMP\_260 = 0 not(TMP\_260) = 1 TMP\_261 = 0 not(TMP\_261) = 1 TMP\_262 = 1 not(TMP\_262) = 0 TMP\_263 = 1 not(TMP\_263) = 0 TMP\_264 = 1 not(TMP\_264) = 0 TMP\_265 = 2 TMP\_266 = 0 not(TMP\_266) = 1 TMP\_267 = 1 not(TMP\_267) = 0 TMP\_268 = 1 not(TMP\_268) = 0 TMP\_269 = 1 not(TMP\_269) = 0 TMP\_270 = 1 not(TMP\_270) = 0 TMP\_271 = 1 not(TMP\_271) = 0 TMP\_272 = 5 TMP\_273 = 0 not(TMP\_273) = 1 TMP\_274 = 0 not(TMP\_274) = 1 TMP\_275 = 0 TMP\_276 = 1 not(TMP\_276) = 0 TMP\_277 = 1 not(TMP\_277) = 0 TMP\_278 = 2 TMP\_279 = 0 not(TMP\_279) = 1 TMP\_280 = 0 not(TMP\_280) = 1 TMP\_281 = 1 not(TMP\_281) = 0 TMP\_282 = 1 not(TMP\_282) = 0 TMP\_283 = 1 not(TMP\_283) = 0 TMP\_284 = 2 TMP\_285 = 0 not(TMP\_285) = 1 TMP\_286 = 1 not(TMP\_286) = 0 TMP\_287 = 1 not(TMP\_287) = 0 TMP\_288 = 1 not(TMP\_288) = 0 TMP\_289 = 1 not(TMP\_289) = 0 TMP\_290 = 1 not(TMP\_290) = 0 TMP\_291 = 5 TMP\_292 = 0 not(TMP\_292) = 1 TMP\_293 = 0 not(TMP\_293) = 1 TMP\_294 = 0 TMP\_295 = 1 not(TMP\_295) = 0 TMP\_296 = 1 not(TMP\_296) = 0 TMP\_297 = 2 TMP\_298 = 0 not(TMP\_298) = 1 TMP\_299 = 0 not(TMP\_299) = 1 TMP\_300 = 1 not(TMP\_300) = 0 TMP\_301 = 1 not(TMP\_301) = 0 TMP\_302 = 1 not(TMP\_302) = 0 TMP\_303 = 2 TMP\_304 = 0 not(TMP\_304) = 1 TMP\_305 = 1 not(TMP\_305) = 0 TMP\_306 = 1 not(TMP\_306) = 0 TMP\_307 = 1 not(TMP\_307) = 0 TMP\_308 = 0 not(TMP\_308) = 1 TMP\_309 = 1 not(TMP\_309) = 0 TMP\_310 = 4 TMP\_311 = 0 not(TMP\_311) = 1 TMP\_312 = 0 not(TMP\_312) = 1 TMP\_313 = 0 TMP\_314 = 1 not(TMP\_314) = 0 TMP\_315 = 1 not(TMP\_315) = 0 TMP\_316 = 2 TMP\_317 = 0 not(TMP\_317) = 1 TMP\_318 = 0 not(TMP\_318) = 1 TMP\_319 = 1 not(TMP\_319) = 0 TMP\_320 = 1 not(TMP\_320) = 0 TMP\_321 = 1 not(TMP\_321) = 0 TMP\_322 = 2 TMP\_323 = 0 not(TMP\_323) = 1 TMP\_324 = 1 not(TMP\_324) = 0 TMP\_325 = 1 not(TMP\_325) = 0 TMP\_326 = 1 not(TMP\_326) = 0 TMP\_327 = 0 not(TMP\_327) = 1 TMP\_328 = 1 not(TMP\_328) = 0 TMP\_329 = 4 TMP\_330 = 0 not(TMP\_330) = 1 TMP\_331 = 0 not(TMP\_331) = 1 TMP\_332 = 0 TMP\_333 = 1 not(TMP\_333) = 0 TMP\_334 = 1 not(TMP\_334) = 0 TMP\_335 = 2 TMP\_336 = 0 not(TMP\_336) = 1 TMP\_337 = 0 not(TMP\_337) = 1 TMP\_338 = 1 not(TMP\_338) = 0 TMP\_339 = 1 not(TMP\_339) = 0 TMP\_340 = 1 not(TMP\_340) = 0 TMP\_341 = 2 TMP\_342 = 1 not(TMP\_342) = 0 TMP\_343 = 1 not(TMP\_343) = 0 TMP\_344 = 1 not(TMP\_344) = 0 TMP\_345 = 1 not(TMP\_345) = 0 TMP\_346 = 0 not(TMP\_346) = 1 TMP\_347 = 1 not(TMP\_347) = 0 TMP\_348 = 5 TMP\_349 = 0 not(TMP\_349) = 1 TMP\_350 = 0 not(TMP\_350) = 1 TMP\_351 = 0 TMP\_352 = 1 not(TMP\_352) = 0 TMP\_353 = 1 not(TMP\_353) = 0 TMP\_354 = 2 TMP\_355 = 0 not(TMP\_355) = 1 TMP\_356 = 0 not(TMP\_356) = 1 TMP\_357 = 1 not(TMP\_357) = 0 TMP\_358 = 1 not(TMP\_358) = 0 TMP\_359 = 1 not(TMP\_359) = 0 TMP\_360 = 2 TMP\_361 = 0 not(TMP\_361) = 1 TMP\_362 = 1 not(TMP\_362) = 0 TMP\_363 = 1 not(TMP\_363) = 0 TMP\_364 = 1 not(TMP\_364) = 0 TMP\_365 = 0 not(TMP\_365) = 1 TMP\_366 = 1 not(TMP\_366) = 0 TMP\_367 = 4 TMP\_368 = 0 not(TMP\_368) = 1 TMP\_369 = 0 not(TMP\_369) = 1 TMP\_370 = 0 TMP\_371 = 1 not(TMP\_371) = 0 TMP\_372 = 1 not(TMP\_372) = 0 TMP\_373 = 2 TMP\_374 = 0 not(TMP\_374) = 1 TMP\_375 = 0 not(TMP\_375) = 1 TMP\_376 = 1 not(TMP\_376) = 0 TMP\_377 = 1 not(TMP\_377) = 0 TMP\_378 = 1 not(TMP\_378) = 0 TMP\_379 = 2 TMP\_380 = 0 not(TMP\_380) = 1 TMP\_381 = 1 not(TMP\_381) = 0 TMP\_382 = 1 not(TMP\_382) = 0 TMP\_383 = 1 not(TMP\_383) = 0 TMP\_384 = 1 not(TMP\_384) = 0 TMP\_385 = 1 not(TMP\_385) = 0 TMP\_386 = 5 TMP\_387 = 0 not(TMP\_387) = 1 TMP\_388 = 0 not(TMP\_388) = 1 TMP\_389 = 0 TMP\_390 = 1 not(TMP\_390) = 0 TMP\_391 = 1 not(TMP\_391) = 0 TMP\_392 = 2 TMP\_393 = 0 not(TMP\_393) = 1 TMP\_394 = 0 not(TMP\_394) = 1 TMP\_395 = 1 not(TMP\_395) = 0 TMP\_396 = 1 not(TMP\_396) = 0 TMP\_397 = 1 not(TMP\_397) = 0 TMP\_398 = 2 TMP\_399 = 0 not(TMP\_399) = 1 TMP\_400 = 1 not(TMP\_400) = 0 TMP\_401 = 1 not(TMP\_401) = 0 TMP\_402 = 1 not(TMP\_402) = 0 TMP\_403 = 1 not(TMP\_403) = 0 TMP\_404 = 1 not(TMP\_404) = 0 TMP\_405 = 5 TMP\_406 = 0 not(TMP\_406) = 1 TMP\_407 = 0 not(TMP\_407) = 1 TMP\_408 = 0 TMP\_409 = 1 not(TMP\_409) = 0 TMP\_410 = 1 not(TMP\_410) = 0 TMP\_411 = 2 TMP\_412 = 0 not(TMP\_412) = 1 TMP\_413 = 0 not(TMP\_413) = 1 TMP\_414 = 1 not(TMP\_414) = 0 TMP\_415 = 1 not(TMP\_415) = 0 TMP\_416 = 1 not(TMP\_416) = 0 TMP\_417 = 2 TMP\_418 = 1 not(TMP\_418) = 0 TMP\_419 = 0 not(TMP\_419) = 1 TMP\_420 = 1 not(TMP\_420) = 0 TMP\_421 = 1 not(TMP\_421) = 0 TMP\_422 = 1 not(TMP\_422) = 0 TMP\_423 = 1 not(TMP\_423) = 0 TMP\_424 = 5 TMP\_425 = 0 not(TMP\_425) = 1 TMP\_426 = 0 not(TMP\_426) = 1 TMP\_427 = 0 TMP\_428 = 1 not(TMP\_428) = 0 TMP\_429 = 1 not(TMP\_429) = 0 TMP\_430 = 2 TMP\_431 = 0 not(TMP\_431) = 1 TMP\_432 = 0 not(TMP\_432) = 1 TMP\_433 = 1 not(TMP\_433) = 0 TMP\_434 = 1 not(TMP\_434) = 0 TMP\_435 = 1 not(TMP\_435) = 0 TMP\_436 = 2 TMP\_437 = 1 not(TMP\_437) = 0 TMP\_438 = 0 not(TMP\_438) = 1 TMP\_439 = 1 not(TMP\_439) = 0 TMP\_440 = 1 not(TMP\_440) = 0 TMP\_441 = 0 not(TMP\_441) = 1 TMP\_442 = 1 not(TMP\_442) = 0 TMP\_443 = 4 TMP\_444 = 0 not(TMP\_444) = 1 TMP\_445 = 0 not(TMP\_445) = 1 TMP\_446 = 0 TMP\_447 = 1 not(TMP\_447) = 0 TMP\_448 = 1 not(TMP\_448) = 0 TMP\_449 = 2 TMP\_450 = 0 not(TMP\_450) = 1 TMP\_451 = 0 not(TMP\_451) = 1 TMP\_452 = 1 not(TMP\_452) = 0 TMP\_453 = 1 not(TMP\_453) = 0 TMP\_454 = 1 not(TMP\_454) = 0 TMP\_455 = 2 TMP\_456 = 1 not(TMP\_456) = 0 TMP\_457 = 0 not(TMP\_457) = 1 TMP\_458 = 1 not(TMP\_458) = 0 TMP\_459 = 1 not(TMP\_459) = 0 TMP\_460 = 0 not(TMP\_460) = 1 TMP\_461 = 1 not(TMP\_461) = 0 TMP\_462 = 4 TMP\_463 = 0 not(TMP\_463) = 1 TMP\_464 = 0 not(TMP\_464) = 1 TMP\_465 = 0 TMP\_466 = 1 not(TMP\_466) = 0 TMP\_467 = 1 not(TMP\_467) = 0 TMP\_468 = 2 TMP\_469 = 0 not(TMP\_469) = 1 TMP\_470 = 0 not(TMP\_470) = 1 TMP\_471 = 1 not(TMP\_471) = 0 TMP\_472 = 1 not(TMP\_472) = 0 TMP\_473 = 1 not(TMP\_473) = 0 TMP\_474 = 2 TMP\_475 = 1 not(TMP\_475) = 0 TMP\_476 = 0 not(TMP\_476) = 1 TMP\_477 = 1 not(TMP\_477) = 0 TMP\_478 = 1 not(TMP\_478) = 0 TMP\_479 = 0 not(TMP\_479) = 1 TMP\_480 = 1 not(TMP\_480) = 0 TMP\_481 = 4 TMP\_482 = 0 not(TMP\_482) = 1 TMP\_483 = 0 not(TMP\_483) = 1 TMP\_484 = 0 TMP\_485 = 1 not(TMP\_485) = 0 TMP\_486 = 1 not(TMP\_486) = 0 TMP\_487 = 2 TMP\_488 = 0 not(TMP\_488) = 1 TMP\_489 = 0 not(TMP\_489) = 1 TMP\_490 = 1 not(TMP\_490) = 0 TMP\_491 = 1 not(TMP\_491) = 0 TMP\_492 = 1 not(TMP\_492) = 0 TMP\_493 = 2 TMP\_494 = 1 not(TMP\_494) = 0 TMP\_495 = 1 not(TMP\_495) = 0 TMP\_496 = 1 not(TMP\_496) = 0 TMP\_497 = 1 not(TMP\_497) = 0 TMP\_498 = 0 not(TMP\_498) = 1 TMP\_499 = 1 not(TMP\_499) = 0 TMP\_500 = 5 TMP\_501 = 0 not(TMP\_501) = 1 TMP\_502 = 0 not(TMP\_502) = 1 TMP\_503 = 0 TMP\_504 = 1 not(TMP\_504) = 0 TMP\_505 = 1 not(TMP\_505) = 0 TMP\_506 = 2 TMP\_507 = 0 not(TMP\_507) = 1 TMP\_508 = 0 not(TMP\_508) = 1 TMP\_509 = 1 not(TMP\_509) = 0 TMP\_510 = 1 not(TMP\_510) = 0 TMP\_511 = 1 not(TMP\_511) = 0 TMP\_512 = 2 TMP\_513 = 1 not(TMP\_513) = 0 TMP\_514 = 0 not(TMP\_514) = 1 TMP\_515 = 1 not(TMP\_515) = 0 TMP\_516 = 1 not(TMP\_516) = 0 TMP\_517 = 1 not(TMP\_517) = 0 TMP\_518 = 1 not(TMP\_518) = 0 TMP\_519 = 5 TMP\_520 = 0 not(TMP\_520) = 1 TMP\_521 = 0 not(TMP\_521) = 1 TMP\_522 = 0 TMP\_523 = 1 not(TMP\_523) = 0 TMP\_524 = 1 not(TMP\_524) = 0 TMP\_525 = 2 TMP\_526 = 0 not(TMP\_526) = 1 TMP\_527 = 0 not(TMP\_527) = 1 TMP\_528 = 1 not(TMP\_528) = 0 TMP\_529 = 1 not(TMP\_529) = 0 TMP\_530 = 1 not(TMP\_530) = 0 TMP\_531 = 2 Area\_0 = 60 Distance\_0\_Rule\_0 = 20 Distance\_1\_Rule\_0 = 3 Distance\_2\_Rule\_0 = 1 Area\_1 = 174 Distance\_0\_Rule\_1 = 58 Distance\_1\_Rule\_1 = 3 Distance\_2\_Rule\_1 = 1 Area\_2 = 116 Distance\_0\_Rule\_2 = 58 Distance\_1\_Rule\_2 = 2 Distance\_2\_Rule\_2 = 1 Area\_3 = 58 Distance\_0\_Rule\_3 = 58 Distance\_1\_Rule\_3 = 1 Distance\_2\_Rule\_3 = 1 Area\_4 = 123 -(Rule\_4\_LB) = -79 Distance\_0\_Rule\_4 = 41 -(Rule\_4\_LB) = 0 Distance\_1\_Rule\_4 = 3 -(Rule\_4\_LB) = 0 Distance\_2\_Rule\_4 = 1 Area\_5 = 63 -(Rule\_5\_LB) = 0 Distance\_0\_Rule\_5 = 21 -(Rule\_5\_LB) = 0 Distance\_1\_Rule\_5 = 3 -(Rule\_5\_LB) = 0 Distance\_2\_Rule\_5 = 1 Area\_6 = 123 -(Rule\_6\_LB) = -79 Distance\_0\_Rule\_6 = 41 -(Rule\_6\_LB) = 0 Distance\_1\_Rule\_6 = 3 -(Rule\_6\_LB) = -1 Distance\_2\_Rule\_6 = 1 Area\_7 = 3 -(Rule\_7\_LB) = -20 Distance\_0\_Rule\_7 = 1 -(Rule\_7\_LB) = 0 Distance\_1\_Rule\_7 = 3 -(Rule\_7\_LB) = -1 Distance\_2\_Rule\_7 = 1 TMP\_532 = 720 .

- Solution #3 found. 3 Solutions, Resolution 0.250s, 84 Nodes (336.6 n/s), 110 Backtracks, 58 Fails, 0 Restarts

Rule\_4\_LB = 79 Rule\_4\_UB = 120 Rule\_4\_LB = 0 Rule\_4\_UB = 3 Rule\_4\_LB = 0 Rule\_4\_UB = 1 Rule\_5\_LB = 0 Rule\_5\_UB = 21 Rule\_5\_LB = 0 Rule\_5\_UB = 3 Rule\_5\_LB = 0 Rule\_5\_UB = 1 Rule\_6\_LB = 79 Rule\_6\_UB = 120 Rule\_6\_LB = 0 Rule\_6\_UB = 3 Rule\_6\_LB = 1 Rule\_6\_UB = 2 Rule\_7\_LB = 20 Rule\_7\_UB = 21 Rule\_7\_LB = 0 Rule\_7\_UB = 3 Rule\_7\_LB = 1 Rule\_7\_UB = 2 Overlaps\_0\_0 = 0 Overlaps\_0\_1 = 0 Overlaps\_0\_2 = 0 Overlaps\_0\_3 = 1 Overlaps\_0\_4 = 0 Overlaps\_0\_5 = 0 Overlaps\_0\_6 = 0 Overlaps\_0\_7 = 0 Overlaps\_1\_0 = 0 Overlaps\_1\_1 = 0 Overlaps\_1\_2 = 0 Overlaps\_1\_3 = 0 Overlaps\_1\_4 = 0 Overlaps\_1\_5 = 0 Overlaps\_1\_6 = 0 Overlaps\_1\_7 = 0 Overlaps\_2\_0 = 0 Overlaps\_2\_1 = 0 Overlaps\_2\_2 = 0 Overlaps\_2\_3 = 0 Overlaps\_2\_4 = 0 Overlaps\_2\_5 = 0 Overlaps\_2\_6 = 0 Overlaps\_2\_7 = 0 Overlaps\_3\_0 = 0 Overlaps\_3\_1 = 0 Overlaps\_3\_2 = 0 Overlaps\_3\_3 = 0 Overlaps\_3\_4 = 0 Overlaps\_3\_5 = 0 Overlaps\_3\_6 = 0 Overlaps\_3\_7 = 0 Overlaps\_4\_0 = 0 Overlaps\_4\_1 = 0 Overlaps\_4\_2 = 0 Overlaps\_4\_3 = 0 Overlaps\_4\_4 = 0 Overlaps\_4\_5 = 0 Overlaps\_4\_6 = 0 Overlaps\_4\_7 = 0 Overlaps\_5\_0 = 0 Overlaps\_5\_1 = 0 Overlaps\_5\_2 = 0 Overlaps\_5\_3 = 0 Overlaps\_5\_4 = 0 Overlaps\_5\_5 = 0 Overlaps\_5\_6 = 0 Overlaps\_5\_7 = 0 Overlaps\_6\_0 = 0 Overlaps\_6\_1 = 0 Overlaps\_6\_2 = 0 Overlaps\_6\_3 = 0 Overlaps\_6\_4 = 0 Overlaps\_6\_5 = 0 Overlaps\_6\_6 = 0 Overlaps\_6\_7 = 0 Overlaps\_7\_0 = 0 Overlaps\_7\_1 = 0 Overlaps\_7\_2 = 0 Overlaps\_7\_3 = 0 Overlaps\_7\_4 = 0 Overlaps\_7\_5 = 0 Overlaps\_7\_6 = 0 Overlaps\_7\_7 = 0 TMP\_0 = 0 not(TMP\_0) = 1 TMP\_1 = 1 not(TMP\_1) = 0 TMP\_2 = 1 not(TMP\_2) = 0 TMP\_3 = 1 not(TMP\_3) = 0 TMP\_4 = 1 not(TMP\_4) = 0 TMP\_5 = 0 not(TMP\_5) = 1 TMP\_6 = 4 TMP\_7 = 0 not(TMP\_7) = 1 TMP\_8 = 0 not(TMP\_8) = 1 TMP\_9 = 0 TMP\_10 = 1 not(TMP\_10) = 0 TMP\_11 = 1 not(TMP\_11) = 0 TMP\_12 = 2 TMP\_13 = 0 not(TMP\_13) = 1 TMP\_14 = 0 not(TMP\_14) = 1 TMP\_15 = 1 not(TMP\_15) = 0 TMP\_16 = 1 not(TMP\_16) = 0 TMP\_17 = 1 not(TMP\_17) = 0 TMP\_18 = 2 TMP\_19 = 0 not(TMP\_19) = 1 TMP\_20 = 1 not(TMP\_20) = 0 TMP\_21 = 1 not(TMP\_21) = 0 TMP\_22 = 1 not(TMP\_22) = 0 TMP\_23 = 1 not(TMP\_23) = 0 TMP\_24 = 0 not(TMP\_24) = 1 TMP\_25 = 4 TMP\_26 = 0 not(TMP\_26) = 1 TMP\_27 = 0 not(TMP\_27) = 1 TMP\_28 = 0 TMP\_29 = 1 not(TMP\_29) = 0 TMP\_30 = 1 not(TMP\_30) = 0 TMP\_31 = 2 TMP\_32 = 0 not(TMP\_32) = 1 TMP\_33 = 0 not(TMP\_33) = 1 TMP\_34 = 1 not(TMP\_34) = 0 TMP\_35 = 1 not(TMP\_35) = 0 TMP\_36 = 1 not(TMP\_36) = 0 TMP\_37 = 2 TMP\_38 = 0 not(TMP\_38) = 1 TMP\_39 = 1 not(TMP\_39) = 0 TMP\_40 = 1 not(TMP\_40) = 0 TMP\_41 = 1 not(TMP\_41) = 0 TMP\_42 = 1 not(TMP\_42) = 0 TMP\_43 = 1 not(TMP\_43) = 0 TMP\_44 = 5 TMP\_45 = 0 not(TMP\_45) = 1 TMP\_46 = 0 not(TMP\_46) = 1 TMP\_47 = 0 TMP\_48 = 1 not(TMP\_48) = 0 TMP\_49 = 1 not(TMP\_49) = 0 TMP\_50 = 2 TMP\_51 = 0 not(TMP\_51) = 1 TMP\_52 = 0 not(TMP\_52) = 1 TMP\_53 = 1 not(TMP\_53) = 0 TMP\_54 = 1 not(TMP\_54) = 0 TMP\_55 = 1 not(TMP\_55) = 0 TMP\_56 = 2 TMP\_57 = 0 not(TMP\_57) = 1 TMP\_58 = 1 not(TMP\_58) = 0 TMP\_59 = 1 not(TMP\_59) = 0 TMP\_60 = 1 not(TMP\_60) = 0 TMP\_61 = 1 not(TMP\_61) = 0 TMP\_62 = 1 not(TMP\_62) = 0 TMP\_63 = 5 TMP\_64 = 0 not(TMP\_64) = 1 TMP\_65 = 0 not(TMP\_65) = 1 TMP\_66 = 0 TMP\_67 = 1 not(TMP\_67) = 0 TMP\_68 = 1 not(TMP\_68) = 0 TMP\_69 = 2 TMP\_70 = 0 not(TMP\_70) = 1 TMP\_71 = 0 not(TMP\_71) = 1 TMP\_72 = 1 not(TMP\_72) = 0 TMP\_73 = 1 not(TMP\_73) = 0 TMP\_74 = 1 not(TMP\_74) = 0 TMP\_75 = 2 TMP\_76 = 0 not(TMP\_76) = 1 TMP\_77 = 1 not(TMP\_77) = 0 TMP\_78 = 1 not(TMP\_78) = 0 TMP\_79 = 1 not(TMP\_79) = 0 TMP\_80 = 1 not(TMP\_80) = 0 TMP\_81 = 1 not(TMP\_81) = 0 TMP\_82 = 5 TMP\_83 = 0 not(TMP\_83) = 1 TMP\_84 = 0 not(TMP\_84) = 1 TMP\_85 = 0 TMP\_86 = 1 not(TMP\_86) = 0 TMP\_87 = 1 not(TMP\_87) = 0 TMP\_88 = 2 TMP\_89 = 0 not(TMP\_89) = 1 TMP\_90 = 0 not(TMP\_90) = 1 TMP\_91 = 1 not(TMP\_91) = 0 TMP\_92 = 1 not(TMP\_92) = 0 TMP\_93 = 1 not(TMP\_93) = 0 TMP\_94 = 2 TMP\_95 = 1 not(TMP\_95) = 0 TMP\_96 = 1 not(TMP\_96) = 0 TMP\_97 = 1 not(TMP\_97) = 0 TMP\_98 = 1 not(TMP\_98) = 0 TMP\_99 = 1 not(TMP\_99) = 0 TMP\_100 = 0 not(TMP\_100) = 1 TMP\_101 = 5 TMP\_102 = 0 not(TMP\_102) = 1 TMP\_103 = 0 not(TMP\_103) = 1 TMP\_104 = 0 TMP\_105 = 1 not(TMP\_105) = 0 TMP\_106 = 1 not(TMP\_106) = 0 TMP\_107 = 2 TMP\_108 = 0 not(TMP\_108) = 1 TMP\_109 = 0 not(TMP\_109) = 1 TMP\_110 = 1 not(TMP\_110) = 0 TMP\_111 = 1 not(TMP\_111) = 0 TMP\_112 = 1 not(TMP\_112) = 0 TMP\_113 = 2 TMP\_114 = 0 not(TMP\_114) = 1 TMP\_115 = 1 not(TMP\_115) = 0 TMP\_116 = 1 not(TMP\_116) = 0 TMP\_117 = 1 not(TMP\_117) = 0 TMP\_118 = 1 not(TMP\_118) = 0 TMP\_119 = 0 not(TMP\_119) = 1 TMP\_120 = 4 TMP\_121 = 0 not(TMP\_121) = 1 TMP\_122 = 0 not(TMP\_122) = 1 TMP\_123 = 0 TMP\_124 = 1 not(TMP\_124) = 0 TMP\_125 = 1 not(TMP\_125) = 0 TMP\_126 = 2 TMP\_127 = 0 not(TMP\_127) = 1 TMP\_128 = 0 not(TMP\_128) = 1 TMP\_129 = 1 not(TMP\_129) = 0 TMP\_130 = 1 not(TMP\_130) = 0 TMP\_131 = 1 not(TMP\_131) = 0 TMP\_132 = 2 TMP\_133 = 1 not(TMP\_133) = 0 TMP\_134 = 1 not(TMP\_134) = 0 TMP\_135 = 1 not(TMP\_135) = 0 TMP\_136 = 1 not(TMP\_136) = 0 TMP\_137 = 1 not(TMP\_137) = 0 TMP\_138 = 0 not(TMP\_138) = 1 TMP\_139 = 5 TMP\_140 = 0 not(TMP\_140) = 1 TMP\_141 = 0 not(TMP\_141) = 1 TMP\_142 = 0 TMP\_143 = 1 not(TMP\_143) = 0 TMP\_144 = 1 not(TMP\_144) = 0 TMP\_145 = 2 TMP\_146 = 0 not(TMP\_146) = 1 TMP\_147 = 0 not(TMP\_147) = 1 TMP\_148 = 1 not(TMP\_148) = 0 TMP\_149 = 1 not(TMP\_149) = 0 TMP\_150 = 1 not(TMP\_150) = 0 TMP\_151 = 2 TMP\_152 = 1 not(TMP\_152) = 0 TMP\_153 = 0 not(TMP\_153) = 1 TMP\_154 = 1 not(TMP\_154) = 0 TMP\_155 = 1 not(TMP\_155) = 0 TMP\_156 = 1 not(TMP\_156) = 0 TMP\_157 = 0 not(TMP\_157) = 1 TMP\_158 = 4 TMP\_159 = 0 not(TMP\_159) = 1 TMP\_160 = 0 not(TMP\_160) = 1 TMP\_161 = 0 TMP\_162 = 1 not(TMP\_162) = 0 TMP\_163 = 1 not(TMP\_163) = 0 TMP\_164 = 2 TMP\_165 = 0 not(TMP\_165) = 1 TMP\_166 = 0 not(TMP\_166) = 1 TMP\_167 = 1 not(TMP\_167) = 0 TMP\_168 = 1 not(TMP\_168) = 0 TMP\_169 = 1 not(TMP\_169) = 0 TMP\_170 = 2 TMP\_171 = 1 not(TMP\_171) = 0 TMP\_172 = 0 not(TMP\_172) = 1 TMP\_173 = 1 not(TMP\_173) = 0 TMP\_174 = 1 not(TMP\_174) = 0 TMP\_175 = 1 not(TMP\_175) = 0 TMP\_176 = 1 not(TMP\_176) = 0 TMP\_177 = 5 TMP\_178 = 0 not(TMP\_178) = 1 TMP\_179 = 0 not(TMP\_179) = 1 TMP\_180 = 0 TMP\_181 = 1 not(TMP\_181) = 0 TMP\_182 = 1 not(TMP\_182) = 0 TMP\_183 = 2 TMP\_184 = 0 not(TMP\_184) = 1 TMP\_185 = 0 not(TMP\_185) = 1 TMP\_186 = 1 not(TMP\_186) = 0 TMP\_187 = 1 not(TMP\_187) = 0 TMP\_188 = 1 not(TMP\_188) = 0 TMP\_189 = 2 TMP\_190 = 1 not(TMP\_190) = 0 TMP\_191 = 0 not(TMP\_191) = 1 TMP\_192 = 1 not(TMP\_192) = 0 TMP\_193 = 1 not(TMP\_193) = 0 TMP\_194 = 1 not(TMP\_194) = 0 TMP\_195 = 1 not(TMP\_195) = 0 TMP\_196 = 5 TMP\_197 = 0 not(TMP\_197) = 1 TMP\_198 = 0 not(TMP\_198) = 1 TMP\_199 = 0 TMP\_200 = 1 not(TMP\_200) = 0 TMP\_201 = 1 not(TMP\_201) = 0 TMP\_202 = 2 TMP\_203 = 0 not(TMP\_203) = 1 TMP\_204 = 0 not(TMP\_204) = 1 TMP\_205 = 1 not(TMP\_205) = 0 TMP\_206 = 1 not(TMP\_206) = 0 TMP\_207 = 1 not(TMP\_207) = 0 TMP\_208 = 2 TMP\_209 = 1 not(TMP\_209) = 0 TMP\_210 = 0 not(TMP\_210) = 1 TMP\_211 = 1 not(TMP\_211) = 0 TMP\_212 = 1 not(TMP\_212) = 0 TMP\_213 = 1 not(TMP\_213) = 0 TMP\_214 = 1 not(TMP\_214) = 0 TMP\_215 = 5 TMP\_216 = 0 not(TMP\_216) = 1 TMP\_217 = 0 not(TMP\_217) = 1 TMP\_218 = 0 TMP\_219 = 1 not(TMP\_219) = 0 TMP\_220 = 1 not(TMP\_220) = 0 TMP\_221 = 2 TMP\_222 = 0 not(TMP\_222) = 1 TMP\_223 = 0 not(TMP\_223) = 1 TMP\_224 = 1 not(TMP\_224) = 0 TMP\_225 = 1 not(TMP\_225) = 0 TMP\_226 = 1 not(TMP\_226) = 0 TMP\_227 = 2 TMP\_228 = 1 not(TMP\_228) = 0 TMP\_229 = 0 not(TMP\_229) = 1 TMP\_230 = 1 not(TMP\_230) = 0 TMP\_231 = 1 not(TMP\_231) = 0 TMP\_232 = 1 not(TMP\_232) = 0 TMP\_233 = 0 not(TMP\_233) = 1 TMP\_234 = 4 TMP\_235 = 0 not(TMP\_235) = 1 TMP\_236 = 0 not(TMP\_236) = 1 TMP\_237 = 0 TMP\_238 = 1 not(TMP\_238) = 0 TMP\_239 = 1 not(TMP\_239) = 0 TMP\_240 = 2 TMP\_241 = 0 not(TMP\_241) = 1 TMP\_242 = 0 not(TMP\_242) = 1 TMP\_243 = 1 not(TMP\_243) = 0 TMP\_244 = 1 not(TMP\_244) = 0 TMP\_245 = 1 not(TMP\_245) = 0 TMP\_246 = 2 TMP\_247 = 1 not(TMP\_247) = 0 TMP\_248 = 1 not(TMP\_248) = 0 TMP\_249 = 1 not(TMP\_249) = 0 TMP\_250 = 1 not(TMP\_250) = 0 TMP\_251 = 1 not(TMP\_251) = 0 TMP\_252 = 0 not(TMP\_252) = 1 TMP\_253 = 5 TMP\_254 = 0 not(TMP\_254) = 1 TMP\_255 = 0 not(TMP\_255) = 1 TMP\_256 = 0 TMP\_257 = 1 not(TMP\_257) = 0 TMP\_258 = 1 not(TMP\_258) = 0 TMP\_259 = 2 TMP\_260 = 0 not(TMP\_260) = 1 TMP\_261 = 0 not(TMP\_261) = 1 TMP\_262 = 1 not(TMP\_262) = 0 TMP\_263 = 1 not(TMP\_263) = 0 TMP\_264 = 1 not(TMP\_264) = 0 TMP\_265 = 2 TMP\_266 = 0 not(TMP\_266) = 1 TMP\_267 = 1 not(TMP\_267) = 0 TMP\_268 = 1 not(TMP\_268) = 0 TMP\_269 = 1 not(TMP\_269) = 0 TMP\_270 = 1 not(TMP\_270) = 0 TMP\_271 = 1 not(TMP\_271) = 0 TMP\_272 = 5 TMP\_273 = 0 not(TMP\_273) = 1 TMP\_274 = 0 not(TMP\_274) = 1 TMP\_275 = 0 TMP\_276 = 1 not(TMP\_276) = 0 TMP\_277 = 1 not(TMP\_277) = 0 TMP\_278 = 2 TMP\_279 = 0 not(TMP\_279) = 1 TMP\_280 = 0 not(TMP\_280) = 1 TMP\_281 = 1 not(TMP\_281) = 0 TMP\_282 = 1 not(TMP\_282) = 0 TMP\_283 = 1 not(TMP\_283) = 0 TMP\_284 = 2 TMP\_285 = 0 not(TMP\_285) = 1 TMP\_286 = 1 not(TMP\_286) = 0 TMP\_287 = 1 not(TMP\_287) = 0 TMP\_288 = 1 not(TMP\_288) = 0 TMP\_289 = 1 not(TMP\_289) = 0 TMP\_290 = 1 not(TMP\_290) = 0 TMP\_291 = 5 TMP\_292 = 0 not(TMP\_292) = 1 TMP\_293 = 0 not(TMP\_293) = 1 TMP\_294 = 0 TMP\_295 = 1 not(TMP\_295) = 0 TMP\_296 = 1 not(TMP\_296) = 0 TMP\_297 = 2 TMP\_298 = 0 not(TMP\_298) = 1 TMP\_299 = 0 not(TMP\_299) = 1 TMP\_300 = 1 not(TMP\_300) = 0 TMP\_301 = 1 not(TMP\_301) = 0 TMP\_302 = 1 not(TMP\_302) = 0 TMP\_303 = 2 TMP\_304 = 0 not(TMP\_304) = 1 TMP\_305 = 1 not(TMP\_305) = 0 TMP\_306 = 1 not(TMP\_306) = 0 TMP\_307 = 1 not(TMP\_307) = 0 TMP\_308 = 0 not(TMP\_308) = 1 TMP\_309 = 1 not(TMP\_309) = 0 TMP\_310 = 4 TMP\_311 = 0 not(TMP\_311) = 1 TMP\_312 = 0 not(TMP\_312) = 1 TMP\_313 = 0 TMP\_314 = 1 not(TMP\_314) = 0 TMP\_315 = 1 not(TMP\_315) = 0 TMP\_316 = 2 TMP\_317 = 0 not(TMP\_317) = 1 TMP\_318 = 0 not(TMP\_318) = 1 TMP\_319 = 1 not(TMP\_319) = 0 TMP\_320 = 1 not(TMP\_320) = 0 TMP\_321 = 1 not(TMP\_321) = 0 TMP\_322 = 2 TMP\_323 = 0 not(TMP\_323) = 1 TMP\_324 = 1 not(TMP\_324) = 0 TMP\_325 = 1 not(TMP\_325) = 0 TMP\_326 = 1 not(TMP\_326) = 0 TMP\_327 = 0 not(TMP\_327) = 1 TMP\_328 = 1 not(TMP\_328) = 0 TMP\_329 = 4 TMP\_330 = 0 not(TMP\_330) = 1 TMP\_331 = 0 not(TMP\_331) = 1 TMP\_332 = 0 TMP\_333 = 1 not(TMP\_333) = 0 TMP\_334 = 1 not(TMP\_334) = 0 TMP\_335 = 2 TMP\_336 = 0 not(TMP\_336) = 1 TMP\_337 = 0 not(TMP\_337) = 1 TMP\_338 = 1 not(TMP\_338) = 0 TMP\_339 = 1 not(TMP\_339) = 0 TMP\_340 = 1 not(TMP\_340) = 0 TMP\_341 = 2 TMP\_342 = 1 not(TMP\_342) = 0 TMP\_343 = 1 not(TMP\_343) = 0 TMP\_344 = 1 not(TMP\_344) = 0 TMP\_345 = 1 not(TMP\_345) = 0 TMP\_346 = 0 not(TMP\_346) = 1 TMP\_347 = 1 not(TMP\_347) = 0 TMP\_348 = 5 TMP\_349 = 0 not(TMP\_349) = 1 TMP\_350 = 0 not(TMP\_350) = 1 TMP\_351 = 0 TMP\_352 = 1 not(TMP\_352) = 0 TMP\_353 = 1 not(TMP\_353) = 0 TMP\_354 = 2 TMP\_355 = 0 not(TMP\_355) = 1 TMP\_356 = 0 not(TMP\_356) = 1 TMP\_357 = 1 not(TMP\_357) = 0 TMP\_358 = 1 not(TMP\_358) = 0 TMP\_359 = 1 not(TMP\_359) = 0 TMP\_360 = 2 TMP\_361 = 0 not(TMP\_361) = 1 TMP\_362 = 1 not(TMP\_362) = 0 TMP\_363 = 1 not(TMP\_363) = 0 TMP\_364 = 1 not(TMP\_364) = 0 TMP\_365 = 0 not(TMP\_365) = 1 TMP\_366 = 1 not(TMP\_366) = 0 TMP\_367 = 4 TMP\_368 = 0 not(TMP\_368) = 1 TMP\_369 = 0 not(TMP\_369) = 1 TMP\_370 = 0 TMP\_371 = 1 not(TMP\_371) = 0 TMP\_372 = 1 not(TMP\_372) = 0 TMP\_373 = 2 TMP\_374 = 0 not(TMP\_374) = 1 TMP\_375 = 0 not(TMP\_375) = 1 TMP\_376 = 1 not(TMP\_376) = 0 TMP\_377 = 1 not(TMP\_377) = 0 TMP\_378 = 1 not(TMP\_378) = 0 TMP\_379 = 2 TMP\_380 = 0 not(TMP\_380) = 1 TMP\_381 = 1 not(TMP\_381) = 0 TMP\_382 = 1 not(TMP\_382) = 0 TMP\_383 = 1 not(TMP\_383) = 0 TMP\_384 = 1 not(TMP\_384) = 0 TMP\_385 = 1 not(TMP\_385) = 0 TMP\_386 = 5 TMP\_387 = 0 not(TMP\_387) = 1 TMP\_388 = 0 not(TMP\_388) = 1 TMP\_389 = 0 TMP\_390 = 1 not(TMP\_390) = 0 TMP\_391 = 1 not(TMP\_391) = 0 TMP\_392 = 2 TMP\_393 = 0 not(TMP\_393) = 1 TMP\_394 = 0 not(TMP\_394) = 1 TMP\_395 = 1 not(TMP\_395) = 0 TMP\_396 = 1 not(TMP\_396) = 0 TMP\_397 = 1 not(TMP\_397) = 0 TMP\_398 = 2 TMP\_399 = 0 not(TMP\_399) = 1 TMP\_400 = 1 not(TMP\_400) = 0 TMP\_401 = 1 not(TMP\_401) = 0 TMP\_402 = 1 not(TMP\_402) = 0 TMP\_403 = 1 not(TMP\_403) = 0 TMP\_404 = 1 not(TMP\_404) = 0 TMP\_405 = 5 TMP\_406 = 0 not(TMP\_406) = 1 TMP\_407 = 0 not(TMP\_407) = 1 TMP\_408 = 0 TMP\_409 = 1 not(TMP\_409) = 0 TMP\_410 = 1 not(TMP\_410) = 0 TMP\_411 = 2 TMP\_412 = 0 not(TMP\_412) = 1 TMP\_413 = 0 not(TMP\_413) = 1 TMP\_414 = 1 not(TMP\_414) = 0 TMP\_415 = 1 not(TMP\_415) = 0 TMP\_416 = 1 not(TMP\_416) = 0 TMP\_417 = 2 TMP\_418 = 1 not(TMP\_418) = 0 TMP\_419 = 0 not(TMP\_419) = 1 TMP\_420 = 1 not(TMP\_420) = 0 TMP\_421 = 1 not(TMP\_421) = 0 TMP\_422 = 1 not(TMP\_422) = 0 TMP\_423 = 1 not(TMP\_423) = 0 TMP\_424 = 5 TMP\_425 = 0 not(TMP\_425) = 1 TMP\_426 = 0 not(TMP\_426) = 1 TMP\_427 = 0 TMP\_428 = 1 not(TMP\_428) = 0 TMP\_429 = 1 not(TMP\_429) = 0 TMP\_430 = 2 TMP\_431 = 0 not(TMP\_431) = 1 TMP\_432 = 0 not(TMP\_432) = 1 TMP\_433 = 1 not(TMP\_433) = 0 TMP\_434 = 1 not(TMP\_434) = 0 TMP\_435 = 1 not(TMP\_435) = 0 TMP\_436 = 2 TMP\_437 = 1 not(TMP\_437) = 0 TMP\_438 = 0 not(TMP\_438) = 1 TMP\_439 = 1 not(TMP\_439) = 0 TMP\_440 = 1 not(TMP\_440) = 0 TMP\_441 = 0 not(TMP\_441) = 1 TMP\_442 = 1 not(TMP\_442) = 0 TMP\_443 = 4 TMP\_444 = 0 not(TMP\_444) = 1 TMP\_445 = 0 not(TMP\_445) = 1 TMP\_446 = 0 TMP\_447 = 1 not(TMP\_447) = 0 TMP\_448 = 1 not(TMP\_448) = 0 TMP\_449 = 2 TMP\_450 = 0 not(TMP\_450) = 1 TMP\_451 = 0 not(TMP\_451) = 1 TMP\_452 = 1 not(TMP\_452) = 0 TMP\_453 = 1 not(TMP\_453) = 0 TMP\_454 = 1 not(TMP\_454) = 0 TMP\_455 = 2 TMP\_456 = 1 not(TMP\_456) = 0 TMP\_457 = 0 not(TMP\_457) = 1 TMP\_458 = 1 not(TMP\_458) = 0 TMP\_459 = 1 not(TMP\_459) = 0 TMP\_460 = 0 not(TMP\_460) = 1 TMP\_461 = 1 not(TMP\_461) = 0 TMP\_462 = 4 TMP\_463 = 0 not(TMP\_463) = 1 TMP\_464 = 0 not(TMP\_464) = 1 TMP\_465 = 0 TMP\_466 = 1 not(TMP\_466) = 0 TMP\_467 = 1 not(TMP\_467) = 0 TMP\_468 = 2 TMP\_469 = 0 not(TMP\_469) = 1 TMP\_470 = 0 not(TMP\_470) = 1 TMP\_471 = 1 not(TMP\_471) = 0 TMP\_472 = 1 not(TMP\_472) = 0 TMP\_473 = 1 not(TMP\_473) = 0 TMP\_474 = 2 TMP\_475 = 1 not(TMP\_475) = 0 TMP\_476 = 0 not(TMP\_476) = 1 TMP\_477 = 1 not(TMP\_477) = 0 TMP\_478 = 1 not(TMP\_478) = 0 TMP\_479 = 0 not(TMP\_479) = 1 TMP\_480 = 1 not(TMP\_480) = 0 TMP\_481 = 4 TMP\_482 = 0 not(TMP\_482) = 1 TMP\_483 = 0 not(TMP\_483) = 1 TMP\_484 = 0 TMP\_485 = 1 not(TMP\_485) = 0 TMP\_486 = 1 not(TMP\_486) = 0 TMP\_487 = 2 TMP\_488 = 0 not(TMP\_488) = 1 TMP\_489 = 0 not(TMP\_489) = 1 TMP\_490 = 1 not(TMP\_490) = 0 TMP\_491 = 1 not(TMP\_491) = 0 TMP\_492 = 1 not(TMP\_492) = 0 TMP\_493 = 2 TMP\_494 = 1 not(TMP\_494) = 0 TMP\_495 = 1 not(TMP\_495) = 0 TMP\_496 = 1 not(TMP\_496) = 0 TMP\_497 = 1 not(TMP\_497) = 0 TMP\_498 = 0 not(TMP\_498) = 1 TMP\_499 = 1 not(TMP\_499) = 0 TMP\_500 = 5 TMP\_501 = 0 not(TMP\_501) = 1 TMP\_502 = 0 not(TMP\_502) = 1 TMP\_503 = 0 TMP\_504 = 1 not(TMP\_504) = 0 TMP\_505 = 1 not(TMP\_505) = 0 TMP\_506 = 2 TMP\_507 = 0 not(TMP\_507) = 1 TMP\_508 = 0 not(TMP\_508) = 1 TMP\_509 = 1 not(TMP\_509) = 0 TMP\_510 = 1 not(TMP\_510) = 0 TMP\_511 = 1 not(TMP\_511) = 0 TMP\_512 = 2 TMP\_513 = 1 not(TMP\_513) = 0 TMP\_514 = 0 not(TMP\_514) = 1 TMP\_515 = 1 not(TMP\_515) = 0 TMP\_516 = 1 not(TMP\_516) = 0 TMP\_517 = 1 not(TMP\_517) = 0 TMP\_518 = 1 not(TMP\_518) = 0 TMP\_519 = 5 TMP\_520 = 0 not(TMP\_520) = 1 TMP\_521 = 0 not(TMP\_521) = 1 TMP\_522 = 0 TMP\_523 = 1 not(TMP\_523) = 0 TMP\_524 = 1 not(TMP\_524) = 0 TMP\_525 = 2 TMP\_526 = 0 not(TMP\_526) = 1 TMP\_527 = 0 not(TMP\_527) = 1 TMP\_528 = 1 not(TMP\_528) = 0 TMP\_529 = 1 not(TMP\_529) = 0 TMP\_530 = 1 not(TMP\_530) = 0 TMP\_531 = 2 Area\_0 = 60 Distance\_0\_Rule\_0 = 20 Distance\_1\_Rule\_0 = 3 Distance\_2\_Rule\_0 = 1 Area\_1 = 174 Distance\_0\_Rule\_1 = 58 Distance\_1\_Rule\_1 = 3 Distance\_2\_Rule\_1 = 1 Area\_2 = 116 Distance\_0\_Rule\_2 = 58 Distance\_1\_Rule\_2 = 2 Distance\_2\_Rule\_2 = 1 Area\_3 = 58 Distance\_0\_Rule\_3 = 58 Distance\_1\_Rule\_3 = 1 Distance\_2\_Rule\_3 = 1 Area\_4 = 123 -(Rule\_4\_LB) = -79 Distance\_0\_Rule\_4 = 41 -(Rule\_4\_LB) = 0 Distance\_1\_Rule\_4 = 3 -(Rule\_4\_LB) = 0 Distance\_2\_Rule\_4 = 1 Area\_5 = 63 -(Rule\_5\_LB) = 0 Distance\_0\_Rule\_5 = 21 -(Rule\_5\_LB) = 0 Distance\_1\_Rule\_5 = 3 -(Rule\_5\_LB) = 0 Distance\_2\_Rule\_5 = 1 Area\_6 = 123 -(Rule\_6\_LB) = -79 Distance\_0\_Rule\_6 = 41 -(Rule\_6\_LB) = 0 Distance\_1\_Rule\_6 = 3 -(Rule\_6\_LB) = -1 Distance\_2\_Rule\_6 = 1 Area\_7 = 3 -(Rule\_7\_LB) = -20 Distance\_0\_Rule\_7 = 1 -(Rule\_7\_LB) = 0 Distance\_1\_Rule\_7 = 3 -(Rule\_7\_LB) = -1 Distance\_2\_Rule\_7 = 1 TMP\_532 = 720 .

- Solution #4 found. 4 Solutions, Resolution 0.264s, 85 Nodes (322.6 n/s), 111 Backtracks, 58 Fails, 0 Restarts

Rule\_4\_LB = 79 Rule\_4\_UB = 120 Rule\_4\_LB = 0 Rule\_4\_UB = 3 Rule\_4\_LB = 0 Rule\_4\_UB = 1 Rule\_5\_LB = 0 Rule\_5\_UB = 21 Rule\_5\_LB = 0 Rule\_5\_UB = 3 Rule\_5\_LB = 0 Rule\_5\_UB = 1 Rule\_6\_LB = 79 Rule\_6\_UB = 120 Rule\_6\_LB = 0 Rule\_6\_UB = 3 Rule\_6\_LB = 1 Rule\_6\_UB = 2 Rule\_7\_LB = 20 Rule\_7\_UB = 21 Rule\_7\_LB = 0 Rule\_7\_UB = 3 Rule\_7\_LB = 1 Rule\_7\_UB = 2 Overlaps\_0\_0 = 0 Overlaps\_0\_1 = 0 Overlaps\_0\_2 = 0 Overlaps\_0\_3 = 1 Overlaps\_0\_4 = 0 Overlaps\_0\_5 = 0 Overlaps\_0\_6 = 0 Overlaps\_0\_7 = 0 Overlaps\_1\_0 = 0 Overlaps\_1\_1 = 0 Overlaps\_1\_2 = 0 Overlaps\_1\_3 = 0 Overlaps\_1\_4 = 0 Overlaps\_1\_5 = 0 Overlaps\_1\_6 = 0 Overlaps\_1\_7 = 0 Overlaps\_2\_0 = 0 Overlaps\_2\_1 = 1 Overlaps\_2\_2 = 0 Overlaps\_2\_3 = 0 Overlaps\_2\_4 = 0 Overlaps\_2\_5 = 0 Overlaps\_2\_6 = 0 Overlaps\_2\_7 = 0 Overlaps\_3\_0 = 0 Overlaps\_3\_1 = 0 Overlaps\_3\_2 = 0 Overlaps\_3\_3 = 0 Overlaps\_3\_4 = 0 Overlaps\_3\_5 = 0 Overlaps\_3\_6 = 0 Overlaps\_3\_7 = 0 Overlaps\_4\_0 = 0 Overlaps\_4\_1 = 0 Overlaps\_4\_2 = 0 Overlaps\_4\_3 = 0 Overlaps\_4\_4 = 0 Overlaps\_4\_5 = 0 Overlaps\_4\_6 = 0 Overlaps\_4\_7 = 0 Overlaps\_5\_0 = 0 Overlaps\_5\_1 = 0 Overlaps\_5\_2 = 0 Overlaps\_5\_3 = 0 Overlaps\_5\_4 = 0 Overlaps\_5\_5 = 0 Overlaps\_5\_6 = 0 Overlaps\_5\_7 = 0 Overlaps\_6\_0 = 0 Overlaps\_6\_1 = 0 Overlaps\_6\_2 = 0 Overlaps\_6\_3 = 0 Overlaps\_6\_4 = 0 Overlaps\_6\_5 = 0 Overlaps\_6\_6 = 0 Overlaps\_6\_7 = 0 Overlaps\_7\_0 = 0 Overlaps\_7\_1 = 0 Overlaps\_7\_2 = 0 Overlaps\_7\_3 = 0 Overlaps\_7\_4 = 0 Overlaps\_7\_5 = 0 Overlaps\_7\_6 = 0 Overlaps\_7\_7 = 0 TMP\_0 = 0 not(TMP\_0) = 1 TMP\_1 = 1 not(TMP\_1) = 0 TMP\_2 = 1 not(TMP\_2) = 0 TMP\_3 = 1 not(TMP\_3) = 0 TMP\_4 = 1 not(TMP\_4) = 0 TMP\_5 = 0 not(TMP\_5) = 1 TMP\_6 = 4 TMP\_7 = 0 not(TMP\_7) = 1 TMP\_8 = 0 not(TMP\_8) = 1 TMP\_9 = 0 TMP\_10 = 1 not(TMP\_10) = 0 TMP\_11 = 1 not(TMP\_11) = 0 TMP\_12 = 2 TMP\_13 = 0 not(TMP\_13) = 1 TMP\_14 = 0 not(TMP\_14) = 1 TMP\_15 = 1 not(TMP\_15) = 0 TMP\_16 = 1 not(TMP\_16) = 0 TMP\_17 = 1 not(TMP\_17) = 0 TMP\_18 = 2 TMP\_19 = 0 not(TMP\_19) = 1 TMP\_20 = 1 not(TMP\_20) = 0 TMP\_21 = 1 not(TMP\_21) = 0 TMP\_22 = 1 not(TMP\_22) = 0 TMP\_23 = 1 not(TMP\_23) = 0 TMP\_24 = 0 not(TMP\_24) = 1 TMP\_25 = 4 TMP\_26 = 0 not(TMP\_26) = 1 TMP\_27 = 0 not(TMP\_27) = 1 TMP\_28 = 0 TMP\_29 = 1 not(TMP\_29) = 0 TMP\_30 = 1 not(TMP\_30) = 0 TMP\_31 = 2 TMP\_32 = 0 not(TMP\_32) = 1 TMP\_33 = 0 not(TMP\_33) = 1 TMP\_34 = 1 not(TMP\_34) = 0 TMP\_35 = 1 not(TMP\_35) = 0 TMP\_36 = 1 not(TMP\_36) = 0 TMP\_37 = 2 TMP\_38 = 0 not(TMP\_38) = 1 TMP\_39 = 1 not(TMP\_39) = 0 TMP\_40 = 1 not(TMP\_40) = 0 TMP\_41 = 1 not(TMP\_41) = 0 TMP\_42 = 1 not(TMP\_42) = 0 TMP\_43 = 1 not(TMP\_43) = 0 TMP\_44 = 5 TMP\_45 = 0 not(TMP\_45) = 1 TMP\_46 = 0 not(TMP\_46) = 1 TMP\_47 = 0 TMP\_48 = 1 not(TMP\_48) = 0 TMP\_49 = 1 not(TMP\_49) = 0 TMP\_50 = 2 TMP\_51 = 0 not(TMP\_51) = 1 TMP\_52 = 0 not(TMP\_52) = 1 TMP\_53 = 1 not(TMP\_53) = 0 TMP\_54 = 1 not(TMP\_54) = 0 TMP\_55 = 1 not(TMP\_55) = 0 TMP\_56 = 2 TMP\_57 = 0 not(TMP\_57) = 1 TMP\_58 = 1 not(TMP\_58) = 0 TMP\_59 = 1 not(TMP\_59) = 0 TMP\_60 = 1 not(TMP\_60) = 0 TMP\_61 = 1 not(TMP\_61) = 0 TMP\_62 = 1 not(TMP\_62) = 0 TMP\_63 = 5 TMP\_64 = 0 not(TMP\_64) = 1 TMP\_65 = 0 not(TMP\_65) = 1 TMP\_66 = 0 TMP\_67 = 1 not(TMP\_67) = 0 TMP\_68 = 1 not(TMP\_68) = 0 TMP\_69 = 2 TMP\_70 = 0 not(TMP\_70) = 1 TMP\_71 = 0 not(TMP\_71) = 1 TMP\_72 = 1 not(TMP\_72) = 0 TMP\_73 = 1 not(TMP\_73) = 0 TMP\_74 = 1 not(TMP\_74) = 0 TMP\_75 = 2 TMP\_76 = 0 not(TMP\_76) = 1 TMP\_77 = 1 not(TMP\_77) = 0 TMP\_78 = 1 not(TMP\_78) = 0 TMP\_79 = 1 not(TMP\_79) = 0 TMP\_80 = 1 not(TMP\_80) = 0 TMP\_81 = 1 not(TMP\_81) = 0 TMP\_82 = 5 TMP\_83 = 0 not(TMP\_83) = 1 TMP\_84 = 0 not(TMP\_84) = 1 TMP\_85 = 0 TMP\_86 = 1 not(TMP\_86) = 0 TMP\_87 = 1 not(TMP\_87) = 0 TMP\_88 = 2 TMP\_89 = 0 not(TMP\_89) = 1 TMP\_90 = 0 not(TMP\_90) = 1 TMP\_91 = 1 not(TMP\_91) = 0 TMP\_92 = 1 not(TMP\_92) = 0 TMP\_93 = 1 not(TMP\_93) = 0 TMP\_94 = 2 TMP\_95 = 1 not(TMP\_95) = 0 TMP\_96 = 1 not(TMP\_96) = 0 TMP\_97 = 1 not(TMP\_97) = 0 TMP\_98 = 1 not(TMP\_98) = 0 TMP\_99 = 1 not(TMP\_99) = 0 TMP\_100 = 0 not(TMP\_100) = 1 TMP\_101 = 5 TMP\_102 = 0 not(TMP\_102) = 1 TMP\_103 = 0 not(TMP\_103) = 1 TMP\_104 = 0 TMP\_105 = 1 not(TMP\_105) = 0 TMP\_106 = 1 not(TMP\_106) = 0 TMP\_107 = 2 TMP\_108 = 0 not(TMP\_108) = 1 TMP\_109 = 0 not(TMP\_109) = 1 TMP\_110 = 1 not(TMP\_110) = 0 TMP\_111 = 1 not(TMP\_111) = 0 TMP\_112 = 1 not(TMP\_112) = 0 TMP\_113 = 2 TMP\_114 = 0 not(TMP\_114) = 1 TMP\_115 = 1 not(TMP\_115) = 0 TMP\_116 = 1 not(TMP\_116) = 0 TMP\_117 = 1 not(TMP\_117) = 0 TMP\_118 = 1 not(TMP\_118) = 0 TMP\_119 = 0 not(TMP\_119) = 1 TMP\_120 = 4 TMP\_121 = 0 not(TMP\_121) = 1 TMP\_122 = 0 not(TMP\_122) = 1 TMP\_123 = 0 TMP\_124 = 1 not(TMP\_124) = 0 TMP\_125 = 1 not(TMP\_125) = 0 TMP\_126 = 2 TMP\_127 = 0 not(TMP\_127) = 1 TMP\_128 = 0 not(TMP\_128) = 1 TMP\_129 = 1 not(TMP\_129) = 0 TMP\_130 = 1 not(TMP\_130) = 0 TMP\_131 = 1 not(TMP\_131) = 0 TMP\_132 = 2 TMP\_133 = 1 not(TMP\_133) = 0 TMP\_134 = 1 not(TMP\_134) = 0 TMP\_135 = 1 not(TMP\_135) = 0 TMP\_136 = 1 not(TMP\_136) = 0 TMP\_137 = 1 not(TMP\_137) = 0 TMP\_138 = 0 not(TMP\_138) = 1 TMP\_139 = 5 TMP\_140 = 0 not(TMP\_140) = 1 TMP\_141 = 0 not(TMP\_141) = 1 TMP\_142 = 0 TMP\_143 = 1 not(TMP\_143) = 0 TMP\_144 = 1 not(TMP\_144) = 0 TMP\_145 = 2 TMP\_146 = 0 not(TMP\_146) = 1 TMP\_147 = 0 not(TMP\_147) = 1 TMP\_148 = 1 not(TMP\_148) = 0 TMP\_149 = 1 not(TMP\_149) = 0 TMP\_150 = 1 not(TMP\_150) = 0 TMP\_151 = 2 TMP\_152 = 1 not(TMP\_152) = 0 TMP\_153 = 0 not(TMP\_153) = 1 TMP\_154 = 1 not(TMP\_154) = 0 TMP\_155 = 1 not(TMP\_155) = 0 TMP\_156 = 1 not(TMP\_156) = 0 TMP\_157 = 0 not(TMP\_157) = 1 TMP\_158 = 4 TMP\_159 = 0 not(TMP\_159) = 1 TMP\_160 = 0 not(TMP\_160) = 1 TMP\_161 = 0 TMP\_162 = 1 not(TMP\_162) = 0 TMP\_163 = 1 not(TMP\_163) = 0 TMP\_164 = 2 TMP\_165 = 0 not(TMP\_165) = 1 TMP\_166 = 0 not(TMP\_166) = 1 TMP\_167 = 1 not(TMP\_167) = 0 TMP\_168 = 1 not(TMP\_168) = 0 TMP\_169 = 1 not(TMP\_169) = 0 TMP\_170 = 2 TMP\_171 = 1 not(TMP\_171) = 0 TMP\_172 = 0 not(TMP\_172) = 1 TMP\_173 = 1 not(TMP\_173) = 0 TMP\_174 = 1 not(TMP\_174) = 0 TMP\_175 = 1 not(TMP\_175) = 0 TMP\_176 = 1 not(TMP\_176) = 0 TMP\_177 = 5 TMP\_178 = 0 not(TMP\_178) = 1 TMP\_179 = 0 not(TMP\_179) = 1 TMP\_180 = 0 TMP\_181 = 1 not(TMP\_181) = 0 TMP\_182 = 1 not(TMP\_182) = 0 TMP\_183 = 2 TMP\_184 = 0 not(TMP\_184) = 1 TMP\_185 = 0 not(TMP\_185) = 1 TMP\_186 = 1 not(TMP\_186) = 0 TMP\_187 = 1 not(TMP\_187) = 0 TMP\_188 = 1 not(TMP\_188) = 0 TMP\_189 = 2 TMP\_190 = 1 not(TMP\_190) = 0 TMP\_191 = 0 not(TMP\_191) = 1 TMP\_192 = 1 not(TMP\_192) = 0 TMP\_193 = 1 not(TMP\_193) = 0 TMP\_194 = 1 not(TMP\_194) = 0 TMP\_195 = 1 not(TMP\_195) = 0 TMP\_196 = 5 TMP\_197 = 0 not(TMP\_197) = 1 TMP\_198 = 0 not(TMP\_198) = 1 TMP\_199 = 0 TMP\_200 = 1 not(TMP\_200) = 0 TMP\_201 = 1 not(TMP\_201) = 0 TMP\_202 = 2 TMP\_203 = 0 not(TMP\_203) = 1 TMP\_204 = 0 not(TMP\_204) = 1 TMP\_205 = 1 not(TMP\_205) = 0 TMP\_206 = 1 not(TMP\_206) = 0 TMP\_207 = 1 not(TMP\_207) = 0 TMP\_208 = 2 TMP\_209 = 1 not(TMP\_209) = 0 TMP\_210 = 0 not(TMP\_210) = 1 TMP\_211 = 1 not(TMP\_211) = 0 TMP\_212 = 1 not(TMP\_212) = 0 TMP\_213 = 1 not(TMP\_213) = 0 TMP\_214 = 1 not(TMP\_214) = 0 TMP\_215 = 5 TMP\_216 = 0 not(TMP\_216) = 1 TMP\_217 = 0 not(TMP\_217) = 1 TMP\_218 = 0 TMP\_219 = 1 not(TMP\_219) = 0 TMP\_220 = 1 not(TMP\_220) = 0 TMP\_221 = 2 TMP\_222 = 0 not(TMP\_222) = 1 TMP\_223 = 0 not(TMP\_223) = 1 TMP\_224 = 1 not(TMP\_224) = 0 TMP\_225 = 1 not(TMP\_225) = 0 TMP\_226 = 1 not(TMP\_226) = 0 TMP\_227 = 2 TMP\_228 = 1 not(TMP\_228) = 0 TMP\_229 = 0 not(TMP\_229) = 1 TMP\_230 = 1 not(TMP\_230) = 0 TMP\_231 = 1 not(TMP\_231) = 0 TMP\_232 = 1 not(TMP\_232) = 0 TMP\_233 = 0 not(TMP\_233) = 1 TMP\_234 = 4 TMP\_235 = 0 not(TMP\_235) = 1 TMP\_236 = 0 not(TMP\_236) = 1 TMP\_237 = 0 TMP\_238 = 1 not(TMP\_238) = 0 TMP\_239 = 1 not(TMP\_239) = 0 TMP\_240 = 2 TMP\_241 = 0 not(TMP\_241) = 1 TMP\_242 = 0 not(TMP\_242) = 1 TMP\_243 = 1 not(TMP\_243) = 0 TMP\_244 = 1 not(TMP\_244) = 0 TMP\_245 = 1 not(TMP\_245) = 0 TMP\_246 = 2 TMP\_247 = 1 not(TMP\_247) = 0 TMP\_248 = 1 not(TMP\_248) = 0 TMP\_249 = 1 not(TMP\_249) = 0 TMP\_250 = 1 not(TMP\_250) = 0 TMP\_251 = 1 not(TMP\_251) = 0 TMP\_252 = 0 not(TMP\_252) = 1 TMP\_253 = 5 TMP\_254 = 0 not(TMP\_254) = 1 TMP\_255 = 0 not(TMP\_255) = 1 TMP\_256 = 0 TMP\_257 = 1 not(TMP\_257) = 0 TMP\_258 = 1 not(TMP\_258) = 0 TMP\_259 = 2 TMP\_260 = 0 not(TMP\_260) = 1 TMP\_261 = 0 not(TMP\_261) = 1 TMP\_262 = 1 not(TMP\_262) = 0 TMP\_263 = 1 not(TMP\_263) = 0 TMP\_264 = 1 not(TMP\_264) = 0 TMP\_265 = 2 TMP\_266 = 0 not(TMP\_266) = 1 TMP\_267 = 1 not(TMP\_267) = 0 TMP\_268 = 1 not(TMP\_268) = 0 TMP\_269 = 1 not(TMP\_269) = 0 TMP\_270 = 1 not(TMP\_270) = 0 TMP\_271 = 1 not(TMP\_271) = 0 TMP\_272 = 5 TMP\_273 = 0 not(TMP\_273) = 1 TMP\_274 = 0 not(TMP\_274) = 1 TMP\_275 = 0 TMP\_276 = 1 not(TMP\_276) = 0 TMP\_277 = 1 not(TMP\_277) = 0 TMP\_278 = 2 TMP\_279 = 0 not(TMP\_279) = 1 TMP\_280 = 0 not(TMP\_280) = 1 TMP\_281 = 1 not(TMP\_281) = 0 TMP\_282 = 1 not(TMP\_282) = 0 TMP\_283 = 1 not(TMP\_283) = 0 TMP\_284 = 2 TMP\_285 = 0 not(TMP\_285) = 1 TMP\_286 = 1 not(TMP\_286) = 0 TMP\_287 = 1 not(TMP\_287) = 0 TMP\_288 = 1 not(TMP\_288) = 0 TMP\_289 = 1 not(TMP\_289) = 0 TMP\_290 = 1 not(TMP\_290) = 0 TMP\_291 = 5 TMP\_292 = 0 not(TMP\_292) = 1 TMP\_293 = 0 not(TMP\_293) = 1 TMP\_294 = 0 TMP\_295 = 1 not(TMP\_295) = 0 TMP\_296 = 1 not(TMP\_296) = 0 TMP\_297 = 2 TMP\_298 = 0 not(TMP\_298) = 1 TMP\_299 = 0 not(TMP\_299) = 1 TMP\_300 = 1 not(TMP\_300) = 0 TMP\_301 = 1 not(TMP\_301) = 0 TMP\_302 = 1 not(TMP\_302) = 0 TMP\_303 = 2 TMP\_304 = 0 not(TMP\_304) = 1 TMP\_305 = 1 not(TMP\_305) = 0 TMP\_306 = 1 not(TMP\_306) = 0 TMP\_307 = 1 not(TMP\_307) = 0 TMP\_308 = 0 not(TMP\_308) = 1 TMP\_309 = 1 not(TMP\_309) = 0 TMP\_310 = 4 TMP\_311 = 0 not(TMP\_311) = 1 TMP\_312 = 0 not(TMP\_312) = 1 TMP\_313 = 0 TMP\_314 = 1 not(TMP\_314) = 0 TMP\_315 = 1 not(TMP\_315) = 0 TMP\_316 = 2 TMP\_317 = 0 not(TMP\_317) = 1 TMP\_318 = 0 not(TMP\_318) = 1 TMP\_319 = 1 not(TMP\_319) = 0 TMP\_320 = 1 not(TMP\_320) = 0 TMP\_321 = 1 not(TMP\_321) = 0 TMP\_322 = 2 TMP\_323 = 0 not(TMP\_323) = 1 TMP\_324 = 1 not(TMP\_324) = 0 TMP\_325 = 1 not(TMP\_325) = 0 TMP\_326 = 1 not(TMP\_326) = 0 TMP\_327 = 0 not(TMP\_327) = 1 TMP\_328 = 1 not(TMP\_328) = 0 TMP\_329 = 4 TMP\_330 = 0 not(TMP\_330) = 1 TMP\_331 = 0 not(TMP\_331) = 1 TMP\_332 = 0 TMP\_333 = 1 not(TMP\_333) = 0 TMP\_334 = 1 not(TMP\_334) = 0 TMP\_335 = 2 TMP\_336 = 0 not(TMP\_336) = 1 TMP\_337 = 0 not(TMP\_337) = 1 TMP\_338 = 1 not(TMP\_338) = 0 TMP\_339 = 1 not(TMP\_339) = 0 TMP\_340 = 1 not(TMP\_340) = 0 TMP\_341 = 2 TMP\_342 = 1 not(TMP\_342) = 0 TMP\_343 = 1 not(TMP\_343) = 0 TMP\_344 = 1 not(TMP\_344) = 0 TMP\_345 = 1 not(TMP\_345) = 0 TMP\_346 = 0 not(TMP\_346) = 1 TMP\_347 = 1 not(TMP\_347) = 0 TMP\_348 = 5 TMP\_349 = 0 not(TMP\_349) = 1 TMP\_350 = 0 not(TMP\_350) = 1 TMP\_351 = 0 TMP\_352 = 1 not(TMP\_352) = 0 TMP\_353 = 1 not(TMP\_353) = 0 TMP\_354 = 2 TMP\_355 = 0 not(TMP\_355) = 1 TMP\_356 = 0 not(TMP\_356) = 1 TMP\_357 = 1 not(TMP\_357) = 0 TMP\_358 = 1 not(TMP\_358) = 0 TMP\_359 = 1 not(TMP\_359) = 0 TMP\_360 = 2 TMP\_361 = 0 not(TMP\_361) = 1 TMP\_362 = 1 not(TMP\_362) = 0 TMP\_363 = 1 not(TMP\_363) = 0 TMP\_364 = 1 not(TMP\_364) = 0 TMP\_365 = 0 not(TMP\_365) = 1 TMP\_366 = 1 not(TMP\_366) = 0 TMP\_367 = 4 TMP\_368 = 0 not(TMP\_368) = 1 TMP\_369 = 0 not(TMP\_369) = 1 TMP\_370 = 0 TMP\_371 = 1 not(TMP\_371) = 0 TMP\_372 = 1 not(TMP\_372) = 0 TMP\_373 = 2 TMP\_374 = 0 not(TMP\_374) = 1 TMP\_375 = 0 not(TMP\_375) = 1 TMP\_376 = 1 not(TMP\_376) = 0 TMP\_377 = 1 not(TMP\_377) = 0 TMP\_378 = 1 not(TMP\_378) = 0 TMP\_379 = 2 TMP\_380 = 0 not(TMP\_380) = 1 TMP\_381 = 1 not(TMP\_381) = 0 TMP\_382 = 1 not(TMP\_382) = 0 TMP\_383 = 1 not(TMP\_383) = 0 TMP\_384 = 1 not(TMP\_384) = 0 TMP\_385 = 1 not(TMP\_385) = 0 TMP\_386 = 5 TMP\_387 = 0 not(TMP\_387) = 1 TMP\_388 = 0 not(TMP\_388) = 1 TMP\_389 = 0 TMP\_390 = 1 not(TMP\_390) = 0 TMP\_391 = 1 not(TMP\_391) = 0 TMP\_392 = 2 TMP\_393 = 0 not(TMP\_393) = 1 TMP\_394 = 0 not(TMP\_394) = 1 TMP\_395 = 1 not(TMP\_395) = 0 TMP\_396 = 1 not(TMP\_396) = 0 TMP\_397 = 1 not(TMP\_397) = 0 TMP\_398 = 2 TMP\_399 = 0 not(TMP\_399) = 1 TMP\_400 = 1 not(TMP\_400) = 0 TMP\_401 = 1 not(TMP\_401) = 0 TMP\_402 = 1 not(TMP\_402) = 0 TMP\_403 = 1 not(TMP\_403) = 0 TMP\_404 = 1 not(TMP\_404) = 0 TMP\_405 = 5 TMP\_406 = 0 not(TMP\_406) = 1 TMP\_407 = 0 not(TMP\_407) = 1 TMP\_408 = 0 TMP\_409 = 1 not(TMP\_409) = 0 TMP\_410 = 1 not(TMP\_410) = 0 TMP\_411 = 2 TMP\_412 = 0 not(TMP\_412) = 1 TMP\_413 = 0 not(TMP\_413) = 1 TMP\_414 = 1 not(TMP\_414) = 0 TMP\_415 = 1 not(TMP\_415) = 0 TMP\_416 = 1 not(TMP\_416) = 0 TMP\_417 = 2 TMP\_418 = 1 not(TMP\_418) = 0 TMP\_419 = 0 not(TMP\_419) = 1 TMP\_420 = 1 not(TMP\_420) = 0 TMP\_421 = 1 not(TMP\_421) = 0 TMP\_422 = 1 not(TMP\_422) = 0 TMP\_423 = 1 not(TMP\_423) = 0 TMP\_424 = 5 TMP\_425 = 0 not(TMP\_425) = 1 TMP\_426 = 0 not(TMP\_426) = 1 TMP\_427 = 0 TMP\_428 = 1 not(TMP\_428) = 0 TMP\_429 = 1 not(TMP\_429) = 0 TMP\_430 = 2 TMP\_431 = 0 not(TMP\_431) = 1 TMP\_432 = 0 not(TMP\_432) = 1 TMP\_433 = 1 not(TMP\_433) = 0 TMP\_434 = 1 not(TMP\_434) = 0 TMP\_435 = 1 not(TMP\_435) = 0 TMP\_436 = 2 TMP\_437 = 1 not(TMP\_437) = 0 TMP\_438 = 0 not(TMP\_438) = 1 TMP\_439 = 1 not(TMP\_439) = 0 TMP\_440 = 1 not(TMP\_440) = 0 TMP\_441 = 0 not(TMP\_441) = 1 TMP\_442 = 1 not(TMP\_442) = 0 TMP\_443 = 4 TMP\_444 = 0 not(TMP\_444) = 1 TMP\_445 = 0 not(TMP\_445) = 1 TMP\_446 = 0 TMP\_447 = 1 not(TMP\_447) = 0 TMP\_448 = 1 not(TMP\_448) = 0 TMP\_449 = 2 TMP\_450 = 0 not(TMP\_450) = 1 TMP\_451 = 0 not(TMP\_451) = 1 TMP\_452 = 1 not(TMP\_452) = 0 TMP\_453 = 1 not(TMP\_453) = 0 TMP\_454 = 1 not(TMP\_454) = 0 TMP\_455 = 2 TMP\_456 = 1 not(TMP\_456) = 0 TMP\_457 = 0 not(TMP\_457) = 1 TMP\_458 = 1 not(TMP\_458) = 0 TMP\_459 = 1 not(TMP\_459) = 0 TMP\_460 = 0 not(TMP\_460) = 1 TMP\_461 = 1 not(TMP\_461) = 0 TMP\_462 = 4 TMP\_463 = 0 not(TMP\_463) = 1 TMP\_464 = 0 not(TMP\_464) = 1 TMP\_465 = 0 TMP\_466 = 1 not(TMP\_466) = 0 TMP\_467 = 1 not(TMP\_467) = 0 TMP\_468 = 2 TMP\_469 = 0 not(TMP\_469) = 1 TMP\_470 = 0 not(TMP\_470) = 1 TMP\_471 = 1 not(TMP\_471) = 0 TMP\_472 = 1 not(TMP\_472) = 0 TMP\_473 = 1 not(TMP\_473) = 0 TMP\_474 = 2 TMP\_475 = 1 not(TMP\_475) = 0 TMP\_476 = 0 not(TMP\_476) = 1 TMP\_477 = 1 not(TMP\_477) = 0 TMP\_478 = 1 not(TMP\_478) = 0 TMP\_479 = 0 not(TMP\_479) = 1 TMP\_480 = 1 not(TMP\_480) = 0 TMP\_481 = 4 TMP\_482 = 0 not(TMP\_482) = 1 TMP\_483 = 0 not(TMP\_483) = 1 TMP\_484 = 0 TMP\_485 = 1 not(TMP\_485) = 0 TMP\_486 = 1 not(TMP\_486) = 0 TMP\_487 = 2 TMP\_488 = 0 not(TMP\_488) = 1 TMP\_489 = 0 not(TMP\_489) = 1 TMP\_490 = 1 not(TMP\_490) = 0 TMP\_491 = 1 not(TMP\_491) = 0 TMP\_492 = 1 not(TMP\_492) = 0 TMP\_493 = 2 TMP\_494 = 1 not(TMP\_494) = 0 TMP\_495 = 1 not(TMP\_495) = 0 TMP\_496 = 1 not(TMP\_496) = 0 TMP\_497 = 1 not(TMP\_497) = 0 TMP\_498 = 0 not(TMP\_498) = 1 TMP\_499 = 1 not(TMP\_499) = 0 TMP\_500 = 5 TMP\_501 = 0 not(TMP\_501) = 1 TMP\_502 = 0 not(TMP\_502) = 1 TMP\_503 = 0 TMP\_504 = 1 not(TMP\_504) = 0 TMP\_505 = 1 not(TMP\_505) = 0 TMP\_506 = 2 TMP\_507 = 0 not(TMP\_507) = 1 TMP\_508 = 0 not(TMP\_508) = 1 TMP\_509 = 1 not(TMP\_509) = 0 TMP\_510 = 1 not(TMP\_510) = 0 TMP\_511 = 1 not(TMP\_511) = 0 TMP\_512 = 2 TMP\_513 = 1 not(TMP\_513) = 0 TMP\_514 = 0 not(TMP\_514) = 1 TMP\_515 = 1 not(TMP\_515) = 0 TMP\_516 = 1 not(TMP\_516) = 0 TMP\_517 = 1 not(TMP\_517) = 0 TMP\_518 = 1 not(TMP\_518) = 0 TMP\_519 = 5 TMP\_520 = 0 not(TMP\_520) = 1 TMP\_521 = 0 not(TMP\_521) = 1 TMP\_522 = 0 TMP\_523 = 1 not(TMP\_523) = 0 TMP\_524 = 1 not(TMP\_524) = 0 TMP\_525 = 2 TMP\_526 = 0 not(TMP\_526) = 1 TMP\_527 = 0 not(TMP\_527) = 1 TMP\_528 = 1 not(TMP\_528) = 0 TMP\_529 = 1 not(TMP\_529) = 0 TMP\_530 = 1 not(TMP\_530) = 0 TMP\_531 = 2 Area\_0 = 60 Distance\_0\_Rule\_0 = 20 Distance\_1\_Rule\_0 = 3 Distance\_2\_Rule\_0 = 1 Area\_1 = 174 Distance\_0\_Rule\_1 = 58 Distance\_1\_Rule\_1 = 3 Distance\_2\_Rule\_1 = 1 Area\_2 = 116 Distance\_0\_Rule\_2 = 58 Distance\_1\_Rule\_2 = 2 Distance\_2\_Rule\_2 = 1 Area\_3 = 58 Distance\_0\_Rule\_3 = 58 Distance\_1\_Rule\_3 = 1 Distance\_2\_Rule\_3 = 1 Area\_4 = 123 -(Rule\_4\_LB) = -79 Distance\_0\_Rule\_4 = 41 -(Rule\_4\_LB) = 0 Distance\_1\_Rule\_4 = 3 -(Rule\_4\_LB) = 0 Distance\_2\_Rule\_4 = 1 Area\_5 = 63 -(Rule\_5\_LB) = 0 Distance\_0\_Rule\_5 = 21 -(Rule\_5\_LB) = 0 Distance\_1\_Rule\_5 = 3 -(Rule\_5\_LB) = 0 Distance\_2\_Rule\_5 = 1 Area\_6 = 123 -(Rule\_6\_LB) = -79 Distance\_0\_Rule\_6 = 41 -(Rule\_6\_LB) = 0 Distance\_1\_Rule\_6 = 3 -(Rule\_6\_LB) = -1 Distance\_2\_Rule\_6 = 1 Area\_7 = 3 -(Rule\_7\_LB) = -20 Distance\_0\_Rule\_7 = 1 -(Rule\_7\_LB) = 0 Distance\_1\_Rule\_7 = 3 -(Rule\_7\_LB) = -1 Distance\_2\_Rule\_7 = 1 TMP\_532 = 720 .

- Solution #5 found. 5 Solutions, Resolution 0.270s, 88 Nodes (326.0 n/s), 114 Backtracks, 58 Fails, 0 Restarts

Rule\_4\_LB = 79 Rule\_4\_UB = 120 Rule\_4\_LB = 0 Rule\_4\_UB = 3 Rule\_4\_LB = 0 Rule\_4\_UB = 1 Rule\_5\_LB = 0 Rule\_5\_UB = 21 Rule\_5\_LB = 0 Rule\_5\_UB = 3 Rule\_5\_LB = 0 Rule\_5\_UB = 1 Rule\_6\_LB = 79 Rule\_6\_UB = 120 Rule\_6\_LB = 0 Rule\_6\_UB = 3 Rule\_6\_LB = 1 Rule\_6\_UB = 2 Rule\_7\_LB = 20 Rule\_7\_UB = 21 Rule\_7\_LB = 0 Rule\_7\_UB = 3 Rule\_7\_LB = 1 Rule\_7\_UB = 2 Overlaps\_0\_0 = 0 Overlaps\_0\_1 = 0 Overlaps\_0\_2 = 0 Overlaps\_0\_3 = 0 Overlaps\_0\_4 = 0 Overlaps\_0\_5 = 0 Overlaps\_0\_6 = 0 Overlaps\_0\_7 = 0 Overlaps\_1\_0 = 0 Overlaps\_1\_1 = 0 Overlaps\_1\_2 = 0 Overlaps\_1\_3 = 0 Overlaps\_1\_4 = 0 Overlaps\_1\_5 = 0 Overlaps\_1\_6 = 0 Overlaps\_1\_7 = 0 Overlaps\_2\_0 = 0 Overlaps\_2\_1 = 0 Overlaps\_2\_2 = 0 Overlaps\_2\_3 = 0 Overlaps\_2\_4 = 0 Overlaps\_2\_5 = 0 Overlaps\_2\_6 = 0 Overlaps\_2\_7 = 0 Overlaps\_3\_0 = 1 Overlaps\_3\_1 = 0 Overlaps\_3\_2 = 0 Overlaps\_3\_3 = 0 Overlaps\_3\_4 = 0 Overlaps\_3\_5 = 0 Overlaps\_3\_6 = 0 Overlaps\_3\_7 = 0 Overlaps\_4\_0 = 0 Overlaps\_4\_1 = 0 Overlaps\_4\_2 = 0 Overlaps\_4\_3 = 0 Overlaps\_4\_4 = 0 Overlaps\_4\_5 = 0 Overlaps\_4\_6 = 0 Overlaps\_4\_7 = 0 Overlaps\_5\_0 = 0 Overlaps\_5\_1 = 0 Overlaps\_5\_2 = 0 Overlaps\_5\_3 = 0 Overlaps\_5\_4 = 0 Overlaps\_5\_5 = 0 Overlaps\_5\_6 = 0 Overlaps\_5\_7 = 0 Overlaps\_6\_0 = 0 Overlaps\_6\_1 = 0 Overlaps\_6\_2 = 0 Overlaps\_6\_3 = 0 Overlaps\_6\_4 = 0 Overlaps\_6\_5 = 0 Overlaps\_6\_6 = 0 Overlaps\_6\_7 = 0 Overlaps\_7\_0 = 0 Overlaps\_7\_1 = 0 Overlaps\_7\_2 = 0 Overlaps\_7\_3 = 0 Overlaps\_7\_4 = 0 Overlaps\_7\_5 = 0 Overlaps\_7\_6 = 0 Overlaps\_7\_7 = 0 TMP\_0 = 0 not(TMP\_0) = 1 TMP\_1 = 1 not(TMP\_1) = 0 TMP\_2 = 1 not(TMP\_2) = 0 TMP\_3 = 1 not(TMP\_3) = 0 TMP\_4 = 1 not(TMP\_4) = 0 TMP\_5 = 0 not(TMP\_5) = 1 TMP\_6 = 4 TMP\_7 = 0 not(TMP\_7) = 1 TMP\_8 = 0 not(TMP\_8) = 1 TMP\_9 = 0 TMP\_10 = 1 not(TMP\_10) = 0 TMP\_11 = 1 not(TMP\_11) = 0 TMP\_12 = 2 TMP\_13 = 0 not(TMP\_13) = 1 TMP\_14 = 0 not(TMP\_14) = 1 TMP\_15 = 1 not(TMP\_15) = 0 TMP\_16 = 1 not(TMP\_16) = 0 TMP\_17 = 1 not(TMP\_17) = 0 TMP\_18 = 2 TMP\_19 = 0 not(TMP\_19) = 1 TMP\_20 = 1 not(TMP\_20) = 0 TMP\_21 = 1 not(TMP\_21) = 0 TMP\_22 = 1 not(TMP\_22) = 0 TMP\_23 = 1 not(TMP\_23) = 0 TMP\_24 = 0 not(TMP\_24) = 1 TMP\_25 = 4 TMP\_26 = 0 not(TMP\_26) = 1 TMP\_27 = 0 not(TMP\_27) = 1 TMP\_28 = 0 TMP\_29 = 1 not(TMP\_29) = 0 TMP\_30 = 1 not(TMP\_30) = 0 TMP\_31 = 2 TMP\_32 = 0 not(TMP\_32) = 1 TMP\_33 = 0 not(TMP\_33) = 1 TMP\_34 = 1 not(TMP\_34) = 0 TMP\_35 = 1 not(TMP\_35) = 0 TMP\_36 = 1 not(TMP\_36) = 0 TMP\_37 = 2 TMP\_38 = 0 not(TMP\_38) = 1 TMP\_39 = 1 not(TMP\_39) = 0 TMP\_40 = 1 not(TMP\_40) = 0 TMP\_41 = 1 not(TMP\_41) = 0 TMP\_42 = 1 not(TMP\_42) = 0 TMP\_43 = 1 not(TMP\_43) = 0 TMP\_44 = 5 TMP\_45 = 0 not(TMP\_45) = 1 TMP\_46 = 0 not(TMP\_46) = 1 TMP\_47 = 0 TMP\_48 = 1 not(TMP\_48) = 0 TMP\_49 = 1 not(TMP\_49) = 0 TMP\_50 = 2 TMP\_51 = 0 not(TMP\_51) = 1 TMP\_52 = 0 not(TMP\_52) = 1 TMP\_53 = 1 not(TMP\_53) = 0 TMP\_54 = 1 not(TMP\_54) = 0 TMP\_55 = 1 not(TMP\_55) = 0 TMP\_56 = 2 TMP\_57 = 0 not(TMP\_57) = 1 TMP\_58 = 1 not(TMP\_58) = 0 TMP\_59 = 1 not(TMP\_59) = 0 TMP\_60 = 1 not(TMP\_60) = 0 TMP\_61 = 1 not(TMP\_61) = 0 TMP\_62 = 1 not(TMP\_62) = 0 TMP\_63 = 5 TMP\_64 = 0 not(TMP\_64) = 1 TMP\_65 = 0 not(TMP\_65) = 1 TMP\_66 = 0 TMP\_67 = 1 not(TMP\_67) = 0 TMP\_68 = 1 not(TMP\_68) = 0 TMP\_69 = 2 TMP\_70 = 0 not(TMP\_70) = 1 TMP\_71 = 0 not(TMP\_71) = 1 TMP\_72 = 1 not(TMP\_72) = 0 TMP\_73 = 1 not(TMP\_73) = 0 TMP\_74 = 1 not(TMP\_74) = 0 TMP\_75 = 2 TMP\_76 = 0 not(TMP\_76) = 1 TMP\_77 = 1 not(TMP\_77) = 0 TMP\_78 = 1 not(TMP\_78) = 0 TMP\_79 = 1 not(TMP\_79) = 0 TMP\_80 = 1 not(TMP\_80) = 0 TMP\_81 = 1 not(TMP\_81) = 0 TMP\_82 = 5 TMP\_83 = 0 not(TMP\_83) = 1 TMP\_84 = 0 not(TMP\_84) = 1 TMP\_85 = 0 TMP\_86 = 1 not(TMP\_86) = 0 TMP\_87 = 1 not(TMP\_87) = 0 TMP\_88 = 2 TMP\_89 = 0 not(TMP\_89) = 1 TMP\_90 = 0 not(TMP\_90) = 1 TMP\_91 = 1 not(TMP\_91) = 0 TMP\_92 = 1 not(TMP\_92) = 0 TMP\_93 = 1 not(TMP\_93) = 0 TMP\_94 = 2 TMP\_95 = 1 not(TMP\_95) = 0 TMP\_96 = 1 not(TMP\_96) = 0 TMP\_97 = 1 not(TMP\_97) = 0 TMP\_98 = 1 not(TMP\_98) = 0 TMP\_99 = 1 not(TMP\_99) = 0 TMP\_100 = 0 not(TMP\_100) = 1 TMP\_101 = 5 TMP\_102 = 0 not(TMP\_102) = 1 TMP\_103 = 0 not(TMP\_103) = 1 TMP\_104 = 0 TMP\_105 = 1 not(TMP\_105) = 0 TMP\_106 = 1 not(TMP\_106) = 0 TMP\_107 = 2 TMP\_108 = 0 not(TMP\_108) = 1 TMP\_109 = 0 not(TMP\_109) = 1 TMP\_110 = 1 not(TMP\_110) = 0 TMP\_111 = 1 not(TMP\_111) = 0 TMP\_112 = 1 not(TMP\_112) = 0 TMP\_113 = 2 TMP\_114 = 0 not(TMP\_114) = 1 TMP\_115 = 1 not(TMP\_115) = 0 TMP\_116 = 1 not(TMP\_116) = 0 TMP\_117 = 1 not(TMP\_117) = 0 TMP\_118 = 1 not(TMP\_118) = 0 TMP\_119 = 0 not(TMP\_119) = 1 TMP\_120 = 4 TMP\_121 = 0 not(TMP\_121) = 1 TMP\_122 = 0 not(TMP\_122) = 1 TMP\_123 = 0 TMP\_124 = 1 not(TMP\_124) = 0 TMP\_125 = 1 not(TMP\_125) = 0 TMP\_126 = 2 TMP\_127 = 0 not(TMP\_127) = 1 TMP\_128 = 0 not(TMP\_128) = 1 TMP\_129 = 1 not(TMP\_129) = 0 TMP\_130 = 1 not(TMP\_130) = 0 TMP\_131 = 1 not(TMP\_131) = 0 TMP\_132 = 2 TMP\_133 = 1 not(TMP\_133) = 0 TMP\_134 = 1 not(TMP\_134) = 0 TMP\_135 = 1 not(TMP\_135) = 0 TMP\_136 = 1 not(TMP\_136) = 0 TMP\_137 = 1 not(TMP\_137) = 0 TMP\_138 = 0 not(TMP\_138) = 1 TMP\_139 = 5 TMP\_140 = 0 not(TMP\_140) = 1 TMP\_141 = 0 not(TMP\_141) = 1 TMP\_142 = 0 TMP\_143 = 1 not(TMP\_143) = 0 TMP\_144 = 1 not(TMP\_144) = 0 TMP\_145 = 2 TMP\_146 = 0 not(TMP\_146) = 1 TMP\_147 = 0 not(TMP\_147) = 1 TMP\_148 = 1 not(TMP\_148) = 0 TMP\_149 = 1 not(TMP\_149) = 0 TMP\_150 = 1 not(TMP\_150) = 0 TMP\_151 = 2 TMP\_152 = 1 not(TMP\_152) = 0 TMP\_153 = 0 not(TMP\_153) = 1 TMP\_154 = 1 not(TMP\_154) = 0 TMP\_155 = 1 not(TMP\_155) = 0 TMP\_156 = 1 not(TMP\_156) = 0 TMP\_157 = 0 not(TMP\_157) = 1 TMP\_158 = 4 TMP\_159 = 0 not(TMP\_159) = 1 TMP\_160 = 0 not(TMP\_160) = 1 TMP\_161 = 0 TMP\_162 = 1 not(TMP\_162) = 0 TMP\_163 = 1 not(TMP\_163) = 0 TMP\_164 = 2 TMP\_165 = 0 not(TMP\_165) = 1 TMP\_166 = 0 not(TMP\_166) = 1 TMP\_167 = 1 not(TMP\_167) = 0 TMP\_168 = 1 not(TMP\_168) = 0 TMP\_169 = 1 not(TMP\_169) = 0 TMP\_170 = 2 TMP\_171 = 1 not(TMP\_171) = 0 TMP\_172 = 0 not(TMP\_172) = 1 TMP\_173 = 1 not(TMP\_173) = 0 TMP\_174 = 1 not(TMP\_174) = 0 TMP\_175 = 1 not(TMP\_175) = 0 TMP\_176 = 1 not(TMP\_176) = 0 TMP\_177 = 5 TMP\_178 = 0 not(TMP\_178) = 1 TMP\_179 = 0 not(TMP\_179) = 1 TMP\_180 = 0 TMP\_181 = 1 not(TMP\_181) = 0 TMP\_182 = 1 not(TMP\_182) = 0 TMP\_183 = 2 TMP\_184 = 0 not(TMP\_184) = 1 TMP\_185 = 0 not(TMP\_185) = 1 TMP\_186 = 1 not(TMP\_186) = 0 TMP\_187 = 1 not(TMP\_187) = 0 TMP\_188 = 1 not(TMP\_188) = 0 TMP\_189 = 2 TMP\_190 = 1 not(TMP\_190) = 0 TMP\_191 = 0 not(TMP\_191) = 1 TMP\_192 = 1 not(TMP\_192) = 0 TMP\_193 = 1 not(TMP\_193) = 0 TMP\_194 = 1 not(TMP\_194) = 0 TMP\_195 = 1 not(TMP\_195) = 0 TMP\_196 = 5 TMP\_197 = 0 not(TMP\_197) = 1 TMP\_198 = 0 not(TMP\_198) = 1 TMP\_199 = 0 TMP\_200 = 1 not(TMP\_200) = 0 TMP\_201 = 1 not(TMP\_201) = 0 TMP\_202 = 2 TMP\_203 = 0 not(TMP\_203) = 1 TMP\_204 = 0 not(TMP\_204) = 1 TMP\_205 = 1 not(TMP\_205) = 0 TMP\_206 = 1 not(TMP\_206) = 0 TMP\_207 = 1 not(TMP\_207) = 0 TMP\_208 = 2 TMP\_209 = 1 not(TMP\_209) = 0 TMP\_210 = 0 not(TMP\_210) = 1 TMP\_211 = 1 not(TMP\_211) = 0 TMP\_212 = 1 not(TMP\_212) = 0 TMP\_213 = 1 not(TMP\_213) = 0 TMP\_214 = 1 not(TMP\_214) = 0 TMP\_215 = 5 TMP\_216 = 0 not(TMP\_216) = 1 TMP\_217 = 0 not(TMP\_217) = 1 TMP\_218 = 0 TMP\_219 = 1 not(TMP\_219) = 0 TMP\_220 = 1 not(TMP\_220) = 0 TMP\_221 = 2 TMP\_222 = 0 not(TMP\_222) = 1 TMP\_223 = 0 not(TMP\_223) = 1 TMP\_224 = 1 not(TMP\_224) = 0 TMP\_225 = 1 not(TMP\_225) = 0 TMP\_226 = 1 not(TMP\_226) = 0 TMP\_227 = 2 TMP\_228 = 1 not(TMP\_228) = 0 TMP\_229 = 0 not(TMP\_229) = 1 TMP\_230 = 1 not(TMP\_230) = 0 TMP\_231 = 1 not(TMP\_231) = 0 TMP\_232 = 1 not(TMP\_232) = 0 TMP\_233 = 0 not(TMP\_233) = 1 TMP\_234 = 4 TMP\_235 = 0 not(TMP\_235) = 1 TMP\_236 = 0 not(TMP\_236) = 1 TMP\_237 = 0 TMP\_238 = 1 not(TMP\_238) = 0 TMP\_239 = 1 not(TMP\_239) = 0 TMP\_240 = 2 TMP\_241 = 0 not(TMP\_241) = 1 TMP\_242 = 0 not(TMP\_242) = 1 TMP\_243 = 1 not(TMP\_243) = 0 TMP\_244 = 1 not(TMP\_244) = 0 TMP\_245 = 1 not(TMP\_245) = 0 TMP\_246 = 2 TMP\_247 = 1 not(TMP\_247) = 0 TMP\_248 = 1 not(TMP\_248) = 0 TMP\_249 = 1 not(TMP\_249) = 0 TMP\_250 = 1 not(TMP\_250) = 0 TMP\_251 = 1 not(TMP\_251) = 0 TMP\_252 = 0 not(TMP\_252) = 1 TMP\_253 = 5 TMP\_254 = 0 not(TMP\_254) = 1 TMP\_255 = 0 not(TMP\_255) = 1 TMP\_256 = 0 TMP\_257 = 1 not(TMP\_257) = 0 TMP\_258 = 1 not(TMP\_258) = 0 TMP\_259 = 2 TMP\_260 = 0 not(TMP\_260) = 1 TMP\_261 = 0 not(TMP\_261) = 1 TMP\_262 = 1 not(TMP\_262) = 0 TMP\_263 = 1 not(TMP\_263) = 0 TMP\_264 = 1 not(TMP\_264) = 0 TMP\_265 = 2 TMP\_266 = 0 not(TMP\_266) = 1 TMP\_267 = 1 not(TMP\_267) = 0 TMP\_268 = 1 not(TMP\_268) = 0 TMP\_269 = 1 not(TMP\_269) = 0 TMP\_270 = 1 not(TMP\_270) = 0 TMP\_271 = 1 not(TMP\_271) = 0 TMP\_272 = 5 TMP\_273 = 0 not(TMP\_273) = 1 TMP\_274 = 0 not(TMP\_274) = 1 TMP\_275 = 0 TMP\_276 = 1 not(TMP\_276) = 0 TMP\_277 = 1 not(TMP\_277) = 0 TMP\_278 = 2 TMP\_279 = 0 not(TMP\_279) = 1 TMP\_280 = 0 not(TMP\_280) = 1 TMP\_281 = 1 not(TMP\_281) = 0 TMP\_282 = 1 not(TMP\_282) = 0 TMP\_283 = 1 not(TMP\_283) = 0 TMP\_284 = 2 TMP\_285 = 0 not(TMP\_285) = 1 TMP\_286 = 1 not(TMP\_286) = 0 TMP\_287 = 1 not(TMP\_287) = 0 TMP\_288 = 1 not(TMP\_288) = 0 TMP\_289 = 1 not(TMP\_289) = 0 TMP\_290 = 1 not(TMP\_290) = 0 TMP\_291 = 5 TMP\_292 = 0 not(TMP\_292) = 1 TMP\_293 = 0 not(TMP\_293) = 1 TMP\_294 = 0 TMP\_295 = 1 not(TMP\_295) = 0 TMP\_296 = 1 not(TMP\_296) = 0 TMP\_297 = 2 TMP\_298 = 0 not(TMP\_298) = 1 TMP\_299 = 0 not(TMP\_299) = 1 TMP\_300 = 1 not(TMP\_300) = 0 TMP\_301 = 1 not(TMP\_301) = 0 TMP\_302 = 1 not(TMP\_302) = 0 TMP\_303 = 2 TMP\_304 = 0 not(TMP\_304) = 1 TMP\_305 = 1 not(TMP\_305) = 0 TMP\_306 = 1 not(TMP\_306) = 0 TMP\_307 = 1 not(TMP\_307) = 0 TMP\_308 = 0 not(TMP\_308) = 1 TMP\_309 = 1 not(TMP\_309) = 0 TMP\_310 = 4 TMP\_311 = 0 not(TMP\_311) = 1 TMP\_312 = 0 not(TMP\_312) = 1 TMP\_313 = 0 TMP\_314 = 1 not(TMP\_314) = 0 TMP\_315 = 1 not(TMP\_315) = 0 TMP\_316 = 2 TMP\_317 = 0 not(TMP\_317) = 1 TMP\_318 = 0 not(TMP\_318) = 1 TMP\_319 = 1 not(TMP\_319) = 0 TMP\_320 = 1 not(TMP\_320) = 0 TMP\_321 = 1 not(TMP\_321) = 0 TMP\_322 = 2 TMP\_323 = 0 not(TMP\_323) = 1 TMP\_324 = 1 not(TMP\_324) = 0 TMP\_325 = 1 not(TMP\_325) = 0 TMP\_326 = 1 not(TMP\_326) = 0 TMP\_327 = 0 not(TMP\_327) = 1 TMP\_328 = 1 not(TMP\_328) = 0 TMP\_329 = 4 TMP\_330 = 0 not(TMP\_330) = 1 TMP\_331 = 0 not(TMP\_331) = 1 TMP\_332 = 0 TMP\_333 = 1 not(TMP\_333) = 0 TMP\_334 = 1 not(TMP\_334) = 0 TMP\_335 = 2 TMP\_336 = 0 not(TMP\_336) = 1 TMP\_337 = 0 not(TMP\_337) = 1 TMP\_338 = 1 not(TMP\_338) = 0 TMP\_339 = 1 not(TMP\_339) = 0 TMP\_340 = 1 not(TMP\_340) = 0 TMP\_341 = 2 TMP\_342 = 1 not(TMP\_342) = 0 TMP\_343 = 1 not(TMP\_343) = 0 TMP\_344 = 1 not(TMP\_344) = 0 TMP\_345 = 1 not(TMP\_345) = 0 TMP\_346 = 0 not(TMP\_346) = 1 TMP\_347 = 1 not(TMP\_347) = 0 TMP\_348 = 5 TMP\_349 = 0 not(TMP\_349) = 1 TMP\_350 = 0 not(TMP\_350) = 1 TMP\_351 = 0 TMP\_352 = 1 not(TMP\_352) = 0 TMP\_353 = 1 not(TMP\_353) = 0 TMP\_354 = 2 TMP\_355 = 0 not(TMP\_355) = 1 TMP\_356 = 0 not(TMP\_356) = 1 TMP\_357 = 1 not(TMP\_357) = 0 TMP\_358 = 1 not(TMP\_358) = 0 TMP\_359 = 1 not(TMP\_359) = 0 TMP\_360 = 2 TMP\_361 = 0 not(TMP\_361) = 1 TMP\_362 = 1 not(TMP\_362) = 0 TMP\_363 = 1 not(TMP\_363) = 0 TMP\_364 = 1 not(TMP\_364) = 0 TMP\_365 = 0 not(TMP\_365) = 1 TMP\_366 = 1 not(TMP\_366) = 0 TMP\_367 = 4 TMP\_368 = 0 not(TMP\_368) = 1 TMP\_369 = 0 not(TMP\_369) = 1 TMP\_370 = 0 TMP\_371 = 1 not(TMP\_371) = 0 TMP\_372 = 1 not(TMP\_372) = 0 TMP\_373 = 2 TMP\_374 = 0 not(TMP\_374) = 1 TMP\_375 = 0 not(TMP\_375) = 1 TMP\_376 = 1 not(TMP\_376) = 0 TMP\_377 = 1 not(TMP\_377) = 0 TMP\_378 = 1 not(TMP\_378) = 0 TMP\_379 = 2 TMP\_380 = 0 not(TMP\_380) = 1 TMP\_381 = 1 not(TMP\_381) = 0 TMP\_382 = 1 not(TMP\_382) = 0 TMP\_383 = 1 not(TMP\_383) = 0 TMP\_384 = 1 not(TMP\_384) = 0 TMP\_385 = 1 not(TMP\_385) = 0 TMP\_386 = 5 TMP\_387 = 0 not(TMP\_387) = 1 TMP\_388 = 0 not(TMP\_388) = 1 TMP\_389 = 0 TMP\_390 = 1 not(TMP\_390) = 0 TMP\_391 = 1 not(TMP\_391) = 0 TMP\_392 = 2 TMP\_393 = 0 not(TMP\_393) = 1 TMP\_394 = 0 not(TMP\_394) = 1 TMP\_395 = 1 not(TMP\_395) = 0 TMP\_396 = 1 not(TMP\_396) = 0 TMP\_397 = 1 not(TMP\_397) = 0 TMP\_398 = 2 TMP\_399 = 0 not(TMP\_399) = 1 TMP\_400 = 1 not(TMP\_400) = 0 TMP\_401 = 1 not(TMP\_401) = 0 TMP\_402 = 1 not(TMP\_402) = 0 TMP\_403 = 1 not(TMP\_403) = 0 TMP\_404 = 1 not(TMP\_404) = 0 TMP\_405 = 5 TMP\_406 = 0 not(TMP\_406) = 1 TMP\_407 = 0 not(TMP\_407) = 1 TMP\_408 = 0 TMP\_409 = 1 not(TMP\_409) = 0 TMP\_410 = 1 not(TMP\_410) = 0 TMP\_411 = 2 TMP\_412 = 0 not(TMP\_412) = 1 TMP\_413 = 0 not(TMP\_413) = 1 TMP\_414 = 1 not(TMP\_414) = 0 TMP\_415 = 1 not(TMP\_415) = 0 TMP\_416 = 1 not(TMP\_416) = 0 TMP\_417 = 2 TMP\_418 = 1 not(TMP\_418) = 0 TMP\_419 = 0 not(TMP\_419) = 1 TMP\_420 = 1 not(TMP\_420) = 0 TMP\_421 = 1 not(TMP\_421) = 0 TMP\_422 = 1 not(TMP\_422) = 0 TMP\_423 = 1 not(TMP\_423) = 0 TMP\_424 = 5 TMP\_425 = 0 not(TMP\_425) = 1 TMP\_426 = 0 not(TMP\_426) = 1 TMP\_427 = 0 TMP\_428 = 1 not(TMP\_428) = 0 TMP\_429 = 1 not(TMP\_429) = 0 TMP\_430 = 2 TMP\_431 = 0 not(TMP\_431) = 1 TMP\_432 = 0 not(TMP\_432) = 1 TMP\_433 = 1 not(TMP\_433) = 0 TMP\_434 = 1 not(TMP\_434) = 0 TMP\_435 = 1 not(TMP\_435) = 0 TMP\_436 = 2 TMP\_437 = 1 not(TMP\_437) = 0 TMP\_438 = 0 not(TMP\_438) = 1 TMP\_439 = 1 not(TMP\_439) = 0 TMP\_440 = 1 not(TMP\_440) = 0 TMP\_441 = 0 not(TMP\_441) = 1 TMP\_442 = 1 not(TMP\_442) = 0 TMP\_443 = 4 TMP\_444 = 0 not(TMP\_444) = 1 TMP\_445 = 0 not(TMP\_445) = 1 TMP\_446 = 0 TMP\_447 = 1 not(TMP\_447) = 0 TMP\_448 = 1 not(TMP\_448) = 0 TMP\_449 = 2 TMP\_450 = 0 not(TMP\_450) = 1 TMP\_451 = 0 not(TMP\_451) = 1 TMP\_452 = 1 not(TMP\_452) = 0 TMP\_453 = 1 not(TMP\_453) = 0 TMP\_454 = 1 not(TMP\_454) = 0 TMP\_455 = 2 TMP\_456 = 1 not(TMP\_456) = 0 TMP\_457 = 0 not(TMP\_457) = 1 TMP\_458 = 1 not(TMP\_458) = 0 TMP\_459 = 1 not(TMP\_459) = 0 TMP\_460 = 0 not(TMP\_460) = 1 TMP\_461 = 1 not(TMP\_461) = 0 TMP\_462 = 4 TMP\_463 = 0 not(TMP\_463) = 1 TMP\_464 = 0 not(TMP\_464) = 1 TMP\_465 = 0 TMP\_466 = 1 not(TMP\_466) = 0 TMP\_467 = 1 not(TMP\_467) = 0 TMP\_468 = 2 TMP\_469 = 0 not(TMP\_469) = 1 TMP\_470 = 0 not(TMP\_470) = 1 TMP\_471 = 1 not(TMP\_471) = 0 TMP\_472 = 1 not(TMP\_472) = 0 TMP\_473 = 1 not(TMP\_473) = 0 TMP\_474 = 2 TMP\_475 = 1 not(TMP\_475) = 0 TMP\_476 = 0 not(TMP\_476) = 1 TMP\_477 = 1 not(TMP\_477) = 0 TMP\_478 = 1 not(TMP\_478) = 0 TMP\_479 = 0 not(TMP\_479) = 1 TMP\_480 = 1 not(TMP\_480) = 0 TMP\_481 = 4 TMP\_482 = 0 not(TMP\_482) = 1 TMP\_483 = 0 not(TMP\_483) = 1 TMP\_484 = 0 TMP\_485 = 1 not(TMP\_485) = 0 TMP\_486 = 1 not(TMP\_486) = 0 TMP\_487 = 2 TMP\_488 = 0 not(TMP\_488) = 1 TMP\_489 = 0 not(TMP\_489) = 1 TMP\_490 = 1 not(TMP\_490) = 0 TMP\_491 = 1 not(TMP\_491) = 0 TMP\_492 = 1 not(TMP\_492) = 0 TMP\_493 = 2 TMP\_494 = 1 not(TMP\_494) = 0 TMP\_495 = 1 not(TMP\_495) = 0 TMP\_496 = 1 not(TMP\_496) = 0 TMP\_497 = 1 not(TMP\_497) = 0 TMP\_498 = 0 not(TMP\_498) = 1 TMP\_499 = 1 not(TMP\_499) = 0 TMP\_500 = 5 TMP\_501 = 0 not(TMP\_501) = 1 TMP\_502 = 0 not(TMP\_502) = 1 TMP\_503 = 0 TMP\_504 = 1 not(TMP\_504) = 0 TMP\_505 = 1 not(TMP\_505) = 0 TMP\_506 = 2 TMP\_507 = 0 not(TMP\_507) = 1 TMP\_508 = 0 not(TMP\_508) = 1 TMP\_509 = 1 not(TMP\_509) = 0 TMP\_510 = 1 not(TMP\_510) = 0 TMP\_511 = 1 not(TMP\_511) = 0 TMP\_512 = 2 TMP\_513 = 1 not(TMP\_513) = 0 TMP\_514 = 0 not(TMP\_514) = 1 TMP\_515 = 1 not(TMP\_515) = 0 TMP\_516 = 1 not(TMP\_516) = 0 TMP\_517 = 1 not(TMP\_517) = 0 TMP\_518 = 1 not(TMP\_518) = 0 TMP\_519 = 5 TMP\_520 = 0 not(TMP\_520) = 1 TMP\_521 = 0 not(TMP\_521) = 1 TMP\_522 = 0 TMP\_523 = 1 not(TMP\_523) = 0 TMP\_524 = 1 not(TMP\_524) = 0 TMP\_525 = 2 TMP\_526 = 0 not(TMP\_526) = 1 TMP\_527 = 0 not(TMP\_527) = 1 TMP\_528 = 1 not(TMP\_528) = 0 TMP\_529 = 1 not(TMP\_529) = 0 TMP\_530 = 1 not(TMP\_530) = 0 TMP\_531 = 2 Area\_0 = 60 Distance\_0\_Rule\_0 = 20 Distance\_1\_Rule\_0 = 3 Distance\_2\_Rule\_0 = 1 Area\_1 = 174 Distance\_0\_Rule\_1 = 58 Distance\_1\_Rule\_1 = 3 Distance\_2\_Rule\_1 = 1 Area\_2 = 116 Distance\_0\_Rule\_2 = 58 Distance\_1\_Rule\_2 = 2 Distance\_2\_Rule\_2 = 1 Area\_3 = 58 Distance\_0\_Rule\_3 = 58 Distance\_1\_Rule\_3 = 1 Distance\_2\_Rule\_3 = 1 Area\_4 = 123 -(Rule\_4\_LB) = -79 Distance\_0\_Rule\_4 = 41 -(Rule\_4\_LB) = 0 Distance\_1\_Rule\_4 = 3 -(Rule\_4\_LB) = 0 Distance\_2\_Rule\_4 = 1 Area\_5 = 63 -(Rule\_5\_LB) = 0 Distance\_0\_Rule\_5 = 21 -(Rule\_5\_LB) = 0 Distance\_1\_Rule\_5 = 3 -(Rule\_5\_LB) = 0 Distance\_2\_Rule\_5 = 1 Area\_6 = 123 -(Rule\_6\_LB) = -79 Distance\_0\_Rule\_6 = 41 -(Rule\_6\_LB) = 0 Distance\_1\_Rule\_6 = 3 -(Rule\_6\_LB) = -1 Distance\_2\_Rule\_6 = 1 Area\_7 = 3 -(Rule\_7\_LB) = -20 Distance\_0\_Rule\_7 = 1 -(Rule\_7\_LB) = 0 Distance\_1\_Rule\_7 = 3 -(Rule\_7\_LB) = -1 Distance\_2\_Rule\_7 = 1 TMP\_532 = 720 .

- Solution #6 found. 6 Solutions, Resolution 0.283s, 89 Nodes (314.7 n/s), 115 Backtracks, 58 Fails, 0 Restarts

Rule\_4\_LB = 79 Rule\_4\_UB = 120 Rule\_4\_LB = 0 Rule\_4\_UB = 3 Rule\_4\_LB = 0 Rule\_4\_UB = 1 Rule\_5\_LB = 0 Rule\_5\_UB = 21 Rule\_5\_LB = 0 Rule\_5\_UB = 3 Rule\_5\_LB = 0 Rule\_5\_UB = 1 Rule\_6\_LB = 79 Rule\_6\_UB = 120 Rule\_6\_LB = 0 Rule\_6\_UB = 3 Rule\_6\_LB = 1 Rule\_6\_UB = 2 Rule\_7\_LB = 20 Rule\_7\_UB = 21 Rule\_7\_LB = 0 Rule\_7\_UB = 3 Rule\_7\_LB = 1 Rule\_7\_UB = 2 Overlaps\_0\_0 = 0 Overlaps\_0\_1 = 0 Overlaps\_0\_2 = 0 Overlaps\_0\_3 = 0 Overlaps\_0\_4 = 0 Overlaps\_0\_5 = 0 Overlaps\_0\_6 = 0 Overlaps\_0\_7 = 0 Overlaps\_1\_0 = 0 Overlaps\_1\_1 = 0 Overlaps\_1\_2 = 0 Overlaps\_1\_3 = 0 Overlaps\_1\_4 = 0 Overlaps\_1\_5 = 0 Overlaps\_1\_6 = 0 Overlaps\_1\_7 = 0 Overlaps\_2\_0 = 0 Overlaps\_2\_1 = 1 Overlaps\_2\_2 = 0 Overlaps\_2\_3 = 0 Overlaps\_2\_4 = 0 Overlaps\_2\_5 = 0 Overlaps\_2\_6 = 0 Overlaps\_2\_7 = 0 Overlaps\_3\_0 = 1 Overlaps\_3\_1 = 0 Overlaps\_3\_2 = 0 Overlaps\_3\_3 = 0 Overlaps\_3\_4 = 0 Overlaps\_3\_5 = 0 Overlaps\_3\_6 = 0 Overlaps\_3\_7 = 0 Overlaps\_4\_0 = 0 Overlaps\_4\_1 = 0 Overlaps\_4\_2 = 0 Overlaps\_4\_3 = 0 Overlaps\_4\_4 = 0 Overlaps\_4\_5 = 0 Overlaps\_4\_6 = 0 Overlaps\_4\_7 = 0 Overlaps\_5\_0 = 0 Overlaps\_5\_1 = 0 Overlaps\_5\_2 = 0 Overlaps\_5\_3 = 0 Overlaps\_5\_4 = 0 Overlaps\_5\_5 = 0 Overlaps\_5\_6 = 0 Overlaps\_5\_7 = 0 Overlaps\_6\_0 = 0 Overlaps\_6\_1 = 0 Overlaps\_6\_2 = 0 Overlaps\_6\_3 = 0 Overlaps\_6\_4 = 0 Overlaps\_6\_5 = 0 Overlaps\_6\_6 = 0 Overlaps\_6\_7 = 0 Overlaps\_7\_0 = 0 Overlaps\_7\_1 = 0 Overlaps\_7\_2 = 0 Overlaps\_7\_3 = 0 Overlaps\_7\_4 = 0 Overlaps\_7\_5 = 0 Overlaps\_7\_6 = 0 Overlaps\_7\_7 = 0 TMP\_0 = 0 not(TMP\_0) = 1 TMP\_1 = 1 not(TMP\_1) = 0 TMP\_2 = 1 not(TMP\_2) = 0 TMP\_3 = 1 not(TMP\_3) = 0 TMP\_4 = 1 not(TMP\_4) = 0 TMP\_5 = 0 not(TMP\_5) = 1 TMP\_6 = 4 TMP\_7 = 0 not(TMP\_7) = 1 TMP\_8 = 0 not(TMP\_8) = 1 TMP\_9 = 0 TMP\_10 = 1 not(TMP\_10) = 0 TMP\_11 = 1 not(TMP\_11) = 0 TMP\_12 = 2 TMP\_13 = 0 not(TMP\_13) = 1 TMP\_14 = 0 not(TMP\_14) = 1 TMP\_15 = 1 not(TMP\_15) = 0 TMP\_16 = 1 not(TMP\_16) = 0 TMP\_17 = 1 not(TMP\_17) = 0 TMP\_18 = 2 TMP\_19 = 0 not(TMP\_19) = 1 TMP\_20 = 1 not(TMP\_20) = 0 TMP\_21 = 1 not(TMP\_21) = 0 TMP\_22 = 1 not(TMP\_22) = 0 TMP\_23 = 1 not(TMP\_23) = 0 TMP\_24 = 0 not(TMP\_24) = 1 TMP\_25 = 4 TMP\_26 = 0 not(TMP\_26) = 1 TMP\_27 = 0 not(TMP\_27) = 1 TMP\_28 = 0 TMP\_29 = 1 not(TMP\_29) = 0 TMP\_30 = 1 not(TMP\_30) = 0 TMP\_31 = 2 TMP\_32 = 0 not(TMP\_32) = 1 TMP\_33 = 0 not(TMP\_33) = 1 TMP\_34 = 1 not(TMP\_34) = 0 TMP\_35 = 1 not(TMP\_35) = 0 TMP\_36 = 1 not(TMP\_36) = 0 TMP\_37 = 2 TMP\_38 = 0 not(TMP\_38) = 1 TMP\_39 = 1 not(TMP\_39) = 0 TMP\_40 = 1 not(TMP\_40) = 0 TMP\_41 = 1 not(TMP\_41) = 0 TMP\_42 = 1 not(TMP\_42) = 0 TMP\_43 = 1 not(TMP\_43) = 0 TMP\_44 = 5 TMP\_45 = 0 not(TMP\_45) = 1 TMP\_46 = 0 not(TMP\_46) = 1 TMP\_47 = 0 TMP\_48 = 1 not(TMP\_48) = 0 TMP\_49 = 1 not(TMP\_49) = 0 TMP\_50 = 2 TMP\_51 = 0 not(TMP\_51) = 1 TMP\_52 = 0 not(TMP\_52) = 1 TMP\_53 = 1 not(TMP\_53) = 0 TMP\_54 = 1 not(TMP\_54) = 0 TMP\_55 = 1 not(TMP\_55) = 0 TMP\_56 = 2 TMP\_57 = 0 not(TMP\_57) = 1 TMP\_58 = 1 not(TMP\_58) = 0 TMP\_59 = 1 not(TMP\_59) = 0 TMP\_60 = 1 not(TMP\_60) = 0 TMP\_61 = 1 not(TMP\_61) = 0 TMP\_62 = 1 not(TMP\_62) = 0 TMP\_63 = 5 TMP\_64 = 0 not(TMP\_64) = 1 TMP\_65 = 0 not(TMP\_65) = 1 TMP\_66 = 0 TMP\_67 = 1 not(TMP\_67) = 0 TMP\_68 = 1 not(TMP\_68) = 0 TMP\_69 = 2 TMP\_70 = 0 not(TMP\_70) = 1 TMP\_71 = 0 not(TMP\_71) = 1 TMP\_72 = 1 not(TMP\_72) = 0 TMP\_73 = 1 not(TMP\_73) = 0 TMP\_74 = 1 not(TMP\_74) = 0 TMP\_75 = 2 TMP\_76 = 0 not(TMP\_76) = 1 TMP\_77 = 1 not(TMP\_77) = 0 TMP\_78 = 1 not(TMP\_78) = 0 TMP\_79 = 1 not(TMP\_79) = 0 TMP\_80 = 1 not(TMP\_80) = 0 TMP\_81 = 1 not(TMP\_81) = 0 TMP\_82 = 5 TMP\_83 = 0 not(TMP\_83) = 1 TMP\_84 = 0 not(TMP\_84) = 1 TMP\_85 = 0 TMP\_86 = 1 not(TMP\_86) = 0 TMP\_87 = 1 not(TMP\_87) = 0 TMP\_88 = 2 TMP\_89 = 0 not(TMP\_89) = 1 TMP\_90 = 0 not(TMP\_90) = 1 TMP\_91 = 1 not(TMP\_91) = 0 TMP\_92 = 1 not(TMP\_92) = 0 TMP\_93 = 1 not(TMP\_93) = 0 TMP\_94 = 2 TMP\_95 = 1 not(TMP\_95) = 0 TMP\_96 = 1 not(TMP\_96) = 0 TMP\_97 = 1 not(TMP\_97) = 0 TMP\_98 = 1 not(TMP\_98) = 0 TMP\_99 = 1 not(TMP\_99) = 0 TMP\_100 = 0 not(TMP\_100) = 1 TMP\_101 = 5 TMP\_102 = 0 not(TMP\_102) = 1 TMP\_103 = 0 not(TMP\_103) = 1 TMP\_104 = 0 TMP\_105 = 1 not(TMP\_105) = 0 TMP\_106 = 1 not(TMP\_106) = 0 TMP\_107 = 2 TMP\_108 = 0 not(TMP\_108) = 1 TMP\_109 = 0 not(TMP\_109) = 1 TMP\_110 = 1 not(TMP\_110) = 0 TMP\_111 = 1 not(TMP\_111) = 0 TMP\_112 = 1 not(TMP\_112) = 0 TMP\_113 = 2 TMP\_114 = 0 not(TMP\_114) = 1 TMP\_115 = 1 not(TMP\_115) = 0 TMP\_116 = 1 not(TMP\_116) = 0 TMP\_117 = 1 not(TMP\_117) = 0 TMP\_118 = 1 not(TMP\_118) = 0 TMP\_119 = 0 not(TMP\_119) = 1 TMP\_120 = 4 TMP\_121 = 0 not(TMP\_121) = 1 TMP\_122 = 0 not(TMP\_122) = 1 TMP\_123 = 0 TMP\_124 = 1 not(TMP\_124) = 0 TMP\_125 = 1 not(TMP\_125) = 0 TMP\_126 = 2 TMP\_127 = 0 not(TMP\_127) = 1 TMP\_128 = 0 not(TMP\_128) = 1 TMP\_129 = 1 not(TMP\_129) = 0 TMP\_130 = 1 not(TMP\_130) = 0 TMP\_131 = 1 not(TMP\_131) = 0 TMP\_132 = 2 TMP\_133 = 1 not(TMP\_133) = 0 TMP\_134 = 1 not(TMP\_134) = 0 TMP\_135 = 1 not(TMP\_135) = 0 TMP\_136 = 1 not(TMP\_136) = 0 TMP\_137 = 1 not(TMP\_137) = 0 TMP\_138 = 0 not(TMP\_138) = 1 TMP\_139 = 5 TMP\_140 = 0 not(TMP\_140) = 1 TMP\_141 = 0 not(TMP\_141) = 1 TMP\_142 = 0 TMP\_143 = 1 not(TMP\_143) = 0 TMP\_144 = 1 not(TMP\_144) = 0 TMP\_145 = 2 TMP\_146 = 0 not(TMP\_146) = 1 TMP\_147 = 0 not(TMP\_147) = 1 TMP\_148 = 1 not(TMP\_148) = 0 TMP\_149 = 1 not(TMP\_149) = 0 TMP\_150 = 1 not(TMP\_150) = 0 TMP\_151 = 2 TMP\_152 = 1 not(TMP\_152) = 0 TMP\_153 = 0 not(TMP\_153) = 1 TMP\_154 = 1 not(TMP\_154) = 0 TMP\_155 = 1 not(TMP\_155) = 0 TMP\_156 = 1 not(TMP\_156) = 0 TMP\_157 = 0 not(TMP\_157) = 1 TMP\_158 = 4 TMP\_159 = 0 not(TMP\_159) = 1 TMP\_160 = 0 not(TMP\_160) = 1 TMP\_161 = 0 TMP\_162 = 1 not(TMP\_162) = 0 TMP\_163 = 1 not(TMP\_163) = 0 TMP\_164 = 2 TMP\_165 = 0 not(TMP\_165) = 1 TMP\_166 = 0 not(TMP\_166) = 1 TMP\_167 = 1 not(TMP\_167) = 0 TMP\_168 = 1 not(TMP\_168) = 0 TMP\_169 = 1 not(TMP\_169) = 0 TMP\_170 = 2 TMP\_171 = 1 not(TMP\_171) = 0 TMP\_172 = 0 not(TMP\_172) = 1 TMP\_173 = 1 not(TMP\_173) = 0 TMP\_174 = 1 not(TMP\_174) = 0 TMP\_175 = 1 not(TMP\_175) = 0 TMP\_176 = 1 not(TMP\_176) = 0 TMP\_177 = 5 TMP\_178 = 0 not(TMP\_178) = 1 TMP\_179 = 0 not(TMP\_179) = 1 TMP\_180 = 0 TMP\_181 = 1 not(TMP\_181) = 0 TMP\_182 = 1 not(TMP\_182) = 0 TMP\_183 = 2 TMP\_184 = 0 not(TMP\_184) = 1 TMP\_185 = 0 not(TMP\_185) = 1 TMP\_186 = 1 not(TMP\_186) = 0 TMP\_187 = 1 not(TMP\_187) = 0 TMP\_188 = 1 not(TMP\_188) = 0 TMP\_189 = 2 TMP\_190 = 1 not(TMP\_190) = 0 TMP\_191 = 0 not(TMP\_191) = 1 TMP\_192 = 1 not(TMP\_192) = 0 TMP\_193 = 1 not(TMP\_193) = 0 TMP\_194 = 1 not(TMP\_194) = 0 TMP\_195 = 1 not(TMP\_195) = 0 TMP\_196 = 5 TMP\_197 = 0 not(TMP\_197) = 1 TMP\_198 = 0 not(TMP\_198) = 1 TMP\_199 = 0 TMP\_200 = 1 not(TMP\_200) = 0 TMP\_201 = 1 not(TMP\_201) = 0 TMP\_202 = 2 TMP\_203 = 0 not(TMP\_203) = 1 TMP\_204 = 0 not(TMP\_204) = 1 TMP\_205 = 1 not(TMP\_205) = 0 TMP\_206 = 1 not(TMP\_206) = 0 TMP\_207 = 1 not(TMP\_207) = 0 TMP\_208 = 2 TMP\_209 = 1 not(TMP\_209) = 0 TMP\_210 = 0 not(TMP\_210) = 1 TMP\_211 = 1 not(TMP\_211) = 0 TMP\_212 = 1 not(TMP\_212) = 0 TMP\_213 = 1 not(TMP\_213) = 0 TMP\_214 = 1 not(TMP\_214) = 0 TMP\_215 = 5 TMP\_216 = 0 not(TMP\_216) = 1 TMP\_217 = 0 not(TMP\_217) = 1 TMP\_218 = 0 TMP\_219 = 1 not(TMP\_219) = 0 TMP\_220 = 1 not(TMP\_220) = 0 TMP\_221 = 2 TMP\_222 = 0 not(TMP\_222) = 1 TMP\_223 = 0 not(TMP\_223) = 1 TMP\_224 = 1 not(TMP\_224) = 0 TMP\_225 = 1 not(TMP\_225) = 0 TMP\_226 = 1 not(TMP\_226) = 0 TMP\_227 = 2 TMP\_228 = 1 not(TMP\_228) = 0 TMP\_229 = 0 not(TMP\_229) = 1 TMP\_230 = 1 not(TMP\_230) = 0 TMP\_231 = 1 not(TMP\_231) = 0 TMP\_232 = 1 not(TMP\_232) = 0 TMP\_233 = 0 not(TMP\_233) = 1 TMP\_234 = 4 TMP\_235 = 0 not(TMP\_235) = 1 TMP\_236 = 0 not(TMP\_236) = 1 TMP\_237 = 0 TMP\_238 = 1 not(TMP\_238) = 0 TMP\_239 = 1 not(TMP\_239) = 0 TMP\_240 = 2 TMP\_241 = 0 not(TMP\_241) = 1 TMP\_242 = 0 not(TMP\_242) = 1 TMP\_243 = 1 not(TMP\_243) = 0 TMP\_244 = 1 not(TMP\_244) = 0 TMP\_245 = 1 not(TMP\_245) = 0 TMP\_246 = 2 TMP\_247 = 1 not(TMP\_247) = 0 TMP\_248 = 1 not(TMP\_248) = 0 TMP\_249 = 1 not(TMP\_249) = 0 TMP\_250 = 1 not(TMP\_250) = 0 TMP\_251 = 1 not(TMP\_251) = 0 TMP\_252 = 0 not(TMP\_252) = 1 TMP\_253 = 5 TMP\_254 = 0 not(TMP\_254) = 1 TMP\_255 = 0 not(TMP\_255) = 1 TMP\_256 = 0 TMP\_257 = 1 not(TMP\_257) = 0 TMP\_258 = 1 not(TMP\_258) = 0 TMP\_259 = 2 TMP\_260 = 0 not(TMP\_260) = 1 TMP\_261 = 0 not(TMP\_261) = 1 TMP\_262 = 1 not(TMP\_262) = 0 TMP\_263 = 1 not(TMP\_263) = 0 TMP\_264 = 1 not(TMP\_264) = 0 TMP\_265 = 2 TMP\_266 = 0 not(TMP\_266) = 1 TMP\_267 = 1 not(TMP\_267) = 0 TMP\_268 = 1 not(TMP\_268) = 0 TMP\_269 = 1 not(TMP\_269) = 0 TMP\_270 = 1 not(TMP\_270) = 0 TMP\_271 = 1 not(TMP\_271) = 0 TMP\_272 = 5 TMP\_273 = 0 not(TMP\_273) = 1 TMP\_274 = 0 not(TMP\_274) = 1 TMP\_275 = 0 TMP\_276 = 1 not(TMP\_276) = 0 TMP\_277 = 1 not(TMP\_277) = 0 TMP\_278 = 2 TMP\_279 = 0 not(TMP\_279) = 1 TMP\_280 = 0 not(TMP\_280) = 1 TMP\_281 = 1 not(TMP\_281) = 0 TMP\_282 = 1 not(TMP\_282) = 0 TMP\_283 = 1 not(TMP\_283) = 0 TMP\_284 = 2 TMP\_285 = 0 not(TMP\_285) = 1 TMP\_286 = 1 not(TMP\_286) = 0 TMP\_287 = 1 not(TMP\_287) = 0 TMP\_288 = 1 not(TMP\_288) = 0 TMP\_289 = 1 not(TMP\_289) = 0 TMP\_290 = 1 not(TMP\_290) = 0 TMP\_291 = 5 TMP\_292 = 0 not(TMP\_292) = 1 TMP\_293 = 0 not(TMP\_293) = 1 TMP\_294 = 0 TMP\_295 = 1 not(TMP\_295) = 0 TMP\_296 = 1 not(TMP\_296) = 0 TMP\_297 = 2 TMP\_298 = 0 not(TMP\_298) = 1 TMP\_299 = 0 not(TMP\_299) = 1 TMP\_300 = 1 not(TMP\_300) = 0 TMP\_301 = 1 not(TMP\_301) = 0 TMP\_302 = 1 not(TMP\_302) = 0 TMP\_303 = 2 TMP\_304 = 0 not(TMP\_304) = 1 TMP\_305 = 1 not(TMP\_305) = 0 TMP\_306 = 1 not(TMP\_306) = 0 TMP\_307 = 1 not(TMP\_307) = 0 TMP\_308 = 0 not(TMP\_308) = 1 TMP\_309 = 1 not(TMP\_309) = 0 TMP\_310 = 4 TMP\_311 = 0 not(TMP\_311) = 1 TMP\_312 = 0 not(TMP\_312) = 1 TMP\_313 = 0 TMP\_314 = 1 not(TMP\_314) = 0 TMP\_315 = 1 not(TMP\_315) = 0 TMP\_316 = 2 TMP\_317 = 0 not(TMP\_317) = 1 TMP\_318 = 0 not(TMP\_318) = 1 TMP\_319 = 1 not(TMP\_319) = 0 TMP\_320 = 1 not(TMP\_320) = 0 TMP\_321 = 1 not(TMP\_321) = 0 TMP\_322 = 2 TMP\_323 = 0 not(TMP\_323) = 1 TMP\_324 = 1 not(TMP\_324) = 0 TMP\_325 = 1 not(TMP\_325) = 0 TMP\_326 = 1 not(TMP\_326) = 0 TMP\_327 = 0 not(TMP\_327) = 1 TMP\_328 = 1 not(TMP\_328) = 0 TMP\_329 = 4 TMP\_330 = 0 not(TMP\_330) = 1 TMP\_331 = 0 not(TMP\_331) = 1 TMP\_332 = 0 TMP\_333 = 1 not(TMP\_333) = 0 TMP\_334 = 1 not(TMP\_334) = 0 TMP\_335 = 2 TMP\_336 = 0 not(TMP\_336) = 1 TMP\_337 = 0 not(TMP\_337) = 1 TMP\_338 = 1 not(TMP\_338) = 0 TMP\_339 = 1 not(TMP\_339) = 0 TMP\_340 = 1 not(TMP\_340) = 0 TMP\_341 = 2 TMP\_342 = 1 not(TMP\_342) = 0 TMP\_343 = 1 not(TMP\_343) = 0 TMP\_344 = 1 not(TMP\_344) = 0 TMP\_345 = 1 not(TMP\_345) = 0 TMP\_346 = 0 not(TMP\_346) = 1 TMP\_347 = 1 not(TMP\_347) = 0 TMP\_348 = 5 TMP\_349 = 0 not(TMP\_349) = 1 TMP\_350 = 0 not(TMP\_350) = 1 TMP\_351 = 0 TMP\_352 = 1 not(TMP\_352) = 0 TMP\_353 = 1 not(TMP\_353) = 0 TMP\_354 = 2 TMP\_355 = 0 not(TMP\_355) = 1 TMP\_356 = 0 not(TMP\_356) = 1 TMP\_357 = 1 not(TMP\_357) = 0 TMP\_358 = 1 not(TMP\_358) = 0 TMP\_359 = 1 not(TMP\_359) = 0 TMP\_360 = 2 TMP\_361 = 0 not(TMP\_361) = 1 TMP\_362 = 1 not(TMP\_362) = 0 TMP\_363 = 1 not(TMP\_363) = 0 TMP\_364 = 1 not(TMP\_364) = 0 TMP\_365 = 0 not(TMP\_365) = 1 TMP\_366 = 1 not(TMP\_366) = 0 TMP\_367 = 4 TMP\_368 = 0 not(TMP\_368) = 1 TMP\_369 = 0 not(TMP\_369) = 1 TMP\_370 = 0 TMP\_371 = 1 not(TMP\_371) = 0 TMP\_372 = 1 not(TMP\_372) = 0 TMP\_373 = 2 TMP\_374 = 0 not(TMP\_374) = 1 TMP\_375 = 0 not(TMP\_375) = 1 TMP\_376 = 1 not(TMP\_376) = 0 TMP\_377 = 1 not(TMP\_377) = 0 TMP\_378 = 1 not(TMP\_378) = 0 TMP\_379 = 2 TMP\_380 = 0 not(TMP\_380) = 1 TMP\_381 = 1 not(TMP\_381) = 0 TMP\_382 = 1 not(TMP\_382) = 0 TMP\_383 = 1 not(TMP\_383) = 0 TMP\_384 = 1 not(TMP\_384) = 0 TMP\_385 = 1 not(TMP\_385) = 0 TMP\_386 = 5 TMP\_387 = 0 not(TMP\_387) = 1 TMP\_388 = 0 not(TMP\_388) = 1 TMP\_389 = 0 TMP\_390 = 1 not(TMP\_390) = 0 TMP\_391 = 1 not(TMP\_391) = 0 TMP\_392 = 2 TMP\_393 = 0 not(TMP\_393) = 1 TMP\_394 = 0 not(TMP\_394) = 1 TMP\_395 = 1 not(TMP\_395) = 0 TMP\_396 = 1 not(TMP\_396) = 0 TMP\_397 = 1 not(TMP\_397) = 0 TMP\_398 = 2 TMP\_399 = 0 not(TMP\_399) = 1 TMP\_400 = 1 not(TMP\_400) = 0 TMP\_401 = 1 not(TMP\_401) = 0 TMP\_402 = 1 not(TMP\_402) = 0 TMP\_403 = 1 not(TMP\_403) = 0 TMP\_404 = 1 not(TMP\_404) = 0 TMP\_405 = 5 TMP\_406 = 0 not(TMP\_406) = 1 TMP\_407 = 0 not(TMP\_407) = 1 TMP\_408 = 0 TMP\_409 = 1 not(TMP\_409) = 0 TMP\_410 = 1 not(TMP\_410) = 0 TMP\_411 = 2 TMP\_412 = 0 not(TMP\_412) = 1 TMP\_413 = 0 not(TMP\_413) = 1 TMP\_414 = 1 not(TMP\_414) = 0 TMP\_415 = 1 not(TMP\_415) = 0 TMP\_416 = 1 not(TMP\_416) = 0 TMP\_417 = 2 TMP\_418 = 1 not(TMP\_418) = 0 TMP\_419 = 0 not(TMP\_419) = 1 TMP\_420 = 1 not(TMP\_420) = 0 TMP\_421 = 1 not(TMP\_421) = 0 TMP\_422 = 1 not(TMP\_422) = 0 TMP\_423 = 1 not(TMP\_423) = 0 TMP\_424 = 5 TMP\_425 = 0 not(TMP\_425) = 1 TMP\_426 = 0 not(TMP\_426) = 1 TMP\_427 = 0 TMP\_428 = 1 not(TMP\_428) = 0 TMP\_429 = 1 not(TMP\_429) = 0 TMP\_430 = 2 TMP\_431 = 0 not(TMP\_431) = 1 TMP\_432 = 0 not(TMP\_432) = 1 TMP\_433 = 1 not(TMP\_433) = 0 TMP\_434 = 1 not(TMP\_434) = 0 TMP\_435 = 1 not(TMP\_435) = 0 TMP\_436 = 2 TMP\_437 = 1 not(TMP\_437) = 0 TMP\_438 = 0 not(TMP\_438) = 1 TMP\_439 = 1 not(TMP\_439) = 0 TMP\_440 = 1 not(TMP\_440) = 0 TMP\_441 = 0 not(TMP\_441) = 1 TMP\_442 = 1 not(TMP\_442) = 0 TMP\_443 = 4 TMP\_444 = 0 not(TMP\_444) = 1 TMP\_445 = 0 not(TMP\_445) = 1 TMP\_446 = 0 TMP\_447 = 1 not(TMP\_447) = 0 TMP\_448 = 1 not(TMP\_448) = 0 TMP\_449 = 2 TMP\_450 = 0 not(TMP\_450) = 1 TMP\_451 = 0 not(TMP\_451) = 1 TMP\_452 = 1 not(TMP\_452) = 0 TMP\_453 = 1 not(TMP\_453) = 0 TMP\_454 = 1 not(TMP\_454) = 0 TMP\_455 = 2 TMP\_456 = 1 not(TMP\_456) = 0 TMP\_457 = 0 not(TMP\_457) = 1 TMP\_458 = 1 not(TMP\_458) = 0 TMP\_459 = 1 not(TMP\_459) = 0 TMP\_460 = 0 not(TMP\_460) = 1 TMP\_461 = 1 not(TMP\_461) = 0 TMP\_462 = 4 TMP\_463 = 0 not(TMP\_463) = 1 TMP\_464 = 0 not(TMP\_464) = 1 TMP\_465 = 0 TMP\_466 = 1 not(TMP\_466) = 0 TMP\_467 = 1 not(TMP\_467) = 0 TMP\_468 = 2 TMP\_469 = 0 not(TMP\_469) = 1 TMP\_470 = 0 not(TMP\_470) = 1 TMP\_471 = 1 not(TMP\_471) = 0 TMP\_472 = 1 not(TMP\_472) = 0 TMP\_473 = 1 not(TMP\_473) = 0 TMP\_474 = 2 TMP\_475 = 1 not(TMP\_475) = 0 TMP\_476 = 0 not(TMP\_476) = 1 TMP\_477 = 1 not(TMP\_477) = 0 TMP\_478 = 1 not(TMP\_478) = 0 TMP\_479 = 0 not(TMP\_479) = 1 TMP\_480 = 1 not(TMP\_480) = 0 TMP\_481 = 4 TMP\_482 = 0 not(TMP\_482) = 1 TMP\_483 = 0 not(TMP\_483) = 1 TMP\_484 = 0 TMP\_485 = 1 not(TMP\_485) = 0 TMP\_486 = 1 not(TMP\_486) = 0 TMP\_487 = 2 TMP\_488 = 0 not(TMP\_488) = 1 TMP\_489 = 0 not(TMP\_489) = 1 TMP\_490 = 1 not(TMP\_490) = 0 TMP\_491 = 1 not(TMP\_491) = 0 TMP\_492 = 1 not(TMP\_492) = 0 TMP\_493 = 2 TMP\_494 = 1 not(TMP\_494) = 0 TMP\_495 = 1 not(TMP\_495) = 0 TMP\_496 = 1 not(TMP\_496) = 0 TMP\_497 = 1 not(TMP\_497) = 0 TMP\_498 = 0 not(TMP\_498) = 1 TMP\_499 = 1 not(TMP\_499) = 0 TMP\_500 = 5 TMP\_501 = 0 not(TMP\_501) = 1 TMP\_502 = 0 not(TMP\_502) = 1 TMP\_503 = 0 TMP\_504 = 1 not(TMP\_504) = 0 TMP\_505 = 1 not(TMP\_505) = 0 TMP\_506 = 2 TMP\_507 = 0 not(TMP\_507) = 1 TMP\_508 = 0 not(TMP\_508) = 1 TMP\_509 = 1 not(TMP\_509) = 0 TMP\_510 = 1 not(TMP\_510) = 0 TMP\_511 = 1 not(TMP\_511) = 0 TMP\_512 = 2 TMP\_513 = 1 not(TMP\_513) = 0 TMP\_514 = 0 not(TMP\_514) = 1 TMP\_515 = 1 not(TMP\_515) = 0 TMP\_516 = 1 not(TMP\_516) = 0 TMP\_517 = 1 not(TMP\_517) = 0 TMP\_518 = 1 not(TMP\_518) = 0 TMP\_519 = 5 TMP\_520 = 0 not(TMP\_520) = 1 TMP\_521 = 0 not(TMP\_521) = 1 TMP\_522 = 0 TMP\_523 = 1 not(TMP\_523) = 0 TMP\_524 = 1 not(TMP\_524) = 0 TMP\_525 = 2 TMP\_526 = 0 not(TMP\_526) = 1 TMP\_527 = 0 not(TMP\_527) = 1 TMP\_528 = 1 not(TMP\_528) = 0 TMP\_529 = 1 not(TMP\_529) = 0 TMP\_530 = 1 not(TMP\_530) = 0 TMP\_531 = 2 Area\_0 = 60 Distance\_0\_Rule\_0 = 20 Distance\_1\_Rule\_0 = 3 Distance\_2\_Rule\_0 = 1 Area\_1 = 174 Distance\_0\_Rule\_1 = 58 Distance\_1\_Rule\_1 = 3 Distance\_2\_Rule\_1 = 1 Area\_2 = 116 Distance\_0\_Rule\_2 = 58 Distance\_1\_Rule\_2 = 2 Distance\_2\_Rule\_2 = 1 Area\_3 = 58 Distance\_0\_Rule\_3 = 58 Distance\_1\_Rule\_3 = 1 Distance\_2\_Rule\_3 = 1 Area\_4 = 123 -(Rule\_4\_LB) = -79 Distance\_0\_Rule\_4 = 41 -(Rule\_4\_LB) = 0 Distance\_1\_Rule\_4 = 3 -(Rule\_4\_LB) = 0 Distance\_2\_Rule\_4 = 1 Area\_5 = 63 -(Rule\_5\_LB) = 0 Distance\_0\_Rule\_5 = 21 -(Rule\_5\_LB) = 0 Distance\_1\_Rule\_5 = 3 -(Rule\_5\_LB) = 0 Distance\_2\_Rule\_5 = 1 Area\_6 = 123 -(Rule\_6\_LB) = -79 Distance\_0\_Rule\_6 = 41 -(Rule\_6\_LB) = 0 Distance\_1\_Rule\_6 = 3 -(Rule\_6\_LB) = -1 Distance\_2\_Rule\_6 = 1 Area\_7 = 3 -(Rule\_7\_LB) = -20 Distance\_0\_Rule\_7 = 1 -(Rule\_7\_LB) = 0 Distance\_1\_Rule\_7 = 3 -(Rule\_7\_LB) = -1 Distance\_2\_Rule\_7 = 1 TMP\_532 = 720 .

- Solution #7 found. 7 Solutions, Resolution 0.295s, 91 Nodes (308.9 n/s), 117 Backtracks, 58 Fails, 0 Restarts

Rule\_4\_LB = 79 Rule\_4\_UB = 120 Rule\_4\_LB = 0 Rule\_4\_UB = 3 Rule\_4\_LB = 0 Rule\_4\_UB = 1 Rule\_5\_LB = 0 Rule\_5\_UB = 21 Rule\_5\_LB = 0 Rule\_5\_UB = 3 Rule\_5\_LB = 0 Rule\_5\_UB = 1 Rule\_6\_LB = 79 Rule\_6\_UB = 120 Rule\_6\_LB = 0 Rule\_6\_UB = 3 Rule\_6\_LB = 1 Rule\_6\_UB = 2 Rule\_7\_LB = 20 Rule\_7\_UB = 21 Rule\_7\_LB = 0 Rule\_7\_UB = 3 Rule\_7\_LB = 1 Rule\_7\_UB = 2 Overlaps\_0\_0 = 0 Overlaps\_0\_1 = 0 Overlaps\_0\_2 = 0 Overlaps\_0\_3 = 1 Overlaps\_0\_4 = 0 Overlaps\_0\_5 = 0 Overlaps\_0\_6 = 0 Overlaps\_0\_7 = 0 Overlaps\_1\_0 = 0 Overlaps\_1\_1 = 0 Overlaps\_1\_2 = 0 Overlaps\_1\_3 = 0 Overlaps\_1\_4 = 0 Overlaps\_1\_5 = 0 Overlaps\_1\_6 = 0 Overlaps\_1\_7 = 0 Overlaps\_2\_0 = 0 Overlaps\_2\_1 = 0 Overlaps\_2\_2 = 0 Overlaps\_2\_3 = 0 Overlaps\_2\_4 = 0 Overlaps\_2\_5 = 0 Overlaps\_2\_6 = 0 Overlaps\_2\_7 = 0 Overlaps\_3\_0 = 1 Overlaps\_3\_1 = 0 Overlaps\_3\_2 = 0 Overlaps\_3\_3 = 0 Overlaps\_3\_4 = 0 Overlaps\_3\_5 = 0 Overlaps\_3\_6 = 0 Overlaps\_3\_7 = 0 Overlaps\_4\_0 = 0 Overlaps\_4\_1 = 0 Overlaps\_4\_2 = 0 Overlaps\_4\_3 = 0 Overlaps\_4\_4 = 0 Overlaps\_4\_5 = 0 Overlaps\_4\_6 = 0 Overlaps\_4\_7 = 0 Overlaps\_5\_0 = 0 Overlaps\_5\_1 = 0 Overlaps\_5\_2 = 0 Overlaps\_5\_3 = 0 Overlaps\_5\_4 = 0 Overlaps\_5\_5 = 0 Overlaps\_5\_6 = 0 Overlaps\_5\_7 = 0 Overlaps\_6\_0 = 0 Overlaps\_6\_1 = 0 Overlaps\_6\_2 = 0 Overlaps\_6\_3 = 0 Overlaps\_6\_4 = 0 Overlaps\_6\_5 = 0 Overlaps\_6\_6 = 0 Overlaps\_6\_7 = 0 Overlaps\_7\_0 = 0 Overlaps\_7\_1 = 0 Overlaps\_7\_2 = 0 Overlaps\_7\_3 = 0 Overlaps\_7\_4 = 0 Overlaps\_7\_5 = 0 Overlaps\_7\_6 = 0 Overlaps\_7\_7 = 0 TMP\_0 = 0 not(TMP\_0) = 1 TMP\_1 = 1 not(TMP\_1) = 0 TMP\_2 = 1 not(TMP\_2) = 0 TMP\_3 = 1 not(TMP\_3) = 0 TMP\_4 = 1 not(TMP\_4) = 0 TMP\_5 = 0 not(TMP\_5) = 1 TMP\_6 = 4 TMP\_7 = 0 not(TMP\_7) = 1 TMP\_8 = 0 not(TMP\_8) = 1 TMP\_9 = 0 TMP\_10 = 1 not(TMP\_10) = 0 TMP\_11 = 1 not(TMP\_11) = 0 TMP\_12 = 2 TMP\_13 = 0 not(TMP\_13) = 1 TMP\_14 = 0 not(TMP\_14) = 1 TMP\_15 = 1 not(TMP\_15) = 0 TMP\_16 = 1 not(TMP\_16) = 0 TMP\_17 = 1 not(TMP\_17) = 0 TMP\_18 = 2 TMP\_19 = 0 not(TMP\_19) = 1 TMP\_20 = 1 not(TMP\_20) = 0 TMP\_21 = 1 not(TMP\_21) = 0 TMP\_22 = 1 not(TMP\_22) = 0 TMP\_23 = 1 not(TMP\_23) = 0 TMP\_24 = 0 not(TMP\_24) = 1 TMP\_25 = 4 TMP\_26 = 0 not(TMP\_26) = 1 TMP\_27 = 0 not(TMP\_27) = 1 TMP\_28 = 0 TMP\_29 = 1 not(TMP\_29) = 0 TMP\_30 = 1 not(TMP\_30) = 0 TMP\_31 = 2 TMP\_32 = 0 not(TMP\_32) = 1 TMP\_33 = 0 not(TMP\_33) = 1 TMP\_34 = 1 not(TMP\_34) = 0 TMP\_35 = 1 not(TMP\_35) = 0 TMP\_36 = 1 not(TMP\_36) = 0 TMP\_37 = 2 TMP\_38 = 0 not(TMP\_38) = 1 TMP\_39 = 1 not(TMP\_39) = 0 TMP\_40 = 1 not(TMP\_40) = 0 TMP\_41 = 1 not(TMP\_41) = 0 TMP\_42 = 1 not(TMP\_42) = 0 TMP\_43 = 1 not(TMP\_43) = 0 TMP\_44 = 5 TMP\_45 = 0 not(TMP\_45) = 1 TMP\_46 = 0 not(TMP\_46) = 1 TMP\_47 = 0 TMP\_48 = 1 not(TMP\_48) = 0 TMP\_49 = 1 not(TMP\_49) = 0 TMP\_50 = 2 TMP\_51 = 0 not(TMP\_51) = 1 TMP\_52 = 0 not(TMP\_52) = 1 TMP\_53 = 1 not(TMP\_53) = 0 TMP\_54 = 1 not(TMP\_54) = 0 TMP\_55 = 1 not(TMP\_55) = 0 TMP\_56 = 2 TMP\_57 = 0 not(TMP\_57) = 1 TMP\_58 = 1 not(TMP\_58) = 0 TMP\_59 = 1 not(TMP\_59) = 0 TMP\_60 = 1 not(TMP\_60) = 0 TMP\_61 = 1 not(TMP\_61) = 0 TMP\_62 = 1 not(TMP\_62) = 0 TMP\_63 = 5 TMP\_64 = 0 not(TMP\_64) = 1 TMP\_65 = 0 not(TMP\_65) = 1 TMP\_66 = 0 TMP\_67 = 1 not(TMP\_67) = 0 TMP\_68 = 1 not(TMP\_68) = 0 TMP\_69 = 2 TMP\_70 = 0 not(TMP\_70) = 1 TMP\_71 = 0 not(TMP\_71) = 1 TMP\_72 = 1 not(TMP\_72) = 0 TMP\_73 = 1 not(TMP\_73) = 0 TMP\_74 = 1 not(TMP\_74) = 0 TMP\_75 = 2 TMP\_76 = 0 not(TMP\_76) = 1 TMP\_77 = 1 not(TMP\_77) = 0 TMP\_78 = 1 not(TMP\_78) = 0 TMP\_79 = 1 not(TMP\_79) = 0 TMP\_80 = 1 not(TMP\_80) = 0 TMP\_81 = 1 not(TMP\_81) = 0 TMP\_82 = 5 TMP\_83 = 0 not(TMP\_83) = 1 TMP\_84 = 0 not(TMP\_84) = 1 TMP\_85 = 0 TMP\_86 = 1 not(TMP\_86) = 0 TMP\_87 = 1 not(TMP\_87) = 0 TMP\_88 = 2 TMP\_89 = 0 not(TMP\_89) = 1 TMP\_90 = 0 not(TMP\_90) = 1 TMP\_91 = 1 not(TMP\_91) = 0 TMP\_92 = 1 not(TMP\_92) = 0 TMP\_93 = 1 not(TMP\_93) = 0 TMP\_94 = 2 TMP\_95 = 1 not(TMP\_95) = 0 TMP\_96 = 1 not(TMP\_96) = 0 TMP\_97 = 1 not(TMP\_97) = 0 TMP\_98 = 1 not(TMP\_98) = 0 TMP\_99 = 1 not(TMP\_99) = 0 TMP\_100 = 0 not(TMP\_100) = 1 TMP\_101 = 5 TMP\_102 = 0 not(TMP\_102) = 1 TMP\_103 = 0 not(TMP\_103) = 1 TMP\_104 = 0 TMP\_105 = 1 not(TMP\_105) = 0 TMP\_106 = 1 not(TMP\_106) = 0 TMP\_107 = 2 TMP\_108 = 0 not(TMP\_108) = 1 TMP\_109 = 0 not(TMP\_109) = 1 TMP\_110 = 1 not(TMP\_110) = 0 TMP\_111 = 1 not(TMP\_111) = 0 TMP\_112 = 1 not(TMP\_112) = 0 TMP\_113 = 2 TMP\_114 = 0 not(TMP\_114) = 1 TMP\_115 = 1 not(TMP\_115) = 0 TMP\_116 = 1 not(TMP\_116) = 0 TMP\_117 = 1 not(TMP\_117) = 0 TMP\_118 = 1 not(TMP\_118) = 0 TMP\_119 = 0 not(TMP\_119) = 1 TMP\_120 = 4 TMP\_121 = 0 not(TMP\_121) = 1 TMP\_122 = 0 not(TMP\_122) = 1 TMP\_123 = 0 TMP\_124 = 1 not(TMP\_124) = 0 TMP\_125 = 1 not(TMP\_125) = 0 TMP\_126 = 2 TMP\_127 = 0 not(TMP\_127) = 1 TMP\_128 = 0 not(TMP\_128) = 1 TMP\_129 = 1 not(TMP\_129) = 0 TMP\_130 = 1 not(TMP\_130) = 0 TMP\_131 = 1 not(TMP\_131) = 0 TMP\_132 = 2 TMP\_133 = 1 not(TMP\_133) = 0 TMP\_134 = 1 not(TMP\_134) = 0 TMP\_135 = 1 not(TMP\_135) = 0 TMP\_136 = 1 not(TMP\_136) = 0 TMP\_137 = 1 not(TMP\_137) = 0 TMP\_138 = 0 not(TMP\_138) = 1 TMP\_139 = 5 TMP\_140 = 0 not(TMP\_140) = 1 TMP\_141 = 0 not(TMP\_141) = 1 TMP\_142 = 0 TMP\_143 = 1 not(TMP\_143) = 0 TMP\_144 = 1 not(TMP\_144) = 0 TMP\_145 = 2 TMP\_146 = 0 not(TMP\_146) = 1 TMP\_147 = 0 not(TMP\_147) = 1 TMP\_148 = 1 not(TMP\_148) = 0 TMP\_149 = 1 not(TMP\_149) = 0 TMP\_150 = 1 not(TMP\_150) = 0 TMP\_151 = 2 TMP\_152 = 1 not(TMP\_152) = 0 TMP\_153 = 0 not(TMP\_153) = 1 TMP\_154 = 1 not(TMP\_154) = 0 TMP\_155 = 1 not(TMP\_155) = 0 TMP\_156 = 1 not(TMP\_156) = 0 TMP\_157 = 0 not(TMP\_157) = 1 TMP\_158 = 4 TMP\_159 = 0 not(TMP\_159) = 1 TMP\_160 = 0 not(TMP\_160) = 1 TMP\_161 = 0 TMP\_162 = 1 not(TMP\_162) = 0 TMP\_163 = 1 not(TMP\_163) = 0 TMP\_164 = 2 TMP\_165 = 0 not(TMP\_165) = 1 TMP\_166 = 0 not(TMP\_166) = 1 TMP\_167 = 1 not(TMP\_167) = 0 TMP\_168 = 1 not(TMP\_168) = 0 TMP\_169 = 1 not(TMP\_169) = 0 TMP\_170 = 2 TMP\_171 = 1 not(TMP\_171) = 0 TMP\_172 = 0 not(TMP\_172) = 1 TMP\_173 = 1 not(TMP\_173) = 0 TMP\_174 = 1 not(TMP\_174) = 0 TMP\_175 = 1 not(TMP\_175) = 0 TMP\_176 = 1 not(TMP\_176) = 0 TMP\_177 = 5 TMP\_178 = 0 not(TMP\_178) = 1 TMP\_179 = 0 not(TMP\_179) = 1 TMP\_180 = 0 TMP\_181 = 1 not(TMP\_181) = 0 TMP\_182 = 1 not(TMP\_182) = 0 TMP\_183 = 2 TMP\_184 = 0 not(TMP\_184) = 1 TMP\_185 = 0 not(TMP\_185) = 1 TMP\_186 = 1 not(TMP\_186) = 0 TMP\_187 = 1 not(TMP\_187) = 0 TMP\_188 = 1 not(TMP\_188) = 0 TMP\_189 = 2 TMP\_190 = 1 not(TMP\_190) = 0 TMP\_191 = 0 not(TMP\_191) = 1 TMP\_192 = 1 not(TMP\_192) = 0 TMP\_193 = 1 not(TMP\_193) = 0 TMP\_194 = 1 not(TMP\_194) = 0 TMP\_195 = 1 not(TMP\_195) = 0 TMP\_196 = 5 TMP\_197 = 0 not(TMP\_197) = 1 TMP\_198 = 0 not(TMP\_198) = 1 TMP\_199 = 0 TMP\_200 = 1 not(TMP\_200) = 0 TMP\_201 = 1 not(TMP\_201) = 0 TMP\_202 = 2 TMP\_203 = 0 not(TMP\_203) = 1 TMP\_204 = 0 not(TMP\_204) = 1 TMP\_205 = 1 not(TMP\_205) = 0 TMP\_206 = 1 not(TMP\_206) = 0 TMP\_207 = 1 not(TMP\_207) = 0 TMP\_208 = 2 TMP\_209 = 1 not(TMP\_209) = 0 TMP\_210 = 0 not(TMP\_210) = 1 TMP\_211 = 1 not(TMP\_211) = 0 TMP\_212 = 1 not(TMP\_212) = 0 TMP\_213 = 1 not(TMP\_213) = 0 TMP\_214 = 1 not(TMP\_214) = 0 TMP\_215 = 5 TMP\_216 = 0 not(TMP\_216) = 1 TMP\_217 = 0 not(TMP\_217) = 1 TMP\_218 = 0 TMP\_219 = 1 not(TMP\_219) = 0 TMP\_220 = 1 not(TMP\_220) = 0 TMP\_221 = 2 TMP\_222 = 0 not(TMP\_222) = 1 TMP\_223 = 0 not(TMP\_223) = 1 TMP\_224 = 1 not(TMP\_224) = 0 TMP\_225 = 1 not(TMP\_225) = 0 TMP\_226 = 1 not(TMP\_226) = 0 TMP\_227 = 2 TMP\_228 = 1 not(TMP\_228) = 0 TMP\_229 = 0 not(TMP\_229) = 1 TMP\_230 = 1 not(TMP\_230) = 0 TMP\_231 = 1 not(TMP\_231) = 0 TMP\_232 = 1 not(TMP\_232) = 0 TMP\_233 = 0 not(TMP\_233) = 1 TMP\_234 = 4 TMP\_235 = 0 not(TMP\_235) = 1 TMP\_236 = 0 not(TMP\_236) = 1 TMP\_237 = 0 TMP\_238 = 1 not(TMP\_238) = 0 TMP\_239 = 1 not(TMP\_239) = 0 TMP\_240 = 2 TMP\_241 = 0 not(TMP\_241) = 1 TMP\_242 = 0 not(TMP\_242) = 1 TMP\_243 = 1 not(TMP\_243) = 0 TMP\_244 = 1 not(TMP\_244) = 0 TMP\_245 = 1 not(TMP\_245) = 0 TMP\_246 = 2 TMP\_247 = 1 not(TMP\_247) = 0 TMP\_248 = 1 not(TMP\_248) = 0 TMP\_249 = 1 not(TMP\_249) = 0 TMP\_250 = 1 not(TMP\_250) = 0 TMP\_251 = 1 not(TMP\_251) = 0 TMP\_252 = 0 not(TMP\_252) = 1 TMP\_253 = 5 TMP\_254 = 0 not(TMP\_254) = 1 TMP\_255 = 0 not(TMP\_255) = 1 TMP\_256 = 0 TMP\_257 = 1 not(TMP\_257) = 0 TMP\_258 = 1 not(TMP\_258) = 0 TMP\_259 = 2 TMP\_260 = 0 not(TMP\_260) = 1 TMP\_261 = 0 not(TMP\_261) = 1 TMP\_262 = 1 not(TMP\_262) = 0 TMP\_263 = 1 not(TMP\_263) = 0 TMP\_264 = 1 not(TMP\_264) = 0 TMP\_265 = 2 TMP\_266 = 0 not(TMP\_266) = 1 TMP\_267 = 1 not(TMP\_267) = 0 TMP\_268 = 1 not(TMP\_268) = 0 TMP\_269 = 1 not(TMP\_269) = 0 TMP\_270 = 1 not(TMP\_270) = 0 TMP\_271 = 1 not(TMP\_271) = 0 TMP\_272 = 5 TMP\_273 = 0 not(TMP\_273) = 1 TMP\_274 = 0 not(TMP\_274) = 1 TMP\_275 = 0 TMP\_276 = 1 not(TMP\_276) = 0 TMP\_277 = 1 not(TMP\_277) = 0 TMP\_278 = 2 TMP\_279 = 0 not(TMP\_279) = 1 TMP\_280 = 0 not(TMP\_280) = 1 TMP\_281 = 1 not(TMP\_281) = 0 TMP\_282 = 1 not(TMP\_282) = 0 TMP\_283 = 1 not(TMP\_283) = 0 TMP\_284 = 2 TMP\_285 = 0 not(TMP\_285) = 1 TMP\_286 = 1 not(TMP\_286) = 0 TMP\_287 = 1 not(TMP\_287) = 0 TMP\_288 = 1 not(TMP\_288) = 0 TMP\_289 = 1 not(TMP\_289) = 0 TMP\_290 = 1 not(TMP\_290) = 0 TMP\_291 = 5 TMP\_292 = 0 not(TMP\_292) = 1 TMP\_293 = 0 not(TMP\_293) = 1 TMP\_294 = 0 TMP\_295 = 1 not(TMP\_295) = 0 TMP\_296 = 1 not(TMP\_296) = 0 TMP\_297 = 2 TMP\_298 = 0 not(TMP\_298) = 1 TMP\_299 = 0 not(TMP\_299) = 1 TMP\_300 = 1 not(TMP\_300) = 0 TMP\_301 = 1 not(TMP\_301) = 0 TMP\_302 = 1 not(TMP\_302) = 0 TMP\_303 = 2 TMP\_304 = 0 not(TMP\_304) = 1 TMP\_305 = 1 not(TMP\_305) = 0 TMP\_306 = 1 not(TMP\_306) = 0 TMP\_307 = 1 not(TMP\_307) = 0 TMP\_308 = 0 not(TMP\_308) = 1 TMP\_309 = 1 not(TMP\_309) = 0 TMP\_310 = 4 TMP\_311 = 0 not(TMP\_311) = 1 TMP\_312 = 0 not(TMP\_312) = 1 TMP\_313 = 0 TMP\_314 = 1 not(TMP\_314) = 0 TMP\_315 = 1 not(TMP\_315) = 0 TMP\_316 = 2 TMP\_317 = 0 not(TMP\_317) = 1 TMP\_318 = 0 not(TMP\_318) = 1 TMP\_319 = 1 not(TMP\_319) = 0 TMP\_320 = 1 not(TMP\_320) = 0 TMP\_321 = 1 not(TMP\_321) = 0 TMP\_322 = 2 TMP\_323 = 0 not(TMP\_323) = 1 TMP\_324 = 1 not(TMP\_324) = 0 TMP\_325 = 1 not(TMP\_325) = 0 TMP\_326 = 1 not(TMP\_326) = 0 TMP\_327 = 0 not(TMP\_327) = 1 TMP\_328 = 1 not(TMP\_328) = 0 TMP\_329 = 4 TMP\_330 = 0 not(TMP\_330) = 1 TMP\_331 = 0 not(TMP\_331) = 1 TMP\_332 = 0 TMP\_333 = 1 not(TMP\_333) = 0 TMP\_334 = 1 not(TMP\_334) = 0 TMP\_335 = 2 TMP\_336 = 0 not(TMP\_336) = 1 TMP\_337 = 0 not(TMP\_337) = 1 TMP\_338 = 1 not(TMP\_338) = 0 TMP\_339 = 1 not(TMP\_339) = 0 TMP\_340 = 1 not(TMP\_340) = 0 TMP\_341 = 2 TMP\_342 = 1 not(TMP\_342) = 0 TMP\_343 = 1 not(TMP\_343) = 0 TMP\_344 = 1 not(TMP\_344) = 0 TMP\_345 = 1 not(TMP\_345) = 0 TMP\_346 = 0 not(TMP\_346) = 1 TMP\_347 = 1 not(TMP\_347) = 0 TMP\_348 = 5 TMP\_349 = 0 not(TMP\_349) = 1 TMP\_350 = 0 not(TMP\_350) = 1 TMP\_351 = 0 TMP\_352 = 1 not(TMP\_352) = 0 TMP\_353 = 1 not(TMP\_353) = 0 TMP\_354 = 2 TMP\_355 = 0 not(TMP\_355) = 1 TMP\_356 = 0 not(TMP\_356) = 1 TMP\_357 = 1 not(TMP\_357) = 0 TMP\_358 = 1 not(TMP\_358) = 0 TMP\_359 = 1 not(TMP\_359) = 0 TMP\_360 = 2 TMP\_361 = 0 not(TMP\_361) = 1 TMP\_362 = 1 not(TMP\_362) = 0 TMP\_363 = 1 not(TMP\_363) = 0 TMP\_364 = 1 not(TMP\_364) = 0 TMP\_365 = 0 not(TMP\_365) = 1 TMP\_366 = 1 not(TMP\_366) = 0 TMP\_367 = 4 TMP\_368 = 0 not(TMP\_368) = 1 TMP\_369 = 0 not(TMP\_369) = 1 TMP\_370 = 0 TMP\_371 = 1 not(TMP\_371) = 0 TMP\_372 = 1 not(TMP\_372) = 0 TMP\_373 = 2 TMP\_374 = 0 not(TMP\_374) = 1 TMP\_375 = 0 not(TMP\_375) = 1 TMP\_376 = 1 not(TMP\_376) = 0 TMP\_377 = 1 not(TMP\_377) = 0 TMP\_378 = 1 not(TMP\_378) = 0 TMP\_379 = 2 TMP\_380 = 0 not(TMP\_380) = 1 TMP\_381 = 1 not(TMP\_381) = 0 TMP\_382 = 1 not(TMP\_382) = 0 TMP\_383 = 1 not(TMP\_383) = 0 TMP\_384 = 1 not(TMP\_384) = 0 TMP\_385 = 1 not(TMP\_385) = 0 TMP\_386 = 5 TMP\_387 = 0 not(TMP\_387) = 1 TMP\_388 = 0 not(TMP\_388) = 1 TMP\_389 = 0 TMP\_390 = 1 not(TMP\_390) = 0 TMP\_391 = 1 not(TMP\_391) = 0 TMP\_392 = 2 TMP\_393 = 0 not(TMP\_393) = 1 TMP\_394 = 0 not(TMP\_394) = 1 TMP\_395 = 1 not(TMP\_395) = 0 TMP\_396 = 1 not(TMP\_396) = 0 TMP\_397 = 1 not(TMP\_397) = 0 TMP\_398 = 2 TMP\_399 = 0 not(TMP\_399) = 1 TMP\_400 = 1 not(TMP\_400) = 0 TMP\_401 = 1 not(TMP\_401) = 0 TMP\_402 = 1 not(TMP\_402) = 0 TMP\_403 = 1 not(TMP\_403) = 0 TMP\_404 = 1 not(TMP\_404) = 0 TMP\_405 = 5 TMP\_406 = 0 not(TMP\_406) = 1 TMP\_407 = 0 not(TMP\_407) = 1 TMP\_408 = 0 TMP\_409 = 1 not(TMP\_409) = 0 TMP\_410 = 1 not(TMP\_410) = 0 TMP\_411 = 2 TMP\_412 = 0 not(TMP\_412) = 1 TMP\_413 = 0 not(TMP\_413) = 1 TMP\_414 = 1 not(TMP\_414) = 0 TMP\_415 = 1 not(TMP\_415) = 0 TMP\_416 = 1 not(TMP\_416) = 0 TMP\_417 = 2 TMP\_418 = 1 not(TMP\_418) = 0 TMP\_419 = 0 not(TMP\_419) = 1 TMP\_420 = 1 not(TMP\_420) = 0 TMP\_421 = 1 not(TMP\_421) = 0 TMP\_422 = 1 not(TMP\_422) = 0 TMP\_423 = 1 not(TMP\_423) = 0 TMP\_424 = 5 TMP\_425 = 0 not(TMP\_425) = 1 TMP\_426 = 0 not(TMP\_426) = 1 TMP\_427 = 0 TMP\_428 = 1 not(TMP\_428) = 0 TMP\_429 = 1 not(TMP\_429) = 0 TMP\_430 = 2 TMP\_431 = 0 not(TMP\_431) = 1 TMP\_432 = 0 not(TMP\_432) = 1 TMP\_433 = 1 not(TMP\_433) = 0 TMP\_434 = 1 not(TMP\_434) = 0 TMP\_435 = 1 not(TMP\_435) = 0 TMP\_436 = 2 TMP\_437 = 1 not(TMP\_437) = 0 TMP\_438 = 0 not(TMP\_438) = 1 TMP\_439 = 1 not(TMP\_439) = 0 TMP\_440 = 1 not(TMP\_440) = 0 TMP\_441 = 0 not(TMP\_441) = 1 TMP\_442 = 1 not(TMP\_442) = 0 TMP\_443 = 4 TMP\_444 = 0 not(TMP\_444) = 1 TMP\_445 = 0 not(TMP\_445) = 1 TMP\_446 = 0 TMP\_447 = 1 not(TMP\_447) = 0 TMP\_448 = 1 not(TMP\_448) = 0 TMP\_449 = 2 TMP\_450 = 0 not(TMP\_450) = 1 TMP\_451 = 0 not(TMP\_451) = 1 TMP\_452 = 1 not(TMP\_452) = 0 TMP\_453 = 1 not(TMP\_453) = 0 TMP\_454 = 1 not(TMP\_454) = 0 TMP\_455 = 2 TMP\_456 = 1 not(TMP\_456) = 0 TMP\_457 = 0 not(TMP\_457) = 1 TMP\_458 = 1 not(TMP\_458) = 0 TMP\_459 = 1 not(TMP\_459) = 0 TMP\_460 = 0 not(TMP\_460) = 1 TMP\_461 = 1 not(TMP\_461) = 0 TMP\_462 = 4 TMP\_463 = 0 not(TMP\_463) = 1 TMP\_464 = 0 not(TMP\_464) = 1 TMP\_465 = 0 TMP\_466 = 1 not(TMP\_466) = 0 TMP\_467 = 1 not(TMP\_467) = 0 TMP\_468 = 2 TMP\_469 = 0 not(TMP\_469) = 1 TMP\_470 = 0 not(TMP\_470) = 1 TMP\_471 = 1 not(TMP\_471) = 0 TMP\_472 = 1 not(TMP\_472) = 0 TMP\_473 = 1 not(TMP\_473) = 0 TMP\_474 = 2 TMP\_475 = 1 not(TMP\_475) = 0 TMP\_476 = 0 not(TMP\_476) = 1 TMP\_477 = 1 not(TMP\_477) = 0 TMP\_478 = 1 not(TMP\_478) = 0 TMP\_479 = 0 not(TMP\_479) = 1 TMP\_480 = 1 not(TMP\_480) = 0 TMP\_481 = 4 TMP\_482 = 0 not(TMP\_482) = 1 TMP\_483 = 0 not(TMP\_483) = 1 TMP\_484 = 0 TMP\_485 = 1 not(TMP\_485) = 0 TMP\_486 = 1 not(TMP\_486) = 0 TMP\_487 = 2 TMP\_488 = 0 not(TMP\_488) = 1 TMP\_489 = 0 not(TMP\_489) = 1 TMP\_490 = 1 not(TMP\_490) = 0 TMP\_491 = 1 not(TMP\_491) = 0 TMP\_492 = 1 not(TMP\_492) = 0 TMP\_493 = 2 TMP\_494 = 1 not(TMP\_494) = 0 TMP\_495 = 1 not(TMP\_495) = 0 TMP\_496 = 1 not(TMP\_496) = 0 TMP\_497 = 1 not(TMP\_497) = 0 TMP\_498 = 0 not(TMP\_498) = 1 TMP\_499 = 1 not(TMP\_499) = 0 TMP\_500 = 5 TMP\_501 = 0 not(TMP\_501) = 1 TMP\_502 = 0 not(TMP\_502) = 1 TMP\_503 = 0 TMP\_504 = 1 not(TMP\_504) = 0 TMP\_505 = 1 not(TMP\_505) = 0 TMP\_506 = 2 TMP\_507 = 0 not(TMP\_507) = 1 TMP\_508 = 0 not(TMP\_508) = 1 TMP\_509 = 1 not(TMP\_509) = 0 TMP\_510 = 1 not(TMP\_510) = 0 TMP\_511 = 1 not(TMP\_511) = 0 TMP\_512 = 2 TMP\_513 = 1 not(TMP\_513) = 0 TMP\_514 = 0 not(TMP\_514) = 1 TMP\_515 = 1 not(TMP\_515) = 0 TMP\_516 = 1 not(TMP\_516) = 0 TMP\_517 = 1 not(TMP\_517) = 0 TMP\_518 = 1 not(TMP\_518) = 0 TMP\_519 = 5 TMP\_520 = 0 not(TMP\_520) = 1 TMP\_521 = 0 not(TMP\_521) = 1 TMP\_522 = 0 TMP\_523 = 1 not(TMP\_523) = 0 TMP\_524 = 1 not(TMP\_524) = 0 TMP\_525 = 2 TMP\_526 = 0 not(TMP\_526) = 1 TMP\_527 = 0 not(TMP\_527) = 1 TMP\_528 = 1 not(TMP\_528) = 0 TMP\_529 = 1 not(TMP\_529) = 0 TMP\_530 = 1 not(TMP\_530) = 0 TMP\_531 = 2 Area\_0 = 60 Distance\_0\_Rule\_0 = 20 Distance\_1\_Rule\_0 = 3 Distance\_2\_Rule\_0 = 1 Area\_1 = 174 Distance\_0\_Rule\_1 = 58 Distance\_1\_Rule\_1 = 3 Distance\_2\_Rule\_1 = 1 Area\_2 = 116 Distance\_0\_Rule\_2 = 58 Distance\_1\_Rule\_2 = 2 Distance\_2\_Rule\_2 = 1 Area\_3 = 58 Distance\_0\_Rule\_3 = 58 Distance\_1\_Rule\_3 = 1 Distance\_2\_Rule\_3 = 1 Area\_4 = 123 -(Rule\_4\_LB) = -79 Distance\_0\_Rule\_4 = 41 -(Rule\_4\_LB) = 0 Distance\_1\_Rule\_4 = 3 -(Rule\_4\_LB) = 0 Distance\_2\_Rule\_4 = 1 Area\_5 = 63 -(Rule\_5\_LB) = 0 Distance\_0\_Rule\_5 = 21 -(Rule\_5\_LB) = 0 Distance\_1\_Rule\_5 = 3 -(Rule\_5\_LB) = 0 Distance\_2\_Rule\_5 = 1 Area\_6 = 123 -(Rule\_6\_LB) = -79 Distance\_0\_Rule\_6 = 41 -(Rule\_6\_LB) = 0 Distance\_1\_Rule\_6 = 3 -(Rule\_6\_LB) = -1 Distance\_2\_Rule\_6 = 1 Area\_7 = 3 -(Rule\_7\_LB) = -20 Distance\_0\_Rule\_7 = 1 -(Rule\_7\_LB) = 0 Distance\_1\_Rule\_7 = 3 -(Rule\_7\_LB) = -1 Distance\_2\_Rule\_7 = 1 TMP\_532 = 720 .

- Solution #8 found. 8 Solutions, Resolution 0.312s, 92 Nodes (294.6 n/s), 118 Backtracks, 58 Fails, 0 Restarts

Rule\_4\_LB = 79 Rule\_4\_UB = 120 Rule\_4\_LB = 0 Rule\_4\_UB = 3 Rule\_4\_LB = 0 Rule\_4\_UB = 1 Rule\_5\_LB = 0 Rule\_5\_UB = 21 Rule\_5\_LB = 0 Rule\_5\_UB = 3 Rule\_5\_LB = 0 Rule\_5\_UB = 1 Rule\_6\_LB = 79 Rule\_6\_UB = 120 Rule\_6\_LB = 0 Rule\_6\_UB = 3 Rule\_6\_LB = 1 Rule\_6\_UB = 2 Rule\_7\_LB = 20 Rule\_7\_UB = 21 Rule\_7\_LB = 0 Rule\_7\_UB = 3 Rule\_7\_LB = 1 Rule\_7\_UB = 2 Overlaps\_0\_0 = 0 Overlaps\_0\_1 = 0 Overlaps\_0\_2 = 0 Overlaps\_0\_3 = 1 Overlaps\_0\_4 = 0 Overlaps\_0\_5 = 0 Overlaps\_0\_6 = 0 Overlaps\_0\_7 = 0 Overlaps\_1\_0 = 0 Overlaps\_1\_1 = 0 Overlaps\_1\_2 = 0 Overlaps\_1\_3 = 0 Overlaps\_1\_4 = 0 Overlaps\_1\_5 = 0 Overlaps\_1\_6 = 0 Overlaps\_1\_7 = 0 Overlaps\_2\_0 = 0 Overlaps\_2\_1 = 1 Overlaps\_2\_2 = 0 Overlaps\_2\_3 = 0 Overlaps\_2\_4 = 0 Overlaps\_2\_5 = 0 Overlaps\_2\_6 = 0 Overlaps\_2\_7 = 0 Overlaps\_3\_0 = 1 Overlaps\_3\_1 = 0 Overlaps\_3\_2 = 0 Overlaps\_3\_3 = 0 Overlaps\_3\_4 = 0 Overlaps\_3\_5 = 0 Overlaps\_3\_6 = 0 Overlaps\_3\_7 = 0 Overlaps\_4\_0 = 0 Overlaps\_4\_1 = 0 Overlaps\_4\_2 = 0 Overlaps\_4\_3 = 0 Overlaps\_4\_4 = 0 Overlaps\_4\_5 = 0 Overlaps\_4\_6 = 0 Overlaps\_4\_7 = 0 Overlaps\_5\_0 = 0 Overlaps\_5\_1 = 0 Overlaps\_5\_2 = 0 Overlaps\_5\_3 = 0 Overlaps\_5\_4 = 0 Overlaps\_5\_5 = 0 Overlaps\_5\_6 = 0 Overlaps\_5\_7 = 0 Overlaps\_6\_0 = 0 Overlaps\_6\_1 = 0 Overlaps\_6\_2 = 0 Overlaps\_6\_3 = 0 Overlaps\_6\_4 = 0 Overlaps\_6\_5 = 0 Overlaps\_6\_6 = 0 Overlaps\_6\_7 = 0 Overlaps\_7\_0 = 0 Overlaps\_7\_1 = 0 Overlaps\_7\_2 = 0 Overlaps\_7\_3 = 0 Overlaps\_7\_4 = 0 Overlaps\_7\_5 = 0 Overlaps\_7\_6 = 0 Overlaps\_7\_7 = 0 TMP\_0 = 0 not(TMP\_0) = 1 TMP\_1 = 1 not(TMP\_1) = 0 TMP\_2 = 1 not(TMP\_2) = 0 TMP\_3 = 1 not(TMP\_3) = 0 TMP\_4 = 1 not(TMP\_4) = 0 TMP\_5 = 0 not(TMP\_5) = 1 TMP\_6 = 4 TMP\_7 = 0 not(TMP\_7) = 1 TMP\_8 = 0 not(TMP\_8) = 1 TMP\_9 = 0 TMP\_10 = 1 not(TMP\_10) = 0 TMP\_11 = 1 not(TMP\_11) = 0 TMP\_12 = 2 TMP\_13 = 0 not(TMP\_13) = 1 TMP\_14 = 0 not(TMP\_14) = 1 TMP\_15 = 1 not(TMP\_15) = 0 TMP\_16 = 1 not(TMP\_16) = 0 TMP\_17 = 1 not(TMP\_17) = 0 TMP\_18 = 2 TMP\_19 = 0 not(TMP\_19) = 1 TMP\_20 = 1 not(TMP\_20) = 0 TMP\_21 = 1 not(TMP\_21) = 0 TMP\_22 = 1 not(TMP\_22) = 0 TMP\_23 = 1 not(TMP\_23) = 0 TMP\_24 = 0 not(TMP\_24) = 1 TMP\_25 = 4 TMP\_26 = 0 not(TMP\_26) = 1 TMP\_27 = 0 not(TMP\_27) = 1 TMP\_28 = 0 TMP\_29 = 1 not(TMP\_29) = 0 TMP\_30 = 1 not(TMP\_30) = 0 TMP\_31 = 2 TMP\_32 = 0 not(TMP\_32) = 1 TMP\_33 = 0 not(TMP\_33) = 1 TMP\_34 = 1 not(TMP\_34) = 0 TMP\_35 = 1 not(TMP\_35) = 0 TMP\_36 = 1 not(TMP\_36) = 0 TMP\_37 = 2 TMP\_38 = 0 not(TMP\_38) = 1 TMP\_39 = 1 not(TMP\_39) = 0 TMP\_40 = 1 not(TMP\_40) = 0 TMP\_41 = 1 not(TMP\_41) = 0 TMP\_42 = 1 not(TMP\_42) = 0 TMP\_43 = 1 not(TMP\_43) = 0 TMP\_44 = 5 TMP\_45 = 0 not(TMP\_45) = 1 TMP\_46 = 0 not(TMP\_46) = 1 TMP\_47 = 0 TMP\_48 = 1 not(TMP\_48) = 0 TMP\_49 = 1 not(TMP\_49) = 0 TMP\_50 = 2 TMP\_51 = 0 not(TMP\_51) = 1 TMP\_52 = 0 not(TMP\_52) = 1 TMP\_53 = 1 not(TMP\_53) = 0 TMP\_54 = 1 not(TMP\_54) = 0 TMP\_55 = 1 not(TMP\_55) = 0 TMP\_56 = 2 TMP\_57 = 0 not(TMP\_57) = 1 TMP\_58 = 1 not(TMP\_58) = 0 TMP\_59 = 1 not(TMP\_59) = 0 TMP\_60 = 1 not(TMP\_60) = 0 TMP\_61 = 1 not(TMP\_61) = 0 TMP\_62 = 1 not(TMP\_62) = 0 TMP\_63 = 5 TMP\_64 = 0 not(TMP\_64) = 1 TMP\_65 = 0 not(TMP\_65) = 1 TMP\_66 = 0 TMP\_67 = 1 not(TMP\_67) = 0 TMP\_68 = 1 not(TMP\_68) = 0 TMP\_69 = 2 TMP\_70 = 0 not(TMP\_70) = 1 TMP\_71 = 0 not(TMP\_71) = 1 TMP\_72 = 1 not(TMP\_72) = 0 TMP\_73 = 1 not(TMP\_73) = 0 TMP\_74 = 1 not(TMP\_74) = 0 TMP\_75 = 2 TMP\_76 = 0 not(TMP\_76) = 1 TMP\_77 = 1 not(TMP\_77) = 0 TMP\_78 = 1 not(TMP\_78) = 0 TMP\_79 = 1 not(TMP\_79) = 0 TMP\_80 = 1 not(TMP\_80) = 0 TMP\_81 = 1 not(TMP\_81) = 0 TMP\_82 = 5 TMP\_83 = 0 not(TMP\_83) = 1 TMP\_84 = 0 not(TMP\_84) = 1 TMP\_85 = 0 TMP\_86 = 1 not(TMP\_86) = 0 TMP\_87 = 1 not(TMP\_87) = 0 TMP\_88 = 2 TMP\_89 = 0 not(TMP\_89) = 1 TMP\_90 = 0 not(TMP\_90) = 1 TMP\_91 = 1 not(TMP\_91) = 0 TMP\_92 = 1 not(TMP\_92) = 0 TMP\_93 = 1 not(TMP\_93) = 0 TMP\_94 = 2 TMP\_95 = 1 not(TMP\_95) = 0 TMP\_96 = 1 not(TMP\_96) = 0 TMP\_97 = 1 not(TMP\_97) = 0 TMP\_98 = 1 not(TMP\_98) = 0 TMP\_99 = 1 not(TMP\_99) = 0 TMP\_100 = 0 not(TMP\_100) = 1 TMP\_101 = 5 TMP\_102 = 0 not(TMP\_102) = 1 TMP\_103 = 0 not(TMP\_103) = 1 TMP\_104 = 0 TMP\_105 = 1 not(TMP\_105) = 0 TMP\_106 = 1 not(TMP\_106) = 0 TMP\_107 = 2 TMP\_108 = 0 not(TMP\_108) = 1 TMP\_109 = 0 not(TMP\_109) = 1 TMP\_110 = 1 not(TMP\_110) = 0 TMP\_111 = 1 not(TMP\_111) = 0 TMP\_112 = 1 not(TMP\_112) = 0 TMP\_113 = 2 TMP\_114 = 0 not(TMP\_114) = 1 TMP\_115 = 1 not(TMP\_115) = 0 TMP\_116 = 1 not(TMP\_116) = 0 TMP\_117 = 1 not(TMP\_117) = 0 TMP\_118 = 1 not(TMP\_118) = 0 TMP\_119 = 0 not(TMP\_119) = 1 TMP\_120 = 4 TMP\_121 = 0 not(TMP\_121) = 1 TMP\_122 = 0 not(TMP\_122) = 1 TMP\_123 = 0 TMP\_124 = 1 not(TMP\_124) = 0 TMP\_125 = 1 not(TMP\_125) = 0 TMP\_126 = 2 TMP\_127 = 0 not(TMP\_127) = 1 TMP\_128 = 0 not(TMP\_128) = 1 TMP\_129 = 1 not(TMP\_129) = 0 TMP\_130 = 1 not(TMP\_130) = 0 TMP\_131 = 1 not(TMP\_131) = 0 TMP\_132 = 2 TMP\_133 = 1 not(TMP\_133) = 0 TMP\_134 = 1 not(TMP\_134) = 0 TMP\_135 = 1 not(TMP\_135) = 0 TMP\_136 = 1 not(TMP\_136) = 0 TMP\_137 = 1 not(TMP\_137) = 0 TMP\_138 = 0 not(TMP\_138) = 1 TMP\_139 = 5 TMP\_140 = 0 not(TMP\_140) = 1 TMP\_141 = 0 not(TMP\_141) = 1 TMP\_142 = 0 TMP\_143 = 1 not(TMP\_143) = 0 TMP\_144 = 1 not(TMP\_144) = 0 TMP\_145 = 2 TMP\_146 = 0 not(TMP\_146) = 1 TMP\_147 = 0 not(TMP\_147) = 1 TMP\_148 = 1 not(TMP\_148) = 0 TMP\_149 = 1 not(TMP\_149) = 0 TMP\_150 = 1 not(TMP\_150) = 0 TMP\_151 = 2 TMP\_152 = 1 not(TMP\_152) = 0 TMP\_153 = 0 not(TMP\_153) = 1 TMP\_154 = 1 not(TMP\_154) = 0 TMP\_155 = 1 not(TMP\_155) = 0 TMP\_156 = 1 not(TMP\_156) = 0 TMP\_157 = 0 not(TMP\_157) = 1 TMP\_158 = 4 TMP\_159 = 0 not(TMP\_159) = 1 TMP\_160 = 0 not(TMP\_160) = 1 TMP\_161 = 0 TMP\_162 = 1 not(TMP\_162) = 0 TMP\_163 = 1 not(TMP\_163) = 0 TMP\_164 = 2 TMP\_165 = 0 not(TMP\_165) = 1 TMP\_166 = 0 not(TMP\_166) = 1 TMP\_167 = 1 not(TMP\_167) = 0 TMP\_168 = 1 not(TMP\_168) = 0 TMP\_169 = 1 not(TMP\_169) = 0 TMP\_170 = 2 TMP\_171 = 1 not(TMP\_171) = 0 TMP\_172 = 0 not(TMP\_172) = 1 TMP\_173 = 1 not(TMP\_173) = 0 TMP\_174 = 1 not(TMP\_174) = 0 TMP\_175 = 1 not(TMP\_175) = 0 TMP\_176 = 1 not(TMP\_176) = 0 TMP\_177 = 5 TMP\_178 = 0 not(TMP\_178) = 1 TMP\_179 = 0 not(TMP\_179) = 1 TMP\_180 = 0 TMP\_181 = 1 not(TMP\_181) = 0 TMP\_182 = 1 not(TMP\_182) = 0 TMP\_183 = 2 TMP\_184 = 0 not(TMP\_184) = 1 TMP\_185 = 0 not(TMP\_185) = 1 TMP\_186 = 1 not(TMP\_186) = 0 TMP\_187 = 1 not(TMP\_187) = 0 TMP\_188 = 1 not(TMP\_188) = 0 TMP\_189 = 2 TMP\_190 = 1 not(TMP\_190) = 0 TMP\_191 = 0 not(TMP\_191) = 1 TMP\_192 = 1 not(TMP\_192) = 0 TMP\_193 = 1 not(TMP\_193) = 0 TMP\_194 = 1 not(TMP\_194) = 0 TMP\_195 = 1 not(TMP\_195) = 0 TMP\_196 = 5 TMP\_197 = 0 not(TMP\_197) = 1 TMP\_198 = 0 not(TMP\_198) = 1 TMP\_199 = 0 TMP\_200 = 1 not(TMP\_200) = 0 TMP\_201 = 1 not(TMP\_201) = 0 TMP\_202 = 2 TMP\_203 = 0 not(TMP\_203) = 1 TMP\_204 = 0 not(TMP\_204) = 1 TMP\_205 = 1 not(TMP\_205) = 0 TMP\_206 = 1 not(TMP\_206) = 0 TMP\_207 = 1 not(TMP\_207) = 0 TMP\_208 = 2 TMP\_209 = 1 not(TMP\_209) = 0 TMP\_210 = 0 not(TMP\_210) = 1 TMP\_211 = 1 not(TMP\_211) = 0 TMP\_212 = 1 not(TMP\_212) = 0 TMP\_213 = 1 not(TMP\_213) = 0 TMP\_214 = 1 not(TMP\_214) = 0 TMP\_215 = 5 TMP\_216 = 0 not(TMP\_216) = 1 TMP\_217 = 0 not(TMP\_217) = 1 TMP\_218 = 0 TMP\_219 = 1 not(TMP\_219) = 0 TMP\_220 = 1 not(TMP\_220) = 0 TMP\_221 = 2 TMP\_222 = 0 not(TMP\_222) = 1 TMP\_223 = 0 not(TMP\_223) = 1 TMP\_224 = 1 not(TMP\_224) = 0 TMP\_225 = 1 not(TMP\_225) = 0 TMP\_226 = 1 not(TMP\_226) = 0 TMP\_227 = 2 TMP\_228 = 1 not(TMP\_228) = 0 TMP\_229 = 0 not(TMP\_229) = 1 TMP\_230 = 1 not(TMP\_230) = 0 TMP\_231 = 1 not(TMP\_231) = 0 TMP\_232 = 1 not(TMP\_232) = 0 TMP\_233 = 0 not(TMP\_233) = 1 TMP\_234 = 4 TMP\_235 = 0 not(TMP\_235) = 1 TMP\_236 = 0 not(TMP\_236) = 1 TMP\_237 = 0 TMP\_238 = 1 not(TMP\_238) = 0 TMP\_239 = 1 not(TMP\_239) = 0 TMP\_240 = 2 TMP\_241 = 0 not(TMP\_241) = 1 TMP\_242 = 0 not(TMP\_242) = 1 TMP\_243 = 1 not(TMP\_243) = 0 TMP\_244 = 1 not(TMP\_244) = 0 TMP\_245 = 1 not(TMP\_245) = 0 TMP\_246 = 2 TMP\_247 = 1 not(TMP\_247) = 0 TMP\_248 = 1 not(TMP\_248) = 0 TMP\_249 = 1 not(TMP\_249) = 0 TMP\_250 = 1 not(TMP\_250) = 0 TMP\_251 = 1 not(TMP\_251) = 0 TMP\_252 = 0 not(TMP\_252) = 1 TMP\_253 = 5 TMP\_254 = 0 not(TMP\_254) = 1 TMP\_255 = 0 not(TMP\_255) = 1 TMP\_256 = 0 TMP\_257 = 1 not(TMP\_257) = 0 TMP\_258 = 1 not(TMP\_258) = 0 TMP\_259 = 2 TMP\_260 = 0 not(TMP\_260) = 1 TMP\_261 = 0 not(TMP\_261) = 1 TMP\_262 = 1 not(TMP\_262) = 0 TMP\_263 = 1 not(TMP\_263) = 0 TMP\_264 = 1 not(TMP\_264) = 0 TMP\_265 = 2 TMP\_266 = 0 not(TMP\_266) = 1 TMP\_267 = 1 not(TMP\_267) = 0 TMP\_268 = 1 not(TMP\_268) = 0 TMP\_269 = 1 not(TMP\_269) = 0 TMP\_270 = 1 not(TMP\_270) = 0 TMP\_271 = 1 not(TMP\_271) = 0 TMP\_272 = 5 TMP\_273 = 0 not(TMP\_273) = 1 TMP\_274 = 0 not(TMP\_274) = 1 TMP\_275 = 0 TMP\_276 = 1 not(TMP\_276) = 0 TMP\_277 = 1 not(TMP\_277) = 0 TMP\_278 = 2 TMP\_279 = 0 not(TMP\_279) = 1 TMP\_280 = 0 not(TMP\_280) = 1 TMP\_281 = 1 not(TMP\_281) = 0 TMP\_282 = 1 not(TMP\_282) = 0 TMP\_283 = 1 not(TMP\_283) = 0 TMP\_284 = 2 TMP\_285 = 0 not(TMP\_285) = 1 TMP\_286 = 1 not(TMP\_286) = 0 TMP\_287 = 1 not(TMP\_287) = 0 TMP\_288 = 1 not(TMP\_288) = 0 TMP\_289 = 1 not(TMP\_289) = 0 TMP\_290 = 1 not(TMP\_290) = 0 TMP\_291 = 5 TMP\_292 = 0 not(TMP\_292) = 1 TMP\_293 = 0 not(TMP\_293) = 1 TMP\_294 = 0 TMP\_295 = 1 not(TMP\_295) = 0 TMP\_296 = 1 not(TMP\_296) = 0 TMP\_297 = 2 TMP\_298 = 0 not(TMP\_298) = 1 TMP\_299 = 0 not(TMP\_299) = 1 TMP\_300 = 1 not(TMP\_300) = 0 TMP\_301 = 1 not(TMP\_301) = 0 TMP\_302 = 1 not(TMP\_302) = 0 TMP\_303 = 2 TMP\_304 = 0 not(TMP\_304) = 1 TMP\_305 = 1 not(TMP\_305) = 0 TMP\_306 = 1 not(TMP\_306) = 0 TMP\_307 = 1 not(TMP\_307) = 0 TMP\_308 = 0 not(TMP\_308) = 1 TMP\_309 = 1 not(TMP\_309) = 0 TMP\_310 = 4 TMP\_311 = 0 not(TMP\_311) = 1 TMP\_312 = 0 not(TMP\_312) = 1 TMP\_313 = 0 TMP\_314 = 1 not(TMP\_314) = 0 TMP\_315 = 1 not(TMP\_315) = 0 TMP\_316 = 2 TMP\_317 = 0 not(TMP\_317) = 1 TMP\_318 = 0 not(TMP\_318) = 1 TMP\_319 = 1 not(TMP\_319) = 0 TMP\_320 = 1 not(TMP\_320) = 0 TMP\_321 = 1 not(TMP\_321) = 0 TMP\_322 = 2 TMP\_323 = 0 not(TMP\_323) = 1 TMP\_324 = 1 not(TMP\_324) = 0 TMP\_325 = 1 not(TMP\_325) = 0 TMP\_326 = 1 not(TMP\_326) = 0 TMP\_327 = 0 not(TMP\_327) = 1 TMP\_328 = 1 not(TMP\_328) = 0 TMP\_329 = 4 TMP\_330 = 0 not(TMP\_330) = 1 TMP\_331 = 0 not(TMP\_331) = 1 TMP\_332 = 0 TMP\_333 = 1 not(TMP\_333) = 0 TMP\_334 = 1 not(TMP\_334) = 0 TMP\_335 = 2 TMP\_336 = 0 not(TMP\_336) = 1 TMP\_337 = 0 not(TMP\_337) = 1 TMP\_338 = 1 not(TMP\_338) = 0 TMP\_339 = 1 not(TMP\_339) = 0 TMP\_340 = 1 not(TMP\_340) = 0 TMP\_341 = 2 TMP\_342 = 1 not(TMP\_342) = 0 TMP\_343 = 1 not(TMP\_343) = 0 TMP\_344 = 1 not(TMP\_344) = 0 TMP\_345 = 1 not(TMP\_345) = 0 TMP\_346 = 0 not(TMP\_346) = 1 TMP\_347 = 1 not(TMP\_347) = 0 TMP\_348 = 5 TMP\_349 = 0 not(TMP\_349) = 1 TMP\_350 = 0 not(TMP\_350) = 1 TMP\_351 = 0 TMP\_352 = 1 not(TMP\_352) = 0 TMP\_353 = 1 not(TMP\_353) = 0 TMP\_354 = 2 TMP\_355 = 0 not(TMP\_355) = 1 TMP\_356 = 0 not(TMP\_356) = 1 TMP\_357 = 1 not(TMP\_357) = 0 TMP\_358 = 1 not(TMP\_358) = 0 TMP\_359 = 1 not(TMP\_359) = 0 TMP\_360 = 2 TMP\_361 = 0 not(TMP\_361) = 1 TMP\_362 = 1 not(TMP\_362) = 0 TMP\_363 = 1 not(TMP\_363) = 0 TMP\_364 = 1 not(TMP\_364) = 0 TMP\_365 = 0 not(TMP\_365) = 1 TMP\_366 = 1 not(TMP\_366) = 0 TMP\_367 = 4 TMP\_368 = 0 not(TMP\_368) = 1 TMP\_369 = 0 not(TMP\_369) = 1 TMP\_370 = 0 TMP\_371 = 1 not(TMP\_371) = 0 TMP\_372 = 1 not(TMP\_372) = 0 TMP\_373 = 2 TMP\_374 = 0 not(TMP\_374) = 1 TMP\_375 = 0 not(TMP\_375) = 1 TMP\_376 = 1 not(TMP\_376) = 0 TMP\_377 = 1 not(TMP\_377) = 0 TMP\_378 = 1 not(TMP\_378) = 0 TMP\_379 = 2 TMP\_380 = 0 not(TMP\_380) = 1 TMP\_381 = 1 not(TMP\_381) = 0 TMP\_382 = 1 not(TMP\_382) = 0 TMP\_383 = 1 not(TMP\_383) = 0 TMP\_384 = 1 not(TMP\_384) = 0 TMP\_385 = 1 not(TMP\_385) = 0 TMP\_386 = 5 TMP\_387 = 0 not(TMP\_387) = 1 TMP\_388 = 0 not(TMP\_388) = 1 TMP\_389 = 0 TMP\_390 = 1 not(TMP\_390) = 0 TMP\_391 = 1 not(TMP\_391) = 0 TMP\_392 = 2 TMP\_393 = 0 not(TMP\_393) = 1 TMP\_394 = 0 not(TMP\_394) = 1 TMP\_395 = 1 not(TMP\_395) = 0 TMP\_396 = 1 not(TMP\_396) = 0 TMP\_397 = 1 not(TMP\_397) = 0 TMP\_398 = 2 TMP\_399 = 0 not(TMP\_399) = 1 TMP\_400 = 1 not(TMP\_400) = 0 TMP\_401 = 1 not(TMP\_401) = 0 TMP\_402 = 1 not(TMP\_402) = 0 TMP\_403 = 1 not(TMP\_403) = 0 TMP\_404 = 1 not(TMP\_404) = 0 TMP\_405 = 5 TMP\_406 = 0 not(TMP\_406) = 1 TMP\_407 = 0 not(TMP\_407) = 1 TMP\_408 = 0 TMP\_409 = 1 not(TMP\_409) = 0 TMP\_410 = 1 not(TMP\_410) = 0 TMP\_411 = 2 TMP\_412 = 0 not(TMP\_412) = 1 TMP\_413 = 0 not(TMP\_413) = 1 TMP\_414 = 1 not(TMP\_414) = 0 TMP\_415 = 1 not(TMP\_415) = 0 TMP\_416 = 1 not(TMP\_416) = 0 TMP\_417 = 2 TMP\_418 = 1 not(TMP\_418) = 0 TMP\_419 = 0 not(TMP\_419) = 1 TMP\_420 = 1 not(TMP\_420) = 0 TMP\_421 = 1 not(TMP\_421) = 0 TMP\_422 = 1 not(TMP\_422) = 0 TMP\_423 = 1 not(TMP\_423) = 0 TMP\_424 = 5 TMP\_425 = 0 not(TMP\_425) = 1 TMP\_426 = 0 not(TMP\_426) = 1 TMP\_427 = 0 TMP\_428 = 1 not(TMP\_428) = 0 TMP\_429 = 1 not(TMP\_429) = 0 TMP\_430 = 2 TMP\_431 = 0 not(TMP\_431) = 1 TMP\_432 = 0 not(TMP\_432) = 1 TMP\_433 = 1 not(TMP\_433) = 0 TMP\_434 = 1 not(TMP\_434) = 0 TMP\_435 = 1 not(TMP\_435) = 0 TMP\_436 = 2 TMP\_437 = 1 not(TMP\_437) = 0 TMP\_438 = 0 not(TMP\_438) = 1 TMP\_439 = 1 not(TMP\_439) = 0 TMP\_440 = 1 not(TMP\_440) = 0 TMP\_441 = 0 not(TMP\_441) = 1 TMP\_442 = 1 not(TMP\_442) = 0 TMP\_443 = 4 TMP\_444 = 0 not(TMP\_444) = 1 TMP\_445 = 0 not(TMP\_445) = 1 TMP\_446 = 0 TMP\_447 = 1 not(TMP\_447) = 0 TMP\_448 = 1 not(TMP\_448) = 0 TMP\_449 = 2 TMP\_450 = 0 not(TMP\_450) = 1 TMP\_451 = 0 not(TMP\_451) = 1 TMP\_452 = 1 not(TMP\_452) = 0 TMP\_453 = 1 not(TMP\_453) = 0 TMP\_454 = 1 not(TMP\_454) = 0 TMP\_455 = 2 TMP\_456 = 1 not(TMP\_456) = 0 TMP\_457 = 0 not(TMP\_457) = 1 TMP\_458 = 1 not(TMP\_458) = 0 TMP\_459 = 1 not(TMP\_459) = 0 TMP\_460 = 0 not(TMP\_460) = 1 TMP\_461 = 1 not(TMP\_461) = 0 TMP\_462 = 4 TMP\_463 = 0 not(TMP\_463) = 1 TMP\_464 = 0 not(TMP\_464) = 1 TMP\_465 = 0 TMP\_466 = 1 not(TMP\_466) = 0 TMP\_467 = 1 not(TMP\_467) = 0 TMP\_468 = 2 TMP\_469 = 0 not(TMP\_469) = 1 TMP\_470 = 0 not(TMP\_470) = 1 TMP\_471 = 1 not(TMP\_471) = 0 TMP\_472 = 1 not(TMP\_472) = 0 TMP\_473 = 1 not(TMP\_473) = 0 TMP\_474 = 2 TMP\_475 = 1 not(TMP\_475) = 0 TMP\_476 = 0 not(TMP\_476) = 1 TMP\_477 = 1 not(TMP\_477) = 0 TMP\_478 = 1 not(TMP\_478) = 0 TMP\_479 = 0 not(TMP\_479) = 1 TMP\_480 = 1 not(TMP\_480) = 0 TMP\_481 = 4 TMP\_482 = 0 not(TMP\_482) = 1 TMP\_483 = 0 not(TMP\_483) = 1 TMP\_484 = 0 TMP\_485 = 1 not(TMP\_485) = 0 TMP\_486 = 1 not(TMP\_486) = 0 TMP\_487 = 2 TMP\_488 = 0 not(TMP\_488) = 1 TMP\_489 = 0 not(TMP\_489) = 1 TMP\_490 = 1 not(TMP\_490) = 0 TMP\_491 = 1 not(TMP\_491) = 0 TMP\_492 = 1 not(TMP\_492) = 0 TMP\_493 = 2 TMP\_494 = 1 not(TMP\_494) = 0 TMP\_495 = 1 not(TMP\_495) = 0 TMP\_496 = 1 not(TMP\_496) = 0 TMP\_497 = 1 not(TMP\_497) = 0 TMP\_498 = 0 not(TMP\_498) = 1 TMP\_499 = 1 not(TMP\_499) = 0 TMP\_500 = 5 TMP\_501 = 0 not(TMP\_501) = 1 TMP\_502 = 0 not(TMP\_502) = 1 TMP\_503 = 0 TMP\_504 = 1 not(TMP\_504) = 0 TMP\_505 = 1 not(TMP\_505) = 0 TMP\_506 = 2 TMP\_507 = 0 not(TMP\_507) = 1 TMP\_508 = 0 not(TMP\_508) = 1 TMP\_509 = 1 not(TMP\_509) = 0 TMP\_510 = 1 not(TMP\_510) = 0 TMP\_511 = 1 not(TMP\_511) = 0 TMP\_512 = 2 TMP\_513 = 1 not(TMP\_513) = 0 TMP\_514 = 0 not(TMP\_514) = 1 TMP\_515 = 1 not(TMP\_515) = 0 TMP\_516 = 1 not(TMP\_516) = 0 TMP\_517 = 1 not(TMP\_517) = 0 TMP\_518 = 1 not(TMP\_518) = 0 TMP\_519 = 5 TMP\_520 = 0 not(TMP\_520) = 1 TMP\_521 = 0 not(TMP\_521) = 1 TMP\_522 = 0 TMP\_523 = 1 not(TMP\_523) = 0 TMP\_524 = 1 not(TMP\_524) = 0 TMP\_525 = 2 TMP\_526 = 0 not(TMP\_526) = 1 TMP\_527 = 0 not(TMP\_527) = 1 TMP\_528 = 1 not(TMP\_528) = 0 TMP\_529 = 1 not(TMP\_529) = 0 TMP\_530 = 1 not(TMP\_530) = 0 TMP\_531 = 2 Area\_0 = 60 Distance\_0\_Rule\_0 = 20 Distance\_1\_Rule\_0 = 3 Distance\_2\_Rule\_0 = 1 Area\_1 = 174 Distance\_0\_Rule\_1 = 58 Distance\_1\_Rule\_1 = 3 Distance\_2\_Rule\_1 = 1 Area\_2 = 116 Distance\_0\_Rule\_2 = 58 Distance\_1\_Rule\_2 = 2 Distance\_2\_Rule\_2 = 1 Area\_3 = 58 Distance\_0\_Rule\_3 = 58 Distance\_1\_Rule\_3 = 1 Distance\_2\_Rule\_3 = 1 Area\_4 = 123 -(Rule\_4\_LB) = -79 Distance\_0\_Rule\_4 = 41 -(Rule\_4\_LB) = 0 Distance\_1\_Rule\_4 = 3 -(Rule\_4\_LB) = 0 Distance\_2\_Rule\_4 = 1 Area\_5 = 63 -(Rule\_5\_LB) = 0 Distance\_0\_Rule\_5 = 21 -(Rule\_5\_LB) = 0 Distance\_1\_Rule\_5 = 3 -(Rule\_5\_LB) = 0 Distance\_2\_Rule\_5 = 1 Area\_6 = 123 -(Rule\_6\_LB) = -79 Distance\_0\_Rule\_6 = 41 -(Rule\_6\_LB) = 0 Distance\_1\_Rule\_6 = 3 -(Rule\_6\_LB) = -1 Distance\_2\_Rule\_6 = 1 Area\_7 = 3 -(Rule\_7\_LB) = -20 Distance\_0\_Rule\_7 = 1 -(Rule\_7\_LB) = 0 Distance\_1\_Rule\_7 = 3 -(Rule\_7\_LB) = -1 Distance\_2\_Rule\_7 = 1 TMP\_532 = 720 .

- Solution #9 found. 9 Solutions, Resolution 0.324s, 96 Nodes (296.6 n/s), 122 Backtracks, 58 Fails, 0 Restarts

Rule\_4\_LB = 79 Rule\_4\_UB = 120 Rule\_4\_LB = 0 Rule\_4\_UB = 3 Rule\_4\_LB = 0 Rule\_4\_UB = 1 Rule\_5\_LB = 0 Rule\_5\_UB = 21 Rule\_5\_LB = 0 Rule\_5\_UB = 3 Rule\_5\_LB = 0 Rule\_5\_UB = 1 Rule\_6\_LB = 79 Rule\_6\_UB = 120 Rule\_6\_LB = 0 Rule\_6\_UB = 3 Rule\_6\_LB = 1 Rule\_6\_UB = 2 Rule\_7\_LB = 20 Rule\_7\_UB = 21 Rule\_7\_LB = 0 Rule\_7\_UB = 3 Rule\_7\_LB = 1 Rule\_7\_UB = 2 Overlaps\_0\_0 = 0 Overlaps\_0\_1 = 1 Overlaps\_0\_2 = 0 Overlaps\_0\_3 = 0 Overlaps\_0\_4 = 0 Overlaps\_0\_5 = 0 Overlaps\_0\_6 = 0 Overlaps\_0\_7 = 0 Overlaps\_1\_0 = 0 Overlaps\_1\_1 = 0 Overlaps\_1\_2 = 0 Overlaps\_1\_3 = 0 Overlaps\_1\_4 = 0 Overlaps\_1\_5 = 0 Overlaps\_1\_6 = 0 Overlaps\_1\_7 = 0 Overlaps\_2\_0 = 0 Overlaps\_2\_1 = 0 Overlaps\_2\_2 = 0 Overlaps\_2\_3 = 0 Overlaps\_2\_4 = 0 Overlaps\_2\_5 = 0 Overlaps\_2\_6 = 0 Overlaps\_2\_7 = 0 Overlaps\_3\_0 = 0 Overlaps\_3\_1 = 0 Overlaps\_3\_2 = 0 Overlaps\_3\_3 = 0 Overlaps\_3\_4 = 0 Overlaps\_3\_5 = 0 Overlaps\_3\_6 = 0 Overlaps\_3\_7 = 0 Overlaps\_4\_0 = 0 Overlaps\_4\_1 = 0 Overlaps\_4\_2 = 0 Overlaps\_4\_3 = 0 Overlaps\_4\_4 = 0 Overlaps\_4\_5 = 0 Overlaps\_4\_6 = 0 Overlaps\_4\_7 = 0 Overlaps\_5\_0 = 0 Overlaps\_5\_1 = 0 Overlaps\_5\_2 = 0 Overlaps\_5\_3 = 0 Overlaps\_5\_4 = 0 Overlaps\_5\_5 = 0 Overlaps\_5\_6 = 0 Overlaps\_5\_7 = 0 Overlaps\_6\_0 = 0 Overlaps\_6\_1 = 0 Overlaps\_6\_2 = 0 Overlaps\_6\_3 = 0 Overlaps\_6\_4 = 0 Overlaps\_6\_5 = 0 Overlaps\_6\_6 = 0 Overlaps\_6\_7 = 0 Overlaps\_7\_0 = 0 Overlaps\_7\_1 = 0 Overlaps\_7\_2 = 0 Overlaps\_7\_3 = 0 Overlaps\_7\_4 = 0 Overlaps\_7\_5 = 0 Overlaps\_7\_6 = 0 Overlaps\_7\_7 = 0 TMP\_0 = 0 not(TMP\_0) = 1 TMP\_1 = 1 not(TMP\_1) = 0 TMP\_2 = 1 not(TMP\_2) = 0 TMP\_3 = 1 not(TMP\_3) = 0 TMP\_4 = 1 not(TMP\_4) = 0 TMP\_5 = 0 not(TMP\_5) = 1 TMP\_6 = 4 TMP\_7 = 0 not(TMP\_7) = 1 TMP\_8 = 0 not(TMP\_8) = 1 TMP\_9 = 0 TMP\_10 = 1 not(TMP\_10) = 0 TMP\_11 = 1 not(TMP\_11) = 0 TMP\_12 = 2 TMP\_13 = 0 not(TMP\_13) = 1 TMP\_14 = 0 not(TMP\_14) = 1 TMP\_15 = 1 not(TMP\_15) = 0 TMP\_16 = 1 not(TMP\_16) = 0 TMP\_17 = 1 not(TMP\_17) = 0 TMP\_18 = 2 TMP\_19 = 0 not(TMP\_19) = 1 TMP\_20 = 1 not(TMP\_20) = 0 TMP\_21 = 1 not(TMP\_21) = 0 TMP\_22 = 1 not(TMP\_22) = 0 TMP\_23 = 1 not(TMP\_23) = 0 TMP\_24 = 0 not(TMP\_24) = 1 TMP\_25 = 4 TMP\_26 = 0 not(TMP\_26) = 1 TMP\_27 = 0 not(TMP\_27) = 1 TMP\_28 = 0 TMP\_29 = 1 not(TMP\_29) = 0 TMP\_30 = 1 not(TMP\_30) = 0 TMP\_31 = 2 TMP\_32 = 0 not(TMP\_32) = 1 TMP\_33 = 0 not(TMP\_33) = 1 TMP\_34 = 1 not(TMP\_34) = 0 TMP\_35 = 1 not(TMP\_35) = 0 TMP\_36 = 1 not(TMP\_36) = 0 TMP\_37 = 2 TMP\_38 = 0 not(TMP\_38) = 1 TMP\_39 = 1 not(TMP\_39) = 0 TMP\_40 = 1 not(TMP\_40) = 0 TMP\_41 = 1 not(TMP\_41) = 0 TMP\_42 = 1 not(TMP\_42) = 0 TMP\_43 = 1 not(TMP\_43) = 0 TMP\_44 = 5 TMP\_45 = 0 not(TMP\_45) = 1 TMP\_46 = 0 not(TMP\_46) = 1 TMP\_47 = 0 TMP\_48 = 1 not(TMP\_48) = 0 TMP\_49 = 1 not(TMP\_49) = 0 TMP\_50 = 2 TMP\_51 = 0 not(TMP\_51) = 1 TMP\_52 = 0 not(TMP\_52) = 1 TMP\_53 = 1 not(TMP\_53) = 0 TMP\_54 = 1 not(TMP\_54) = 0 TMP\_55 = 1 not(TMP\_55) = 0 TMP\_56 = 2 TMP\_57 = 0 not(TMP\_57) = 1 TMP\_58 = 1 not(TMP\_58) = 0 TMP\_59 = 1 not(TMP\_59) = 0 TMP\_60 = 1 not(TMP\_60) = 0 TMP\_61 = 1 not(TMP\_61) = 0 TMP\_62 = 1 not(TMP\_62) = 0 TMP\_63 = 5 TMP\_64 = 0 not(TMP\_64) = 1 TMP\_65 = 0 not(TMP\_65) = 1 TMP\_66 = 0 TMP\_67 = 1 not(TMP\_67) = 0 TMP\_68 = 1 not(TMP\_68) = 0 TMP\_69 = 2 TMP\_70 = 0 not(TMP\_70) = 1 TMP\_71 = 0 not(TMP\_71) = 1 TMP\_72 = 1 not(TMP\_72) = 0 TMP\_73 = 1 not(TMP\_73) = 0 TMP\_74 = 1 not(TMP\_74) = 0 TMP\_75 = 2 TMP\_76 = 0 not(TMP\_76) = 1 TMP\_77 = 1 not(TMP\_77) = 0 TMP\_78 = 1 not(TMP\_78) = 0 TMP\_79 = 1 not(TMP\_79) = 0 TMP\_80 = 1 not(TMP\_80) = 0 TMP\_81 = 1 not(TMP\_81) = 0 TMP\_82 = 5 TMP\_83 = 0 not(TMP\_83) = 1 TMP\_84 = 0 not(TMP\_84) = 1 TMP\_85 = 0 TMP\_86 = 1 not(TMP\_86) = 0 TMP\_87 = 1 not(TMP\_87) = 0 TMP\_88 = 2 TMP\_89 = 0 not(TMP\_89) = 1 TMP\_90 = 0 not(TMP\_90) = 1 TMP\_91 = 1 not(TMP\_91) = 0 TMP\_92 = 1 not(TMP\_92) = 0 TMP\_93 = 1 not(TMP\_93) = 0 TMP\_94 = 2 TMP\_95 = 1 not(TMP\_95) = 0 TMP\_96 = 1 not(TMP\_96) = 0 TMP\_97 = 1 not(TMP\_97) = 0 TMP\_98 = 1 not(TMP\_98) = 0 TMP\_99 = 1 not(TMP\_99) = 0 TMP\_100 = 0 not(TMP\_100) = 1 TMP\_101 = 5 TMP\_102 = 0 not(TMP\_102) = 1 TMP\_103 = 0 not(TMP\_103) = 1 TMP\_104 = 0 TMP\_105 = 1 not(TMP\_105) = 0 TMP\_106 = 1 not(TMP\_106) = 0 TMP\_107 = 2 TMP\_108 = 0 not(TMP\_108) = 1 TMP\_109 = 0 not(TMP\_109) = 1 TMP\_110 = 1 not(TMP\_110) = 0 TMP\_111 = 1 not(TMP\_111) = 0 TMP\_112 = 1 not(TMP\_112) = 0 TMP\_113 = 2 TMP\_114 = 0 not(TMP\_114) = 1 TMP\_115 = 1 not(TMP\_115) = 0 TMP\_116 = 1 not(TMP\_116) = 0 TMP\_117 = 1 not(TMP\_117) = 0 TMP\_118 = 1 not(TMP\_118) = 0 TMP\_119 = 0 not(TMP\_119) = 1 TMP\_120 = 4 TMP\_121 = 0 not(TMP\_121) = 1 TMP\_122 = 0 not(TMP\_122) = 1 TMP\_123 = 0 TMP\_124 = 1 not(TMP\_124) = 0 TMP\_125 = 1 not(TMP\_125) = 0 TMP\_126 = 2 TMP\_127 = 0 not(TMP\_127) = 1 TMP\_128 = 0 not(TMP\_128) = 1 TMP\_129 = 1 not(TMP\_129) = 0 TMP\_130 = 1 not(TMP\_130) = 0 TMP\_131 = 1 not(TMP\_131) = 0 TMP\_132 = 2 TMP\_133 = 1 not(TMP\_133) = 0 TMP\_134 = 1 not(TMP\_134) = 0 TMP\_135 = 1 not(TMP\_135) = 0 TMP\_136 = 1 not(TMP\_136) = 0 TMP\_137 = 1 not(TMP\_137) = 0 TMP\_138 = 0 not(TMP\_138) = 1 TMP\_139 = 5 TMP\_140 = 0 not(TMP\_140) = 1 TMP\_141 = 0 not(TMP\_141) = 1 TMP\_142 = 0 TMP\_143 = 1 not(TMP\_143) = 0 TMP\_144 = 1 not(TMP\_144) = 0 TMP\_145 = 2 TMP\_146 = 0 not(TMP\_146) = 1 TMP\_147 = 0 not(TMP\_147) = 1 TMP\_148 = 1 not(TMP\_148) = 0 TMP\_149 = 1 not(TMP\_149) = 0 TMP\_150 = 1 not(TMP\_150) = 0 TMP\_151 = 2 TMP\_152 = 1 not(TMP\_152) = 0 TMP\_153 = 0 not(TMP\_153) = 1 TMP\_154 = 1 not(TMP\_154) = 0 TMP\_155 = 1 not(TMP\_155) = 0 TMP\_156 = 1 not(TMP\_156) = 0 TMP\_157 = 0 not(TMP\_157) = 1 TMP\_158 = 4 TMP\_159 = 0 not(TMP\_159) = 1 TMP\_160 = 0 not(TMP\_160) = 1 TMP\_161 = 0 TMP\_162 = 1 not(TMP\_162) = 0 TMP\_163 = 1 not(TMP\_163) = 0 TMP\_164 = 2 TMP\_165 = 0 not(TMP\_165) = 1 TMP\_166 = 0 not(TMP\_166) = 1 TMP\_167 = 1 not(TMP\_167) = 0 TMP\_168 = 1 not(TMP\_168) = 0 TMP\_169 = 1 not(TMP\_169) = 0 TMP\_170 = 2 TMP\_171 = 1 not(TMP\_171) = 0 TMP\_172 = 0 not(TMP\_172) = 1 TMP\_173 = 1 not(TMP\_173) = 0 TMP\_174 = 1 not(TMP\_174) = 0 TMP\_175 = 1 not(TMP\_175) = 0 TMP\_176 = 1 not(TMP\_176) = 0 TMP\_177 = 5 TMP\_178 = 0 not(TMP\_178) = 1 TMP\_179 = 0 not(TMP\_179) = 1 TMP\_180 = 0 TMP\_181 = 1 not(TMP\_181) = 0 TMP\_182 = 1 not(TMP\_182) = 0 TMP\_183 = 2 TMP\_184 = 0 not(TMP\_184) = 1 TMP\_185 = 0 not(TMP\_185) = 1 TMP\_186 = 1 not(TMP\_186) = 0 TMP\_187 = 1 not(TMP\_187) = 0 TMP\_188 = 1 not(TMP\_188) = 0 TMP\_189 = 2 TMP\_190 = 1 not(TMP\_190) = 0 TMP\_191 = 0 not(TMP\_191) = 1 TMP\_192 = 1 not(TMP\_192) = 0 TMP\_193 = 1 not(TMP\_193) = 0 TMP\_194 = 1 not(TMP\_194) = 0 TMP\_195 = 1 not(TMP\_195) = 0 TMP\_196 = 5 TMP\_197 = 0 not(TMP\_197) = 1 TMP\_198 = 0 not(TMP\_198) = 1 TMP\_199 = 0 TMP\_200 = 1 not(TMP\_200) = 0 TMP\_201 = 1 not(TMP\_201) = 0 TMP\_202 = 2 TMP\_203 = 0 not(TMP\_203) = 1 TMP\_204 = 0 not(TMP\_204) = 1 TMP\_205 = 1 not(TMP\_205) = 0 TMP\_206 = 1 not(TMP\_206) = 0 TMP\_207 = 1 not(TMP\_207) = 0 TMP\_208 = 2 TMP\_209 = 1 not(TMP\_209) = 0 TMP\_210 = 0 not(TMP\_210) = 1 TMP\_211 = 1 not(TMP\_211) = 0 TMP\_212 = 1 not(TMP\_212) = 0 TMP\_213 = 1 not(TMP\_213) = 0 TMP\_214 = 1 not(TMP\_214) = 0 TMP\_215 = 5 TMP\_216 = 0 not(TMP\_216) = 1 TMP\_217 = 0 not(TMP\_217) = 1 TMP\_218 = 0 TMP\_219 = 1 not(TMP\_219) = 0 TMP\_220 = 1 not(TMP\_220) = 0 TMP\_221 = 2 TMP\_222 = 0 not(TMP\_222) = 1 TMP\_223 = 0 not(TMP\_223) = 1 TMP\_224 = 1 not(TMP\_224) = 0 TMP\_225 = 1 not(TMP\_225) = 0 TMP\_226 = 1 not(TMP\_226) = 0 TMP\_227 = 2 TMP\_228 = 1 not(TMP\_228) = 0 TMP\_229 = 0 not(TMP\_229) = 1 TMP\_230 = 1 not(TMP\_230) = 0 TMP\_231 = 1 not(TMP\_231) = 0 TMP\_232 = 1 not(TMP\_232) = 0 TMP\_233 = 0 not(TMP\_233) = 1 TMP\_234 = 4 TMP\_235 = 0 not(TMP\_235) = 1 TMP\_236 = 0 not(TMP\_236) = 1 TMP\_237 = 0 TMP\_238 = 1 not(TMP\_238) = 0 TMP\_239 = 1 not(TMP\_239) = 0 TMP\_240 = 2 TMP\_241 = 0 not(TMP\_241) = 1 TMP\_242 = 0 not(TMP\_242) = 1 TMP\_243 = 1 not(TMP\_243) = 0 TMP\_244 = 1 not(TMP\_244) = 0 TMP\_245 = 1 not(TMP\_245) = 0 TMP\_246 = 2 TMP\_247 = 1 not(TMP\_247) = 0 TMP\_248 = 1 not(TMP\_248) = 0 TMP\_249 = 1 not(TMP\_249) = 0 TMP\_250 = 1 not(TMP\_250) = 0 TMP\_251 = 1 not(TMP\_251) = 0 TMP\_252 = 0 not(TMP\_252) = 1 TMP\_253 = 5 TMP\_254 = 0 not(TMP\_254) = 1 TMP\_255 = 0 not(TMP\_255) = 1 TMP\_256 = 0 TMP\_257 = 1 not(TMP\_257) = 0 TMP\_258 = 1 not(TMP\_258) = 0 TMP\_259 = 2 TMP\_260 = 0 not(TMP\_260) = 1 TMP\_261 = 0 not(TMP\_261) = 1 TMP\_262 = 1 not(TMP\_262) = 0 TMP\_263 = 1 not(TMP\_263) = 0 TMP\_264 = 1 not(TMP\_264) = 0 TMP\_265 = 2 TMP\_266 = 0 not(TMP\_266) = 1 TMP\_267 = 1 not(TMP\_267) = 0 TMP\_268 = 1 not(TMP\_268) = 0 TMP\_269 = 1 not(TMP\_269) = 0 TMP\_270 = 1 not(TMP\_270) = 0 TMP\_271 = 1 not(TMP\_271) = 0 TMP\_272 = 5 TMP\_273 = 0 not(TMP\_273) = 1 TMP\_274 = 0 not(TMP\_274) = 1 TMP\_275 = 0 TMP\_276 = 1 not(TMP\_276) = 0 TMP\_277 = 1 not(TMP\_277) = 0 TMP\_278 = 2 TMP\_279 = 0 not(TMP\_279) = 1 TMP\_280 = 0 not(TMP\_280) = 1 TMP\_281 = 1 not(TMP\_281) = 0 TMP\_282 = 1 not(TMP\_282) = 0 TMP\_283 = 1 not(TMP\_283) = 0 TMP\_284 = 2 TMP\_285 = 0 not(TMP\_285) = 1 TMP\_286 = 1 not(TMP\_286) = 0 TMP\_287 = 1 not(TMP\_287) = 0 TMP\_288 = 1 not(TMP\_288) = 0 TMP\_289 = 1 not(TMP\_289) = 0 TMP\_290 = 1 not(TMP\_290) = 0 TMP\_291 = 5 TMP\_292 = 0 not(TMP\_292) = 1 TMP\_293 = 0 not(TMP\_293) = 1 TMP\_294 = 0 TMP\_295 = 1 not(TMP\_295) = 0 TMP\_296 = 1 not(TMP\_296) = 0 TMP\_297 = 2 TMP\_298 = 0 not(TMP\_298) = 1 TMP\_299 = 0 not(TMP\_299) = 1 TMP\_300 = 1 not(TMP\_300) = 0 TMP\_301 = 1 not(TMP\_301) = 0 TMP\_302 = 1 not(TMP\_302) = 0 TMP\_303 = 2 TMP\_304 = 0 not(TMP\_304) = 1 TMP\_305 = 1 not(TMP\_305) = 0 TMP\_306 = 1 not(TMP\_306) = 0 TMP\_307 = 1 not(TMP\_307) = 0 TMP\_308 = 0 not(TMP\_308) = 1 TMP\_309 = 1 not(TMP\_309) = 0 TMP\_310 = 4 TMP\_311 = 0 not(TMP\_311) = 1 TMP\_312 = 0 not(TMP\_312) = 1 TMP\_313 = 0 TMP\_314 = 1 not(TMP\_314) = 0 TMP\_315 = 1 not(TMP\_315) = 0 TMP\_316 = 2 TMP\_317 = 0 not(TMP\_317) = 1 TMP\_318 = 0 not(TMP\_318) = 1 TMP\_319 = 1 not(TMP\_319) = 0 TMP\_320 = 1 not(TMP\_320) = 0 TMP\_321 = 1 not(TMP\_321) = 0 TMP\_322 = 2 TMP\_323 = 0 not(TMP\_323) = 1 TMP\_324 = 1 not(TMP\_324) = 0 TMP\_325 = 1 not(TMP\_325) = 0 TMP\_326 = 1 not(TMP\_326) = 0 TMP\_327 = 0 not(TMP\_327) = 1 TMP\_328 = 1 not(TMP\_328) = 0 TMP\_329 = 4 TMP\_330 = 0 not(TMP\_330) = 1 TMP\_331 = 0 not(TMP\_331) = 1 TMP\_332 = 0 TMP\_333 = 1 not(TMP\_333) = 0 TMP\_334 = 1 not(TMP\_334) = 0 TMP\_335 = 2 TMP\_336 = 0 not(TMP\_336) = 1 TMP\_337 = 0 not(TMP\_337) = 1 TMP\_338 = 1 not(TMP\_338) = 0 TMP\_339 = 1 not(TMP\_339) = 0 TMP\_340 = 1 not(TMP\_340) = 0 TMP\_341 = 2 TMP\_342 = 1 not(TMP\_342) = 0 TMP\_343 = 1 not(TMP\_343) = 0 TMP\_344 = 1 not(TMP\_344) = 0 TMP\_345 = 1 not(TMP\_345) = 0 TMP\_346 = 0 not(TMP\_346) = 1 TMP\_347 = 1 not(TMP\_347) = 0 TMP\_348 = 5 TMP\_349 = 0 not(TMP\_349) = 1 TMP\_350 = 0 not(TMP\_350) = 1 TMP\_351 = 0 TMP\_352 = 1 not(TMP\_352) = 0 TMP\_353 = 1 not(TMP\_353) = 0 TMP\_354 = 2 TMP\_355 = 0 not(TMP\_355) = 1 TMP\_356 = 0 not(TMP\_356) = 1 TMP\_357 = 1 not(TMP\_357) = 0 TMP\_358 = 1 not(TMP\_358) = 0 TMP\_359 = 1 not(TMP\_359) = 0 TMP\_360 = 2 TMP\_361 = 0 not(TMP\_361) = 1 TMP\_362 = 1 not(TMP\_362) = 0 TMP\_363 = 1 not(TMP\_363) = 0 TMP\_364 = 1 not(TMP\_364) = 0 TMP\_365 = 0 not(TMP\_365) = 1 TMP\_366 = 1 not(TMP\_366) = 0 TMP\_367 = 4 TMP\_368 = 0 not(TMP\_368) = 1 TMP\_369 = 0 not(TMP\_369) = 1 TMP\_370 = 0 TMP\_371 = 1 not(TMP\_371) = 0 TMP\_372 = 1 not(TMP\_372) = 0 TMP\_373 = 2 TMP\_374 = 0 not(TMP\_374) = 1 TMP\_375 = 0 not(TMP\_375) = 1 TMP\_376 = 1 not(TMP\_376) = 0 TMP\_377 = 1 not(TMP\_377) = 0 TMP\_378 = 1 not(TMP\_378) = 0 TMP\_379 = 2 TMP\_380 = 0 not(TMP\_380) = 1 TMP\_381 = 1 not(TMP\_381) = 0 TMP\_382 = 1 not(TMP\_382) = 0 TMP\_383 = 1 not(TMP\_383) = 0 TMP\_384 = 1 not(TMP\_384) = 0 TMP\_385 = 1 not(TMP\_385) = 0 TMP\_386 = 5 TMP\_387 = 0 not(TMP\_387) = 1 TMP\_388 = 0 not(TMP\_388) = 1 TMP\_389 = 0 TMP\_390 = 1 not(TMP\_390) = 0 TMP\_391 = 1 not(TMP\_391) = 0 TMP\_392 = 2 TMP\_393 = 0 not(TMP\_393) = 1 TMP\_394 = 0 not(TMP\_394) = 1 TMP\_395 = 1 not(TMP\_395) = 0 TMP\_396 = 1 not(TMP\_396) = 0 TMP\_397 = 1 not(TMP\_397) = 0 TMP\_398 = 2 TMP\_399 = 0 not(TMP\_399) = 1 TMP\_400 = 1 not(TMP\_400) = 0 TMP\_401 = 1 not(TMP\_401) = 0 TMP\_402 = 1 not(TMP\_402) = 0 TMP\_403 = 1 not(TMP\_403) = 0 TMP\_404 = 1 not(TMP\_404) = 0 TMP\_405 = 5 TMP\_406 = 0 not(TMP\_406) = 1 TMP\_407 = 0 not(TMP\_407) = 1 TMP\_408 = 0 TMP\_409 = 1 not(TMP\_409) = 0 TMP\_410 = 1 not(TMP\_410) = 0 TMP\_411 = 2 TMP\_412 = 0 not(TMP\_412) = 1 TMP\_413 = 0 not(TMP\_413) = 1 TMP\_414 = 1 not(TMP\_414) = 0 TMP\_415 = 1 not(TMP\_415) = 0 TMP\_416 = 1 not(TMP\_416) = 0 TMP\_417 = 2 TMP\_418 = 1 not(TMP\_418) = 0 TMP\_419 = 0 not(TMP\_419) = 1 TMP\_420 = 1 not(TMP\_420) = 0 TMP\_421 = 1 not(TMP\_421) = 0 TMP\_422 = 1 not(TMP\_422) = 0 TMP\_423 = 1 not(TMP\_423) = 0 TMP\_424 = 5 TMP\_425 = 0 not(TMP\_425) = 1 TMP\_426 = 0 not(TMP\_426) = 1 TMP\_427 = 0 TMP\_428 = 1 not(TMP\_428) = 0 TMP\_429 = 1 not(TMP\_429) = 0 TMP\_430 = 2 TMP\_431 = 0 not(TMP\_431) = 1 TMP\_432 = 0 not(TMP\_432) = 1 TMP\_433 = 1 not(TMP\_433) = 0 TMP\_434 = 1 not(TMP\_434) = 0 TMP\_435 = 1 not(TMP\_435) = 0 TMP\_436 = 2 TMP\_437 = 1 not(TMP\_437) = 0 TMP\_438 = 0 not(TMP\_438) = 1 TMP\_439 = 1 not(TMP\_439) = 0 TMP\_440 = 1 not(TMP\_440) = 0 TMP\_441 = 0 not(TMP\_441) = 1 TMP\_442 = 1 not(TMP\_442) = 0 TMP\_443 = 4 TMP\_444 = 0 not(TMP\_444) = 1 TMP\_445 = 0 not(TMP\_445) = 1 TMP\_446 = 0 TMP\_447 = 1 not(TMP\_447) = 0 TMP\_448 = 1 not(TMP\_448) = 0 TMP\_449 = 2 TMP\_450 = 0 not(TMP\_450) = 1 TMP\_451 = 0 not(TMP\_451) = 1 TMP\_452 = 1 not(TMP\_452) = 0 TMP\_453 = 1 not(TMP\_453) = 0 TMP\_454 = 1 not(TMP\_454) = 0 TMP\_455 = 2 TMP\_456 = 1 not(TMP\_456) = 0 TMP\_457 = 0 not(TMP\_457) = 1 TMP\_458 = 1 not(TMP\_458) = 0 TMP\_459 = 1 not(TMP\_459) = 0 TMP\_460 = 0 not(TMP\_460) = 1 TMP\_461 = 1 not(TMP\_461) = 0 TMP\_462 = 4 TMP\_463 = 0 not(TMP\_463) = 1 TMP\_464 = 0 not(TMP\_464) = 1 TMP\_465 = 0 TMP\_466 = 1 not(TMP\_466) = 0 TMP\_467 = 1 not(TMP\_467) = 0 TMP\_468 = 2 TMP\_469 = 0 not(TMP\_469) = 1 TMP\_470 = 0 not(TMP\_470) = 1 TMP\_471 = 1 not(TMP\_471) = 0 TMP\_472 = 1 not(TMP\_472) = 0 TMP\_473 = 1 not(TMP\_473) = 0 TMP\_474 = 2 TMP\_475 = 1 not(TMP\_475) = 0 TMP\_476 = 0 not(TMP\_476) = 1 TMP\_477 = 1 not(TMP\_477) = 0 TMP\_478 = 1 not(TMP\_478) = 0 TMP\_479 = 0 not(TMP\_479) = 1 TMP\_480 = 1 not(TMP\_480) = 0 TMP\_481 = 4 TMP\_482 = 0 not(TMP\_482) = 1 TMP\_483 = 0 not(TMP\_483) = 1 TMP\_484 = 0 TMP\_485 = 1 not(TMP\_485) = 0 TMP\_486 = 1 not(TMP\_486) = 0 TMP\_487 = 2 TMP\_488 = 0 not(TMP\_488) = 1 TMP\_489 = 0 not(TMP\_489) = 1 TMP\_490 = 1 not(TMP\_490) = 0 TMP\_491 = 1 not(TMP\_491) = 0 TMP\_492 = 1 not(TMP\_492) = 0 TMP\_493 = 2 TMP\_494 = 1 not(TMP\_494) = 0 TMP\_495 = 1 not(TMP\_495) = 0 TMP\_496 = 1 not(TMP\_496) = 0 TMP\_497 = 1 not(TMP\_497) = 0 TMP\_498 = 0 not(TMP\_498) = 1 TMP\_499 = 1 not(TMP\_499) = 0 TMP\_500 = 5 TMP\_501 = 0 not(TMP\_501) = 1 TMP\_502 = 0 not(TMP\_502) = 1 TMP\_503 = 0 TMP\_504 = 1 not(TMP\_504) = 0 TMP\_505 = 1 not(TMP\_505) = 0 TMP\_506 = 2 TMP\_507 = 0 not(TMP\_507) = 1 TMP\_508 = 0 not(TMP\_508) = 1 TMP\_509 = 1 not(TMP\_509) = 0 TMP\_510 = 1 not(TMP\_510) = 0 TMP\_511 = 1 not(TMP\_511) = 0 TMP\_512 = 2 TMP\_513 = 1 not(TMP\_513) = 0 TMP\_514 = 0 not(TMP\_514) = 1 TMP\_515 = 1 not(TMP\_515) = 0 TMP\_516 = 1 not(TMP\_516) = 0 TMP\_517 = 1 not(TMP\_517) = 0 TMP\_518 = 1 not(TMP\_518) = 0 TMP\_519 = 5 TMP\_520 = 0 not(TMP\_520) = 1 TMP\_521 = 0 not(TMP\_521) = 1 TMP\_522 = 0 TMP\_523 = 1 not(TMP\_523) = 0 TMP\_524 = 1 not(TMP\_524) = 0 TMP\_525 = 2 TMP\_526 = 0 not(TMP\_526) = 1 TMP\_527 = 0 not(TMP\_527) = 1 TMP\_528 = 1 not(TMP\_528) = 0 TMP\_529 = 1 not(TMP\_529) = 0 TMP\_530 = 1 not(TMP\_530) = 0 TMP\_531 = 2 Area\_0 = 60 Distance\_0\_Rule\_0 = 20 Distance\_1\_Rule\_0 = 3 Distance\_2\_Rule\_0 = 1 Area\_1 = 174 Distance\_0\_Rule\_1 = 58 Distance\_1\_Rule\_1 = 3 Distance\_2\_Rule\_1 = 1 Area\_2 = 116 Distance\_0\_Rule\_2 = 58 Distance\_1\_Rule\_2 = 2 Distance\_2\_Rule\_2 = 1 Area\_3 = 58 Distance\_0\_Rule\_3 = 58 Distance\_1\_Rule\_3 = 1 Distance\_2\_Rule\_3 = 1 Area\_4 = 123 -(Rule\_4\_LB) = -79 Distance\_0\_Rule\_4 = 41 -(Rule\_4\_LB) = 0 Distance\_1\_Rule\_4 = 3 -(Rule\_4\_LB) = 0 Distance\_2\_Rule\_4 = 1 Area\_5 = 63 -(Rule\_5\_LB) = 0 Distance\_0\_Rule\_5 = 21 -(Rule\_5\_LB) = 0 Distance\_1\_Rule\_5 = 3 -(Rule\_5\_LB) = 0 Distance\_2\_Rule\_5 = 1 Area\_6 = 123 -(Rule\_6\_LB) = -79 Distance\_0\_Rule\_6 = 41 -(Rule\_6\_LB) = 0 Distance\_1\_Rule\_6 = 3 -(Rule\_6\_LB) = -1 Distance\_2\_Rule\_6 = 1 Area\_7 = 3 -(Rule\_7\_LB) = -20 Distance\_0\_Rule\_7 = 1 -(Rule\_7\_LB) = 0 Distance\_1\_Rule\_7 = 3 -(Rule\_7\_LB) = -1 Distance\_2\_Rule\_7 = 1 TMP\_532 = 720 .

- Solution #10 found. 10 Solutions, Resolution 0.329s, 97 Nodes (294.7 n/s), 123 Backtracks, 58 Fails, 0 Restarts

Rule\_4\_LB = 79 Rule\_4\_UB = 120 Rule\_4\_LB = 0 Rule\_4\_UB = 3 Rule\_4\_LB = 0 Rule\_4\_UB = 1 Rule\_5\_LB = 0 Rule\_5\_UB = 21 Rule\_5\_LB = 0 Rule\_5\_UB = 3 Rule\_5\_LB = 0 Rule\_5\_UB = 1 Rule\_6\_LB = 79 Rule\_6\_UB = 120 Rule\_6\_LB = 0 Rule\_6\_UB = 3 Rule\_6\_LB = 1 Rule\_6\_UB = 2 Rule\_7\_LB = 20 Rule\_7\_UB = 21 Rule\_7\_LB = 0 Rule\_7\_UB = 3 Rule\_7\_LB = 1 Rule\_7\_UB = 2 Overlaps\_0\_0 = 0 Overlaps\_0\_1 = 1 Overlaps\_0\_2 = 0 Overlaps\_0\_3 = 0 Overlaps\_0\_4 = 0 Overlaps\_0\_5 = 0 Overlaps\_0\_6 = 0 Overlaps\_0\_7 = 0 Overlaps\_1\_0 = 0 Overlaps\_1\_1 = 0 Overlaps\_1\_2 = 0 Overlaps\_1\_3 = 0 Overlaps\_1\_4 = 0 Overlaps\_1\_5 = 0 Overlaps\_1\_6 = 0 Overlaps\_1\_7 = 0 Overlaps\_2\_0 = 0 Overlaps\_2\_1 = 0 Overlaps\_2\_2 = 0 Overlaps\_2\_3 = 0 Overlaps\_2\_4 = 0 Overlaps\_2\_5 = 0 Overlaps\_2\_6 = 0 Overlaps\_2\_7 = 0 Overlaps\_3\_0 = 1 Overlaps\_3\_1 = 0 Overlaps\_3\_2 = 0 Overlaps\_3\_3 = 0 Overlaps\_3\_4 = 0 Overlaps\_3\_5 = 0 Overlaps\_3\_6 = 0 Overlaps\_3\_7 = 0 Overlaps\_4\_0 = 0 Overlaps\_4\_1 = 0 Overlaps\_4\_2 = 0 Overlaps\_4\_3 = 0 Overlaps\_4\_4 = 0 Overlaps\_4\_5 = 0 Overlaps\_4\_6 = 0 Overlaps\_4\_7 = 0 Overlaps\_5\_0 = 0 Overlaps\_5\_1 = 0 Overlaps\_5\_2 = 0 Overlaps\_5\_3 = 0 Overlaps\_5\_4 = 0 Overlaps\_5\_5 = 0 Overlaps\_5\_6 = 0 Overlaps\_5\_7 = 0 Overlaps\_6\_0 = 0 Overlaps\_6\_1 = 0 Overlaps\_6\_2 = 0 Overlaps\_6\_3 = 0 Overlaps\_6\_4 = 0 Overlaps\_6\_5 = 0 Overlaps\_6\_6 = 0 Overlaps\_6\_7 = 0 Overlaps\_7\_0 = 0 Overlaps\_7\_1 = 0 Overlaps\_7\_2 = 0 Overlaps\_7\_3 = 0 Overlaps\_7\_4 = 0 Overlaps\_7\_5 = 0 Overlaps\_7\_6 = 0 Overlaps\_7\_7 = 0 TMP\_0 = 0 not(TMP\_0) = 1 TMP\_1 = 1 not(TMP\_1) = 0 TMP\_2 = 1 not(TMP\_2) = 0 TMP\_3 = 1 not(TMP\_3) = 0 TMP\_4 = 1 not(TMP\_4) = 0 TMP\_5 = 0 not(TMP\_5) = 1 TMP\_6 = 4 TMP\_7 = 0 not(TMP\_7) = 1 TMP\_8 = 0 not(TMP\_8) = 1 TMP\_9 = 0 TMP\_10 = 1 not(TMP\_10) = 0 TMP\_11 = 1 not(TMP\_11) = 0 TMP\_12 = 2 TMP\_13 = 0 not(TMP\_13) = 1 TMP\_14 = 0 not(TMP\_14) = 1 TMP\_15 = 1 not(TMP\_15) = 0 TMP\_16 = 1 not(TMP\_16) = 0 TMP\_17 = 1 not(TMP\_17) = 0 TMP\_18 = 2 TMP\_19 = 0 not(TMP\_19) = 1 TMP\_20 = 1 not(TMP\_20) = 0 TMP\_21 = 1 not(TMP\_21) = 0 TMP\_22 = 1 not(TMP\_22) = 0 TMP\_23 = 1 not(TMP\_23) = 0 TMP\_24 = 0 not(TMP\_24) = 1 TMP\_25 = 4 TMP\_26 = 0 not(TMP\_26) = 1 TMP\_27 = 0 not(TMP\_27) = 1 TMP\_28 = 0 TMP\_29 = 1 not(TMP\_29) = 0 TMP\_30 = 1 not(TMP\_30) = 0 TMP\_31 = 2 TMP\_32 = 0 not(TMP\_32) = 1 TMP\_33 = 0 not(TMP\_33) = 1 TMP\_34 = 1 not(TMP\_34) = 0 TMP\_35 = 1 not(TMP\_35) = 0 TMP\_36 = 1 not(TMP\_36) = 0 TMP\_37 = 2 TMP\_38 = 0 not(TMP\_38) = 1 TMP\_39 = 1 not(TMP\_39) = 0 TMP\_40 = 1 not(TMP\_40) = 0 TMP\_41 = 1 not(TMP\_41) = 0 TMP\_42 = 1 not(TMP\_42) = 0 TMP\_43 = 1 not(TMP\_43) = 0 TMP\_44 = 5 TMP\_45 = 0 not(TMP\_45) = 1 TMP\_46 = 0 not(TMP\_46) = 1 TMP\_47 = 0 TMP\_48 = 1 not(TMP\_48) = 0 TMP\_49 = 1 not(TMP\_49) = 0 TMP\_50 = 2 TMP\_51 = 0 not(TMP\_51) = 1 TMP\_52 = 0 not(TMP\_52) = 1 TMP\_53 = 1 not(TMP\_53) = 0 TMP\_54 = 1 not(TMP\_54) = 0 TMP\_55 = 1 not(TMP\_55) = 0 TMP\_56 = 2 TMP\_57 = 0 not(TMP\_57) = 1 TMP\_58 = 1 not(TMP\_58) = 0 TMP\_59 = 1 not(TMP\_59) = 0 TMP\_60 = 1 not(TMP\_60) = 0 TMP\_61 = 1 not(TMP\_61) = 0 TMP\_62 = 1 not(TMP\_62) = 0 TMP\_63 = 5 TMP\_64 = 0 not(TMP\_64) = 1 TMP\_65 = 0 not(TMP\_65) = 1 TMP\_66 = 0 TMP\_67 = 1 not(TMP\_67) = 0 TMP\_68 = 1 not(TMP\_68) = 0 TMP\_69 = 2 TMP\_70 = 0 not(TMP\_70) = 1 TMP\_71 = 0 not(TMP\_71) = 1 TMP\_72 = 1 not(TMP\_72) = 0 TMP\_73 = 1 not(TMP\_73) = 0 TMP\_74 = 1 not(TMP\_74) = 0 TMP\_75 = 2 TMP\_76 = 0 not(TMP\_76) = 1 TMP\_77 = 1 not(TMP\_77) = 0 TMP\_78 = 1 not(TMP\_78) = 0 TMP\_79 = 1 not(TMP\_79) = 0 TMP\_80 = 1 not(TMP\_80) = 0 TMP\_81 = 1 not(TMP\_81) = 0 TMP\_82 = 5 TMP\_83 = 0 not(TMP\_83) = 1 TMP\_84 = 0 not(TMP\_84) = 1 TMP\_85 = 0 TMP\_86 = 1 not(TMP\_86) = 0 TMP\_87 = 1 not(TMP\_87) = 0 TMP\_88 = 2 TMP\_89 = 0 not(TMP\_89) = 1 TMP\_90 = 0 not(TMP\_90) = 1 TMP\_91 = 1 not(TMP\_91) = 0 TMP\_92 = 1 not(TMP\_92) = 0 TMP\_93 = 1 not(TMP\_93) = 0 TMP\_94 = 2 TMP\_95 = 1 not(TMP\_95) = 0 TMP\_96 = 1 not(TMP\_96) = 0 TMP\_97 = 1 not(TMP\_97) = 0 TMP\_98 = 1 not(TMP\_98) = 0 TMP\_99 = 1 not(TMP\_99) = 0 TMP\_100 = 0 not(TMP\_100) = 1 TMP\_101 = 5 TMP\_102 = 0 not(TMP\_102) = 1 TMP\_103 = 0 not(TMP\_103) = 1 TMP\_104 = 0 TMP\_105 = 1 not(TMP\_105) = 0 TMP\_106 = 1 not(TMP\_106) = 0 TMP\_107 = 2 TMP\_108 = 0 not(TMP\_108) = 1 TMP\_109 = 0 not(TMP\_109) = 1 TMP\_110 = 1 not(TMP\_110) = 0 TMP\_111 = 1 not(TMP\_111) = 0 TMP\_112 = 1 not(TMP\_112) = 0 TMP\_113 = 2 TMP\_114 = 0 not(TMP\_114) = 1 TMP\_115 = 1 not(TMP\_115) = 0 TMP\_116 = 1 not(TMP\_116) = 0 TMP\_117 = 1 not(TMP\_117) = 0 TMP\_118 = 1 not(TMP\_118) = 0 TMP\_119 = 0 not(TMP\_119) = 1 TMP\_120 = 4 TMP\_121 = 0 not(TMP\_121) = 1 TMP\_122 = 0 not(TMP\_122) = 1 TMP\_123 = 0 TMP\_124 = 1 not(TMP\_124) = 0 TMP\_125 = 1 not(TMP\_125) = 0 TMP\_126 = 2 TMP\_127 = 0 not(TMP\_127) = 1 TMP\_128 = 0 not(TMP\_128) = 1 TMP\_129 = 1 not(TMP\_129) = 0 TMP\_130 = 1 not(TMP\_130) = 0 TMP\_131 = 1 not(TMP\_131) = 0 TMP\_132 = 2 TMP\_133 = 1 not(TMP\_133) = 0 TMP\_134 = 1 not(TMP\_134) = 0 TMP\_135 = 1 not(TMP\_135) = 0 TMP\_136 = 1 not(TMP\_136) = 0 TMP\_137 = 1 not(TMP\_137) = 0 TMP\_138 = 0 not(TMP\_138) = 1 TMP\_139 = 5 TMP\_140 = 0 not(TMP\_140) = 1 TMP\_141 = 0 not(TMP\_141) = 1 TMP\_142 = 0 TMP\_143 = 1 not(TMP\_143) = 0 TMP\_144 = 1 not(TMP\_144) = 0 TMP\_145 = 2 TMP\_146 = 0 not(TMP\_146) = 1 TMP\_147 = 0 not(TMP\_147) = 1 TMP\_148 = 1 not(TMP\_148) = 0 TMP\_149 = 1 not(TMP\_149) = 0 TMP\_150 = 1 not(TMP\_150) = 0 TMP\_151 = 2 TMP\_152 = 1 not(TMP\_152) = 0 TMP\_153 = 0 not(TMP\_153) = 1 TMP\_154 = 1 not(TMP\_154) = 0 TMP\_155 = 1 not(TMP\_155) = 0 TMP\_156 = 1 not(TMP\_156) = 0 TMP\_157 = 0 not(TMP\_157) = 1 TMP\_158 = 4 TMP\_159 = 0 not(TMP\_159) = 1 TMP\_160 = 0 not(TMP\_160) = 1 TMP\_161 = 0 TMP\_162 = 1 not(TMP\_162) = 0 TMP\_163 = 1 not(TMP\_163) = 0 TMP\_164 = 2 TMP\_165 = 0 not(TMP\_165) = 1 TMP\_166 = 0 not(TMP\_166) = 1 TMP\_167 = 1 not(TMP\_167) = 0 TMP\_168 = 1 not(TMP\_168) = 0 TMP\_169 = 1 not(TMP\_169) = 0 TMP\_170 = 2 TMP\_171 = 1 not(TMP\_171) = 0 TMP\_172 = 0 not(TMP\_172) = 1 TMP\_173 = 1 not(TMP\_173) = 0 TMP\_174 = 1 not(TMP\_174) = 0 TMP\_175 = 1 not(TMP\_175) = 0 TMP\_176 = 1 not(TMP\_176) = 0 TMP\_177 = 5 TMP\_178 = 0 not(TMP\_178) = 1 TMP\_179 = 0 not(TMP\_179) = 1 TMP\_180 = 0 TMP\_181 = 1 not(TMP\_181) = 0 TMP\_182 = 1 not(TMP\_182) = 0 TMP\_183 = 2 TMP\_184 = 0 not(TMP\_184) = 1 TMP\_185 = 0 not(TMP\_185) = 1 TMP\_186 = 1 not(TMP\_186) = 0 TMP\_187 = 1 not(TMP\_187) = 0 TMP\_188 = 1 not(TMP\_188) = 0 TMP\_189 = 2 TMP\_190 = 1 not(TMP\_190) = 0 TMP\_191 = 0 not(TMP\_191) = 1 TMP\_192 = 1 not(TMP\_192) = 0 TMP\_193 = 1 not(TMP\_193) = 0 TMP\_194 = 1 not(TMP\_194) = 0 TMP\_195 = 1 not(TMP\_195) = 0 TMP\_196 = 5 TMP\_197 = 0 not(TMP\_197) = 1 TMP\_198 = 0 not(TMP\_198) = 1 TMP\_199 = 0 TMP\_200 = 1 not(TMP\_200) = 0 TMP\_201 = 1 not(TMP\_201) = 0 TMP\_202 = 2 TMP\_203 = 0 not(TMP\_203) = 1 TMP\_204 = 0 not(TMP\_204) = 1 TMP\_205 = 1 not(TMP\_205) = 0 TMP\_206 = 1 not(TMP\_206) = 0 TMP\_207 = 1 not(TMP\_207) = 0 TMP\_208 = 2 TMP\_209 = 1 not(TMP\_209) = 0 TMP\_210 = 0 not(TMP\_210) = 1 TMP\_211 = 1 not(TMP\_211) = 0 TMP\_212 = 1 not(TMP\_212) = 0 TMP\_213 = 1 not(TMP\_213) = 0 TMP\_214 = 1 not(TMP\_214) = 0 TMP\_215 = 5 TMP\_216 = 0 not(TMP\_216) = 1 TMP\_217 = 0 not(TMP\_217) = 1 TMP\_218 = 0 TMP\_219 = 1 not(TMP\_219) = 0 TMP\_220 = 1 not(TMP\_220) = 0 TMP\_221 = 2 TMP\_222 = 0 not(TMP\_222) = 1 TMP\_223 = 0 not(TMP\_223) = 1 TMP\_224 = 1 not(TMP\_224) = 0 TMP\_225 = 1 not(TMP\_225) = 0 TMP\_226 = 1 not(TMP\_226) = 0 TMP\_227 = 2 TMP\_228 = 1 not(TMP\_228) = 0 TMP\_229 = 0 not(TMP\_229) = 1 TMP\_230 = 1 not(TMP\_230) = 0 TMP\_231 = 1 not(TMP\_231) = 0 TMP\_232 = 1 not(TMP\_232) = 0 TMP\_233 = 0 not(TMP\_233) = 1 TMP\_234 = 4 TMP\_235 = 0 not(TMP\_235) = 1 TMP\_236 = 0 not(TMP\_236) = 1 TMP\_237 = 0 TMP\_238 = 1 not(TMP\_238) = 0 TMP\_239 = 1 not(TMP\_239) = 0 TMP\_240 = 2 TMP\_241 = 0 not(TMP\_241) = 1 TMP\_242 = 0 not(TMP\_242) = 1 TMP\_243 = 1 not(TMP\_243) = 0 TMP\_244 = 1 not(TMP\_244) = 0 TMP\_245 = 1 not(TMP\_245) = 0 TMP\_246 = 2 TMP\_247 = 1 not(TMP\_247) = 0 TMP\_248 = 1 not(TMP\_248) = 0 TMP\_249 = 1 not(TMP\_249) = 0 TMP\_250 = 1 not(TMP\_250) = 0 TMP\_251 = 1 not(TMP\_251) = 0 TMP\_252 = 0 not(TMP\_252) = 1 TMP\_253 = 5 TMP\_254 = 0 not(TMP\_254) = 1 TMP\_255 = 0 not(TMP\_255) = 1 TMP\_256 = 0 TMP\_257 = 1 not(TMP\_257) = 0 TMP\_258 = 1 not(TMP\_258) = 0 TMP\_259 = 2 TMP\_260 = 0 not(TMP\_260) = 1 TMP\_261 = 0 not(TMP\_261) = 1 TMP\_262 = 1 not(TMP\_262) = 0 TMP\_263 = 1 not(TMP\_263) = 0 TMP\_264 = 1 not(TMP\_264) = 0 TMP\_265 = 2 TMP\_266 = 0 not(TMP\_266) = 1 TMP\_267 = 1 not(TMP\_267) = 0 TMP\_268 = 1 not(TMP\_268) = 0 TMP\_269 = 1 not(TMP\_269) = 0 TMP\_270 = 1 not(TMP\_270) = 0 TMP\_271 = 1 not(TMP\_271) = 0 TMP\_272 = 5 TMP\_273 = 0 not(TMP\_273) = 1 TMP\_274 = 0 not(TMP\_274) = 1 TMP\_275 = 0 TMP\_276 = 1 not(TMP\_276) = 0 TMP\_277 = 1 not(TMP\_277) = 0 TMP\_278 = 2 TMP\_279 = 0 not(TMP\_279) = 1 TMP\_280 = 0 not(TMP\_280) = 1 TMP\_281 = 1 not(TMP\_281) = 0 TMP\_282 = 1 not(TMP\_282) = 0 TMP\_283 = 1 not(TMP\_283) = 0 TMP\_284 = 2 TMP\_285 = 0 not(TMP\_285) = 1 TMP\_286 = 1 not(TMP\_286) = 0 TMP\_287 = 1 not(TMP\_287) = 0 TMP\_288 = 1 not(TMP\_288) = 0 TMP\_289 = 1 not(TMP\_289) = 0 TMP\_290 = 1 not(TMP\_290) = 0 TMP\_291 = 5 TMP\_292 = 0 not(TMP\_292) = 1 TMP\_293 = 0 not(TMP\_293) = 1 TMP\_294 = 0 TMP\_295 = 1 not(TMP\_295) = 0 TMP\_296 = 1 not(TMP\_296) = 0 TMP\_297 = 2 TMP\_298 = 0 not(TMP\_298) = 1 TMP\_299 = 0 not(TMP\_299) = 1 TMP\_300 = 1 not(TMP\_300) = 0 TMP\_301 = 1 not(TMP\_301) = 0 TMP\_302 = 1 not(TMP\_302) = 0 TMP\_303 = 2 TMP\_304 = 0 not(TMP\_304) = 1 TMP\_305 = 1 not(TMP\_305) = 0 TMP\_306 = 1 not(TMP\_306) = 0 TMP\_307 = 1 not(TMP\_307) = 0 TMP\_308 = 0 not(TMP\_308) = 1 TMP\_309 = 1 not(TMP\_309) = 0 TMP\_310 = 4 TMP\_311 = 0 not(TMP\_311) = 1 TMP\_312 = 0 not(TMP\_312) = 1 TMP\_313 = 0 TMP\_314 = 1 not(TMP\_314) = 0 TMP\_315 = 1 not(TMP\_315) = 0 TMP\_316 = 2 TMP\_317 = 0 not(TMP\_317) = 1 TMP\_318 = 0 not(TMP\_318) = 1 TMP\_319 = 1 not(TMP\_319) = 0 TMP\_320 = 1 not(TMP\_320) = 0 TMP\_321 = 1 not(TMP\_321) = 0 TMP\_322 = 2 TMP\_323 = 0 not(TMP\_323) = 1 TMP\_324 = 1 not(TMP\_324) = 0 TMP\_325 = 1 not(TMP\_325) = 0 TMP\_326 = 1 not(TMP\_326) = 0 TMP\_327 = 0 not(TMP\_327) = 1 TMP\_328 = 1 not(TMP\_328) = 0 TMP\_329 = 4 TMP\_330 = 0 not(TMP\_330) = 1 TMP\_331 = 0 not(TMP\_331) = 1 TMP\_332 = 0 TMP\_333 = 1 not(TMP\_333) = 0 TMP\_334 = 1 not(TMP\_334) = 0 TMP\_335 = 2 TMP\_336 = 0 not(TMP\_336) = 1 TMP\_337 = 0 not(TMP\_337) = 1 TMP\_338 = 1 not(TMP\_338) = 0 TMP\_339 = 1 not(TMP\_339) = 0 TMP\_340 = 1 not(TMP\_340) = 0 TMP\_341 = 2 TMP\_342 = 1 not(TMP\_342) = 0 TMP\_343 = 1 not(TMP\_343) = 0 TMP\_344 = 1 not(TMP\_344) = 0 TMP\_345 = 1 not(TMP\_345) = 0 TMP\_346 = 0 not(TMP\_346) = 1 TMP\_347 = 1 not(TMP\_347) = 0 TMP\_348 = 5 TMP\_349 = 0 not(TMP\_349) = 1 TMP\_350 = 0 not(TMP\_350) = 1 TMP\_351 = 0 TMP\_352 = 1 not(TMP\_352) = 0 TMP\_353 = 1 not(TMP\_353) = 0 TMP\_354 = 2 TMP\_355 = 0 not(TMP\_355) = 1 TMP\_356 = 0 not(TMP\_356) = 1 TMP\_357 = 1 not(TMP\_357) = 0 TMP\_358 = 1 not(TMP\_358) = 0 TMP\_359 = 1 not(TMP\_359) = 0 TMP\_360 = 2 TMP\_361 = 0 not(TMP\_361) = 1 TMP\_362 = 1 not(TMP\_362) = 0 TMP\_363 = 1 not(TMP\_363) = 0 TMP\_364 = 1 not(TMP\_364) = 0 TMP\_365 = 0 not(TMP\_365) = 1 TMP\_366 = 1 not(TMP\_366) = 0 TMP\_367 = 4 TMP\_368 = 0 not(TMP\_368) = 1 TMP\_369 = 0 not(TMP\_369) = 1 TMP\_370 = 0 TMP\_371 = 1 not(TMP\_371) = 0 TMP\_372 = 1 not(TMP\_372) = 0 TMP\_373 = 2 TMP\_374 = 0 not(TMP\_374) = 1 TMP\_375 = 0 not(TMP\_375) = 1 TMP\_376 = 1 not(TMP\_376) = 0 TMP\_377 = 1 not(TMP\_377) = 0 TMP\_378 = 1 not(TMP\_378) = 0 TMP\_379 = 2 TMP\_380 = 0 not(TMP\_380) = 1 TMP\_381 = 1 not(TMP\_381) = 0 TMP\_382 = 1 not(TMP\_382) = 0 TMP\_383 = 1 not(TMP\_383) = 0 TMP\_384 = 1 not(TMP\_384) = 0 TMP\_385 = 1 not(TMP\_385) = 0 TMP\_386 = 5 TMP\_387 = 0 not(TMP\_387) = 1 TMP\_388 = 0 not(TMP\_388) = 1 TMP\_389 = 0 TMP\_390 = 1 not(TMP\_390) = 0 TMP\_391 = 1 not(TMP\_391) = 0 TMP\_392 = 2 TMP\_393 = 0 not(TMP\_393) = 1 TMP\_394 = 0 not(TMP\_394) = 1 TMP\_395 = 1 not(TMP\_395) = 0 TMP\_396 = 1 not(TMP\_396) = 0 TMP\_397 = 1 not(TMP\_397) = 0 TMP\_398 = 2 TMP\_399 = 0 not(TMP\_399) = 1 TMP\_400 = 1 not(TMP\_400) = 0 TMP\_401 = 1 not(TMP\_401) = 0 TMP\_402 = 1 not(TMP\_402) = 0 TMP\_403 = 1 not(TMP\_403) = 0 TMP\_404 = 1 not(TMP\_404) = 0 TMP\_405 = 5 TMP\_406 = 0 not(TMP\_406) = 1 TMP\_407 = 0 not(TMP\_407) = 1 TMP\_408 = 0 TMP\_409 = 1 not(TMP\_409) = 0 TMP\_410 = 1 not(TMP\_410) = 0 TMP\_411 = 2 TMP\_412 = 0 not(TMP\_412) = 1 TMP\_413 = 0 not(TMP\_413) = 1 TMP\_414 = 1 not(TMP\_414) = 0 TMP\_415 = 1 not(TMP\_415) = 0 TMP\_416 = 1 not(TMP\_416) = 0 TMP\_417 = 2 TMP\_418 = 1 not(TMP\_418) = 0 TMP\_419 = 0 not(TMP\_419) = 1 TMP\_420 = 1 not(TMP\_420) = 0 TMP\_421 = 1 not(TMP\_421) = 0 TMP\_422 = 1 not(TMP\_422) = 0 TMP\_423 = 1 not(TMP\_423) = 0 TMP\_424 = 5 TMP\_425 = 0 not(TMP\_425) = 1 TMP\_426 = 0 not(TMP\_426) = 1 TMP\_427 = 0 TMP\_428 = 1 not(TMP\_428) = 0 TMP\_429 = 1 not(TMP\_429) = 0 TMP\_430 = 2 TMP\_431 = 0 not(TMP\_431) = 1 TMP\_432 = 0 not(TMP\_432) = 1 TMP\_433 = 1 not(TMP\_433) = 0 TMP\_434 = 1 not(TMP\_434) = 0 TMP\_435 = 1 not(TMP\_435) = 0 TMP\_436 = 2 TMP\_437 = 1 not(TMP\_437) = 0 TMP\_438 = 0 not(TMP\_438) = 1 TMP\_439 = 1 not(TMP\_439) = 0 TMP\_440 = 1 not(TMP\_440) = 0 TMP\_441 = 0 not(TMP\_441) = 1 TMP\_442 = 1 not(TMP\_442) = 0 TMP\_443 = 4 TMP\_444 = 0 not(TMP\_444) = 1 TMP\_445 = 0 not(TMP\_445) = 1 TMP\_446 = 0 TMP\_447 = 1 not(TMP\_447) = 0 TMP\_448 = 1 not(TMP\_448) = 0 TMP\_449 = 2 TMP\_450 = 0 not(TMP\_450) = 1 TMP\_451 = 0 not(TMP\_451) = 1 TMP\_452 = 1 not(TMP\_452) = 0 TMP\_453 = 1 not(TMP\_453) = 0 TMP\_454 = 1 not(TMP\_454) = 0 TMP\_455 = 2 TMP\_456 = 1 not(TMP\_456) = 0 TMP\_457 = 0 not(TMP\_457) = 1 TMP\_458 = 1 not(TMP\_458) = 0 TMP\_459 = 1 not(TMP\_459) = 0 TMP\_460 = 0 not(TMP\_460) = 1 TMP\_461 = 1 not(TMP\_461) = 0 TMP\_462 = 4 TMP\_463 = 0 not(TMP\_463) = 1 TMP\_464 = 0 not(TMP\_464) = 1 TMP\_465 = 0 TMP\_466 = 1 not(TMP\_466) = 0 TMP\_467 = 1 not(TMP\_467) = 0 TMP\_468 = 2 TMP\_469 = 0 not(TMP\_469) = 1 TMP\_470 = 0 not(TMP\_470) = 1 TMP\_471 = 1 not(TMP\_471) = 0 TMP\_472 = 1 not(TMP\_472) = 0 TMP\_473 = 1 not(TMP\_473) = 0 TMP\_474 = 2 TMP\_475 = 1 not(TMP\_475) = 0 TMP\_476 = 0 not(TMP\_476) = 1 TMP\_477 = 1 not(TMP\_477) = 0 TMP\_478 = 1 not(TMP\_478) = 0 TMP\_479 = 0 not(TMP\_479) = 1 TMP\_480 = 1 not(TMP\_480) = 0 TMP\_481 = 4 TMP\_482 = 0 not(TMP\_482) = 1 TMP\_483 = 0 not(TMP\_483) = 1 TMP\_484 = 0 TMP\_485 = 1 not(TMP\_485) = 0 TMP\_486 = 1 not(TMP\_486) = 0 TMP\_487 = 2 TMP\_488 = 0 not(TMP\_488) = 1 TMP\_489 = 0 not(TMP\_489) = 1 TMP\_490 = 1 not(TMP\_490) = 0 TMP\_491 = 1 not(TMP\_491) = 0 TMP\_492 = 1 not(TMP\_492) = 0 TMP\_493 = 2 TMP\_494 = 1 not(TMP\_494) = 0 TMP\_495 = 1 not(TMP\_495) = 0 TMP\_496 = 1 not(TMP\_496) = 0 TMP\_497 = 1 not(TMP\_497) = 0 TMP\_498 = 0 not(TMP\_498) = 1 TMP\_499 = 1 not(TMP\_499) = 0 TMP\_500 = 5 TMP\_501 = 0 not(TMP\_501) = 1 TMP\_502 = 0 not(TMP\_502) = 1 TMP\_503 = 0 TMP\_504 = 1 not(TMP\_504) = 0 TMP\_505 = 1 not(TMP\_505) = 0 TMP\_506 = 2 TMP\_507 = 0 not(TMP\_507) = 1 TMP\_508 = 0 not(TMP\_508) = 1 TMP\_509 = 1 not(TMP\_509) = 0 TMP\_510 = 1 not(TMP\_510) = 0 TMP\_511 = 1 not(TMP\_511) = 0 TMP\_512 = 2 TMP\_513 = 1 not(TMP\_513) = 0 TMP\_514 = 0 not(TMP\_514) = 1 TMP\_515 = 1 not(TMP\_515) = 0 TMP\_516 = 1 not(TMP\_516) = 0 TMP\_517 = 1 not(TMP\_517) = 0 TMP\_518 = 1 not(TMP\_518) = 0 TMP\_519 = 5 TMP\_520 = 0 not(TMP\_520) = 1 TMP\_521 = 0 not(TMP\_521) = 1 TMP\_522 = 0 TMP\_523 = 1 not(TMP\_523) = 0 TMP\_524 = 1 not(TMP\_524) = 0 TMP\_525 = 2 TMP\_526 = 0 not(TMP\_526) = 1 TMP\_527 = 0 not(TMP\_527) = 1 TMP\_528 = 1 not(TMP\_528) = 0 TMP\_529 = 1 not(TMP\_529) = 0 TMP\_530 = 1 not(TMP\_530) = 0 TMP\_531 = 2 Area\_0 = 60 Distance\_0\_Rule\_0 = 20 Distance\_1\_Rule\_0 = 3 Distance\_2\_Rule\_0 = 1 Area\_1 = 174 Distance\_0\_Rule\_1 = 58 Distance\_1\_Rule\_1 = 3 Distance\_2\_Rule\_1 = 1 Area\_2 = 116 Distance\_0\_Rule\_2 = 58 Distance\_1\_Rule\_2 = 2 Distance\_2\_Rule\_2 = 1 Area\_3 = 58 Distance\_0\_Rule\_3 = 58 Distance\_1\_Rule\_3 = 1 Distance\_2\_Rule\_3 = 1 Area\_4 = 123 -(Rule\_4\_LB) = -79 Distance\_0\_Rule\_4 = 41 -(Rule\_4\_LB) = 0 Distance\_1\_Rule\_4 = 3 -(Rule\_4\_LB) = 0 Distance\_2\_Rule\_4 = 1 Area\_5 = 63 -(Rule\_5\_LB) = 0 Distance\_0\_Rule\_5 = 21 -(Rule\_5\_LB) = 0 Distance\_1\_Rule\_5 = 3 -(Rule\_5\_LB) = 0 Distance\_2\_Rule\_5 = 1 Area\_6 = 123 -(Rule\_6\_LB) = -79 Distance\_0\_Rule\_6 = 41 -(Rule\_6\_LB) = 0 Distance\_1\_Rule\_6 = 3 -(Rule\_6\_LB) = -1 Distance\_2\_Rule\_6 = 1 Area\_7 = 3 -(Rule\_7\_LB) = -20 Distance\_0\_Rule\_7 = 1 -(Rule\_7\_LB) = 0 Distance\_1\_Rule\_7 = 3 -(Rule\_7\_LB) = -1 Distance\_2\_Rule\_7 = 1 TMP\_532 = 720 .

- Solution #11 found. 11 Solutions, Resolution 0.333s, 99 Nodes (297.7 n/s), 125 Backtracks, 58 Fails, 0 Restarts

Rule\_4\_LB = 79 Rule\_4\_UB = 120 Rule\_4\_LB = 0 Rule\_4\_UB = 3 Rule\_4\_LB = 0 Rule\_4\_UB = 1 Rule\_5\_LB = 0 Rule\_5\_UB = 21 Rule\_5\_LB = 0 Rule\_5\_UB = 3 Rule\_5\_LB = 0 Rule\_5\_UB = 1 Rule\_6\_LB = 79 Rule\_6\_UB = 120 Rule\_6\_LB = 0 Rule\_6\_UB = 3 Rule\_6\_LB = 1 Rule\_6\_UB = 2 Rule\_7\_LB = 20 Rule\_7\_UB = 21 Rule\_7\_LB = 0 Rule\_7\_UB = 3 Rule\_7\_LB = 1 Rule\_7\_UB = 2 Overlaps\_0\_0 = 0 Overlaps\_0\_1 = 1 Overlaps\_0\_2 = 0 Overlaps\_0\_3 = 0 Overlaps\_0\_4 = 0 Overlaps\_0\_5 = 0 Overlaps\_0\_6 = 0 Overlaps\_0\_7 = 0 Overlaps\_1\_0 = 0 Overlaps\_1\_1 = 0 Overlaps\_1\_2 = 0 Overlaps\_1\_3 = 0 Overlaps\_1\_4 = 0 Overlaps\_1\_5 = 0 Overlaps\_1\_6 = 0 Overlaps\_1\_7 = 0 Overlaps\_2\_0 = 0 Overlaps\_2\_1 = 1 Overlaps\_2\_2 = 0 Overlaps\_2\_3 = 0 Overlaps\_2\_4 = 0 Overlaps\_2\_5 = 0 Overlaps\_2\_6 = 0 Overlaps\_2\_7 = 0 Overlaps\_3\_0 = 0 Overlaps\_3\_1 = 0 Overlaps\_3\_2 = 0 Overlaps\_3\_3 = 0 Overlaps\_3\_4 = 0 Overlaps\_3\_5 = 0 Overlaps\_3\_6 = 0 Overlaps\_3\_7 = 0 Overlaps\_4\_0 = 0 Overlaps\_4\_1 = 0 Overlaps\_4\_2 = 0 Overlaps\_4\_3 = 0 Overlaps\_4\_4 = 0 Overlaps\_4\_5 = 0 Overlaps\_4\_6 = 0 Overlaps\_4\_7 = 0 Overlaps\_5\_0 = 0 Overlaps\_5\_1 = 0 Overlaps\_5\_2 = 0 Overlaps\_5\_3 = 0 Overlaps\_5\_4 = 0 Overlaps\_5\_5 = 0 Overlaps\_5\_6 = 0 Overlaps\_5\_7 = 0 Overlaps\_6\_0 = 0 Overlaps\_6\_1 = 0 Overlaps\_6\_2 = 0 Overlaps\_6\_3 = 0 Overlaps\_6\_4 = 0 Overlaps\_6\_5 = 0 Overlaps\_6\_6 = 0 Overlaps\_6\_7 = 0 Overlaps\_7\_0 = 0 Overlaps\_7\_1 = 0 Overlaps\_7\_2 = 0 Overlaps\_7\_3 = 0 Overlaps\_7\_4 = 0 Overlaps\_7\_5 = 0 Overlaps\_7\_6 = 0 Overlaps\_7\_7 = 0 TMP\_0 = 0 not(TMP\_0) = 1 TMP\_1 = 1 not(TMP\_1) = 0 TMP\_2 = 1 not(TMP\_2) = 0 TMP\_3 = 1 not(TMP\_3) = 0 TMP\_4 = 1 not(TMP\_4) = 0 TMP\_5 = 0 not(TMP\_5) = 1 TMP\_6 = 4 TMP\_7 = 0 not(TMP\_7) = 1 TMP\_8 = 0 not(TMP\_8) = 1 TMP\_9 = 0 TMP\_10 = 1 not(TMP\_10) = 0 TMP\_11 = 1 not(TMP\_11) = 0 TMP\_12 = 2 TMP\_13 = 0 not(TMP\_13) = 1 TMP\_14 = 0 not(TMP\_14) = 1 TMP\_15 = 1 not(TMP\_15) = 0 TMP\_16 = 1 not(TMP\_16) = 0 TMP\_17 = 1 not(TMP\_17) = 0 TMP\_18 = 2 TMP\_19 = 0 not(TMP\_19) = 1 TMP\_20 = 1 not(TMP\_20) = 0 TMP\_21 = 1 not(TMP\_21) = 0 TMP\_22 = 1 not(TMP\_22) = 0 TMP\_23 = 1 not(TMP\_23) = 0 TMP\_24 = 0 not(TMP\_24) = 1 TMP\_25 = 4 TMP\_26 = 0 not(TMP\_26) = 1 TMP\_27 = 0 not(TMP\_27) = 1 TMP\_28 = 0 TMP\_29 = 1 not(TMP\_29) = 0 TMP\_30 = 1 not(TMP\_30) = 0 TMP\_31 = 2 TMP\_32 = 0 not(TMP\_32) = 1 TMP\_33 = 0 not(TMP\_33) = 1 TMP\_34 = 1 not(TMP\_34) = 0 TMP\_35 = 1 not(TMP\_35) = 0 TMP\_36 = 1 not(TMP\_36) = 0 TMP\_37 = 2 TMP\_38 = 0 not(TMP\_38) = 1 TMP\_39 = 1 not(TMP\_39) = 0 TMP\_40 = 1 not(TMP\_40) = 0 TMP\_41 = 1 not(TMP\_41) = 0 TMP\_42 = 1 not(TMP\_42) = 0 TMP\_43 = 1 not(TMP\_43) = 0 TMP\_44 = 5 TMP\_45 = 0 not(TMP\_45) = 1 TMP\_46 = 0 not(TMP\_46) = 1 TMP\_47 = 0 TMP\_48 = 1 not(TMP\_48) = 0 TMP\_49 = 1 not(TMP\_49) = 0 TMP\_50 = 2 TMP\_51 = 0 not(TMP\_51) = 1 TMP\_52 = 0 not(TMP\_52) = 1 TMP\_53 = 1 not(TMP\_53) = 0 TMP\_54 = 1 not(TMP\_54) = 0 TMP\_55 = 1 not(TMP\_55) = 0 TMP\_56 = 2 TMP\_57 = 0 not(TMP\_57) = 1 TMP\_58 = 1 not(TMP\_58) = 0 TMP\_59 = 1 not(TMP\_59) = 0 TMP\_60 = 1 not(TMP\_60) = 0 TMP\_61 = 1 not(TMP\_61) = 0 TMP\_62 = 1 not(TMP\_62) = 0 TMP\_63 = 5 TMP\_64 = 0 not(TMP\_64) = 1 TMP\_65 = 0 not(TMP\_65) = 1 TMP\_66 = 0 TMP\_67 = 1 not(TMP\_67) = 0 TMP\_68 = 1 not(TMP\_68) = 0 TMP\_69 = 2 TMP\_70 = 0 not(TMP\_70) = 1 TMP\_71 = 0 not(TMP\_71) = 1 TMP\_72 = 1 not(TMP\_72) = 0 TMP\_73 = 1 not(TMP\_73) = 0 TMP\_74 = 1 not(TMP\_74) = 0 TMP\_75 = 2 TMP\_76 = 0 not(TMP\_76) = 1 TMP\_77 = 1 not(TMP\_77) = 0 TMP\_78 = 1 not(TMP\_78) = 0 TMP\_79 = 1 not(TMP\_79) = 0 TMP\_80 = 1 not(TMP\_80) = 0 TMP\_81 = 1 not(TMP\_81) = 0 TMP\_82 = 5 TMP\_83 = 0 not(TMP\_83) = 1 TMP\_84 = 0 not(TMP\_84) = 1 TMP\_85 = 0 TMP\_86 = 1 not(TMP\_86) = 0 TMP\_87 = 1 not(TMP\_87) = 0 TMP\_88 = 2 TMP\_89 = 0 not(TMP\_89) = 1 TMP\_90 = 0 not(TMP\_90) = 1 TMP\_91 = 1 not(TMP\_91) = 0 TMP\_92 = 1 not(TMP\_92) = 0 TMP\_93 = 1 not(TMP\_93) = 0 TMP\_94 = 2 TMP\_95 = 1 not(TMP\_95) = 0 TMP\_96 = 1 not(TMP\_96) = 0 TMP\_97 = 1 not(TMP\_97) = 0 TMP\_98 = 1 not(TMP\_98) = 0 TMP\_99 = 1 not(TMP\_99) = 0 TMP\_100 = 0 not(TMP\_100) = 1 TMP\_101 = 5 TMP\_102 = 0 not(TMP\_102) = 1 TMP\_103 = 0 not(TMP\_103) = 1 TMP\_104 = 0 TMP\_105 = 1 not(TMP\_105) = 0 TMP\_106 = 1 not(TMP\_106) = 0 TMP\_107 = 2 TMP\_108 = 0 not(TMP\_108) = 1 TMP\_109 = 0 not(TMP\_109) = 1 TMP\_110 = 1 not(TMP\_110) = 0 TMP\_111 = 1 not(TMP\_111) = 0 TMP\_112 = 1 not(TMP\_112) = 0 TMP\_113 = 2 TMP\_114 = 0 not(TMP\_114) = 1 TMP\_115 = 1 not(TMP\_115) = 0 TMP\_116 = 1 not(TMP\_116) = 0 TMP\_117 = 1 not(TMP\_117) = 0 TMP\_118 = 1 not(TMP\_118) = 0 TMP\_119 = 0 not(TMP\_119) = 1 TMP\_120 = 4 TMP\_121 = 0 not(TMP\_121) = 1 TMP\_122 = 0 not(TMP\_122) = 1 TMP\_123 = 0 TMP\_124 = 1 not(TMP\_124) = 0 TMP\_125 = 1 not(TMP\_125) = 0 TMP\_126 = 2 TMP\_127 = 0 not(TMP\_127) = 1 TMP\_128 = 0 not(TMP\_128) = 1 TMP\_129 = 1 not(TMP\_129) = 0 TMP\_130 = 1 not(TMP\_130) = 0 TMP\_131 = 1 not(TMP\_131) = 0 TMP\_132 = 2 TMP\_133 = 1 not(TMP\_133) = 0 TMP\_134 = 1 not(TMP\_134) = 0 TMP\_135 = 1 not(TMP\_135) = 0 TMP\_136 = 1 not(TMP\_136) = 0 TMP\_137 = 1 not(TMP\_137) = 0 TMP\_138 = 0 not(TMP\_138) = 1 TMP\_139 = 5 TMP\_140 = 0 not(TMP\_140) = 1 TMP\_141 = 0 not(TMP\_141) = 1 TMP\_142 = 0 TMP\_143 = 1 not(TMP\_143) = 0 TMP\_144 = 1 not(TMP\_144) = 0 TMP\_145 = 2 TMP\_146 = 0 not(TMP\_146) = 1 TMP\_147 = 0 not(TMP\_147) = 1 TMP\_148 = 1 not(TMP\_148) = 0 TMP\_149 = 1 not(TMP\_149) = 0 TMP\_150 = 1 not(TMP\_150) = 0 TMP\_151 = 2 TMP\_152 = 1 not(TMP\_152) = 0 TMP\_153 = 0 not(TMP\_153) = 1 TMP\_154 = 1 not(TMP\_154) = 0 TMP\_155 = 1 not(TMP\_155) = 0 TMP\_156 = 1 not(TMP\_156) = 0 TMP\_157 = 0 not(TMP\_157) = 1 TMP\_158 = 4 TMP\_159 = 0 not(TMP\_159) = 1 TMP\_160 = 0 not(TMP\_160) = 1 TMP\_161 = 0 TMP\_162 = 1 not(TMP\_162) = 0 TMP\_163 = 1 not(TMP\_163) = 0 TMP\_164 = 2 TMP\_165 = 0 not(TMP\_165) = 1 TMP\_166 = 0 not(TMP\_166) = 1 TMP\_167 = 1 not(TMP\_167) = 0 TMP\_168 = 1 not(TMP\_168) = 0 TMP\_169 = 1 not(TMP\_169) = 0 TMP\_170 = 2 TMP\_171 = 1 not(TMP\_171) = 0 TMP\_172 = 0 not(TMP\_172) = 1 TMP\_173 = 1 not(TMP\_173) = 0 TMP\_174 = 1 not(TMP\_174) = 0 TMP\_175 = 1 not(TMP\_175) = 0 TMP\_176 = 1 not(TMP\_176) = 0 TMP\_177 = 5 TMP\_178 = 0 not(TMP\_178) = 1 TMP\_179 = 0 not(TMP\_179) = 1 TMP\_180 = 0 TMP\_181 = 1 not(TMP\_181) = 0 TMP\_182 = 1 not(TMP\_182) = 0 TMP\_183 = 2 TMP\_184 = 0 not(TMP\_184) = 1 TMP\_185 = 0 not(TMP\_185) = 1 TMP\_186 = 1 not(TMP\_186) = 0 TMP\_187 = 1 not(TMP\_187) = 0 TMP\_188 = 1 not(TMP\_188) = 0 TMP\_189 = 2 TMP\_190 = 1 not(TMP\_190) = 0 TMP\_191 = 0 not(TMP\_191) = 1 TMP\_192 = 1 not(TMP\_192) = 0 TMP\_193 = 1 not(TMP\_193) = 0 TMP\_194 = 1 not(TMP\_194) = 0 TMP\_195 = 1 not(TMP\_195) = 0 TMP\_196 = 5 TMP\_197 = 0 not(TMP\_197) = 1 TMP\_198 = 0 not(TMP\_198) = 1 TMP\_199 = 0 TMP\_200 = 1 not(TMP\_200) = 0 TMP\_201 = 1 not(TMP\_201) = 0 TMP\_202 = 2 TMP\_203 = 0 not(TMP\_203) = 1 TMP\_204 = 0 not(TMP\_204) = 1 TMP\_205 = 1 not(TMP\_205) = 0 TMP\_206 = 1 not(TMP\_206) = 0 TMP\_207 = 1 not(TMP\_207) = 0 TMP\_208 = 2 TMP\_209 = 1 not(TMP\_209) = 0 TMP\_210 = 0 not(TMP\_210) = 1 TMP\_211 = 1 not(TMP\_211) = 0 TMP\_212 = 1 not(TMP\_212) = 0 TMP\_213 = 1 not(TMP\_213) = 0 TMP\_214 = 1 not(TMP\_214) = 0 TMP\_215 = 5 TMP\_216 = 0 not(TMP\_216) = 1 TMP\_217 = 0 not(TMP\_217) = 1 TMP\_218 = 0 TMP\_219 = 1 not(TMP\_219) = 0 TMP\_220 = 1 not(TMP\_220) = 0 TMP\_221 = 2 TMP\_222 = 0 not(TMP\_222) = 1 TMP\_223 = 0 not(TMP\_223) = 1 TMP\_224 = 1 not(TMP\_224) = 0 TMP\_225 = 1 not(TMP\_225) = 0 TMP\_226 = 1 not(TMP\_226) = 0 TMP\_227 = 2 TMP\_228 = 1 not(TMP\_228) = 0 TMP\_229 = 0 not(TMP\_229) = 1 TMP\_230 = 1 not(TMP\_230) = 0 TMP\_231 = 1 not(TMP\_231) = 0 TMP\_232 = 1 not(TMP\_232) = 0 TMP\_233 = 0 not(TMP\_233) = 1 TMP\_234 = 4 TMP\_235 = 0 not(TMP\_235) = 1 TMP\_236 = 0 not(TMP\_236) = 1 TMP\_237 = 0 TMP\_238 = 1 not(TMP\_238) = 0 TMP\_239 = 1 not(TMP\_239) = 0 TMP\_240 = 2 TMP\_241 = 0 not(TMP\_241) = 1 TMP\_242 = 0 not(TMP\_242) = 1 TMP\_243 = 1 not(TMP\_243) = 0 TMP\_244 = 1 not(TMP\_244) = 0 TMP\_245 = 1 not(TMP\_245) = 0 TMP\_246 = 2 TMP\_247 = 1 not(TMP\_247) = 0 TMP\_248 = 1 not(TMP\_248) = 0 TMP\_249 = 1 not(TMP\_249) = 0 TMP\_250 = 1 not(TMP\_250) = 0 TMP\_251 = 1 not(TMP\_251) = 0 TMP\_252 = 0 not(TMP\_252) = 1 TMP\_253 = 5 TMP\_254 = 0 not(TMP\_254) = 1 TMP\_255 = 0 not(TMP\_255) = 1 TMP\_256 = 0 TMP\_257 = 1 not(TMP\_257) = 0 TMP\_258 = 1 not(TMP\_258) = 0 TMP\_259 = 2 TMP\_260 = 0 not(TMP\_260) = 1 TMP\_261 = 0 not(TMP\_261) = 1 TMP\_262 = 1 not(TMP\_262) = 0 TMP\_263 = 1 not(TMP\_263) = 0 TMP\_264 = 1 not(TMP\_264) = 0 TMP\_265 = 2 TMP\_266 = 0 not(TMP\_266) = 1 TMP\_267 = 1 not(TMP\_267) = 0 TMP\_268 = 1 not(TMP\_268) = 0 TMP\_269 = 1 not(TMP\_269) = 0 TMP\_270 = 1 not(TMP\_270) = 0 TMP\_271 = 1 not(TMP\_271) = 0 TMP\_272 = 5 TMP\_273 = 0 not(TMP\_273) = 1 TMP\_274 = 0 not(TMP\_274) = 1 TMP\_275 = 0 TMP\_276 = 1 not(TMP\_276) = 0 TMP\_277 = 1 not(TMP\_277) = 0 TMP\_278 = 2 TMP\_279 = 0 not(TMP\_279) = 1 TMP\_280 = 0 not(TMP\_280) = 1 TMP\_281 = 1 not(TMP\_281) = 0 TMP\_282 = 1 not(TMP\_282) = 0 TMP\_283 = 1 not(TMP\_283) = 0 TMP\_284 = 2 TMP\_285 = 0 not(TMP\_285) = 1 TMP\_286 = 1 not(TMP\_286) = 0 TMP\_287 = 1 not(TMP\_287) = 0 TMP\_288 = 1 not(TMP\_288) = 0 TMP\_289 = 1 not(TMP\_289) = 0 TMP\_290 = 1 not(TMP\_290) = 0 TMP\_291 = 5 TMP\_292 = 0 not(TMP\_292) = 1 TMP\_293 = 0 not(TMP\_293) = 1 TMP\_294 = 0 TMP\_295 = 1 not(TMP\_295) = 0 TMP\_296 = 1 not(TMP\_296) = 0 TMP\_297 = 2 TMP\_298 = 0 not(TMP\_298) = 1 TMP\_299 = 0 not(TMP\_299) = 1 TMP\_300 = 1 not(TMP\_300) = 0 TMP\_301 = 1 not(TMP\_301) = 0 TMP\_302 = 1 not(TMP\_302) = 0 TMP\_303 = 2 TMP\_304 = 0 not(TMP\_304) = 1 TMP\_305 = 1 not(TMP\_305) = 0 TMP\_306 = 1 not(TMP\_306) = 0 TMP\_307 = 1 not(TMP\_307) = 0 TMP\_308 = 0 not(TMP\_308) = 1 TMP\_309 = 1 not(TMP\_309) = 0 TMP\_310 = 4 TMP\_311 = 0 not(TMP\_311) = 1 TMP\_312 = 0 not(TMP\_312) = 1 TMP\_313 = 0 TMP\_314 = 1 not(TMP\_314) = 0 TMP\_315 = 1 not(TMP\_315) = 0 TMP\_316 = 2 TMP\_317 = 0 not(TMP\_317) = 1 TMP\_318 = 0 not(TMP\_318) = 1 TMP\_319 = 1 not(TMP\_319) = 0 TMP\_320 = 1 not(TMP\_320) = 0 TMP\_321 = 1 not(TMP\_321) = 0 TMP\_322 = 2 TMP\_323 = 0 not(TMP\_323) = 1 TMP\_324 = 1 not(TMP\_324) = 0 TMP\_325 = 1 not(TMP\_325) = 0 TMP\_326 = 1 not(TMP\_326) = 0 TMP\_327 = 0 not(TMP\_327) = 1 TMP\_328 = 1 not(TMP\_328) = 0 TMP\_329 = 4 TMP\_330 = 0 not(TMP\_330) = 1 TMP\_331 = 0 not(TMP\_331) = 1 TMP\_332 = 0 TMP\_333 = 1 not(TMP\_333) = 0 TMP\_334 = 1 not(TMP\_334) = 0 TMP\_335 = 2 TMP\_336 = 0 not(TMP\_336) = 1 TMP\_337 = 0 not(TMP\_337) = 1 TMP\_338 = 1 not(TMP\_338) = 0 TMP\_339 = 1 not(TMP\_339) = 0 TMP\_340 = 1 not(TMP\_340) = 0 TMP\_341 = 2 TMP\_342 = 1 not(TMP\_342) = 0 TMP\_343 = 1 not(TMP\_343) = 0 TMP\_344 = 1 not(TMP\_344) = 0 TMP\_345 = 1 not(TMP\_345) = 0 TMP\_346 = 0 not(TMP\_346) = 1 TMP\_347 = 1 not(TMP\_347) = 0 TMP\_348 = 5 TMP\_349 = 0 not(TMP\_349) = 1 TMP\_350 = 0 not(TMP\_350) = 1 TMP\_351 = 0 TMP\_352 = 1 not(TMP\_352) = 0 TMP\_353 = 1 not(TMP\_353) = 0 TMP\_354 = 2 TMP\_355 = 0 not(TMP\_355) = 1 TMP\_356 = 0 not(TMP\_356) = 1 TMP\_357 = 1 not(TMP\_357) = 0 TMP\_358 = 1 not(TMP\_358) = 0 TMP\_359 = 1 not(TMP\_359) = 0 TMP\_360 = 2 TMP\_361 = 0 not(TMP\_361) = 1 TMP\_362 = 1 not(TMP\_362) = 0 TMP\_363 = 1 not(TMP\_363) = 0 TMP\_364 = 1 not(TMP\_364) = 0 TMP\_365 = 0 not(TMP\_365) = 1 TMP\_366 = 1 not(TMP\_366) = 0 TMP\_367 = 4 TMP\_368 = 0 not(TMP\_368) = 1 TMP\_369 = 0 not(TMP\_369) = 1 TMP\_370 = 0 TMP\_371 = 1 not(TMP\_371) = 0 TMP\_372 = 1 not(TMP\_372) = 0 TMP\_373 = 2 TMP\_374 = 0 not(TMP\_374) = 1 TMP\_375 = 0 not(TMP\_375) = 1 TMP\_376 = 1 not(TMP\_376) = 0 TMP\_377 = 1 not(TMP\_377) = 0 TMP\_378 = 1 not(TMP\_378) = 0 TMP\_379 = 2 TMP\_380 = 0 not(TMP\_380) = 1 TMP\_381 = 1 not(TMP\_381) = 0 TMP\_382 = 1 not(TMP\_382) = 0 TMP\_383 = 1 not(TMP\_383) = 0 TMP\_384 = 1 not(TMP\_384) = 0 TMP\_385 = 1 not(TMP\_385) = 0 TMP\_386 = 5 TMP\_387 = 0 not(TMP\_387) = 1 TMP\_388 = 0 not(TMP\_388) = 1 TMP\_389 = 0 TMP\_390 = 1 not(TMP\_390) = 0 TMP\_391 = 1 not(TMP\_391) = 0 TMP\_392 = 2 TMP\_393 = 0 not(TMP\_393) = 1 TMP\_394 = 0 not(TMP\_394) = 1 TMP\_395 = 1 not(TMP\_395) = 0 TMP\_396 = 1 not(TMP\_396) = 0 TMP\_397 = 1 not(TMP\_397) = 0 TMP\_398 = 2 TMP\_399 = 0 not(TMP\_399) = 1 TMP\_400 = 1 not(TMP\_400) = 0 TMP\_401 = 1 not(TMP\_401) = 0 TMP\_402 = 1 not(TMP\_402) = 0 TMP\_403 = 1 not(TMP\_403) = 0 TMP\_404 = 1 not(TMP\_404) = 0 TMP\_405 = 5 TMP\_406 = 0 not(TMP\_406) = 1 TMP\_407 = 0 not(TMP\_407) = 1 TMP\_408 = 0 TMP\_409 = 1 not(TMP\_409) = 0 TMP\_410 = 1 not(TMP\_410) = 0 TMP\_411 = 2 TMP\_412 = 0 not(TMP\_412) = 1 TMP\_413 = 0 not(TMP\_413) = 1 TMP\_414 = 1 not(TMP\_414) = 0 TMP\_415 = 1 not(TMP\_415) = 0 TMP\_416 = 1 not(TMP\_416) = 0 TMP\_417 = 2 TMP\_418 = 1 not(TMP\_418) = 0 TMP\_419 = 0 not(TMP\_419) = 1 TMP\_420 = 1 not(TMP\_420) = 0 TMP\_421 = 1 not(TMP\_421) = 0 TMP\_422 = 1 not(TMP\_422) = 0 TMP\_423 = 1 not(TMP\_423) = 0 TMP\_424 = 5 TMP\_425 = 0 not(TMP\_425) = 1 TMP\_426 = 0 not(TMP\_426) = 1 TMP\_427 = 0 TMP\_428 = 1 not(TMP\_428) = 0 TMP\_429 = 1 not(TMP\_429) = 0 TMP\_430 = 2 TMP\_431 = 0 not(TMP\_431) = 1 TMP\_432 = 0 not(TMP\_432) = 1 TMP\_433 = 1 not(TMP\_433) = 0 TMP\_434 = 1 not(TMP\_434) = 0 TMP\_435 = 1 not(TMP\_435) = 0 TMP\_436 = 2 TMP\_437 = 1 not(TMP\_437) = 0 TMP\_438 = 0 not(TMP\_438) = 1 TMP\_439 = 1 not(TMP\_439) = 0 TMP\_440 = 1 not(TMP\_440) = 0 TMP\_441 = 0 not(TMP\_441) = 1 TMP\_442 = 1 not(TMP\_442) = 0 TMP\_443 = 4 TMP\_444 = 0 not(TMP\_444) = 1 TMP\_445 = 0 not(TMP\_445) = 1 TMP\_446 = 0 TMP\_447 = 1 not(TMP\_447) = 0 TMP\_448 = 1 not(TMP\_448) = 0 TMP\_449 = 2 TMP\_450 = 0 not(TMP\_450) = 1 TMP\_451 = 0 not(TMP\_451) = 1 TMP\_452 = 1 not(TMP\_452) = 0 TMP\_453 = 1 not(TMP\_453) = 0 TMP\_454 = 1 not(TMP\_454) = 0 TMP\_455 = 2 TMP\_456 = 1 not(TMP\_456) = 0 TMP\_457 = 0 not(TMP\_457) = 1 TMP\_458 = 1 not(TMP\_458) = 0 TMP\_459 = 1 not(TMP\_459) = 0 TMP\_460 = 0 not(TMP\_460) = 1 TMP\_461 = 1 not(TMP\_461) = 0 TMP\_462 = 4 TMP\_463 = 0 not(TMP\_463) = 1 TMP\_464 = 0 not(TMP\_464) = 1 TMP\_465 = 0 TMP\_466 = 1 not(TMP\_466) = 0 TMP\_467 = 1 not(TMP\_467) = 0 TMP\_468 = 2 TMP\_469 = 0 not(TMP\_469) = 1 TMP\_470 = 0 not(TMP\_470) = 1 TMP\_471 = 1 not(TMP\_471) = 0 TMP\_472 = 1 not(TMP\_472) = 0 TMP\_473 = 1 not(TMP\_473) = 0 TMP\_474 = 2 TMP\_475 = 1 not(TMP\_475) = 0 TMP\_476 = 0 not(TMP\_476) = 1 TMP\_477 = 1 not(TMP\_477) = 0 TMP\_478 = 1 not(TMP\_478) = 0 TMP\_479 = 0 not(TMP\_479) = 1 TMP\_480 = 1 not(TMP\_480) = 0 TMP\_481 = 4 TMP\_482 = 0 not(TMP\_482) = 1 TMP\_483 = 0 not(TMP\_483) = 1 TMP\_484 = 0 TMP\_485 = 1 not(TMP\_485) = 0 TMP\_486 = 1 not(TMP\_486) = 0 TMP\_487 = 2 TMP\_488 = 0 not(TMP\_488) = 1 TMP\_489 = 0 not(TMP\_489) = 1 TMP\_490 = 1 not(TMP\_490) = 0 TMP\_491 = 1 not(TMP\_491) = 0 TMP\_492 = 1 not(TMP\_492) = 0 TMP\_493 = 2 TMP\_494 = 1 not(TMP\_494) = 0 TMP\_495 = 1 not(TMP\_495) = 0 TMP\_496 = 1 not(TMP\_496) = 0 TMP\_497 = 1 not(TMP\_497) = 0 TMP\_498 = 0 not(TMP\_498) = 1 TMP\_499 = 1 not(TMP\_499) = 0 TMP\_500 = 5 TMP\_501 = 0 not(TMP\_501) = 1 TMP\_502 = 0 not(TMP\_502) = 1 TMP\_503 = 0 TMP\_504 = 1 not(TMP\_504) = 0 TMP\_505 = 1 not(TMP\_505) = 0 TMP\_506 = 2 TMP\_507 = 0 not(TMP\_507) = 1 TMP\_508 = 0 not(TMP\_508) = 1 TMP\_509 = 1 not(TMP\_509) = 0 TMP\_510 = 1 not(TMP\_510) = 0 TMP\_511 = 1 not(TMP\_511) = 0 TMP\_512 = 2 TMP\_513 = 1 not(TMP\_513) = 0 TMP\_514 = 0 not(TMP\_514) = 1 TMP\_515 = 1 not(TMP\_515) = 0 TMP\_516 = 1 not(TMP\_516) = 0 TMP\_517 = 1 not(TMP\_517) = 0 TMP\_518 = 1 not(TMP\_518) = 0 TMP\_519 = 5 TMP\_520 = 0 not(TMP\_520) = 1 TMP\_521 = 0 not(TMP\_521) = 1 TMP\_522 = 0 TMP\_523 = 1 not(TMP\_523) = 0 TMP\_524 = 1 not(TMP\_524) = 0 TMP\_525 = 2 TMP\_526 = 0 not(TMP\_526) = 1 TMP\_527 = 0 not(TMP\_527) = 1 TMP\_528 = 1 not(TMP\_528) = 0 TMP\_529 = 1 not(TMP\_529) = 0 TMP\_530 = 1 not(TMP\_530) = 0 TMP\_531 = 2 Area\_0 = 60 Distance\_0\_Rule\_0 = 20 Distance\_1\_Rule\_0 = 3 Distance\_2\_Rule\_0 = 1 Area\_1 = 174 Distance\_0\_Rule\_1 = 58 Distance\_1\_Rule\_1 = 3 Distance\_2\_Rule\_1 = 1 Area\_2 = 116 Distance\_0\_Rule\_2 = 58 Distance\_1\_Rule\_2 = 2 Distance\_2\_Rule\_2 = 1 Area\_3 = 58 Distance\_0\_Rule\_3 = 58 Distance\_1\_Rule\_3 = 1 Distance\_2\_Rule\_3 = 1 Area\_4 = 123 -(Rule\_4\_LB) = -79 Distance\_0\_Rule\_4 = 41 -(Rule\_4\_LB) = 0 Distance\_1\_Rule\_4 = 3 -(Rule\_4\_LB) = 0 Distance\_2\_Rule\_4 = 1 Area\_5 = 63 -(Rule\_5\_LB) = 0 Distance\_0\_Rule\_5 = 21 -(Rule\_5\_LB) = 0 Distance\_1\_Rule\_5 = 3 -(Rule\_5\_LB) = 0 Distance\_2\_Rule\_5 = 1 Area\_6 = 123 -(Rule\_6\_LB) = -79 Distance\_0\_Rule\_6 = 41 -(Rule\_6\_LB) = 0 Distance\_1\_Rule\_6 = 3 -(Rule\_6\_LB) = -1 Distance\_2\_Rule\_6 = 1 Area\_7 = 3 -(Rule\_7\_LB) = -20 Distance\_0\_Rule\_7 = 1 -(Rule\_7\_LB) = 0 Distance\_1\_Rule\_7 = 3 -(Rule\_7\_LB) = -1 Distance\_2\_Rule\_7 = 1 TMP\_532 = 720 .

- Solution #12 found. 12 Solutions, Resolution 0.335s, 100 Nodes (298.3 n/s), 126 Backtracks, 58 Fails, 0 Restarts

Rule\_4\_LB = 79 Rule\_4\_UB = 120 Rule\_4\_LB = 0 Rule\_4\_UB = 3 Rule\_4\_LB = 0 Rule\_4\_UB = 1 Rule\_5\_LB = 0 Rule\_5\_UB = 21 Rule\_5\_LB = 0 Rule\_5\_UB = 3 Rule\_5\_LB = 0 Rule\_5\_UB = 1 Rule\_6\_LB = 79 Rule\_6\_UB = 120 Rule\_6\_LB = 0 Rule\_6\_UB = 3 Rule\_6\_LB = 1 Rule\_6\_UB = 2 Rule\_7\_LB = 20 Rule\_7\_UB = 21 Rule\_7\_LB = 0 Rule\_7\_UB = 3 Rule\_7\_LB = 1 Rule\_7\_UB = 2 Overlaps\_0\_0 = 0 Overlaps\_0\_1 = 1 Overlaps\_0\_2 = 0 Overlaps\_0\_3 = 0 Overlaps\_0\_4 = 0 Overlaps\_0\_5 = 0 Overlaps\_0\_6 = 0 Overlaps\_0\_7 = 0 Overlaps\_1\_0 = 0 Overlaps\_1\_1 = 0 Overlaps\_1\_2 = 0 Overlaps\_1\_3 = 0 Overlaps\_1\_4 = 0 Overlaps\_1\_5 = 0 Overlaps\_1\_6 = 0 Overlaps\_1\_7 = 0 Overlaps\_2\_0 = 0 Overlaps\_2\_1 = 1 Overlaps\_2\_2 = 0 Overlaps\_2\_3 = 0 Overlaps\_2\_4 = 0 Overlaps\_2\_5 = 0 Overlaps\_2\_6 = 0 Overlaps\_2\_7 = 0 Overlaps\_3\_0 = 1 Overlaps\_3\_1 = 0 Overlaps\_3\_2 = 0 Overlaps\_3\_3 = 0 Overlaps\_3\_4 = 0 Overlaps\_3\_5 = 0 Overlaps\_3\_6 = 0 Overlaps\_3\_7 = 0 Overlaps\_4\_0 = 0 Overlaps\_4\_1 = 0 Overlaps\_4\_2 = 0 Overlaps\_4\_3 = 0 Overlaps\_4\_4 = 0 Overlaps\_4\_5 = 0 Overlaps\_4\_6 = 0 Overlaps\_4\_7 = 0 Overlaps\_5\_0 = 0 Overlaps\_5\_1 = 0 Overlaps\_5\_2 = 0 Overlaps\_5\_3 = 0 Overlaps\_5\_4 = 0 Overlaps\_5\_5 = 0 Overlaps\_5\_6 = 0 Overlaps\_5\_7 = 0 Overlaps\_6\_0 = 0 Overlaps\_6\_1 = 0 Overlaps\_6\_2 = 0 Overlaps\_6\_3 = 0 Overlaps\_6\_4 = 0 Overlaps\_6\_5 = 0 Overlaps\_6\_6 = 0 Overlaps\_6\_7 = 0 Overlaps\_7\_0 = 0 Overlaps\_7\_1 = 0 Overlaps\_7\_2 = 0 Overlaps\_7\_3 = 0 Overlaps\_7\_4 = 0 Overlaps\_7\_5 = 0 Overlaps\_7\_6 = 0 Overlaps\_7\_7 = 0 TMP\_0 = 0 not(TMP\_0) = 1 TMP\_1 = 1 not(TMP\_1) = 0 TMP\_2 = 1 not(TMP\_2) = 0 TMP\_3 = 1 not(TMP\_3) = 0 TMP\_4 = 1 not(TMP\_4) = 0 TMP\_5 = 0 not(TMP\_5) = 1 TMP\_6 = 4 TMP\_7 = 0 not(TMP\_7) = 1 TMP\_8 = 0 not(TMP\_8) = 1 TMP\_9 = 0 TMP\_10 = 1 not(TMP\_10) = 0 TMP\_11 = 1 not(TMP\_11) = 0 TMP\_12 = 2 TMP\_13 = 0 not(TMP\_13) = 1 TMP\_14 = 0 not(TMP\_14) = 1 TMP\_15 = 1 not(TMP\_15) = 0 TMP\_16 = 1 not(TMP\_16) = 0 TMP\_17 = 1 not(TMP\_17) = 0 TMP\_18 = 2 TMP\_19 = 0 not(TMP\_19) = 1 TMP\_20 = 1 not(TMP\_20) = 0 TMP\_21 = 1 not(TMP\_21) = 0 TMP\_22 = 1 not(TMP\_22) = 0 TMP\_23 = 1 not(TMP\_23) = 0 TMP\_24 = 0 not(TMP\_24) = 1 TMP\_25 = 4 TMP\_26 = 0 not(TMP\_26) = 1 TMP\_27 = 0 not(TMP\_27) = 1 TMP\_28 = 0 TMP\_29 = 1 not(TMP\_29) = 0 TMP\_30 = 1 not(TMP\_30) = 0 TMP\_31 = 2 TMP\_32 = 0 not(TMP\_32) = 1 TMP\_33 = 0 not(TMP\_33) = 1 TMP\_34 = 1 not(TMP\_34) = 0 TMP\_35 = 1 not(TMP\_35) = 0 TMP\_36 = 1 not(TMP\_36) = 0 TMP\_37 = 2 TMP\_38 = 0 not(TMP\_38) = 1 TMP\_39 = 1 not(TMP\_39) = 0 TMP\_40 = 1 not(TMP\_40) = 0 TMP\_41 = 1 not(TMP\_41) = 0 TMP\_42 = 1 not(TMP\_42) = 0 TMP\_43 = 1 not(TMP\_43) = 0 TMP\_44 = 5 TMP\_45 = 0 not(TMP\_45) = 1 TMP\_46 = 0 not(TMP\_46) = 1 TMP\_47 = 0 TMP\_48 = 1 not(TMP\_48) = 0 TMP\_49 = 1 not(TMP\_49) = 0 TMP\_50 = 2 TMP\_51 = 0 not(TMP\_51) = 1 TMP\_52 = 0 not(TMP\_52) = 1 TMP\_53 = 1 not(TMP\_53) = 0 TMP\_54 = 1 not(TMP\_54) = 0 TMP\_55 = 1 not(TMP\_55) = 0 TMP\_56 = 2 TMP\_57 = 0 not(TMP\_57) = 1 TMP\_58 = 1 not(TMP\_58) = 0 TMP\_59 = 1 not(TMP\_59) = 0 TMP\_60 = 1 not(TMP\_60) = 0 TMP\_61 = 1 not(TMP\_61) = 0 TMP\_62 = 1 not(TMP\_62) = 0 TMP\_63 = 5 TMP\_64 = 0 not(TMP\_64) = 1 TMP\_65 = 0 not(TMP\_65) = 1 TMP\_66 = 0 TMP\_67 = 1 not(TMP\_67) = 0 TMP\_68 = 1 not(TMP\_68) = 0 TMP\_69 = 2 TMP\_70 = 0 not(TMP\_70) = 1 TMP\_71 = 0 not(TMP\_71) = 1 TMP\_72 = 1 not(TMP\_72) = 0 TMP\_73 = 1 not(TMP\_73) = 0 TMP\_74 = 1 not(TMP\_74) = 0 TMP\_75 = 2 TMP\_76 = 0 not(TMP\_76) = 1 TMP\_77 = 1 not(TMP\_77) = 0 TMP\_78 = 1 not(TMP\_78) = 0 TMP\_79 = 1 not(TMP\_79) = 0 TMP\_80 = 1 not(TMP\_80) = 0 TMP\_81 = 1 not(TMP\_81) = 0 TMP\_82 = 5 TMP\_83 = 0 not(TMP\_83) = 1 TMP\_84 = 0 not(TMP\_84) = 1 TMP\_85 = 0 TMP\_86 = 1 not(TMP\_86) = 0 TMP\_87 = 1 not(TMP\_87) = 0 TMP\_88 = 2 TMP\_89 = 0 not(TMP\_89) = 1 TMP\_90 = 0 not(TMP\_90) = 1 TMP\_91 = 1 not(TMP\_91) = 0 TMP\_92 = 1 not(TMP\_92) = 0 TMP\_93 = 1 not(TMP\_93) = 0 TMP\_94 = 2 TMP\_95 = 1 not(TMP\_95) = 0 TMP\_96 = 1 not(TMP\_96) = 0 TMP\_97 = 1 not(TMP\_97) = 0 TMP\_98 = 1 not(TMP\_98) = 0 TMP\_99 = 1 not(TMP\_99) = 0 TMP\_100 = 0 not(TMP\_100) = 1 TMP\_101 = 5 TMP\_102 = 0 not(TMP\_102) = 1 TMP\_103 = 0 not(TMP\_103) = 1 TMP\_104 = 0 TMP\_105 = 1 not(TMP\_105) = 0 TMP\_106 = 1 not(TMP\_106) = 0 TMP\_107 = 2 TMP\_108 = 0 not(TMP\_108) = 1 TMP\_109 = 0 not(TMP\_109) = 1 TMP\_110 = 1 not(TMP\_110) = 0 TMP\_111 = 1 not(TMP\_111) = 0 TMP\_112 = 1 not(TMP\_112) = 0 TMP\_113 = 2 TMP\_114 = 0 not(TMP\_114) = 1 TMP\_115 = 1 not(TMP\_115) = 0 TMP\_116 = 1 not(TMP\_116) = 0 TMP\_117 = 1 not(TMP\_117) = 0 TMP\_118 = 1 not(TMP\_118) = 0 TMP\_119 = 0 not(TMP\_119) = 1 TMP\_120 = 4 TMP\_121 = 0 not(TMP\_121) = 1 TMP\_122 = 0 not(TMP\_122) = 1 TMP\_123 = 0 TMP\_124 = 1 not(TMP\_124) = 0 TMP\_125 = 1 not(TMP\_125) = 0 TMP\_126 = 2 TMP\_127 = 0 not(TMP\_127) = 1 TMP\_128 = 0 not(TMP\_128) = 1 TMP\_129 = 1 not(TMP\_129) = 0 TMP\_130 = 1 not(TMP\_130) = 0 TMP\_131 = 1 not(TMP\_131) = 0 TMP\_132 = 2 TMP\_133 = 1 not(TMP\_133) = 0 TMP\_134 = 1 not(TMP\_134) = 0 TMP\_135 = 1 not(TMP\_135) = 0 TMP\_136 = 1 not(TMP\_136) = 0 TMP\_137 = 1 not(TMP\_137) = 0 TMP\_138 = 0 not(TMP\_138) = 1 TMP\_139 = 5 TMP\_140 = 0 not(TMP\_140) = 1 TMP\_141 = 0 not(TMP\_141) = 1 TMP\_142 = 0 TMP\_143 = 1 not(TMP\_143) = 0 TMP\_144 = 1 not(TMP\_144) = 0 TMP\_145 = 2 TMP\_146 = 0 not(TMP\_146) = 1 TMP\_147 = 0 not(TMP\_147) = 1 TMP\_148 = 1 not(TMP\_148) = 0 TMP\_149 = 1 not(TMP\_149) = 0 TMP\_150 = 1 not(TMP\_150) = 0 TMP\_151 = 2 TMP\_152 = 1 not(TMP\_152) = 0 TMP\_153 = 0 not(TMP\_153) = 1 TMP\_154 = 1 not(TMP\_154) = 0 TMP\_155 = 1 not(TMP\_155) = 0 TMP\_156 = 1 not(TMP\_156) = 0 TMP\_157 = 0 not(TMP\_157) = 1 TMP\_158 = 4 TMP\_159 = 0 not(TMP\_159) = 1 TMP\_160 = 0 not(TMP\_160) = 1 TMP\_161 = 0 TMP\_162 = 1 not(TMP\_162) = 0 TMP\_163 = 1 not(TMP\_163) = 0 TMP\_164 = 2 TMP\_165 = 0 not(TMP\_165) = 1 TMP\_166 = 0 not(TMP\_166) = 1 TMP\_167 = 1 not(TMP\_167) = 0 TMP\_168 = 1 not(TMP\_168) = 0 TMP\_169 = 1 not(TMP\_169) = 0 TMP\_170 = 2 TMP\_171 = 1 not(TMP\_171) = 0 TMP\_172 = 0 not(TMP\_172) = 1 TMP\_173 = 1 not(TMP\_173) = 0 TMP\_174 = 1 not(TMP\_174) = 0 TMP\_175 = 1 not(TMP\_175) = 0 TMP\_176 = 1 not(TMP\_176) = 0 TMP\_177 = 5 TMP\_178 = 0 not(TMP\_178) = 1 TMP\_179 = 0 not(TMP\_179) = 1 TMP\_180 = 0 TMP\_181 = 1 not(TMP\_181) = 0 TMP\_182 = 1 not(TMP\_182) = 0 TMP\_183 = 2 TMP\_184 = 0 not(TMP\_184) = 1 TMP\_185 = 0 not(TMP\_185) = 1 TMP\_186 = 1 not(TMP\_186) = 0 TMP\_187 = 1 not(TMP\_187) = 0 TMP\_188 = 1 not(TMP\_188) = 0 TMP\_189 = 2 TMP\_190 = 1 not(TMP\_190) = 0 TMP\_191 = 0 not(TMP\_191) = 1 TMP\_192 = 1 not(TMP\_192) = 0 TMP\_193 = 1 not(TMP\_193) = 0 TMP\_194 = 1 not(TMP\_194) = 0 TMP\_195 = 1 not(TMP\_195) = 0 TMP\_196 = 5 TMP\_197 = 0 not(TMP\_197) = 1 TMP\_198 = 0 not(TMP\_198) = 1 TMP\_199 = 0 TMP\_200 = 1 not(TMP\_200) = 0 TMP\_201 = 1 not(TMP\_201) = 0 TMP\_202 = 2 TMP\_203 = 0 not(TMP\_203) = 1 TMP\_204 = 0 not(TMP\_204) = 1 TMP\_205 = 1 not(TMP\_205) = 0 TMP\_206 = 1 not(TMP\_206) = 0 TMP\_207 = 1 not(TMP\_207) = 0 TMP\_208 = 2 TMP\_209 = 1 not(TMP\_209) = 0 TMP\_210 = 0 not(TMP\_210) = 1 TMP\_211 = 1 not(TMP\_211) = 0 TMP\_212 = 1 not(TMP\_212) = 0 TMP\_213 = 1 not(TMP\_213) = 0 TMP\_214 = 1 not(TMP\_214) = 0 TMP\_215 = 5 TMP\_216 = 0 not(TMP\_216) = 1 TMP\_217 = 0 not(TMP\_217) = 1 TMP\_218 = 0 TMP\_219 = 1 not(TMP\_219) = 0 TMP\_220 = 1 not(TMP\_220) = 0 TMP\_221 = 2 TMP\_222 = 0 not(TMP\_222) = 1 TMP\_223 = 0 not(TMP\_223) = 1 TMP\_224 = 1 not(TMP\_224) = 0 TMP\_225 = 1 not(TMP\_225) = 0 TMP\_226 = 1 not(TMP\_226) = 0 TMP\_227 = 2 TMP\_228 = 1 not(TMP\_228) = 0 TMP\_229 = 0 not(TMP\_229) = 1 TMP\_230 = 1 not(TMP\_230) = 0 TMP\_231 = 1 not(TMP\_231) = 0 TMP\_232 = 1 not(TMP\_232) = 0 TMP\_233 = 0 not(TMP\_233) = 1 TMP\_234 = 4 TMP\_235 = 0 not(TMP\_235) = 1 TMP\_236 = 0 not(TMP\_236) = 1 TMP\_237 = 0 TMP\_238 = 1 not(TMP\_238) = 0 TMP\_239 = 1 not(TMP\_239) = 0 TMP\_240 = 2 TMP\_241 = 0 not(TMP\_241) = 1 TMP\_242 = 0 not(TMP\_242) = 1 TMP\_243 = 1 not(TMP\_243) = 0 TMP\_244 = 1 not(TMP\_244) = 0 TMP\_245 = 1 not(TMP\_245) = 0 TMP\_246 = 2 TMP\_247 = 1 not(TMP\_247) = 0 TMP\_248 = 1 not(TMP\_248) = 0 TMP\_249 = 1 not(TMP\_249) = 0 TMP\_250 = 1 not(TMP\_250) = 0 TMP\_251 = 1 not(TMP\_251) = 0 TMP\_252 = 0 not(TMP\_252) = 1 TMP\_253 = 5 TMP\_254 = 0 not(TMP\_254) = 1 TMP\_255 = 0 not(TMP\_255) = 1 TMP\_256 = 0 TMP\_257 = 1 not(TMP\_257) = 0 TMP\_258 = 1 not(TMP\_258) = 0 TMP\_259 = 2 TMP\_260 = 0 not(TMP\_260) = 1 TMP\_261 = 0 not(TMP\_261) = 1 TMP\_262 = 1 not(TMP\_262) = 0 TMP\_263 = 1 not(TMP\_263) = 0 TMP\_264 = 1 not(TMP\_264) = 0 TMP\_265 = 2 TMP\_266 = 0 not(TMP\_266) = 1 TMP\_267 = 1 not(TMP\_267) = 0 TMP\_268 = 1 not(TMP\_268) = 0 TMP\_269 = 1 not(TMP\_269) = 0 TMP\_270 = 1 not(TMP\_270) = 0 TMP\_271 = 1 not(TMP\_271) = 0 TMP\_272 = 5 TMP\_273 = 0 not(TMP\_273) = 1 TMP\_274 = 0 not(TMP\_274) = 1 TMP\_275 = 0 TMP\_276 = 1 not(TMP\_276) = 0 TMP\_277 = 1 not(TMP\_277) = 0 TMP\_278 = 2 TMP\_279 = 0 not(TMP\_279) = 1 TMP\_280 = 0 not(TMP\_280) = 1 TMP\_281 = 1 not(TMP\_281) = 0 TMP\_282 = 1 not(TMP\_282) = 0 TMP\_283 = 1 not(TMP\_283) = 0 TMP\_284 = 2 TMP\_285 = 0 not(TMP\_285) = 1 TMP\_286 = 1 not(TMP\_286) = 0 TMP\_287 = 1 not(TMP\_287) = 0 TMP\_288 = 1 not(TMP\_288) = 0 TMP\_289 = 1 not(TMP\_289) = 0 TMP\_290 = 1 not(TMP\_290) = 0 TMP\_291 = 5 TMP\_292 = 0 not(TMP\_292) = 1 TMP\_293 = 0 not(TMP\_293) = 1 TMP\_294 = 0 TMP\_295 = 1 not(TMP\_295) = 0 TMP\_296 = 1 not(TMP\_296) = 0 TMP\_297 = 2 TMP\_298 = 0 not(TMP\_298) = 1 TMP\_299 = 0 not(TMP\_299) = 1 TMP\_300 = 1 not(TMP\_300) = 0 TMP\_301 = 1 not(TMP\_301) = 0 TMP\_302 = 1 not(TMP\_302) = 0 TMP\_303 = 2 TMP\_304 = 0 not(TMP\_304) = 1 TMP\_305 = 1 not(TMP\_305) = 0 TMP\_306 = 1 not(TMP\_306) = 0 TMP\_307 = 1 not(TMP\_307) = 0 TMP\_308 = 0 not(TMP\_308) = 1 TMP\_309 = 1 not(TMP\_309) = 0 TMP\_310 = 4 TMP\_311 = 0 not(TMP\_311) = 1 TMP\_312 = 0 not(TMP\_312) = 1 TMP\_313 = 0 TMP\_314 = 1 not(TMP\_314) = 0 TMP\_315 = 1 not(TMP\_315) = 0 TMP\_316 = 2 TMP\_317 = 0 not(TMP\_317) = 1 TMP\_318 = 0 not(TMP\_318) = 1 TMP\_319 = 1 not(TMP\_319) = 0 TMP\_320 = 1 not(TMP\_320) = 0 TMP\_321 = 1 not(TMP\_321) = 0 TMP\_322 = 2 TMP\_323 = 0 not(TMP\_323) = 1 TMP\_324 = 1 not(TMP\_324) = 0 TMP\_325 = 1 not(TMP\_325) = 0 TMP\_326 = 1 not(TMP\_326) = 0 TMP\_327 = 0 not(TMP\_327) = 1 TMP\_328 = 1 not(TMP\_328) = 0 TMP\_329 = 4 TMP\_330 = 0 not(TMP\_330) = 1 TMP\_331 = 0 not(TMP\_331) = 1 TMP\_332 = 0 TMP\_333 = 1 not(TMP\_333) = 0 TMP\_334 = 1 not(TMP\_334) = 0 TMP\_335 = 2 TMP\_336 = 0 not(TMP\_336) = 1 TMP\_337 = 0 not(TMP\_337) = 1 TMP\_338 = 1 not(TMP\_338) = 0 TMP\_339 = 1 not(TMP\_339) = 0 TMP\_340 = 1 not(TMP\_340) = 0 TMP\_341 = 2 TMP\_342 = 1 not(TMP\_342) = 0 TMP\_343 = 1 not(TMP\_343) = 0 TMP\_344 = 1 not(TMP\_344) = 0 TMP\_345 = 1 not(TMP\_345) = 0 TMP\_346 = 0 not(TMP\_346) = 1 TMP\_347 = 1 not(TMP\_347) = 0 TMP\_348 = 5 TMP\_349 = 0 not(TMP\_349) = 1 TMP\_350 = 0 not(TMP\_350) = 1 TMP\_351 = 0 TMP\_352 = 1 not(TMP\_352) = 0 TMP\_353 = 1 not(TMP\_353) = 0 TMP\_354 = 2 TMP\_355 = 0 not(TMP\_355) = 1 TMP\_356 = 0 not(TMP\_356) = 1 TMP\_357 = 1 not(TMP\_357) = 0 TMP\_358 = 1 not(TMP\_358) = 0 TMP\_359 = 1 not(TMP\_359) = 0 TMP\_360 = 2 TMP\_361 = 0 not(TMP\_361) = 1 TMP\_362 = 1 not(TMP\_362) = 0 TMP\_363 = 1 not(TMP\_363) = 0 TMP\_364 = 1 not(TMP\_364) = 0 TMP\_365 = 0 not(TMP\_365) = 1 TMP\_366 = 1 not(TMP\_366) = 0 TMP\_367 = 4 TMP\_368 = 0 not(TMP\_368) = 1 TMP\_369 = 0 not(TMP\_369) = 1 TMP\_370 = 0 TMP\_371 = 1 not(TMP\_371) = 0 TMP\_372 = 1 not(TMP\_372) = 0 TMP\_373 = 2 TMP\_374 = 0 not(TMP\_374) = 1 TMP\_375 = 0 not(TMP\_375) = 1 TMP\_376 = 1 not(TMP\_376) = 0 TMP\_377 = 1 not(TMP\_377) = 0 TMP\_378 = 1 not(TMP\_378) = 0 TMP\_379 = 2 TMP\_380 = 0 not(TMP\_380) = 1 TMP\_381 = 1 not(TMP\_381) = 0 TMP\_382 = 1 not(TMP\_382) = 0 TMP\_383 = 1 not(TMP\_383) = 0 TMP\_384 = 1 not(TMP\_384) = 0 TMP\_385 = 1 not(TMP\_385) = 0 TMP\_386 = 5 TMP\_387 = 0 not(TMP\_387) = 1 TMP\_388 = 0 not(TMP\_388) = 1 TMP\_389 = 0 TMP\_390 = 1 not(TMP\_390) = 0 TMP\_391 = 1 not(TMP\_391) = 0 TMP\_392 = 2 TMP\_393 = 0 not(TMP\_393) = 1 TMP\_394 = 0 not(TMP\_394) = 1 TMP\_395 = 1 not(TMP\_395) = 0 TMP\_396 = 1 not(TMP\_396) = 0 TMP\_397 = 1 not(TMP\_397) = 0 TMP\_398 = 2 TMP\_399 = 0 not(TMP\_399) = 1 TMP\_400 = 1 not(TMP\_400) = 0 TMP\_401 = 1 not(TMP\_401) = 0 TMP\_402 = 1 not(TMP\_402) = 0 TMP\_403 = 1 not(TMP\_403) = 0 TMP\_404 = 1 not(TMP\_404) = 0 TMP\_405 = 5 TMP\_406 = 0 not(TMP\_406) = 1 TMP\_407 = 0 not(TMP\_407) = 1 TMP\_408 = 0 TMP\_409 = 1 not(TMP\_409) = 0 TMP\_410 = 1 not(TMP\_410) = 0 TMP\_411 = 2 TMP\_412 = 0 not(TMP\_412) = 1 TMP\_413 = 0 not(TMP\_413) = 1 TMP\_414 = 1 not(TMP\_414) = 0 TMP\_415 = 1 not(TMP\_415) = 0 TMP\_416 = 1 not(TMP\_416) = 0 TMP\_417 = 2 TMP\_418 = 1 not(TMP\_418) = 0 TMP\_419 = 0 not(TMP\_419) = 1 TMP\_420 = 1 not(TMP\_420) = 0 TMP\_421 = 1 not(TMP\_421) = 0 TMP\_422 = 1 not(TMP\_422) = 0 TMP\_423 = 1 not(TMP\_423) = 0 TMP\_424 = 5 TMP\_425 = 0 not(TMP\_425) = 1 TMP\_426 = 0 not(TMP\_426) = 1 TMP\_427 = 0 TMP\_428 = 1 not(TMP\_428) = 0 TMP\_429 = 1 not(TMP\_429) = 0 TMP\_430 = 2 TMP\_431 = 0 not(TMP\_431) = 1 TMP\_432 = 0 not(TMP\_432) = 1 TMP\_433 = 1 not(TMP\_433) = 0 TMP\_434 = 1 not(TMP\_434) = 0 TMP\_435 = 1 not(TMP\_435) = 0 TMP\_436 = 2 TMP\_437 = 1 not(TMP\_437) = 0 TMP\_438 = 0 not(TMP\_438) = 1 TMP\_439 = 1 not(TMP\_439) = 0 TMP\_440 = 1 not(TMP\_440) = 0 TMP\_441 = 0 not(TMP\_441) = 1 TMP\_442 = 1 not(TMP\_442) = 0 TMP\_443 = 4 TMP\_444 = 0 not(TMP\_444) = 1 TMP\_445 = 0 not(TMP\_445) = 1 TMP\_446 = 0 TMP\_447 = 1 not(TMP\_447) = 0 TMP\_448 = 1 not(TMP\_448) = 0 TMP\_449 = 2 TMP\_450 = 0 not(TMP\_450) = 1 TMP\_451 = 0 not(TMP\_451) = 1 TMP\_452 = 1 not(TMP\_452) = 0 TMP\_453 = 1 not(TMP\_453) = 0 TMP\_454 = 1 not(TMP\_454) = 0 TMP\_455 = 2 TMP\_456 = 1 not(TMP\_456) = 0 TMP\_457 = 0 not(TMP\_457) = 1 TMP\_458 = 1 not(TMP\_458) = 0 TMP\_459 = 1 not(TMP\_459) = 0 TMP\_460 = 0 not(TMP\_460) = 1 TMP\_461 = 1 not(TMP\_461) = 0 TMP\_462 = 4 TMP\_463 = 0 not(TMP\_463) = 1 TMP\_464 = 0 not(TMP\_464) = 1 TMP\_465 = 0 TMP\_466 = 1 not(TMP\_466) = 0 TMP\_467 = 1 not(TMP\_467) = 0 TMP\_468 = 2 TMP\_469 = 0 not(TMP\_469) = 1 TMP\_470 = 0 not(TMP\_470) = 1 TMP\_471 = 1 not(TMP\_471) = 0 TMP\_472 = 1 not(TMP\_472) = 0 TMP\_473 = 1 not(TMP\_473) = 0 TMP\_474 = 2 TMP\_475 = 1 not(TMP\_475) = 0 TMP\_476 = 0 not(TMP\_476) = 1 TMP\_477 = 1 not(TMP\_477) = 0 TMP\_478 = 1 not(TMP\_478) = 0 TMP\_479 = 0 not(TMP\_479) = 1 TMP\_480 = 1 not(TMP\_480) = 0 TMP\_481 = 4 TMP\_482 = 0 not(TMP\_482) = 1 TMP\_483 = 0 not(TMP\_483) = 1 TMP\_484 = 0 TMP\_485 = 1 not(TMP\_485) = 0 TMP\_486 = 1 not(TMP\_486) = 0 TMP\_487 = 2 TMP\_488 = 0 not(TMP\_488) = 1 TMP\_489 = 0 not(TMP\_489) = 1 TMP\_490 = 1 not(TMP\_490) = 0 TMP\_491 = 1 not(TMP\_491) = 0 TMP\_492 = 1 not(TMP\_492) = 0 TMP\_493 = 2 TMP\_494 = 1 not(TMP\_494) = 0 TMP\_495 = 1 not(TMP\_495) = 0 TMP\_496 = 1 not(TMP\_496) = 0 TMP\_497 = 1 not(TMP\_497) = 0 TMP\_498 = 0 not(TMP\_498) = 1 TMP\_499 = 1 not(TMP\_499) = 0 TMP\_500 = 5 TMP\_501 = 0 not(TMP\_501) = 1 TMP\_502 = 0 not(TMP\_502) = 1 TMP\_503 = 0 TMP\_504 = 1 not(TMP\_504) = 0 TMP\_505 = 1 not(TMP\_505) = 0 TMP\_506 = 2 TMP\_507 = 0 not(TMP\_507) = 1 TMP\_508 = 0 not(TMP\_508) = 1 TMP\_509 = 1 not(TMP\_509) = 0 TMP\_510 = 1 not(TMP\_510) = 0 TMP\_511 = 1 not(TMP\_511) = 0 TMP\_512 = 2 TMP\_513 = 1 not(TMP\_513) = 0 TMP\_514 = 0 not(TMP\_514) = 1 TMP\_515 = 1 not(TMP\_515) = 0 TMP\_516 = 1 not(TMP\_516) = 0 TMP\_517 = 1 not(TMP\_517) = 0 TMP\_518 = 1 not(TMP\_518) = 0 TMP\_519 = 5 TMP\_520 = 0 not(TMP\_520) = 1 TMP\_521 = 0 not(TMP\_521) = 1 TMP\_522 = 0 TMP\_523 = 1 not(TMP\_523) = 0 TMP\_524 = 1 not(TMP\_524) = 0 TMP\_525 = 2 TMP\_526 = 0 not(TMP\_526) = 1 TMP\_527 = 0 not(TMP\_527) = 1 TMP\_528 = 1 not(TMP\_528) = 0 TMP\_529 = 1 not(TMP\_529) = 0 TMP\_530 = 1 not(TMP\_530) = 0 TMP\_531 = 2 Area\_0 = 60 Distance\_0\_Rule\_0 = 20 Distance\_1\_Rule\_0 = 3 Distance\_2\_Rule\_0 = 1 Area\_1 = 174 Distance\_0\_Rule\_1 = 58 Distance\_1\_Rule\_1 = 3 Distance\_2\_Rule\_1 = 1 Area\_2 = 116 Distance\_0\_Rule\_2 = 58 Distance\_1\_Rule\_2 = 2 Distance\_2\_Rule\_2 = 1 Area\_3 = 58 Distance\_0\_Rule\_3 = 58 Distance\_1\_Rule\_3 = 1 Distance\_2\_Rule\_3 = 1 Area\_4 = 123 -(Rule\_4\_LB) = -79 Distance\_0\_Rule\_4 = 41 -(Rule\_4\_LB) = 0 Distance\_1\_Rule\_4 = 3 -(Rule\_4\_LB) = 0 Distance\_2\_Rule\_4 = 1 Area\_5 = 63 -(Rule\_5\_LB) = 0 Distance\_0\_Rule\_5 = 21 -(Rule\_5\_LB) = 0 Distance\_1\_Rule\_5 = 3 -(Rule\_5\_LB) = 0 Distance\_2\_Rule\_5 = 1 Area\_6 = 123 -(Rule\_6\_LB) = -79 Distance\_0\_Rule\_6 = 41 -(Rule\_6\_LB) = 0 Distance\_1\_Rule\_6 = 3 -(Rule\_6\_LB) = -1 Distance\_2\_Rule\_6 = 1 Area\_7 = 3 -(Rule\_7\_LB) = -20 Distance\_0\_Rule\_7 = 1 -(Rule\_7\_LB) = 0 Distance\_1\_Rule\_7 = 3 -(Rule\_7\_LB) = -1 Distance\_2\_Rule\_7 = 1 TMP\_532 = 720 .

- Solution #13 found. 13 Solutions, Resolution 0.344s, 103 Nodes (299.1 n/s), 129 Backtracks, 58 Fails, 0 Restarts

Rule\_4\_LB = 79 Rule\_4\_UB = 120 Rule\_4\_LB = 0 Rule\_4\_UB = 3 Rule\_4\_LB = 0 Rule\_4\_UB = 1 Rule\_5\_LB = 0 Rule\_5\_UB = 21 Rule\_5\_LB = 0 Rule\_5\_UB = 3 Rule\_5\_LB = 0 Rule\_5\_UB = 1 Rule\_6\_LB = 79 Rule\_6\_UB = 120 Rule\_6\_LB = 0 Rule\_6\_UB = 3 Rule\_6\_LB = 1 Rule\_6\_UB = 2 Rule\_7\_LB = 20 Rule\_7\_UB = 21 Rule\_7\_LB = 0 Rule\_7\_UB = 3 Rule\_7\_LB = 1 Rule\_7\_UB = 2 Overlaps\_0\_0 = 0 Overlaps\_0\_1 = 1 Overlaps\_0\_2 = 0 Overlaps\_0\_3 = 1 Overlaps\_0\_4 = 0 Overlaps\_0\_5 = 0 Overlaps\_0\_6 = 0 Overlaps\_0\_7 = 0 Overlaps\_1\_0 = 0 Overlaps\_1\_1 = 0 Overlaps\_1\_2 = 0 Overlaps\_1\_3 = 0 Overlaps\_1\_4 = 0 Overlaps\_1\_5 = 0 Overlaps\_1\_6 = 0 Overlaps\_1\_7 = 0 Overlaps\_2\_0 = 0 Overlaps\_2\_1 = 0 Overlaps\_2\_2 = 0 Overlaps\_2\_3 = 0 Overlaps\_2\_4 = 0 Overlaps\_2\_5 = 0 Overlaps\_2\_6 = 0 Overlaps\_2\_7 = 0 Overlaps\_3\_0 = 0 Overlaps\_3\_1 = 0 Overlaps\_3\_2 = 0 Overlaps\_3\_3 = 0 Overlaps\_3\_4 = 0 Overlaps\_3\_5 = 0 Overlaps\_3\_6 = 0 Overlaps\_3\_7 = 0 Overlaps\_4\_0 = 0 Overlaps\_4\_1 = 0 Overlaps\_4\_2 = 0 Overlaps\_4\_3 = 0 Overlaps\_4\_4 = 0 Overlaps\_4\_5 = 0 Overlaps\_4\_6 = 0 Overlaps\_4\_7 = 0 Overlaps\_5\_0 = 0 Overlaps\_5\_1 = 0 Overlaps\_5\_2 = 0 Overlaps\_5\_3 = 0 Overlaps\_5\_4 = 0 Overlaps\_5\_5 = 0 Overlaps\_5\_6 = 0 Overlaps\_5\_7 = 0 Overlaps\_6\_0 = 0 Overlaps\_6\_1 = 0 Overlaps\_6\_2 = 0 Overlaps\_6\_3 = 0 Overlaps\_6\_4 = 0 Overlaps\_6\_5 = 0 Overlaps\_6\_6 = 0 Overlaps\_6\_7 = 0 Overlaps\_7\_0 = 0 Overlaps\_7\_1 = 0 Overlaps\_7\_2 = 0 Overlaps\_7\_3 = 0 Overlaps\_7\_4 = 0 Overlaps\_7\_5 = 0 Overlaps\_7\_6 = 0 Overlaps\_7\_7 = 0 TMP\_0 = 0 not(TMP\_0) = 1 TMP\_1 = 1 not(TMP\_1) = 0 TMP\_2 = 1 not(TMP\_2) = 0 TMP\_3 = 1 not(TMP\_3) = 0 TMP\_4 = 1 not(TMP\_4) = 0 TMP\_5 = 0 not(TMP\_5) = 1 TMP\_6 = 4 TMP\_7 = 0 not(TMP\_7) = 1 TMP\_8 = 0 not(TMP\_8) = 1 TMP\_9 = 0 TMP\_10 = 1 not(TMP\_10) = 0 TMP\_11 = 1 not(TMP\_11) = 0 TMP\_12 = 2 TMP\_13 = 0 not(TMP\_13) = 1 TMP\_14 = 0 not(TMP\_14) = 1 TMP\_15 = 1 not(TMP\_15) = 0 TMP\_16 = 1 not(TMP\_16) = 0 TMP\_17 = 1 not(TMP\_17) = 0 TMP\_18 = 2 TMP\_19 = 0 not(TMP\_19) = 1 TMP\_20 = 1 not(TMP\_20) = 0 TMP\_21 = 1 not(TMP\_21) = 0 TMP\_22 = 1 not(TMP\_22) = 0 TMP\_23 = 1 not(TMP\_23) = 0 TMP\_24 = 0 not(TMP\_24) = 1 TMP\_25 = 4 TMP\_26 = 0 not(TMP\_26) = 1 TMP\_27 = 0 not(TMP\_27) = 1 TMP\_28 = 0 TMP\_29 = 1 not(TMP\_29) = 0 TMP\_30 = 1 not(TMP\_30) = 0 TMP\_31 = 2 TMP\_32 = 0 not(TMP\_32) = 1 TMP\_33 = 0 not(TMP\_33) = 1 TMP\_34 = 1 not(TMP\_34) = 0 TMP\_35 = 1 not(TMP\_35) = 0 TMP\_36 = 1 not(TMP\_36) = 0 TMP\_37 = 2 TMP\_38 = 0 not(TMP\_38) = 1 TMP\_39 = 1 not(TMP\_39) = 0 TMP\_40 = 1 not(TMP\_40) = 0 TMP\_41 = 1 not(TMP\_41) = 0 TMP\_42 = 1 not(TMP\_42) = 0 TMP\_43 = 1 not(TMP\_43) = 0 TMP\_44 = 5 TMP\_45 = 0 not(TMP\_45) = 1 TMP\_46 = 0 not(TMP\_46) = 1 TMP\_47 = 0 TMP\_48 = 1 not(TMP\_48) = 0 TMP\_49 = 1 not(TMP\_49) = 0 TMP\_50 = 2 TMP\_51 = 0 not(TMP\_51) = 1 TMP\_52 = 0 not(TMP\_52) = 1 TMP\_53 = 1 not(TMP\_53) = 0 TMP\_54 = 1 not(TMP\_54) = 0 TMP\_55 = 1 not(TMP\_55) = 0 TMP\_56 = 2 TMP\_57 = 0 not(TMP\_57) = 1 TMP\_58 = 1 not(TMP\_58) = 0 TMP\_59 = 1 not(TMP\_59) = 0 TMP\_60 = 1 not(TMP\_60) = 0 TMP\_61 = 1 not(TMP\_61) = 0 TMP\_62 = 1 not(TMP\_62) = 0 TMP\_63 = 5 TMP\_64 = 0 not(TMP\_64) = 1 TMP\_65 = 0 not(TMP\_65) = 1 TMP\_66 = 0 TMP\_67 = 1 not(TMP\_67) = 0 TMP\_68 = 1 not(TMP\_68) = 0 TMP\_69 = 2 TMP\_70 = 0 not(TMP\_70) = 1 TMP\_71 = 0 not(TMP\_71) = 1 TMP\_72 = 1 not(TMP\_72) = 0 TMP\_73 = 1 not(TMP\_73) = 0 TMP\_74 = 1 not(TMP\_74) = 0 TMP\_75 = 2 TMP\_76 = 0 not(TMP\_76) = 1 TMP\_77 = 1 not(TMP\_77) = 0 TMP\_78 = 1 not(TMP\_78) = 0 TMP\_79 = 1 not(TMP\_79) = 0 TMP\_80 = 1 not(TMP\_80) = 0 TMP\_81 = 1 not(TMP\_81) = 0 TMP\_82 = 5 TMP\_83 = 0 not(TMP\_83) = 1 TMP\_84 = 0 not(TMP\_84) = 1 TMP\_85 = 0 TMP\_86 = 1 not(TMP\_86) = 0 TMP\_87 = 1 not(TMP\_87) = 0 TMP\_88 = 2 TMP\_89 = 0 not(TMP\_89) = 1 TMP\_90 = 0 not(TMP\_90) = 1 TMP\_91 = 1 not(TMP\_91) = 0 TMP\_92 = 1 not(TMP\_92) = 0 TMP\_93 = 1 not(TMP\_93) = 0 TMP\_94 = 2 TMP\_95 = 1 not(TMP\_95) = 0 TMP\_96 = 1 not(TMP\_96) = 0 TMP\_97 = 1 not(TMP\_97) = 0 TMP\_98 = 1 not(TMP\_98) = 0 TMP\_99 = 1 not(TMP\_99) = 0 TMP\_100 = 0 not(TMP\_100) = 1 TMP\_101 = 5 TMP\_102 = 0 not(TMP\_102) = 1 TMP\_103 = 0 not(TMP\_103) = 1 TMP\_104 = 0 TMP\_105 = 1 not(TMP\_105) = 0 TMP\_106 = 1 not(TMP\_106) = 0 TMP\_107 = 2 TMP\_108 = 0 not(TMP\_108) = 1 TMP\_109 = 0 not(TMP\_109) = 1 TMP\_110 = 1 not(TMP\_110) = 0 TMP\_111 = 1 not(TMP\_111) = 0 TMP\_112 = 1 not(TMP\_112) = 0 TMP\_113 = 2 TMP\_114 = 0 not(TMP\_114) = 1 TMP\_115 = 1 not(TMP\_115) = 0 TMP\_116 = 1 not(TMP\_116) = 0 TMP\_117 = 1 not(TMP\_117) = 0 TMP\_118 = 1 not(TMP\_118) = 0 TMP\_119 = 0 not(TMP\_119) = 1 TMP\_120 = 4 TMP\_121 = 0 not(TMP\_121) = 1 TMP\_122 = 0 not(TMP\_122) = 1 TMP\_123 = 0 TMP\_124 = 1 not(TMP\_124) = 0 TMP\_125 = 1 not(TMP\_125) = 0 TMP\_126 = 2 TMP\_127 = 0 not(TMP\_127) = 1 TMP\_128 = 0 not(TMP\_128) = 1 TMP\_129 = 1 not(TMP\_129) = 0 TMP\_130 = 1 not(TMP\_130) = 0 TMP\_131 = 1 not(TMP\_131) = 0 TMP\_132 = 2 TMP\_133 = 1 not(TMP\_133) = 0 TMP\_134 = 1 not(TMP\_134) = 0 TMP\_135 = 1 not(TMP\_135) = 0 TMP\_136 = 1 not(TMP\_136) = 0 TMP\_137 = 1 not(TMP\_137) = 0 TMP\_138 = 0 not(TMP\_138) = 1 TMP\_139 = 5 TMP\_140 = 0 not(TMP\_140) = 1 TMP\_141 = 0 not(TMP\_141) = 1 TMP\_142 = 0 TMP\_143 = 1 not(TMP\_143) = 0 TMP\_144 = 1 not(TMP\_144) = 0 TMP\_145 = 2 TMP\_146 = 0 not(TMP\_146) = 1 TMP\_147 = 0 not(TMP\_147) = 1 TMP\_148 = 1 not(TMP\_148) = 0 TMP\_149 = 1 not(TMP\_149) = 0 TMP\_150 = 1 not(TMP\_150) = 0 TMP\_151 = 2 TMP\_152 = 1 not(TMP\_152) = 0 TMP\_153 = 0 not(TMP\_153) = 1 TMP\_154 = 1 not(TMP\_154) = 0 TMP\_155 = 1 not(TMP\_155) = 0 TMP\_156 = 1 not(TMP\_156) = 0 TMP\_157 = 0 not(TMP\_157) = 1 TMP\_158 = 4 TMP\_159 = 0 not(TMP\_159) = 1 TMP\_160 = 0 not(TMP\_160) = 1 TMP\_161 = 0 TMP\_162 = 1 not(TMP\_162) = 0 TMP\_163 = 1 not(TMP\_163) = 0 TMP\_164 = 2 TMP\_165 = 0 not(TMP\_165) = 1 TMP\_166 = 0 not(TMP\_166) = 1 TMP\_167 = 1 not(TMP\_167) = 0 TMP\_168 = 1 not(TMP\_168) = 0 TMP\_169 = 1 not(TMP\_169) = 0 TMP\_170 = 2 TMP\_171 = 1 not(TMP\_171) = 0 TMP\_172 = 0 not(TMP\_172) = 1 TMP\_173 = 1 not(TMP\_173) = 0 TMP\_174 = 1 not(TMP\_174) = 0 TMP\_175 = 1 not(TMP\_175) = 0 TMP\_176 = 1 not(TMP\_176) = 0 TMP\_177 = 5 TMP\_178 = 0 not(TMP\_178) = 1 TMP\_179 = 0 not(TMP\_179) = 1 TMP\_180 = 0 TMP\_181 = 1 not(TMP\_181) = 0 TMP\_182 = 1 not(TMP\_182) = 0 TMP\_183 = 2 TMP\_184 = 0 not(TMP\_184) = 1 TMP\_185 = 0 not(TMP\_185) = 1 TMP\_186 = 1 not(TMP\_186) = 0 TMP\_187 = 1 not(TMP\_187) = 0 TMP\_188 = 1 not(TMP\_188) = 0 TMP\_189 = 2 TMP\_190 = 1 not(TMP\_190) = 0 TMP\_191 = 0 not(TMP\_191) = 1 TMP\_192 = 1 not(TMP\_192) = 0 TMP\_193 = 1 not(TMP\_193) = 0 TMP\_194 = 1 not(TMP\_194) = 0 TMP\_195 = 1 not(TMP\_195) = 0 TMP\_196 = 5 TMP\_197 = 0 not(TMP\_197) = 1 TMP\_198 = 0 not(TMP\_198) = 1 TMP\_199 = 0 TMP\_200 = 1 not(TMP\_200) = 0 TMP\_201 = 1 not(TMP\_201) = 0 TMP\_202 = 2 TMP\_203 = 0 not(TMP\_203) = 1 TMP\_204 = 0 not(TMP\_204) = 1 TMP\_205 = 1 not(TMP\_205) = 0 TMP\_206 = 1 not(TMP\_206) = 0 TMP\_207 = 1 not(TMP\_207) = 0 TMP\_208 = 2 TMP\_209 = 1 not(TMP\_209) = 0 TMP\_210 = 0 not(TMP\_210) = 1 TMP\_211 = 1 not(TMP\_211) = 0 TMP\_212 = 1 not(TMP\_212) = 0 TMP\_213 = 1 not(TMP\_213) = 0 TMP\_214 = 1 not(TMP\_214) = 0 TMP\_215 = 5 TMP\_216 = 0 not(TMP\_216) = 1 TMP\_217 = 0 not(TMP\_217) = 1 TMP\_218 = 0 TMP\_219 = 1 not(TMP\_219) = 0 TMP\_220 = 1 not(TMP\_220) = 0 TMP\_221 = 2 TMP\_222 = 0 not(TMP\_222) = 1 TMP\_223 = 0 not(TMP\_223) = 1 TMP\_224 = 1 not(TMP\_224) = 0 TMP\_225 = 1 not(TMP\_225) = 0 TMP\_226 = 1 not(TMP\_226) = 0 TMP\_227 = 2 TMP\_228 = 1 not(TMP\_228) = 0 TMP\_229 = 0 not(TMP\_229) = 1 TMP\_230 = 1 not(TMP\_230) = 0 TMP\_231 = 1 not(TMP\_231) = 0 TMP\_232 = 1 not(TMP\_232) = 0 TMP\_233 = 0 not(TMP\_233) = 1 TMP\_234 = 4 TMP\_235 = 0 not(TMP\_235) = 1 TMP\_236 = 0 not(TMP\_236) = 1 TMP\_237 = 0 TMP\_238 = 1 not(TMP\_238) = 0 TMP\_239 = 1 not(TMP\_239) = 0 TMP\_240 = 2 TMP\_241 = 0 not(TMP\_241) = 1 TMP\_242 = 0 not(TMP\_242) = 1 TMP\_243 = 1 not(TMP\_243) = 0 TMP\_244 = 1 not(TMP\_244) = 0 TMP\_245 = 1 not(TMP\_245) = 0 TMP\_246 = 2 TMP\_247 = 1 not(TMP\_247) = 0 TMP\_248 = 1 not(TMP\_248) = 0 TMP\_249 = 1 not(TMP\_249) = 0 TMP\_250 = 1 not(TMP\_250) = 0 TMP\_251 = 1 not(TMP\_251) = 0 TMP\_252 = 0 not(TMP\_252) = 1 TMP\_253 = 5 TMP\_254 = 0 not(TMP\_254) = 1 TMP\_255 = 0 not(TMP\_255) = 1 TMP\_256 = 0 TMP\_257 = 1 not(TMP\_257) = 0 TMP\_258 = 1 not(TMP\_258) = 0 TMP\_259 = 2 TMP\_260 = 0 not(TMP\_260) = 1 TMP\_261 = 0 not(TMP\_261) = 1 TMP\_262 = 1 not(TMP\_262) = 0 TMP\_263 = 1 not(TMP\_263) = 0 TMP\_264 = 1 not(TMP\_264) = 0 TMP\_265 = 2 TMP\_266 = 0 not(TMP\_266) = 1 TMP\_267 = 1 not(TMP\_267) = 0 TMP\_268 = 1 not(TMP\_268) = 0 TMP\_269 = 1 not(TMP\_269) = 0 TMP\_270 = 1 not(TMP\_270) = 0 TMP\_271 = 1 not(TMP\_271) = 0 TMP\_272 = 5 TMP\_273 = 0 not(TMP\_273) = 1 TMP\_274 = 0 not(TMP\_274) = 1 TMP\_275 = 0 TMP\_276 = 1 not(TMP\_276) = 0 TMP\_277 = 1 not(TMP\_277) = 0 TMP\_278 = 2 TMP\_279 = 0 not(TMP\_279) = 1 TMP\_280 = 0 not(TMP\_280) = 1 TMP\_281 = 1 not(TMP\_281) = 0 TMP\_282 = 1 not(TMP\_282) = 0 TMP\_283 = 1 not(TMP\_283) = 0 TMP\_284 = 2 TMP\_285 = 0 not(TMP\_285) = 1 TMP\_286 = 1 not(TMP\_286) = 0 TMP\_287 = 1 not(TMP\_287) = 0 TMP\_288 = 1 not(TMP\_288) = 0 TMP\_289 = 1 not(TMP\_289) = 0 TMP\_290 = 1 not(TMP\_290) = 0 TMP\_291 = 5 TMP\_292 = 0 not(TMP\_292) = 1 TMP\_293 = 0 not(TMP\_293) = 1 TMP\_294 = 0 TMP\_295 = 1 not(TMP\_295) = 0 TMP\_296 = 1 not(TMP\_296) = 0 TMP\_297 = 2 TMP\_298 = 0 not(TMP\_298) = 1 TMP\_299 = 0 not(TMP\_299) = 1 TMP\_300 = 1 not(TMP\_300) = 0 TMP\_301 = 1 not(TMP\_301) = 0 TMP\_302 = 1 not(TMP\_302) = 0 TMP\_303 = 2 TMP\_304 = 0 not(TMP\_304) = 1 TMP\_305 = 1 not(TMP\_305) = 0 TMP\_306 = 1 not(TMP\_306) = 0 TMP\_307 = 1 not(TMP\_307) = 0 TMP\_308 = 0 not(TMP\_308) = 1 TMP\_309 = 1 not(TMP\_309) = 0 TMP\_310 = 4 TMP\_311 = 0 not(TMP\_311) = 1 TMP\_312 = 0 not(TMP\_312) = 1 TMP\_313 = 0 TMP\_314 = 1 not(TMP\_314) = 0 TMP\_315 = 1 not(TMP\_315) = 0 TMP\_316 = 2 TMP\_317 = 0 not(TMP\_317) = 1 TMP\_318 = 0 not(TMP\_318) = 1 TMP\_319 = 1 not(TMP\_319) = 0 TMP\_320 = 1 not(TMP\_320) = 0 TMP\_321 = 1 not(TMP\_321) = 0 TMP\_322 = 2 TMP\_323 = 0 not(TMP\_323) = 1 TMP\_324 = 1 not(TMP\_324) = 0 TMP\_325 = 1 not(TMP\_325) = 0 TMP\_326 = 1 not(TMP\_326) = 0 TMP\_327 = 0 not(TMP\_327) = 1 TMP\_328 = 1 not(TMP\_328) = 0 TMP\_329 = 4 TMP\_330 = 0 not(TMP\_330) = 1 TMP\_331 = 0 not(TMP\_331) = 1 TMP\_332 = 0 TMP\_333 = 1 not(TMP\_333) = 0 TMP\_334 = 1 not(TMP\_334) = 0 TMP\_335 = 2 TMP\_336 = 0 not(TMP\_336) = 1 TMP\_337 = 0 not(TMP\_337) = 1 TMP\_338 = 1 not(TMP\_338) = 0 TMP\_339 = 1 not(TMP\_339) = 0 TMP\_340 = 1 not(TMP\_340) = 0 TMP\_341 = 2 TMP\_342 = 1 not(TMP\_342) = 0 TMP\_343 = 1 not(TMP\_343) = 0 TMP\_344 = 1 not(TMP\_344) = 0 TMP\_345 = 1 not(TMP\_345) = 0 TMP\_346 = 0 not(TMP\_346) = 1 TMP\_347 = 1 not(TMP\_347) = 0 TMP\_348 = 5 TMP\_349 = 0 not(TMP\_349) = 1 TMP\_350 = 0 not(TMP\_350) = 1 TMP\_351 = 0 TMP\_352 = 1 not(TMP\_352) = 0 TMP\_353 = 1 not(TMP\_353) = 0 TMP\_354 = 2 TMP\_355 = 0 not(TMP\_355) = 1 TMP\_356 = 0 not(TMP\_356) = 1 TMP\_357 = 1 not(TMP\_357) = 0 TMP\_358 = 1 not(TMP\_358) = 0 TMP\_359 = 1 not(TMP\_359) = 0 TMP\_360 = 2 TMP\_361 = 0 not(TMP\_361) = 1 TMP\_362 = 1 not(TMP\_362) = 0 TMP\_363 = 1 not(TMP\_363) = 0 TMP\_364 = 1 not(TMP\_364) = 0 TMP\_365 = 0 not(TMP\_365) = 1 TMP\_366 = 1 not(TMP\_366) = 0 TMP\_367 = 4 TMP\_368 = 0 not(TMP\_368) = 1 TMP\_369 = 0 not(TMP\_369) = 1 TMP\_370 = 0 TMP\_371 = 1 not(TMP\_371) = 0 TMP\_372 = 1 not(TMP\_372) = 0 TMP\_373 = 2 TMP\_374 = 0 not(TMP\_374) = 1 TMP\_375 = 0 not(TMP\_375) = 1 TMP\_376 = 1 not(TMP\_376) = 0 TMP\_377 = 1 not(TMP\_377) = 0 TMP\_378 = 1 not(TMP\_378) = 0 TMP\_379 = 2 TMP\_380 = 0 not(TMP\_380) = 1 TMP\_381 = 1 not(TMP\_381) = 0 TMP\_382 = 1 not(TMP\_382) = 0 TMP\_383 = 1 not(TMP\_383) = 0 TMP\_384 = 1 not(TMP\_384) = 0 TMP\_385 = 1 not(TMP\_385) = 0 TMP\_386 = 5 TMP\_387 = 0 not(TMP\_387) = 1 TMP\_388 = 0 not(TMP\_388) = 1 TMP\_389 = 0 TMP\_390 = 1 not(TMP\_390) = 0 TMP\_391 = 1 not(TMP\_391) = 0 TMP\_392 = 2 TMP\_393 = 0 not(TMP\_393) = 1 TMP\_394 = 0 not(TMP\_394) = 1 TMP\_395 = 1 not(TMP\_395) = 0 TMP\_396 = 1 not(TMP\_396) = 0 TMP\_397 = 1 not(TMP\_397) = 0 TMP\_398 = 2 TMP\_399 = 0 not(TMP\_399) = 1 TMP\_400 = 1 not(TMP\_400) = 0 TMP\_401 = 1 not(TMP\_401) = 0 TMP\_402 = 1 not(TMP\_402) = 0 TMP\_403 = 1 not(TMP\_403) = 0 TMP\_404 = 1 not(TMP\_404) = 0 TMP\_405 = 5 TMP\_406 = 0 not(TMP\_406) = 1 TMP\_407 = 0 not(TMP\_407) = 1 TMP\_408 = 0 TMP\_409 = 1 not(TMP\_409) = 0 TMP\_410 = 1 not(TMP\_410) = 0 TMP\_411 = 2 TMP\_412 = 0 not(TMP\_412) = 1 TMP\_413 = 0 not(TMP\_413) = 1 TMP\_414 = 1 not(TMP\_414) = 0 TMP\_415 = 1 not(TMP\_415) = 0 TMP\_416 = 1 not(TMP\_416) = 0 TMP\_417 = 2 TMP\_418 = 1 not(TMP\_418) = 0 TMP\_419 = 0 not(TMP\_419) = 1 TMP\_420 = 1 not(TMP\_420) = 0 TMP\_421 = 1 not(TMP\_421) = 0 TMP\_422 = 1 not(TMP\_422) = 0 TMP\_423 = 1 not(TMP\_423) = 0 TMP\_424 = 5 TMP\_425 = 0 not(TMP\_425) = 1 TMP\_426 = 0 not(TMP\_426) = 1 TMP\_427 = 0 TMP\_428 = 1 not(TMP\_428) = 0 TMP\_429 = 1 not(TMP\_429) = 0 TMP\_430 = 2 TMP\_431 = 0 not(TMP\_431) = 1 TMP\_432 = 0 not(TMP\_432) = 1 TMP\_433 = 1 not(TMP\_433) = 0 TMP\_434 = 1 not(TMP\_434) = 0 TMP\_435 = 1 not(TMP\_435) = 0 TMP\_436 = 2 TMP\_437 = 1 not(TMP\_437) = 0 TMP\_438 = 0 not(TMP\_438) = 1 TMP\_439 = 1 not(TMP\_439) = 0 TMP\_440 = 1 not(TMP\_440) = 0 TMP\_441 = 0 not(TMP\_441) = 1 TMP\_442 = 1 not(TMP\_442) = 0 TMP\_443 = 4 TMP\_444 = 0 not(TMP\_444) = 1 TMP\_445 = 0 not(TMP\_445) = 1 TMP\_446 = 0 TMP\_447 = 1 not(TMP\_447) = 0 TMP\_448 = 1 not(TMP\_448) = 0 TMP\_449 = 2 TMP\_450 = 0 not(TMP\_450) = 1 TMP\_451 = 0 not(TMP\_451) = 1 TMP\_452 = 1 not(TMP\_452) = 0 TMP\_453 = 1 not(TMP\_453) = 0 TMP\_454 = 1 not(TMP\_454) = 0 TMP\_455 = 2 TMP\_456 = 1 not(TMP\_456) = 0 TMP\_457 = 0 not(TMP\_457) = 1 TMP\_458 = 1 not(TMP\_458) = 0 TMP\_459 = 1 not(TMP\_459) = 0 TMP\_460 = 0 not(TMP\_460) = 1 TMP\_461 = 1 not(TMP\_461) = 0 TMP\_462 = 4 TMP\_463 = 0 not(TMP\_463) = 1 TMP\_464 = 0 not(TMP\_464) = 1 TMP\_465 = 0 TMP\_466 = 1 not(TMP\_466) = 0 TMP\_467 = 1 not(TMP\_467) = 0 TMP\_468 = 2 TMP\_469 = 0 not(TMP\_469) = 1 TMP\_470 = 0 not(TMP\_470) = 1 TMP\_471 = 1 not(TMP\_471) = 0 TMP\_472 = 1 not(TMP\_472) = 0 TMP\_473 = 1 not(TMP\_473) = 0 TMP\_474 = 2 TMP\_475 = 1 not(TMP\_475) = 0 TMP\_476 = 0 not(TMP\_476) = 1 TMP\_477 = 1 not(TMP\_477) = 0 TMP\_478 = 1 not(TMP\_478) = 0 TMP\_479 = 0 not(TMP\_479) = 1 TMP\_480 = 1 not(TMP\_480) = 0 TMP\_481 = 4 TMP\_482 = 0 not(TMP\_482) = 1 TMP\_483 = 0 not(TMP\_483) = 1 TMP\_484 = 0 TMP\_485 = 1 not(TMP\_485) = 0 TMP\_486 = 1 not(TMP\_486) = 0 TMP\_487 = 2 TMP\_488 = 0 not(TMP\_488) = 1 TMP\_489 = 0 not(TMP\_489) = 1 TMP\_490 = 1 not(TMP\_490) = 0 TMP\_491 = 1 not(TMP\_491) = 0 TMP\_492 = 1 not(TMP\_492) = 0 TMP\_493 = 2 TMP\_494 = 1 not(TMP\_494) = 0 TMP\_495 = 1 not(TMP\_495) = 0 TMP\_496 = 1 not(TMP\_496) = 0 TMP\_497 = 1 not(TMP\_497) = 0 TMP\_498 = 0 not(TMP\_498) = 1 TMP\_499 = 1 not(TMP\_499) = 0 TMP\_500 = 5 TMP\_501 = 0 not(TMP\_501) = 1 TMP\_502 = 0 not(TMP\_502) = 1 TMP\_503 = 0 TMP\_504 = 1 not(TMP\_504) = 0 TMP\_505 = 1 not(TMP\_505) = 0 TMP\_506 = 2 TMP\_507 = 0 not(TMP\_507) = 1 TMP\_508 = 0 not(TMP\_508) = 1 TMP\_509 = 1 not(TMP\_509) = 0 TMP\_510 = 1 not(TMP\_510) = 0 TMP\_511 = 1 not(TMP\_511) = 0 TMP\_512 = 2 TMP\_513 = 1 not(TMP\_513) = 0 TMP\_514 = 0 not(TMP\_514) = 1 TMP\_515 = 1 not(TMP\_515) = 0 TMP\_516 = 1 not(TMP\_516) = 0 TMP\_517 = 1 not(TMP\_517) = 0 TMP\_518 = 1 not(TMP\_518) = 0 TMP\_519 = 5 TMP\_520 = 0 not(TMP\_520) = 1 TMP\_521 = 0 not(TMP\_521) = 1 TMP\_522 = 0 TMP\_523 = 1 not(TMP\_523) = 0 TMP\_524 = 1 not(TMP\_524) = 0 TMP\_525 = 2 TMP\_526 = 0 not(TMP\_526) = 1 TMP\_527 = 0 not(TMP\_527) = 1 TMP\_528 = 1 not(TMP\_528) = 0 TMP\_529 = 1 not(TMP\_529) = 0 TMP\_530 = 1 not(TMP\_530) = 0 TMP\_531 = 2 Area\_0 = 60 Distance\_0\_Rule\_0 = 20 Distance\_1\_Rule\_0 = 3 Distance\_2\_Rule\_0 = 1 Area\_1 = 174 Distance\_0\_Rule\_1 = 58 Distance\_1\_Rule\_1 = 3 Distance\_2\_Rule\_1 = 1 Area\_2 = 116 Distance\_0\_Rule\_2 = 58 Distance\_1\_Rule\_2 = 2 Distance\_2\_Rule\_2 = 1 Area\_3 = 58 Distance\_0\_Rule\_3 = 58 Distance\_1\_Rule\_3 = 1 Distance\_2\_Rule\_3 = 1 Area\_4 = 123 -(Rule\_4\_LB) = -79 Distance\_0\_Rule\_4 = 41 -(Rule\_4\_LB) = 0 Distance\_1\_Rule\_4 = 3 -(Rule\_4\_LB) = 0 Distance\_2\_Rule\_4 = 1 Area\_5 = 63 -(Rule\_5\_LB) = 0 Distance\_0\_Rule\_5 = 21 -(Rule\_5\_LB) = 0 Distance\_1\_Rule\_5 = 3 -(Rule\_5\_LB) = 0 Distance\_2\_Rule\_5 = 1 Area\_6 = 123 -(Rule\_6\_LB) = -79 Distance\_0\_Rule\_6 = 41 -(Rule\_6\_LB) = 0 Distance\_1\_Rule\_6 = 3 -(Rule\_6\_LB) = -1 Distance\_2\_Rule\_6 = 1 Area\_7 = 3 -(Rule\_7\_LB) = -20 Distance\_0\_Rule\_7 = 1 -(Rule\_7\_LB) = 0 Distance\_1\_Rule\_7 = 3 -(Rule\_7\_LB) = -1 Distance\_2\_Rule\_7 = 1 TMP\_532 = 720 .

- Solution #14 found. 14 Solutions, Resolution 0.348s, 104 Nodes (298.7 n/s), 130 Backtracks, 58 Fails, 0 Restarts

Rule\_4\_LB = 79 Rule\_4\_UB = 120 Rule\_4\_LB = 0 Rule\_4\_UB = 3 Rule\_4\_LB = 0 Rule\_4\_UB = 1 Rule\_5\_LB = 0 Rule\_5\_UB = 21 Rule\_5\_LB = 0 Rule\_5\_UB = 3 Rule\_5\_LB = 0 Rule\_5\_UB = 1 Rule\_6\_LB = 79 Rule\_6\_UB = 120 Rule\_6\_LB = 0 Rule\_6\_UB = 3 Rule\_6\_LB = 1 Rule\_6\_UB = 2 Rule\_7\_LB = 20 Rule\_7\_UB = 21 Rule\_7\_LB = 0 Rule\_7\_UB = 3 Rule\_7\_LB = 1 Rule\_7\_UB = 2 Overlaps\_0\_0 = 0 Overlaps\_0\_1 = 1 Overlaps\_0\_2 = 0 Overlaps\_0\_3 = 1 Overlaps\_0\_4 = 0 Overlaps\_0\_5 = 0 Overlaps\_0\_6 = 0 Overlaps\_0\_7 = 0 Overlaps\_1\_0 = 0 Overlaps\_1\_1 = 0 Overlaps\_1\_2 = 0 Overlaps\_1\_3 = 0 Overlaps\_1\_4 = 0 Overlaps\_1\_5 = 0 Overlaps\_1\_6 = 0 Overlaps\_1\_7 = 0 Overlaps\_2\_0 = 0 Overlaps\_2\_1 = 0 Overlaps\_2\_2 = 0 Overlaps\_2\_3 = 0 Overlaps\_2\_4 = 0 Overlaps\_2\_5 = 0 Overlaps\_2\_6 = 0 Overlaps\_2\_7 = 0 Overlaps\_3\_0 = 1 Overlaps\_3\_1 = 0 Overlaps\_3\_2 = 0 Overlaps\_3\_3 = 0 Overlaps\_3\_4 = 0 Overlaps\_3\_5 = 0 Overlaps\_3\_6 = 0 Overlaps\_3\_7 = 0 Overlaps\_4\_0 = 0 Overlaps\_4\_1 = 0 Overlaps\_4\_2 = 0 Overlaps\_4\_3 = 0 Overlaps\_4\_4 = 0 Overlaps\_4\_5 = 0 Overlaps\_4\_6 = 0 Overlaps\_4\_7 = 0 Overlaps\_5\_0 = 0 Overlaps\_5\_1 = 0 Overlaps\_5\_2 = 0 Overlaps\_5\_3 = 0 Overlaps\_5\_4 = 0 Overlaps\_5\_5 = 0 Overlaps\_5\_6 = 0 Overlaps\_5\_7 = 0 Overlaps\_6\_0 = 0 Overlaps\_6\_1 = 0 Overlaps\_6\_2 = 0 Overlaps\_6\_3 = 0 Overlaps\_6\_4 = 0 Overlaps\_6\_5 = 0 Overlaps\_6\_6 = 0 Overlaps\_6\_7 = 0 Overlaps\_7\_0 = 0 Overlaps\_7\_1 = 0 Overlaps\_7\_2 = 0 Overlaps\_7\_3 = 0 Overlaps\_7\_4 = 0 Overlaps\_7\_5 = 0 Overlaps\_7\_6 = 0 Overlaps\_7\_7 = 0 TMP\_0 = 0 not(TMP\_0) = 1 TMP\_1 = 1 not(TMP\_1) = 0 TMP\_2 = 1 not(TMP\_2) = 0 TMP\_3 = 1 not(TMP\_3) = 0 TMP\_4 = 1 not(TMP\_4) = 0 TMP\_5 = 0 not(TMP\_5) = 1 TMP\_6 = 4 TMP\_7 = 0 not(TMP\_7) = 1 TMP\_8 = 0 not(TMP\_8) = 1 TMP\_9 = 0 TMP\_10 = 1 not(TMP\_10) = 0 TMP\_11 = 1 not(TMP\_11) = 0 TMP\_12 = 2 TMP\_13 = 0 not(TMP\_13) = 1 TMP\_14 = 0 not(TMP\_14) = 1 TMP\_15 = 1 not(TMP\_15) = 0 TMP\_16 = 1 not(TMP\_16) = 0 TMP\_17 = 1 not(TMP\_17) = 0 TMP\_18 = 2 TMP\_19 = 0 not(TMP\_19) = 1 TMP\_20 = 1 not(TMP\_20) = 0 TMP\_21 = 1 not(TMP\_21) = 0 TMP\_22 = 1 not(TMP\_22) = 0 TMP\_23 = 1 not(TMP\_23) = 0 TMP\_24 = 0 not(TMP\_24) = 1 TMP\_25 = 4 TMP\_26 = 0 not(TMP\_26) = 1 TMP\_27 = 0 not(TMP\_27) = 1 TMP\_28 = 0 TMP\_29 = 1 not(TMP\_29) = 0 TMP\_30 = 1 not(TMP\_30) = 0 TMP\_31 = 2 TMP\_32 = 0 not(TMP\_32) = 1 TMP\_33 = 0 not(TMP\_33) = 1 TMP\_34 = 1 not(TMP\_34) = 0 TMP\_35 = 1 not(TMP\_35) = 0 TMP\_36 = 1 not(TMP\_36) = 0 TMP\_37 = 2 TMP\_38 = 0 not(TMP\_38) = 1 TMP\_39 = 1 not(TMP\_39) = 0 TMP\_40 = 1 not(TMP\_40) = 0 TMP\_41 = 1 not(TMP\_41) = 0 TMP\_42 = 1 not(TMP\_42) = 0 TMP\_43 = 1 not(TMP\_43) = 0 TMP\_44 = 5 TMP\_45 = 0 not(TMP\_45) = 1 TMP\_46 = 0 not(TMP\_46) = 1 TMP\_47 = 0 TMP\_48 = 1 not(TMP\_48) = 0 TMP\_49 = 1 not(TMP\_49) = 0 TMP\_50 = 2 TMP\_51 = 0 not(TMP\_51) = 1 TMP\_52 = 0 not(TMP\_52) = 1 TMP\_53 = 1 not(TMP\_53) = 0 TMP\_54 = 1 not(TMP\_54) = 0 TMP\_55 = 1 not(TMP\_55) = 0 TMP\_56 = 2 TMP\_57 = 0 not(TMP\_57) = 1 TMP\_58 = 1 not(TMP\_58) = 0 TMP\_59 = 1 not(TMP\_59) = 0 TMP\_60 = 1 not(TMP\_60) = 0 TMP\_61 = 1 not(TMP\_61) = 0 TMP\_62 = 1 not(TMP\_62) = 0 TMP\_63 = 5 TMP\_64 = 0 not(TMP\_64) = 1 TMP\_65 = 0 not(TMP\_65) = 1 TMP\_66 = 0 TMP\_67 = 1 not(TMP\_67) = 0 TMP\_68 = 1 not(TMP\_68) = 0 TMP\_69 = 2 TMP\_70 = 0 not(TMP\_70) = 1 TMP\_71 = 0 not(TMP\_71) = 1 TMP\_72 = 1 not(TMP\_72) = 0 TMP\_73 = 1 not(TMP\_73) = 0 TMP\_74 = 1 not(TMP\_74) = 0 TMP\_75 = 2 TMP\_76 = 0 not(TMP\_76) = 1 TMP\_77 = 1 not(TMP\_77) = 0 TMP\_78 = 1 not(TMP\_78) = 0 TMP\_79 = 1 not(TMP\_79) = 0 TMP\_80 = 1 not(TMP\_80) = 0 TMP\_81 = 1 not(TMP\_81) = 0 TMP\_82 = 5 TMP\_83 = 0 not(TMP\_83) = 1 TMP\_84 = 0 not(TMP\_84) = 1 TMP\_85 = 0 TMP\_86 = 1 not(TMP\_86) = 0 TMP\_87 = 1 not(TMP\_87) = 0 TMP\_88 = 2 TMP\_89 = 0 not(TMP\_89) = 1 TMP\_90 = 0 not(TMP\_90) = 1 TMP\_91 = 1 not(TMP\_91) = 0 TMP\_92 = 1 not(TMP\_92) = 0 TMP\_93 = 1 not(TMP\_93) = 0 TMP\_94 = 2 TMP\_95 = 1 not(TMP\_95) = 0 TMP\_96 = 1 not(TMP\_96) = 0 TMP\_97 = 1 not(TMP\_97) = 0 TMP\_98 = 1 not(TMP\_98) = 0 TMP\_99 = 1 not(TMP\_99) = 0 TMP\_100 = 0 not(TMP\_100) = 1 TMP\_101 = 5 TMP\_102 = 0 not(TMP\_102) = 1 TMP\_103 = 0 not(TMP\_103) = 1 TMP\_104 = 0 TMP\_105 = 1 not(TMP\_105) = 0 TMP\_106 = 1 not(TMP\_106) = 0 TMP\_107 = 2 TMP\_108 = 0 not(TMP\_108) = 1 TMP\_109 = 0 not(TMP\_109) = 1 TMP\_110 = 1 not(TMP\_110) = 0 TMP\_111 = 1 not(TMP\_111) = 0 TMP\_112 = 1 not(TMP\_112) = 0 TMP\_113 = 2 TMP\_114 = 0 not(TMP\_114) = 1 TMP\_115 = 1 not(TMP\_115) = 0 TMP\_116 = 1 not(TMP\_116) = 0 TMP\_117 = 1 not(TMP\_117) = 0 TMP\_118 = 1 not(TMP\_118) = 0 TMP\_119 = 0 not(TMP\_119) = 1 TMP\_120 = 4 TMP\_121 = 0 not(TMP\_121) = 1 TMP\_122 = 0 not(TMP\_122) = 1 TMP\_123 = 0 TMP\_124 = 1 not(TMP\_124) = 0 TMP\_125 = 1 not(TMP\_125) = 0 TMP\_126 = 2 TMP\_127 = 0 not(TMP\_127) = 1 TMP\_128 = 0 not(TMP\_128) = 1 TMP\_129 = 1 not(TMP\_129) = 0 TMP\_130 = 1 not(TMP\_130) = 0 TMP\_131 = 1 not(TMP\_131) = 0 TMP\_132 = 2 TMP\_133 = 1 not(TMP\_133) = 0 TMP\_134 = 1 not(TMP\_134) = 0 TMP\_135 = 1 not(TMP\_135) = 0 TMP\_136 = 1 not(TMP\_136) = 0 TMP\_137 = 1 not(TMP\_137) = 0 TMP\_138 = 0 not(TMP\_138) = 1 TMP\_139 = 5 TMP\_140 = 0 not(TMP\_140) = 1 TMP\_141 = 0 not(TMP\_141) = 1 TMP\_142 = 0 TMP\_143 = 1 not(TMP\_143) = 0 TMP\_144 = 1 not(TMP\_144) = 0 TMP\_145 = 2 TMP\_146 = 0 not(TMP\_146) = 1 TMP\_147 = 0 not(TMP\_147) = 1 TMP\_148 = 1 not(TMP\_148) = 0 TMP\_149 = 1 not(TMP\_149) = 0 TMP\_150 = 1 not(TMP\_150) = 0 TMP\_151 = 2 TMP\_152 = 1 not(TMP\_152) = 0 TMP\_153 = 0 not(TMP\_153) = 1 TMP\_154 = 1 not(TMP\_154) = 0 TMP\_155 = 1 not(TMP\_155) = 0 TMP\_156 = 1 not(TMP\_156) = 0 TMP\_157 = 0 not(TMP\_157) = 1 TMP\_158 = 4 TMP\_159 = 0 not(TMP\_159) = 1 TMP\_160 = 0 not(TMP\_160) = 1 TMP\_161 = 0 TMP\_162 = 1 not(TMP\_162) = 0 TMP\_163 = 1 not(TMP\_163) = 0 TMP\_164 = 2 TMP\_165 = 0 not(TMP\_165) = 1 TMP\_166 = 0 not(TMP\_166) = 1 TMP\_167 = 1 not(TMP\_167) = 0 TMP\_168 = 1 not(TMP\_168) = 0 TMP\_169 = 1 not(TMP\_169) = 0 TMP\_170 = 2 TMP\_171 = 1 not(TMP\_171) = 0 TMP\_172 = 0 not(TMP\_172) = 1 TMP\_173 = 1 not(TMP\_173) = 0 TMP\_174 = 1 not(TMP\_174) = 0 TMP\_175 = 1 not(TMP\_175) = 0 TMP\_176 = 1 not(TMP\_176) = 0 TMP\_177 = 5 TMP\_178 = 0 not(TMP\_178) = 1 TMP\_179 = 0 not(TMP\_179) = 1 TMP\_180 = 0 TMP\_181 = 1 not(TMP\_181) = 0 TMP\_182 = 1 not(TMP\_182) = 0 TMP\_183 = 2 TMP\_184 = 0 not(TMP\_184) = 1 TMP\_185 = 0 not(TMP\_185) = 1 TMP\_186 = 1 not(TMP\_186) = 0 TMP\_187 = 1 not(TMP\_187) = 0 TMP\_188 = 1 not(TMP\_188) = 0 TMP\_189 = 2 TMP\_190 = 1 not(TMP\_190) = 0 TMP\_191 = 0 not(TMP\_191) = 1 TMP\_192 = 1 not(TMP\_192) = 0 TMP\_193 = 1 not(TMP\_193) = 0 TMP\_194 = 1 not(TMP\_194) = 0 TMP\_195 = 1 not(TMP\_195) = 0 TMP\_196 = 5 TMP\_197 = 0 not(TMP\_197) = 1 TMP\_198 = 0 not(TMP\_198) = 1 TMP\_199 = 0 TMP\_200 = 1 not(TMP\_200) = 0 TMP\_201 = 1 not(TMP\_201) = 0 TMP\_202 = 2 TMP\_203 = 0 not(TMP\_203) = 1 TMP\_204 = 0 not(TMP\_204) = 1 TMP\_205 = 1 not(TMP\_205) = 0 TMP\_206 = 1 not(TMP\_206) = 0 TMP\_207 = 1 not(TMP\_207) = 0 TMP\_208 = 2 TMP\_209 = 1 not(TMP\_209) = 0 TMP\_210 = 0 not(TMP\_210) = 1 TMP\_211 = 1 not(TMP\_211) = 0 TMP\_212 = 1 not(TMP\_212) = 0 TMP\_213 = 1 not(TMP\_213) = 0 TMP\_214 = 1 not(TMP\_214) = 0 TMP\_215 = 5 TMP\_216 = 0 not(TMP\_216) = 1 TMP\_217 = 0 not(TMP\_217) = 1 TMP\_218 = 0 TMP\_219 = 1 not(TMP\_219) = 0 TMP\_220 = 1 not(TMP\_220) = 0 TMP\_221 = 2 TMP\_222 = 0 not(TMP\_222) = 1 TMP\_223 = 0 not(TMP\_223) = 1 TMP\_224 = 1 not(TMP\_224) = 0 TMP\_225 = 1 not(TMP\_225) = 0 TMP\_226 = 1 not(TMP\_226) = 0 TMP\_227 = 2 TMP\_228 = 1 not(TMP\_228) = 0 TMP\_229 = 0 not(TMP\_229) = 1 TMP\_230 = 1 not(TMP\_230) = 0 TMP\_231 = 1 not(TMP\_231) = 0 TMP\_232 = 1 not(TMP\_232) = 0 TMP\_233 = 0 not(TMP\_233) = 1 TMP\_234 = 4 TMP\_235 = 0 not(TMP\_235) = 1 TMP\_236 = 0 not(TMP\_236) = 1 TMP\_237 = 0 TMP\_238 = 1 not(TMP\_238) = 0 TMP\_239 = 1 not(TMP\_239) = 0 TMP\_240 = 2 TMP\_241 = 0 not(TMP\_241) = 1 TMP\_242 = 0 not(TMP\_242) = 1 TMP\_243 = 1 not(TMP\_243) = 0 TMP\_244 = 1 not(TMP\_244) = 0 TMP\_245 = 1 not(TMP\_245) = 0 TMP\_246 = 2 TMP\_247 = 1 not(TMP\_247) = 0 TMP\_248 = 1 not(TMP\_248) = 0 TMP\_249 = 1 not(TMP\_249) = 0 TMP\_250 = 1 not(TMP\_250) = 0 TMP\_251 = 1 not(TMP\_251) = 0 TMP\_252 = 0 not(TMP\_252) = 1 TMP\_253 = 5 TMP\_254 = 0 not(TMP\_254) = 1 TMP\_255 = 0 not(TMP\_255) = 1 TMP\_256 = 0 TMP\_257 = 1 not(TMP\_257) = 0 TMP\_258 = 1 not(TMP\_258) = 0 TMP\_259 = 2 TMP\_260 = 0 not(TMP\_260) = 1 TMP\_261 = 0 not(TMP\_261) = 1 TMP\_262 = 1 not(TMP\_262) = 0 TMP\_263 = 1 not(TMP\_263) = 0 TMP\_264 = 1 not(TMP\_264) = 0 TMP\_265 = 2 TMP\_266 = 0 not(TMP\_266) = 1 TMP\_267 = 1 not(TMP\_267) = 0 TMP\_268 = 1 not(TMP\_268) = 0 TMP\_269 = 1 not(TMP\_269) = 0 TMP\_270 = 1 not(TMP\_270) = 0 TMP\_271 = 1 not(TMP\_271) = 0 TMP\_272 = 5 TMP\_273 = 0 not(TMP\_273) = 1 TMP\_274 = 0 not(TMP\_274) = 1 TMP\_275 = 0 TMP\_276 = 1 not(TMP\_276) = 0 TMP\_277 = 1 not(TMP\_277) = 0 TMP\_278 = 2 TMP\_279 = 0 not(TMP\_279) = 1 TMP\_280 = 0 not(TMP\_280) = 1 TMP\_281 = 1 not(TMP\_281) = 0 TMP\_282 = 1 not(TMP\_282) = 0 TMP\_283 = 1 not(TMP\_283) = 0 TMP\_284 = 2 TMP\_285 = 0 not(TMP\_285) = 1 TMP\_286 = 1 not(TMP\_286) = 0 TMP\_287 = 1 not(TMP\_287) = 0 TMP\_288 = 1 not(TMP\_288) = 0 TMP\_289 = 1 not(TMP\_289) = 0 TMP\_290 = 1 not(TMP\_290) = 0 TMP\_291 = 5 TMP\_292 = 0 not(TMP\_292) = 1 TMP\_293 = 0 not(TMP\_293) = 1 TMP\_294 = 0 TMP\_295 = 1 not(TMP\_295) = 0 TMP\_296 = 1 not(TMP\_296) = 0 TMP\_297 = 2 TMP\_298 = 0 not(TMP\_298) = 1 TMP\_299 = 0 not(TMP\_299) = 1 TMP\_300 = 1 not(TMP\_300) = 0 TMP\_301 = 1 not(TMP\_301) = 0 TMP\_302 = 1 not(TMP\_302) = 0 TMP\_303 = 2 TMP\_304 = 0 not(TMP\_304) = 1 TMP\_305 = 1 not(TMP\_305) = 0 TMP\_306 = 1 not(TMP\_306) = 0 TMP\_307 = 1 not(TMP\_307) = 0 TMP\_308 = 0 not(TMP\_308) = 1 TMP\_309 = 1 not(TMP\_309) = 0 TMP\_310 = 4 TMP\_311 = 0 not(TMP\_311) = 1 TMP\_312 = 0 not(TMP\_312) = 1 TMP\_313 = 0 TMP\_314 = 1 not(TMP\_314) = 0 TMP\_315 = 1 not(TMP\_315) = 0 TMP\_316 = 2 TMP\_317 = 0 not(TMP\_317) = 1 TMP\_318 = 0 not(TMP\_318) = 1 TMP\_319 = 1 not(TMP\_319) = 0 TMP\_320 = 1 not(TMP\_320) = 0 TMP\_321 = 1 not(TMP\_321) = 0 TMP\_322 = 2 TMP\_323 = 0 not(TMP\_323) = 1 TMP\_324 = 1 not(TMP\_324) = 0 TMP\_325 = 1 not(TMP\_325) = 0 TMP\_326 = 1 not(TMP\_326) = 0 TMP\_327 = 0 not(TMP\_327) = 1 TMP\_328 = 1 not(TMP\_328) = 0 TMP\_329 = 4 TMP\_330 = 0 not(TMP\_330) = 1 TMP\_331 = 0 not(TMP\_331) = 1 TMP\_332 = 0 TMP\_333 = 1 not(TMP\_333) = 0 TMP\_334 = 1 not(TMP\_334) = 0 TMP\_335 = 2 TMP\_336 = 0 not(TMP\_336) = 1 TMP\_337 = 0 not(TMP\_337) = 1 TMP\_338 = 1 not(TMP\_338) = 0 TMP\_339 = 1 not(TMP\_339) = 0 TMP\_340 = 1 not(TMP\_340) = 0 TMP\_341 = 2 TMP\_342 = 1 not(TMP\_342) = 0 TMP\_343 = 1 not(TMP\_343) = 0 TMP\_344 = 1 not(TMP\_344) = 0 TMP\_345 = 1 not(TMP\_345) = 0 TMP\_346 = 0 not(TMP\_346) = 1 TMP\_347 = 1 not(TMP\_347) = 0 TMP\_348 = 5 TMP\_349 = 0 not(TMP\_349) = 1 TMP\_350 = 0 not(TMP\_350) = 1 TMP\_351 = 0 TMP\_352 = 1 not(TMP\_352) = 0 TMP\_353 = 1 not(TMP\_353) = 0 TMP\_354 = 2 TMP\_355 = 0 not(TMP\_355) = 1 TMP\_356 = 0 not(TMP\_356) = 1 TMP\_357 = 1 not(TMP\_357) = 0 TMP\_358 = 1 not(TMP\_358) = 0 TMP\_359 = 1 not(TMP\_359) = 0 TMP\_360 = 2 TMP\_361 = 0 not(TMP\_361) = 1 TMP\_362 = 1 not(TMP\_362) = 0 TMP\_363 = 1 not(TMP\_363) = 0 TMP\_364 = 1 not(TMP\_364) = 0 TMP\_365 = 0 not(TMP\_365) = 1 TMP\_366 = 1 not(TMP\_366) = 0 TMP\_367 = 4 TMP\_368 = 0 not(TMP\_368) = 1 TMP\_369 = 0 not(TMP\_369) = 1 TMP\_370 = 0 TMP\_371 = 1 not(TMP\_371) = 0 TMP\_372 = 1 not(TMP\_372) = 0 TMP\_373 = 2 TMP\_374 = 0 not(TMP\_374) = 1 TMP\_375 = 0 not(TMP\_375) = 1 TMP\_376 = 1 not(TMP\_376) = 0 TMP\_377 = 1 not(TMP\_377) = 0 TMP\_378 = 1 not(TMP\_378) = 0 TMP\_379 = 2 TMP\_380 = 0 not(TMP\_380) = 1 TMP\_381 = 1 not(TMP\_381) = 0 TMP\_382 = 1 not(TMP\_382) = 0 TMP\_383 = 1 not(TMP\_383) = 0 TMP\_384 = 1 not(TMP\_384) = 0 TMP\_385 = 1 not(TMP\_385) = 0 TMP\_386 = 5 TMP\_387 = 0 not(TMP\_387) = 1 TMP\_388 = 0 not(TMP\_388) = 1 TMP\_389 = 0 TMP\_390 = 1 not(TMP\_390) = 0 TMP\_391 = 1 not(TMP\_391) = 0 TMP\_392 = 2 TMP\_393 = 0 not(TMP\_393) = 1 TMP\_394 = 0 not(TMP\_394) = 1 TMP\_395 = 1 not(TMP\_395) = 0 TMP\_396 = 1 not(TMP\_396) = 0 TMP\_397 = 1 not(TMP\_397) = 0 TMP\_398 = 2 TMP\_399 = 0 not(TMP\_399) = 1 TMP\_400 = 1 not(TMP\_400) = 0 TMP\_401 = 1 not(TMP\_401) = 0 TMP\_402 = 1 not(TMP\_402) = 0 TMP\_403 = 1 not(TMP\_403) = 0 TMP\_404 = 1 not(TMP\_404) = 0 TMP\_405 = 5 TMP\_406 = 0 not(TMP\_406) = 1 TMP\_407 = 0 not(TMP\_407) = 1 TMP\_408 = 0 TMP\_409 = 1 not(TMP\_409) = 0 TMP\_410 = 1 not(TMP\_410) = 0 TMP\_411 = 2 TMP\_412 = 0 not(TMP\_412) = 1 TMP\_413 = 0 not(TMP\_413) = 1 TMP\_414 = 1 not(TMP\_414) = 0 TMP\_415 = 1 not(TMP\_415) = 0 TMP\_416 = 1 not(TMP\_416) = 0 TMP\_417 = 2 TMP\_418 = 1 not(TMP\_418) = 0 TMP\_419 = 0 not(TMP\_419) = 1 TMP\_420 = 1 not(TMP\_420) = 0 TMP\_421 = 1 not(TMP\_421) = 0 TMP\_422 = 1 not(TMP\_422) = 0 TMP\_423 = 1 not(TMP\_423) = 0 TMP\_424 = 5 TMP\_425 = 0 not(TMP\_425) = 1 TMP\_426 = 0 not(TMP\_426) = 1 TMP\_427 = 0 TMP\_428 = 1 not(TMP\_428) = 0 TMP\_429 = 1 not(TMP\_429) = 0 TMP\_430 = 2 TMP\_431 = 0 not(TMP\_431) = 1 TMP\_432 = 0 not(TMP\_432) = 1 TMP\_433 = 1 not(TMP\_433) = 0 TMP\_434 = 1 not(TMP\_434) = 0 TMP\_435 = 1 not(TMP\_435) = 0 TMP\_436 = 2 TMP\_437 = 1 not(TMP\_437) = 0 TMP\_438 = 0 not(TMP\_438) = 1 TMP\_439 = 1 not(TMP\_439) = 0 TMP\_440 = 1 not(TMP\_440) = 0 TMP\_441 = 0 not(TMP\_441) = 1 TMP\_442 = 1 not(TMP\_442) = 0 TMP\_443 = 4 TMP\_444 = 0 not(TMP\_444) = 1 TMP\_445 = 0 not(TMP\_445) = 1 TMP\_446 = 0 TMP\_447 = 1 not(TMP\_447) = 0 TMP\_448 = 1 not(TMP\_448) = 0 TMP\_449 = 2 TMP\_450 = 0 not(TMP\_450) = 1 TMP\_451 = 0 not(TMP\_451) = 1 TMP\_452 = 1 not(TMP\_452) = 0 TMP\_453 = 1 not(TMP\_453) = 0 TMP\_454 = 1 not(TMP\_454) = 0 TMP\_455 = 2 TMP\_456 = 1 not(TMP\_456) = 0 TMP\_457 = 0 not(TMP\_457) = 1 TMP\_458 = 1 not(TMP\_458) = 0 TMP\_459 = 1 not(TMP\_459) = 0 TMP\_460 = 0 not(TMP\_460) = 1 TMP\_461 = 1 not(TMP\_461) = 0 TMP\_462 = 4 TMP\_463 = 0 not(TMP\_463) = 1 TMP\_464 = 0 not(TMP\_464) = 1 TMP\_465 = 0 TMP\_466 = 1 not(TMP\_466) = 0 TMP\_467 = 1 not(TMP\_467) = 0 TMP\_468 = 2 TMP\_469 = 0 not(TMP\_469) = 1 TMP\_470 = 0 not(TMP\_470) = 1 TMP\_471 = 1 not(TMP\_471) = 0 TMP\_472 = 1 not(TMP\_472) = 0 TMP\_473 = 1 not(TMP\_473) = 0 TMP\_474 = 2 TMP\_475 = 1 not(TMP\_475) = 0 TMP\_476 = 0 not(TMP\_476) = 1 TMP\_477 = 1 not(TMP\_477) = 0 TMP\_478 = 1 not(TMP\_478) = 0 TMP\_479 = 0 not(TMP\_479) = 1 TMP\_480 = 1 not(TMP\_480) = 0 TMP\_481 = 4 TMP\_482 = 0 not(TMP\_482) = 1 TMP\_483 = 0 not(TMP\_483) = 1 TMP\_484 = 0 TMP\_485 = 1 not(TMP\_485) = 0 TMP\_486 = 1 not(TMP\_486) = 0 TMP\_487 = 2 TMP\_488 = 0 not(TMP\_488) = 1 TMP\_489 = 0 not(TMP\_489) = 1 TMP\_490 = 1 not(TMP\_490) = 0 TMP\_491 = 1 not(TMP\_491) = 0 TMP\_492 = 1 not(TMP\_492) = 0 TMP\_493 = 2 TMP\_494 = 1 not(TMP\_494) = 0 TMP\_495 = 1 not(TMP\_495) = 0 TMP\_496 = 1 not(TMP\_496) = 0 TMP\_497 = 1 not(TMP\_497) = 0 TMP\_498 = 0 not(TMP\_498) = 1 TMP\_499 = 1 not(TMP\_499) = 0 TMP\_500 = 5 TMP\_501 = 0 not(TMP\_501) = 1 TMP\_502 = 0 not(TMP\_502) = 1 TMP\_503 = 0 TMP\_504 = 1 not(TMP\_504) = 0 TMP\_505 = 1 not(TMP\_505) = 0 TMP\_506 = 2 TMP\_507 = 0 not(TMP\_507) = 1 TMP\_508 = 0 not(TMP\_508) = 1 TMP\_509 = 1 not(TMP\_509) = 0 TMP\_510 = 1 not(TMP\_510) = 0 TMP\_511 = 1 not(TMP\_511) = 0 TMP\_512 = 2 TMP\_513 = 1 not(TMP\_513) = 0 TMP\_514 = 0 not(TMP\_514) = 1 TMP\_515 = 1 not(TMP\_515) = 0 TMP\_516 = 1 not(TMP\_516) = 0 TMP\_517 = 1 not(TMP\_517) = 0 TMP\_518 = 1 not(TMP\_518) = 0 TMP\_519 = 5 TMP\_520 = 0 not(TMP\_520) = 1 TMP\_521 = 0 not(TMP\_521) = 1 TMP\_522 = 0 TMP\_523 = 1 not(TMP\_523) = 0 TMP\_524 = 1 not(TMP\_524) = 0 TMP\_525 = 2 TMP\_526 = 0 not(TMP\_526) = 1 TMP\_527 = 0 not(TMP\_527) = 1 TMP\_528 = 1 not(TMP\_528) = 0 TMP\_529 = 1 not(TMP\_529) = 0 TMP\_530 = 1 not(TMP\_530) = 0 TMP\_531 = 2 Area\_0 = 60 Distance\_0\_Rule\_0 = 20 Distance\_1\_Rule\_0 = 3 Distance\_2\_Rule\_0 = 1 Area\_1 = 174 Distance\_0\_Rule\_1 = 58 Distance\_1\_Rule\_1 = 3 Distance\_2\_Rule\_1 = 1 Area\_2 = 116 Distance\_0\_Rule\_2 = 58 Distance\_1\_Rule\_2 = 2 Distance\_2\_Rule\_2 = 1 Area\_3 = 58 Distance\_0\_Rule\_3 = 58 Distance\_1\_Rule\_3 = 1 Distance\_2\_Rule\_3 = 1 Area\_4 = 123 -(Rule\_4\_LB) = -79 Distance\_0\_Rule\_4 = 41 -(Rule\_4\_LB) = 0 Distance\_1\_Rule\_4 = 3 -(Rule\_4\_LB) = 0 Distance\_2\_Rule\_4 = 1 Area\_5 = 63 -(Rule\_5\_LB) = 0 Distance\_0\_Rule\_5 = 21 -(Rule\_5\_LB) = 0 Distance\_1\_Rule\_5 = 3 -(Rule\_5\_LB) = 0 Distance\_2\_Rule\_5 = 1 Area\_6 = 123 -(Rule\_6\_LB) = -79 Distance\_0\_Rule\_6 = 41 -(Rule\_6\_LB) = 0 Distance\_1\_Rule\_6 = 3 -(Rule\_6\_LB) = -1 Distance\_2\_Rule\_6 = 1 Area\_7 = 3 -(Rule\_7\_LB) = -20 Distance\_0\_Rule\_7 = 1 -(Rule\_7\_LB) = 0 Distance\_1\_Rule\_7 = 3 -(Rule\_7\_LB) = -1 Distance\_2\_Rule\_7 = 1 TMP\_532 = 720 .

- Solution #15 found. 15 Solutions, Resolution 0.352s, 106 Nodes (301.0 n/s), 132 Backtracks, 58 Fails, 0 Restarts

Rule\_4\_LB = 79 Rule\_4\_UB = 120 Rule\_4\_LB = 0 Rule\_4\_UB = 3 Rule\_4\_LB = 0 Rule\_4\_UB = 1 Rule\_5\_LB = 0 Rule\_5\_UB = 21 Rule\_5\_LB = 0 Rule\_5\_UB = 3 Rule\_5\_LB = 0 Rule\_5\_UB = 1 Rule\_6\_LB = 79 Rule\_6\_UB = 120 Rule\_6\_LB = 0 Rule\_6\_UB = 3 Rule\_6\_LB = 1 Rule\_6\_UB = 2 Rule\_7\_LB = 20 Rule\_7\_UB = 21 Rule\_7\_LB = 0 Rule\_7\_UB = 3 Rule\_7\_LB = 1 Rule\_7\_UB = 2 Overlaps\_0\_0 = 0 Overlaps\_0\_1 = 1 Overlaps\_0\_2 = 0 Overlaps\_0\_3 = 1 Overlaps\_0\_4 = 0 Overlaps\_0\_5 = 0 Overlaps\_0\_6 = 0 Overlaps\_0\_7 = 0 Overlaps\_1\_0 = 0 Overlaps\_1\_1 = 0 Overlaps\_1\_2 = 0 Overlaps\_1\_3 = 0 Overlaps\_1\_4 = 0 Overlaps\_1\_5 = 0 Overlaps\_1\_6 = 0 Overlaps\_1\_7 = 0 Overlaps\_2\_0 = 0 Overlaps\_2\_1 = 1 Overlaps\_2\_2 = 0 Overlaps\_2\_3 = 0 Overlaps\_2\_4 = 0 Overlaps\_2\_5 = 0 Overlaps\_2\_6 = 0 Overlaps\_2\_7 = 0 Overlaps\_3\_0 = 0 Overlaps\_3\_1 = 0 Overlaps\_3\_2 = 0 Overlaps\_3\_3 = 0 Overlaps\_3\_4 = 0 Overlaps\_3\_5 = 0 Overlaps\_3\_6 = 0 Overlaps\_3\_7 = 0 Overlaps\_4\_0 = 0 Overlaps\_4\_1 = 0 Overlaps\_4\_2 = 0 Overlaps\_4\_3 = 0 Overlaps\_4\_4 = 0 Overlaps\_4\_5 = 0 Overlaps\_4\_6 = 0 Overlaps\_4\_7 = 0 Overlaps\_5\_0 = 0 Overlaps\_5\_1 = 0 Overlaps\_5\_2 = 0 Overlaps\_5\_3 = 0 Overlaps\_5\_4 = 0 Overlaps\_5\_5 = 0 Overlaps\_5\_6 = 0 Overlaps\_5\_7 = 0 Overlaps\_6\_0 = 0 Overlaps\_6\_1 = 0 Overlaps\_6\_2 = 0 Overlaps\_6\_3 = 0 Overlaps\_6\_4 = 0 Overlaps\_6\_5 = 0 Overlaps\_6\_6 = 0 Overlaps\_6\_7 = 0 Overlaps\_7\_0 = 0 Overlaps\_7\_1 = 0 Overlaps\_7\_2 = 0 Overlaps\_7\_3 = 0 Overlaps\_7\_4 = 0 Overlaps\_7\_5 = 0 Overlaps\_7\_6 = 0 Overlaps\_7\_7 = 0 TMP\_0 = 0 not(TMP\_0) = 1 TMP\_1 = 1 not(TMP\_1) = 0 TMP\_2 = 1 not(TMP\_2) = 0 TMP\_3 = 1 not(TMP\_3) = 0 TMP\_4 = 1 not(TMP\_4) = 0 TMP\_5 = 0 not(TMP\_5) = 1 TMP\_6 = 4 TMP\_7 = 0 not(TMP\_7) = 1 TMP\_8 = 0 not(TMP\_8) = 1 TMP\_9 = 0 TMP\_10 = 1 not(TMP\_10) = 0 TMP\_11 = 1 not(TMP\_11) = 0 TMP\_12 = 2 TMP\_13 = 0 not(TMP\_13) = 1 TMP\_14 = 0 not(TMP\_14) = 1 TMP\_15 = 1 not(TMP\_15) = 0 TMP\_16 = 1 not(TMP\_16) = 0 TMP\_17 = 1 not(TMP\_17) = 0 TMP\_18 = 2 TMP\_19 = 0 not(TMP\_19) = 1 TMP\_20 = 1 not(TMP\_20) = 0 TMP\_21 = 1 not(TMP\_21) = 0 TMP\_22 = 1 not(TMP\_22) = 0 TMP\_23 = 1 not(TMP\_23) = 0 TMP\_24 = 0 not(TMP\_24) = 1 TMP\_25 = 4 TMP\_26 = 0 not(TMP\_26) = 1 TMP\_27 = 0 not(TMP\_27) = 1 TMP\_28 = 0 TMP\_29 = 1 not(TMP\_29) = 0 TMP\_30 = 1 not(TMP\_30) = 0 TMP\_31 = 2 TMP\_32 = 0 not(TMP\_32) = 1 TMP\_33 = 0 not(TMP\_33) = 1 TMP\_34 = 1 not(TMP\_34) = 0 TMP\_35 = 1 not(TMP\_35) = 0 TMP\_36 = 1 not(TMP\_36) = 0 TMP\_37 = 2 TMP\_38 = 0 not(TMP\_38) = 1 TMP\_39 = 1 not(TMP\_39) = 0 TMP\_40 = 1 not(TMP\_40) = 0 TMP\_41 = 1 not(TMP\_41) = 0 TMP\_42 = 1 not(TMP\_42) = 0 TMP\_43 = 1 not(TMP\_43) = 0 TMP\_44 = 5 TMP\_45 = 0 not(TMP\_45) = 1 TMP\_46 = 0 not(TMP\_46) = 1 TMP\_47 = 0 TMP\_48 = 1 not(TMP\_48) = 0 TMP\_49 = 1 not(TMP\_49) = 0 TMP\_50 = 2 TMP\_51 = 0 not(TMP\_51) = 1 TMP\_52 = 0 not(TMP\_52) = 1 TMP\_53 = 1 not(TMP\_53) = 0 TMP\_54 = 1 not(TMP\_54) = 0 TMP\_55 = 1 not(TMP\_55) = 0 TMP\_56 = 2 TMP\_57 = 0 not(TMP\_57) = 1 TMP\_58 = 1 not(TMP\_58) = 0 TMP\_59 = 1 not(TMP\_59) = 0 TMP\_60 = 1 not(TMP\_60) = 0 TMP\_61 = 1 not(TMP\_61) = 0 TMP\_62 = 1 not(TMP\_62) = 0 TMP\_63 = 5 TMP\_64 = 0 not(TMP\_64) = 1 TMP\_65 = 0 not(TMP\_65) = 1 TMP\_66 = 0 TMP\_67 = 1 not(TMP\_67) = 0 TMP\_68 = 1 not(TMP\_68) = 0 TMP\_69 = 2 TMP\_70 = 0 not(TMP\_70) = 1 TMP\_71 = 0 not(TMP\_71) = 1 TMP\_72 = 1 not(TMP\_72) = 0 TMP\_73 = 1 not(TMP\_73) = 0 TMP\_74 = 1 not(TMP\_74) = 0 TMP\_75 = 2 TMP\_76 = 0 not(TMP\_76) = 1 TMP\_77 = 1 not(TMP\_77) = 0 TMP\_78 = 1 not(TMP\_78) = 0 TMP\_79 = 1 not(TMP\_79) = 0 TMP\_80 = 1 not(TMP\_80) = 0 TMP\_81 = 1 not(TMP\_81) = 0 TMP\_82 = 5 TMP\_83 = 0 not(TMP\_83) = 1 TMP\_84 = 0 not(TMP\_84) = 1 TMP\_85 = 0 TMP\_86 = 1 not(TMP\_86) = 0 TMP\_87 = 1 not(TMP\_87) = 0 TMP\_88 = 2 TMP\_89 = 0 not(TMP\_89) = 1 TMP\_90 = 0 not(TMP\_90) = 1 TMP\_91 = 1 not(TMP\_91) = 0 TMP\_92 = 1 not(TMP\_92) = 0 TMP\_93 = 1 not(TMP\_93) = 0 TMP\_94 = 2 TMP\_95 = 1 not(TMP\_95) = 0 TMP\_96 = 1 not(TMP\_96) = 0 TMP\_97 = 1 not(TMP\_97) = 0 TMP\_98 = 1 not(TMP\_98) = 0 TMP\_99 = 1 not(TMP\_99) = 0 TMP\_100 = 0 not(TMP\_100) = 1 TMP\_101 = 5 TMP\_102 = 0 not(TMP\_102) = 1 TMP\_103 = 0 not(TMP\_103) = 1 TMP\_104 = 0 TMP\_105 = 1 not(TMP\_105) = 0 TMP\_106 = 1 not(TMP\_106) = 0 TMP\_107 = 2 TMP\_108 = 0 not(TMP\_108) = 1 TMP\_109 = 0 not(TMP\_109) = 1 TMP\_110 = 1 not(TMP\_110) = 0 TMP\_111 = 1 not(TMP\_111) = 0 TMP\_112 = 1 not(TMP\_112) = 0 TMP\_113 = 2 TMP\_114 = 0 not(TMP\_114) = 1 TMP\_115 = 1 not(TMP\_115) = 0 TMP\_116 = 1 not(TMP\_116) = 0 TMP\_117 = 1 not(TMP\_117) = 0 TMP\_118 = 1 not(TMP\_118) = 0 TMP\_119 = 0 not(TMP\_119) = 1 TMP\_120 = 4 TMP\_121 = 0 not(TMP\_121) = 1 TMP\_122 = 0 not(TMP\_122) = 1 TMP\_123 = 0 TMP\_124 = 1 not(TMP\_124) = 0 TMP\_125 = 1 not(TMP\_125) = 0 TMP\_126 = 2 TMP\_127 = 0 not(TMP\_127) = 1 TMP\_128 = 0 not(TMP\_128) = 1 TMP\_129 = 1 not(TMP\_129) = 0 TMP\_130 = 1 not(TMP\_130) = 0 TMP\_131 = 1 not(TMP\_131) = 0 TMP\_132 = 2 TMP\_133 = 1 not(TMP\_133) = 0 TMP\_134 = 1 not(TMP\_134) = 0 TMP\_135 = 1 not(TMP\_135) = 0 TMP\_136 = 1 not(TMP\_136) = 0 TMP\_137 = 1 not(TMP\_137) = 0 TMP\_138 = 0 not(TMP\_138) = 1 TMP\_139 = 5 TMP\_140 = 0 not(TMP\_140) = 1 TMP\_141 = 0 not(TMP\_141) = 1 TMP\_142 = 0 TMP\_143 = 1 not(TMP\_143) = 0 TMP\_144 = 1 not(TMP\_144) = 0 TMP\_145 = 2 TMP\_146 = 0 not(TMP\_146) = 1 TMP\_147 = 0 not(TMP\_147) = 1 TMP\_148 = 1 not(TMP\_148) = 0 TMP\_149 = 1 not(TMP\_149) = 0 TMP\_150 = 1 not(TMP\_150) = 0 TMP\_151 = 2 TMP\_152 = 1 not(TMP\_152) = 0 TMP\_153 = 0 not(TMP\_153) = 1 TMP\_154 = 1 not(TMP\_154) = 0 TMP\_155 = 1 not(TMP\_155) = 0 TMP\_156 = 1 not(TMP\_156) = 0 TMP\_157 = 0 not(TMP\_157) = 1 TMP\_158 = 4 TMP\_159 = 0 not(TMP\_159) = 1 TMP\_160 = 0 not(TMP\_160) = 1 TMP\_161 = 0 TMP\_162 = 1 not(TMP\_162) = 0 TMP\_163 = 1 not(TMP\_163) = 0 TMP\_164 = 2 TMP\_165 = 0 not(TMP\_165) = 1 TMP\_166 = 0 not(TMP\_166) = 1 TMP\_167 = 1 not(TMP\_167) = 0 TMP\_168 = 1 not(TMP\_168) = 0 TMP\_169 = 1 not(TMP\_169) = 0 TMP\_170 = 2 TMP\_171 = 1 not(TMP\_171) = 0 TMP\_172 = 0 not(TMP\_172) = 1 TMP\_173 = 1 not(TMP\_173) = 0 TMP\_174 = 1 not(TMP\_174) = 0 TMP\_175 = 1 not(TMP\_175) = 0 TMP\_176 = 1 not(TMP\_176) = 0 TMP\_177 = 5 TMP\_178 = 0 not(TMP\_178) = 1 TMP\_179 = 0 not(TMP\_179) = 1 TMP\_180 = 0 TMP\_181 = 1 not(TMP\_181) = 0 TMP\_182 = 1 not(TMP\_182) = 0 TMP\_183 = 2 TMP\_184 = 0 not(TMP\_184) = 1 TMP\_185 = 0 not(TMP\_185) = 1 TMP\_186 = 1 not(TMP\_186) = 0 TMP\_187 = 1 not(TMP\_187) = 0 TMP\_188 = 1 not(TMP\_188) = 0 TMP\_189 = 2 TMP\_190 = 1 not(TMP\_190) = 0 TMP\_191 = 0 not(TMP\_191) = 1 TMP\_192 = 1 not(TMP\_192) = 0 TMP\_193 = 1 not(TMP\_193) = 0 TMP\_194 = 1 not(TMP\_194) = 0 TMP\_195 = 1 not(TMP\_195) = 0 TMP\_196 = 5 TMP\_197 = 0 not(TMP\_197) = 1 TMP\_198 = 0 not(TMP\_198) = 1 TMP\_199 = 0 TMP\_200 = 1 not(TMP\_200) = 0 TMP\_201 = 1 not(TMP\_201) = 0 TMP\_202 = 2 TMP\_203 = 0 not(TMP\_203) = 1 TMP\_204 = 0 not(TMP\_204) = 1 TMP\_205 = 1 not(TMP\_205) = 0 TMP\_206 = 1 not(TMP\_206) = 0 TMP\_207 = 1 not(TMP\_207) = 0 TMP\_208 = 2 TMP\_209 = 1 not(TMP\_209) = 0 TMP\_210 = 0 not(TMP\_210) = 1 TMP\_211 = 1 not(TMP\_211) = 0 TMP\_212 = 1 not(TMP\_212) = 0 TMP\_213 = 1 not(TMP\_213) = 0 TMP\_214 = 1 not(TMP\_214) = 0 TMP\_215 = 5 TMP\_216 = 0 not(TMP\_216) = 1 TMP\_217 = 0 not(TMP\_217) = 1 TMP\_218 = 0 TMP\_219 = 1 not(TMP\_219) = 0 TMP\_220 = 1 not(TMP\_220) = 0 TMP\_221 = 2 TMP\_222 = 0 not(TMP\_222) = 1 TMP\_223 = 0 not(TMP\_223) = 1 TMP\_224 = 1 not(TMP\_224) = 0 TMP\_225 = 1 not(TMP\_225) = 0 TMP\_226 = 1 not(TMP\_226) = 0 TMP\_227 = 2 TMP\_228 = 1 not(TMP\_228) = 0 TMP\_229 = 0 not(TMP\_229) = 1 TMP\_230 = 1 not(TMP\_230) = 0 TMP\_231 = 1 not(TMP\_231) = 0 TMP\_232 = 1 not(TMP\_232) = 0 TMP\_233 = 0 not(TMP\_233) = 1 TMP\_234 = 4 TMP\_235 = 0 not(TMP\_235) = 1 TMP\_236 = 0 not(TMP\_236) = 1 TMP\_237 = 0 TMP\_238 = 1 not(TMP\_238) = 0 TMP\_239 = 1 not(TMP\_239) = 0 TMP\_240 = 2 TMP\_241 = 0 not(TMP\_241) = 1 TMP\_242 = 0 not(TMP\_242) = 1 TMP\_243 = 1 not(TMP\_243) = 0 TMP\_244 = 1 not(TMP\_244) = 0 TMP\_245 = 1 not(TMP\_245) = 0 TMP\_246 = 2 TMP\_247 = 1 not(TMP\_247) = 0 TMP\_248 = 1 not(TMP\_248) = 0 TMP\_249 = 1 not(TMP\_249) = 0 TMP\_250 = 1 not(TMP\_250) = 0 TMP\_251 = 1 not(TMP\_251) = 0 TMP\_252 = 0 not(TMP\_252) = 1 TMP\_253 = 5 TMP\_254 = 0 not(TMP\_254) = 1 TMP\_255 = 0 not(TMP\_255) = 1 TMP\_256 = 0 TMP\_257 = 1 not(TMP\_257) = 0 TMP\_258 = 1 not(TMP\_258) = 0 TMP\_259 = 2 TMP\_260 = 0 not(TMP\_260) = 1 TMP\_261 = 0 not(TMP\_261) = 1 TMP\_262 = 1 not(TMP\_262) = 0 TMP\_263 = 1 not(TMP\_263) = 0 TMP\_264 = 1 not(TMP\_264) = 0 TMP\_265 = 2 TMP\_266 = 0 not(TMP\_266) = 1 TMP\_267 = 1 not(TMP\_267) = 0 TMP\_268 = 1 not(TMP\_268) = 0 TMP\_269 = 1 not(TMP\_269) = 0 TMP\_270 = 1 not(TMP\_270) = 0 TMP\_271 = 1 not(TMP\_271) = 0 TMP\_272 = 5 TMP\_273 = 0 not(TMP\_273) = 1 TMP\_274 = 0 not(TMP\_274) = 1 TMP\_275 = 0 TMP\_276 = 1 not(TMP\_276) = 0 TMP\_277 = 1 not(TMP\_277) = 0 TMP\_278 = 2 TMP\_279 = 0 not(TMP\_279) = 1 TMP\_280 = 0 not(TMP\_280) = 1 TMP\_281 = 1 not(TMP\_281) = 0 TMP\_282 = 1 not(TMP\_282) = 0 TMP\_283 = 1 not(TMP\_283) = 0 TMP\_284 = 2 TMP\_285 = 0 not(TMP\_285) = 1 TMP\_286 = 1 not(TMP\_286) = 0 TMP\_287 = 1 not(TMP\_287) = 0 TMP\_288 = 1 not(TMP\_288) = 0 TMP\_289 = 1 not(TMP\_289) = 0 TMP\_290 = 1 not(TMP\_290) = 0 TMP\_291 = 5 TMP\_292 = 0 not(TMP\_292) = 1 TMP\_293 = 0 not(TMP\_293) = 1 TMP\_294 = 0 TMP\_295 = 1 not(TMP\_295) = 0 TMP\_296 = 1 not(TMP\_296) = 0 TMP\_297 = 2 TMP\_298 = 0 not(TMP\_298) = 1 TMP\_299 = 0 not(TMP\_299) = 1 TMP\_300 = 1 not(TMP\_300) = 0 TMP\_301 = 1 not(TMP\_301) = 0 TMP\_302 = 1 not(TMP\_302) = 0 TMP\_303 = 2 TMP\_304 = 0 not(TMP\_304) = 1 TMP\_305 = 1 not(TMP\_305) = 0 TMP\_306 = 1 not(TMP\_306) = 0 TMP\_307 = 1 not(TMP\_307) = 0 TMP\_308 = 0 not(TMP\_308) = 1 TMP\_309 = 1 not(TMP\_309) = 0 TMP\_310 = 4 TMP\_311 = 0 not(TMP\_311) = 1 TMP\_312 = 0 not(TMP\_312) = 1 TMP\_313 = 0 TMP\_314 = 1 not(TMP\_314) = 0 TMP\_315 = 1 not(TMP\_315) = 0 TMP\_316 = 2 TMP\_317 = 0 not(TMP\_317) = 1 TMP\_318 = 0 not(TMP\_318) = 1 TMP\_319 = 1 not(TMP\_319) = 0 TMP\_320 = 1 not(TMP\_320) = 0 TMP\_321 = 1 not(TMP\_321) = 0 TMP\_322 = 2 TMP\_323 = 0 not(TMP\_323) = 1 TMP\_324 = 1 not(TMP\_324) = 0 TMP\_325 = 1 not(TMP\_325) = 0 TMP\_326 = 1 not(TMP\_326) = 0 TMP\_327 = 0 not(TMP\_327) = 1 TMP\_328 = 1 not(TMP\_328) = 0 TMP\_329 = 4 TMP\_330 = 0 not(TMP\_330) = 1 TMP\_331 = 0 not(TMP\_331) = 1 TMP\_332 = 0 TMP\_333 = 1 not(TMP\_333) = 0 TMP\_334 = 1 not(TMP\_334) = 0 TMP\_335 = 2 TMP\_336 = 0 not(TMP\_336) = 1 TMP\_337 = 0 not(TMP\_337) = 1 TMP\_338 = 1 not(TMP\_338) = 0 TMP\_339 = 1 not(TMP\_339) = 0 TMP\_340 = 1 not(TMP\_340) = 0 TMP\_341 = 2 TMP\_342 = 1 not(TMP\_342) = 0 TMP\_343 = 1 not(TMP\_343) = 0 TMP\_344 = 1 not(TMP\_344) = 0 TMP\_345 = 1 not(TMP\_345) = 0 TMP\_346 = 0 not(TMP\_346) = 1 TMP\_347 = 1 not(TMP\_347) = 0 TMP\_348 = 5 TMP\_349 = 0 not(TMP\_349) = 1 TMP\_350 = 0 not(TMP\_350) = 1 TMP\_351 = 0 TMP\_352 = 1 not(TMP\_352) = 0 TMP\_353 = 1 not(TMP\_353) = 0 TMP\_354 = 2 TMP\_355 = 0 not(TMP\_355) = 1 TMP\_356 = 0 not(TMP\_356) = 1 TMP\_357 = 1 not(TMP\_357) = 0 TMP\_358 = 1 not(TMP\_358) = 0 TMP\_359 = 1 not(TMP\_359) = 0 TMP\_360 = 2 TMP\_361 = 0 not(TMP\_361) = 1 TMP\_362 = 1 not(TMP\_362) = 0 TMP\_363 = 1 not(TMP\_363) = 0 TMP\_364 = 1 not(TMP\_364) = 0 TMP\_365 = 0 not(TMP\_365) = 1 TMP\_366 = 1 not(TMP\_366) = 0 TMP\_367 = 4 TMP\_368 = 0 not(TMP\_368) = 1 TMP\_369 = 0 not(TMP\_369) = 1 TMP\_370 = 0 TMP\_371 = 1 not(TMP\_371) = 0 TMP\_372 = 1 not(TMP\_372) = 0 TMP\_373 = 2 TMP\_374 = 0 not(TMP\_374) = 1 TMP\_375 = 0 not(TMP\_375) = 1 TMP\_376 = 1 not(TMP\_376) = 0 TMP\_377 = 1 not(TMP\_377) = 0 TMP\_378 = 1 not(TMP\_378) = 0 TMP\_379 = 2 TMP\_380 = 0 not(TMP\_380) = 1 TMP\_381 = 1 not(TMP\_381) = 0 TMP\_382 = 1 not(TMP\_382) = 0 TMP\_383 = 1 not(TMP\_383) = 0 TMP\_384 = 1 not(TMP\_384) = 0 TMP\_385 = 1 not(TMP\_385) = 0 TMP\_386 = 5 TMP\_387 = 0 not(TMP\_387) = 1 TMP\_388 = 0 not(TMP\_388) = 1 TMP\_389 = 0 TMP\_390 = 1 not(TMP\_390) = 0 TMP\_391 = 1 not(TMP\_391) = 0 TMP\_392 = 2 TMP\_393 = 0 not(TMP\_393) = 1 TMP\_394 = 0 not(TMP\_394) = 1 TMP\_395 = 1 not(TMP\_395) = 0 TMP\_396 = 1 not(TMP\_396) = 0 TMP\_397 = 1 not(TMP\_397) = 0 TMP\_398 = 2 TMP\_399 = 0 not(TMP\_399) = 1 TMP\_400 = 1 not(TMP\_400) = 0 TMP\_401 = 1 not(TMP\_401) = 0 TMP\_402 = 1 not(TMP\_402) = 0 TMP\_403 = 1 not(TMP\_403) = 0 TMP\_404 = 1 not(TMP\_404) = 0 TMP\_405 = 5 TMP\_406 = 0 not(TMP\_406) = 1 TMP\_407 = 0 not(TMP\_407) = 1 TMP\_408 = 0 TMP\_409 = 1 not(TMP\_409) = 0 TMP\_410 = 1 not(TMP\_410) = 0 TMP\_411 = 2 TMP\_412 = 0 not(TMP\_412) = 1 TMP\_413 = 0 not(TMP\_413) = 1 TMP\_414 = 1 not(TMP\_414) = 0 TMP\_415 = 1 not(TMP\_415) = 0 TMP\_416 = 1 not(TMP\_416) = 0 TMP\_417 = 2 TMP\_418 = 1 not(TMP\_418) = 0 TMP\_419 = 0 not(TMP\_419) = 1 TMP\_420 = 1 not(TMP\_420) = 0 TMP\_421 = 1 not(TMP\_421) = 0 TMP\_422 = 1 not(TMP\_422) = 0 TMP\_423 = 1 not(TMP\_423) = 0 TMP\_424 = 5 TMP\_425 = 0 not(TMP\_425) = 1 TMP\_426 = 0 not(TMP\_426) = 1 TMP\_427 = 0 TMP\_428 = 1 not(TMP\_428) = 0 TMP\_429 = 1 not(TMP\_429) = 0 TMP\_430 = 2 TMP\_431 = 0 not(TMP\_431) = 1 TMP\_432 = 0 not(TMP\_432) = 1 TMP\_433 = 1 not(TMP\_433) = 0 TMP\_434 = 1 not(TMP\_434) = 0 TMP\_435 = 1 not(TMP\_435) = 0 TMP\_436 = 2 TMP\_437 = 1 not(TMP\_437) = 0 TMP\_438 = 0 not(TMP\_438) = 1 TMP\_439 = 1 not(TMP\_439) = 0 TMP\_440 = 1 not(TMP\_440) = 0 TMP\_441 = 0 not(TMP\_441) = 1 TMP\_442 = 1 not(TMP\_442) = 0 TMP\_443 = 4 TMP\_444 = 0 not(TMP\_444) = 1 TMP\_445 = 0 not(TMP\_445) = 1 TMP\_446 = 0 TMP\_447 = 1 not(TMP\_447) = 0 TMP\_448 = 1 not(TMP\_448) = 0 TMP\_449 = 2 TMP\_450 = 0 not(TMP\_450) = 1 TMP\_451 = 0 not(TMP\_451) = 1 TMP\_452 = 1 not(TMP\_452) = 0 TMP\_453 = 1 not(TMP\_453) = 0 TMP\_454 = 1 not(TMP\_454) = 0 TMP\_455 = 2 TMP\_456 = 1 not(TMP\_456) = 0 TMP\_457 = 0 not(TMP\_457) = 1 TMP\_458 = 1 not(TMP\_458) = 0 TMP\_459 = 1 not(TMP\_459) = 0 TMP\_460 = 0 not(TMP\_460) = 1 TMP\_461 = 1 not(TMP\_461) = 0 TMP\_462 = 4 TMP\_463 = 0 not(TMP\_463) = 1 TMP\_464 = 0 not(TMP\_464) = 1 TMP\_465 = 0 TMP\_466 = 1 not(TMP\_466) = 0 TMP\_467 = 1 not(TMP\_467) = 0 TMP\_468 = 2 TMP\_469 = 0 not(TMP\_469) = 1 TMP\_470 = 0 not(TMP\_470) = 1 TMP\_471 = 1 not(TMP\_471) = 0 TMP\_472 = 1 not(TMP\_472) = 0 TMP\_473 = 1 not(TMP\_473) = 0 TMP\_474 = 2 TMP\_475 = 1 not(TMP\_475) = 0 TMP\_476 = 0 not(TMP\_476) = 1 TMP\_477 = 1 not(TMP\_477) = 0 TMP\_478 = 1 not(TMP\_478) = 0 TMP\_479 = 0 not(TMP\_479) = 1 TMP\_480 = 1 not(TMP\_480) = 0 TMP\_481 = 4 TMP\_482 = 0 not(TMP\_482) = 1 TMP\_483 = 0 not(TMP\_483) = 1 TMP\_484 = 0 TMP\_485 = 1 not(TMP\_485) = 0 TMP\_486 = 1 not(TMP\_486) = 0 TMP\_487 = 2 TMP\_488 = 0 not(TMP\_488) = 1 TMP\_489 = 0 not(TMP\_489) = 1 TMP\_490 = 1 not(TMP\_490) = 0 TMP\_491 = 1 not(TMP\_491) = 0 TMP\_492 = 1 not(TMP\_492) = 0 TMP\_493 = 2 TMP\_494 = 1 not(TMP\_494) = 0 TMP\_495 = 1 not(TMP\_495) = 0 TMP\_496 = 1 not(TMP\_496) = 0 TMP\_497 = 1 not(TMP\_497) = 0 TMP\_498 = 0 not(TMP\_498) = 1 TMP\_499 = 1 not(TMP\_499) = 0 TMP\_500 = 5 TMP\_501 = 0 not(TMP\_501) = 1 TMP\_502 = 0 not(TMP\_502) = 1 TMP\_503 = 0 TMP\_504 = 1 not(TMP\_504) = 0 TMP\_505 = 1 not(TMP\_505) = 0 TMP\_506 = 2 TMP\_507 = 0 not(TMP\_507) = 1 TMP\_508 = 0 not(TMP\_508) = 1 TMP\_509 = 1 not(TMP\_509) = 0 TMP\_510 = 1 not(TMP\_510) = 0 TMP\_511 = 1 not(TMP\_511) = 0 TMP\_512 = 2 TMP\_513 = 1 not(TMP\_513) = 0 TMP\_514 = 0 not(TMP\_514) = 1 TMP\_515 = 1 not(TMP\_515) = 0 TMP\_516 = 1 not(TMP\_516) = 0 TMP\_517 = 1 not(TMP\_517) = 0 TMP\_518 = 1 not(TMP\_518) = 0 TMP\_519 = 5 TMP\_520 = 0 not(TMP\_520) = 1 TMP\_521 = 0 not(TMP\_521) = 1 TMP\_522 = 0 TMP\_523 = 1 not(TMP\_523) = 0 TMP\_524 = 1 not(TMP\_524) = 0 TMP\_525 = 2 TMP\_526 = 0 not(TMP\_526) = 1 TMP\_527 = 0 not(TMP\_527) = 1 TMP\_528 = 1 not(TMP\_528) = 0 TMP\_529 = 1 not(TMP\_529) = 0 TMP\_530 = 1 not(TMP\_530) = 0 TMP\_531 = 2 Area\_0 = 60 Distance\_0\_Rule\_0 = 20 Distance\_1\_Rule\_0 = 3 Distance\_2\_Rule\_0 = 1 Area\_1 = 174 Distance\_0\_Rule\_1 = 58 Distance\_1\_Rule\_1 = 3 Distance\_2\_Rule\_1 = 1 Area\_2 = 116 Distance\_0\_Rule\_2 = 58 Distance\_1\_Rule\_2 = 2 Distance\_2\_Rule\_2 = 1 Area\_3 = 58 Distance\_0\_Rule\_3 = 58 Distance\_1\_Rule\_3 = 1 Distance\_2\_Rule\_3 = 1 Area\_4 = 123 -(Rule\_4\_LB) = -79 Distance\_0\_Rule\_4 = 41 -(Rule\_4\_LB) = 0 Distance\_1\_Rule\_4 = 3 -(Rule\_4\_LB) = 0 Distance\_2\_Rule\_4 = 1 Area\_5 = 63 -(Rule\_5\_LB) = 0 Distance\_0\_Rule\_5 = 21 -(Rule\_5\_LB) = 0 Distance\_1\_Rule\_5 = 3 -(Rule\_5\_LB) = 0 Distance\_2\_Rule\_5 = 1 Area\_6 = 123 -(Rule\_6\_LB) = -79 Distance\_0\_Rule\_6 = 41 -(Rule\_6\_LB) = 0 Distance\_1\_Rule\_6 = 3 -(Rule\_6\_LB) = -1 Distance\_2\_Rule\_6 = 1 Area\_7 = 3 -(Rule\_7\_LB) = -20 Distance\_0\_Rule\_7 = 1 -(Rule\_7\_LB) = 0 Distance\_1\_Rule\_7 = 3 -(Rule\_7\_LB) = -1 Distance\_2\_Rule\_7 = 1 TMP\_532 = 720 .

- Solution #16 found. 16 Solutions, Resolution 0.360s, 107 Nodes (297.1 n/s), 133 Backtracks, 58 Fails, 0 Restarts

Rule\_4\_LB = 79 Rule\_4\_UB = 120 Rule\_4\_LB = 0 Rule\_4\_UB = 3 Rule\_4\_LB = 0 Rule\_4\_UB = 1 Rule\_5\_LB = 0 Rule\_5\_UB = 21 Rule\_5\_LB = 0 Rule\_5\_UB = 3 Rule\_5\_LB = 0 Rule\_5\_UB = 1 Rule\_6\_LB = 79 Rule\_6\_UB = 120 Rule\_6\_LB = 0 Rule\_6\_UB = 3 Rule\_6\_LB = 1 Rule\_6\_UB = 2 Rule\_7\_LB = 20 Rule\_7\_UB = 21 Rule\_7\_LB = 0 Rule\_7\_UB = 3 Rule\_7\_LB = 1 Rule\_7\_UB = 2 Overlaps\_0\_0 = 0 Overlaps\_0\_1 = 1 Overlaps\_0\_2 = 0 Overlaps\_0\_3 = 1 Overlaps\_0\_4 = 0 Overlaps\_0\_5 = 0 Overlaps\_0\_6 = 0 Overlaps\_0\_7 = 0 Overlaps\_1\_0 = 0 Overlaps\_1\_1 = 0 Overlaps\_1\_2 = 0 Overlaps\_1\_3 = 0 Overlaps\_1\_4 = 0 Overlaps\_1\_5 = 0 Overlaps\_1\_6 = 0 Overlaps\_1\_7 = 0 Overlaps\_2\_0 = 0 Overlaps\_2\_1 = 1 Overlaps\_2\_2 = 0 Overlaps\_2\_3 = 0 Overlaps\_2\_4 = 0 Overlaps\_2\_5 = 0 Overlaps\_2\_6 = 0 Overlaps\_2\_7 = 0 Overlaps\_3\_0 = 1 Overlaps\_3\_1 = 0 Overlaps\_3\_2 = 0 Overlaps\_3\_3 = 0 Overlaps\_3\_4 = 0 Overlaps\_3\_5 = 0 Overlaps\_3\_6 = 0 Overlaps\_3\_7 = 0 Overlaps\_4\_0 = 0 Overlaps\_4\_1 = 0 Overlaps\_4\_2 = 0 Overlaps\_4\_3 = 0 Overlaps\_4\_4 = 0 Overlaps\_4\_5 = 0 Overlaps\_4\_6 = 0 Overlaps\_4\_7 = 0 Overlaps\_5\_0 = 0 Overlaps\_5\_1 = 0 Overlaps\_5\_2 = 0 Overlaps\_5\_3 = 0 Overlaps\_5\_4 = 0 Overlaps\_5\_5 = 0 Overlaps\_5\_6 = 0 Overlaps\_5\_7 = 0 Overlaps\_6\_0 = 0 Overlaps\_6\_1 = 0 Overlaps\_6\_2 = 0 Overlaps\_6\_3 = 0 Overlaps\_6\_4 = 0 Overlaps\_6\_5 = 0 Overlaps\_6\_6 = 0 Overlaps\_6\_7 = 0 Overlaps\_7\_0 = 0 Overlaps\_7\_1 = 0 Overlaps\_7\_2 = 0 Overlaps\_7\_3 = 0 Overlaps\_7\_4 = 0 Overlaps\_7\_5 = 0 Overlaps\_7\_6 = 0 Overlaps\_7\_7 = 0 TMP\_0 = 0 not(TMP\_0) = 1 TMP\_1 = 1 not(TMP\_1) = 0 TMP\_2 = 1 not(TMP\_2) = 0 TMP\_3 = 1 not(TMP\_3) = 0 TMP\_4 = 1 not(TMP\_4) = 0 TMP\_5 = 0 not(TMP\_5) = 1 TMP\_6 = 4 TMP\_7 = 0 not(TMP\_7) = 1 TMP\_8 = 0 not(TMP\_8) = 1 TMP\_9 = 0 TMP\_10 = 1 not(TMP\_10) = 0 TMP\_11 = 1 not(TMP\_11) = 0 TMP\_12 = 2 TMP\_13 = 0 not(TMP\_13) = 1 TMP\_14 = 0 not(TMP\_14) = 1 TMP\_15 = 1 not(TMP\_15) = 0 TMP\_16 = 1 not(TMP\_16) = 0 TMP\_17 = 1 not(TMP\_17) = 0 TMP\_18 = 2 TMP\_19 = 0 not(TMP\_19) = 1 TMP\_20 = 1 not(TMP\_20) = 0 TMP\_21 = 1 not(TMP\_21) = 0 TMP\_22 = 1 not(TMP\_22) = 0 TMP\_23 = 1 not(TMP\_23) = 0 TMP\_24 = 0 not(TMP\_24) = 1 TMP\_25 = 4 TMP\_26 = 0 not(TMP\_26) = 1 TMP\_27 = 0 not(TMP\_27) = 1 TMP\_28 = 0 TMP\_29 = 1 not(TMP\_29) = 0 TMP\_30 = 1 not(TMP\_30) = 0 TMP\_31 = 2 TMP\_32 = 0 not(TMP\_32) = 1 TMP\_33 = 0 not(TMP\_33) = 1 TMP\_34 = 1 not(TMP\_34) = 0 TMP\_35 = 1 not(TMP\_35) = 0 TMP\_36 = 1 not(TMP\_36) = 0 TMP\_37 = 2 TMP\_38 = 0 not(TMP\_38) = 1 TMP\_39 = 1 not(TMP\_39) = 0 TMP\_40 = 1 not(TMP\_40) = 0 TMP\_41 = 1 not(TMP\_41) = 0 TMP\_42 = 1 not(TMP\_42) = 0 TMP\_43 = 1 not(TMP\_43) = 0 TMP\_44 = 5 TMP\_45 = 0 not(TMP\_45) = 1 TMP\_46 = 0 not(TMP\_46) = 1 TMP\_47 = 0 TMP\_48 = 1 not(TMP\_48) = 0 TMP\_49 = 1 not(TMP\_49) = 0 TMP\_50 = 2 TMP\_51 = 0 not(TMP\_51) = 1 TMP\_52 = 0 not(TMP\_52) = 1 TMP\_53 = 1 not(TMP\_53) = 0 TMP\_54 = 1 not(TMP\_54) = 0 TMP\_55 = 1 not(TMP\_55) = 0 TMP\_56 = 2 TMP\_57 = 0 not(TMP\_57) = 1 TMP\_58 = 1 not(TMP\_58) = 0 TMP\_59 = 1 not(TMP\_59) = 0 TMP\_60 = 1 not(TMP\_60) = 0 TMP\_61 = 1 not(TMP\_61) = 0 TMP\_62 = 1 not(TMP\_62) = 0 TMP\_63 = 5 TMP\_64 = 0 not(TMP\_64) = 1 TMP\_65 = 0 not(TMP\_65) = 1 TMP\_66 = 0 TMP\_67 = 1 not(TMP\_67) = 0 TMP\_68 = 1 not(TMP\_68) = 0 TMP\_69 = 2 TMP\_70 = 0 not(TMP\_70) = 1 TMP\_71 = 0 not(TMP\_71) = 1 TMP\_72 = 1 not(TMP\_72) = 0 TMP\_73 = 1 not(TMP\_73) = 0 TMP\_74 = 1 not(TMP\_74) = 0 TMP\_75 = 2 TMP\_76 = 0 not(TMP\_76) = 1 TMP\_77 = 1 not(TMP\_77) = 0 TMP\_78 = 1 not(TMP\_78) = 0 TMP\_79 = 1 not(TMP\_79) = 0 TMP\_80 = 1 not(TMP\_80) = 0 TMP\_81 = 1 not(TMP\_81) = 0 TMP\_82 = 5 TMP\_83 = 0 not(TMP\_83) = 1 TMP\_84 = 0 not(TMP\_84) = 1 TMP\_85 = 0 TMP\_86 = 1 not(TMP\_86) = 0 TMP\_87 = 1 not(TMP\_87) = 0 TMP\_88 = 2 TMP\_89 = 0 not(TMP\_89) = 1 TMP\_90 = 0 not(TMP\_90) = 1 TMP\_91 = 1 not(TMP\_91) = 0 TMP\_92 = 1 not(TMP\_92) = 0 TMP\_93 = 1 not(TMP\_93) = 0 TMP\_94 = 2 TMP\_95 = 1 not(TMP\_95) = 0 TMP\_96 = 1 not(TMP\_96) = 0 TMP\_97 = 1 not(TMP\_97) = 0 TMP\_98 = 1 not(TMP\_98) = 0 TMP\_99 = 1 not(TMP\_99) = 0 TMP\_100 = 0 not(TMP\_100) = 1 TMP\_101 = 5 TMP\_102 = 0 not(TMP\_102) = 1 TMP\_103 = 0 not(TMP\_103) = 1 TMP\_104 = 0 TMP\_105 = 1 not(TMP\_105) = 0 TMP\_106 = 1 not(TMP\_106) = 0 TMP\_107 = 2 TMP\_108 = 0 not(TMP\_108) = 1 TMP\_109 = 0 not(TMP\_109) = 1 TMP\_110 = 1 not(TMP\_110) = 0 TMP\_111 = 1 not(TMP\_111) = 0 TMP\_112 = 1 not(TMP\_112) = 0 TMP\_113 = 2 TMP\_114 = 0 not(TMP\_114) = 1 TMP\_115 = 1 not(TMP\_115) = 0 TMP\_116 = 1 not(TMP\_116) = 0 TMP\_117 = 1 not(TMP\_117) = 0 TMP\_118 = 1 not(TMP\_118) = 0 TMP\_119 = 0 not(TMP\_119) = 1 TMP\_120 = 4 TMP\_121 = 0 not(TMP\_121) = 1 TMP\_122 = 0 not(TMP\_122) = 1 TMP\_123 = 0 TMP\_124 = 1 not(TMP\_124) = 0 TMP\_125 = 1 not(TMP\_125) = 0 TMP\_126 = 2 TMP\_127 = 0 not(TMP\_127) = 1 TMP\_128 = 0 not(TMP\_128) = 1 TMP\_129 = 1 not(TMP\_129) = 0 TMP\_130 = 1 not(TMP\_130) = 0 TMP\_131 = 1 not(TMP\_131) = 0 TMP\_132 = 2 TMP\_133 = 1 not(TMP\_133) = 0 TMP\_134 = 1 not(TMP\_134) = 0 TMP\_135 = 1 not(TMP\_135) = 0 TMP\_136 = 1 not(TMP\_136) = 0 TMP\_137 = 1 not(TMP\_137) = 0 TMP\_138 = 0 not(TMP\_138) = 1 TMP\_139 = 5 TMP\_140 = 0 not(TMP\_140) = 1 TMP\_141 = 0 not(TMP\_141) = 1 TMP\_142 = 0 TMP\_143 = 1 not(TMP\_143) = 0 TMP\_144 = 1 not(TMP\_144) = 0 TMP\_145 = 2 TMP\_146 = 0 not(TMP\_146) = 1 TMP\_147 = 0 not(TMP\_147) = 1 TMP\_148 = 1 not(TMP\_148) = 0 TMP\_149 = 1 not(TMP\_149) = 0 TMP\_150 = 1 not(TMP\_150) = 0 TMP\_151 = 2 TMP\_152 = 1 not(TMP\_152) = 0 TMP\_153 = 0 not(TMP\_153) = 1 TMP\_154 = 1 not(TMP\_154) = 0 TMP\_155 = 1 not(TMP\_155) = 0 TMP\_156 = 1 not(TMP\_156) = 0 TMP\_157 = 0 not(TMP\_157) = 1 TMP\_158 = 4 TMP\_159 = 0 not(TMP\_159) = 1 TMP\_160 = 0 not(TMP\_160) = 1 TMP\_161 = 0 TMP\_162 = 1 not(TMP\_162) = 0 TMP\_163 = 1 not(TMP\_163) = 0 TMP\_164 = 2 TMP\_165 = 0 not(TMP\_165) = 1 TMP\_166 = 0 not(TMP\_166) = 1 TMP\_167 = 1 not(TMP\_167) = 0 TMP\_168 = 1 not(TMP\_168) = 0 TMP\_169 = 1 not(TMP\_169) = 0 TMP\_170 = 2 TMP\_171 = 1 not(TMP\_171) = 0 TMP\_172 = 0 not(TMP\_172) = 1 TMP\_173 = 1 not(TMP\_173) = 0 TMP\_174 = 1 not(TMP\_174) = 0 TMP\_175 = 1 not(TMP\_175) = 0 TMP\_176 = 1 not(TMP\_176) = 0 TMP\_177 = 5 TMP\_178 = 0 not(TMP\_178) = 1 TMP\_179 = 0 not(TMP\_179) = 1 TMP\_180 = 0 TMP\_181 = 1 not(TMP\_181) = 0 TMP\_182 = 1 not(TMP\_182) = 0 TMP\_183 = 2 TMP\_184 = 0 not(TMP\_184) = 1 TMP\_185 = 0 not(TMP\_185) = 1 TMP\_186 = 1 not(TMP\_186) = 0 TMP\_187 = 1 not(TMP\_187) = 0 TMP\_188 = 1 not(TMP\_188) = 0 TMP\_189 = 2 TMP\_190 = 1 not(TMP\_190) = 0 TMP\_191 = 0 not(TMP\_191) = 1 TMP\_192 = 1 not(TMP\_192) = 0 TMP\_193 = 1 not(TMP\_193) = 0 TMP\_194 = 1 not(TMP\_194) = 0 TMP\_195 = 1 not(TMP\_195) = 0 TMP\_196 = 5 TMP\_197 = 0 not(TMP\_197) = 1 TMP\_198 = 0 not(TMP\_198) = 1 TMP\_199 = 0 TMP\_200 = 1 not(TMP\_200) = 0 TMP\_201 = 1 not(TMP\_201) = 0 TMP\_202 = 2 TMP\_203 = 0 not(TMP\_203) = 1 TMP\_204 = 0 not(TMP\_204) = 1 TMP\_205 = 1 not(TMP\_205) = 0 TMP\_206 = 1 not(TMP\_206) = 0 TMP\_207 = 1 not(TMP\_207) = 0 TMP\_208 = 2 TMP\_209 = 1 not(TMP\_209) = 0 TMP\_210 = 0 not(TMP\_210) = 1 TMP\_211 = 1 not(TMP\_211) = 0 TMP\_212 = 1 not(TMP\_212) = 0 TMP\_213 = 1 not(TMP\_213) = 0 TMP\_214 = 1 not(TMP\_214) = 0 TMP\_215 = 5 TMP\_216 = 0 not(TMP\_216) = 1 TMP\_217 = 0 not(TMP\_217) = 1 TMP\_218 = 0 TMP\_219 = 1 not(TMP\_219) = 0 TMP\_220 = 1 not(TMP\_220) = 0 TMP\_221 = 2 TMP\_222 = 0 not(TMP\_222) = 1 TMP\_223 = 0 not(TMP\_223) = 1 TMP\_224 = 1 not(TMP\_224) = 0 TMP\_225 = 1 not(TMP\_225) = 0 TMP\_226 = 1 not(TMP\_226) = 0 TMP\_227 = 2 TMP\_228 = 1 not(TMP\_228) = 0 TMP\_229 = 0 not(TMP\_229) = 1 TMP\_230 = 1 not(TMP\_230) = 0 TMP\_231 = 1 not(TMP\_231) = 0 TMP\_232 = 1 not(TMP\_232) = 0 TMP\_233 = 0 not(TMP\_233) = 1 TMP\_234 = 4 TMP\_235 = 0 not(TMP\_235) = 1 TMP\_236 = 0 not(TMP\_236) = 1 TMP\_237 = 0 TMP\_238 = 1 not(TMP\_238) = 0 TMP\_239 = 1 not(TMP\_239) = 0 TMP\_240 = 2 TMP\_241 = 0 not(TMP\_241) = 1 TMP\_242 = 0 not(TMP\_242) = 1 TMP\_243 = 1 not(TMP\_243) = 0 TMP\_244 = 1 not(TMP\_244) = 0 TMP\_245 = 1 not(TMP\_245) = 0 TMP\_246 = 2 TMP\_247 = 1 not(TMP\_247) = 0 TMP\_248 = 1 not(TMP\_248) = 0 TMP\_249 = 1 not(TMP\_249) = 0 TMP\_250 = 1 not(TMP\_250) = 0 TMP\_251 = 1 not(TMP\_251) = 0 TMP\_252 = 0 not(TMP\_252) = 1 TMP\_253 = 5 TMP\_254 = 0 not(TMP\_254) = 1 TMP\_255 = 0 not(TMP\_255) = 1 TMP\_256 = 0 TMP\_257 = 1 not(TMP\_257) = 0 TMP\_258 = 1 not(TMP\_258) = 0 TMP\_259 = 2 TMP\_260 = 0 not(TMP\_260) = 1 TMP\_261 = 0 not(TMP\_261) = 1 TMP\_262 = 1 not(TMP\_262) = 0 TMP\_263 = 1 not(TMP\_263) = 0 TMP\_264 = 1 not(TMP\_264) = 0 TMP\_265 = 2 TMP\_266 = 0 not(TMP\_266) = 1 TMP\_267 = 1 not(TMP\_267) = 0 TMP\_268 = 1 not(TMP\_268) = 0 TMP\_269 = 1 not(TMP\_269) = 0 TMP\_270 = 1 not(TMP\_270) = 0 TMP\_271 = 1 not(TMP\_271) = 0 TMP\_272 = 5 TMP\_273 = 0 not(TMP\_273) = 1 TMP\_274 = 0 not(TMP\_274) = 1 TMP\_275 = 0 TMP\_276 = 1 not(TMP\_276) = 0 TMP\_277 = 1 not(TMP\_277) = 0 TMP\_278 = 2 TMP\_279 = 0 not(TMP\_279) = 1 TMP\_280 = 0 not(TMP\_280) = 1 TMP\_281 = 1 not(TMP\_281) = 0 TMP\_282 = 1 not(TMP\_282) = 0 TMP\_283 = 1 not(TMP\_283) = 0 TMP\_284 = 2 TMP\_285 = 0 not(TMP\_285) = 1 TMP\_286 = 1 not(TMP\_286) = 0 TMP\_287 = 1 not(TMP\_287) = 0 TMP\_288 = 1 not(TMP\_288) = 0 TMP\_289 = 1 not(TMP\_289) = 0 TMP\_290 = 1 not(TMP\_290) = 0 TMP\_291 = 5 TMP\_292 = 0 not(TMP\_292) = 1 TMP\_293 = 0 not(TMP\_293) = 1 TMP\_294 = 0 TMP\_295 = 1 not(TMP\_295) = 0 TMP\_296 = 1 not(TMP\_296) = 0 TMP\_297 = 2 TMP\_298 = 0 not(TMP\_298) = 1 TMP\_299 = 0 not(TMP\_299) = 1 TMP\_300 = 1 not(TMP\_300) = 0 TMP\_301 = 1 not(TMP\_301) = 0 TMP\_302 = 1 not(TMP\_302) = 0 TMP\_303 = 2 TMP\_304 = 0 not(TMP\_304) = 1 TMP\_305 = 1 not(TMP\_305) = 0 TMP\_306 = 1 not(TMP\_306) = 0 TMP\_307 = 1 not(TMP\_307) = 0 TMP\_308 = 0 not(TMP\_308) = 1 TMP\_309 = 1 not(TMP\_309) = 0 TMP\_310 = 4 TMP\_311 = 0 not(TMP\_311) = 1 TMP\_312 = 0 not(TMP\_312) = 1 TMP\_313 = 0 TMP\_314 = 1 not(TMP\_314) = 0 TMP\_315 = 1 not(TMP\_315) = 0 TMP\_316 = 2 TMP\_317 = 0 not(TMP\_317) = 1 TMP\_318 = 0 not(TMP\_318) = 1 TMP\_319 = 1 not(TMP\_319) = 0 TMP\_320 = 1 not(TMP\_320) = 0 TMP\_321 = 1 not(TMP\_321) = 0 TMP\_322 = 2 TMP\_323 = 0 not(TMP\_323) = 1 TMP\_324 = 1 not(TMP\_324) = 0 TMP\_325 = 1 not(TMP\_325) = 0 TMP\_326 = 1 not(TMP\_326) = 0 TMP\_327 = 0 not(TMP\_327) = 1 TMP\_328 = 1 not(TMP\_328) = 0 TMP\_329 = 4 TMP\_330 = 0 not(TMP\_330) = 1 TMP\_331 = 0 not(TMP\_331) = 1 TMP\_332 = 0 TMP\_333 = 1 not(TMP\_333) = 0 TMP\_334 = 1 not(TMP\_334) = 0 TMP\_335 = 2 TMP\_336 = 0 not(TMP\_336) = 1 TMP\_337 = 0 not(TMP\_337) = 1 TMP\_338 = 1 not(TMP\_338) = 0 TMP\_339 = 1 not(TMP\_339) = 0 TMP\_340 = 1 not(TMP\_340) = 0 TMP\_341 = 2 TMP\_342 = 1 not(TMP\_342) = 0 TMP\_343 = 1 not(TMP\_343) = 0 TMP\_344 = 1 not(TMP\_344) = 0 TMP\_345 = 1 not(TMP\_345) = 0 TMP\_346 = 0 not(TMP\_346) = 1 TMP\_347 = 1 not(TMP\_347) = 0 TMP\_348 = 5 TMP\_349 = 0 not(TMP\_349) = 1 TMP\_350 = 0 not(TMP\_350) = 1 TMP\_351 = 0 TMP\_352 = 1 not(TMP\_352) = 0 TMP\_353 = 1 not(TMP\_353) = 0 TMP\_354 = 2 TMP\_355 = 0 not(TMP\_355) = 1 TMP\_356 = 0 not(TMP\_356) = 1 TMP\_357 = 1 not(TMP\_357) = 0 TMP\_358 = 1 not(TMP\_358) = 0 TMP\_359 = 1 not(TMP\_359) = 0 TMP\_360 = 2 TMP\_361 = 0 not(TMP\_361) = 1 TMP\_362 = 1 not(TMP\_362) = 0 TMP\_363 = 1 not(TMP\_363) = 0 TMP\_364 = 1 not(TMP\_364) = 0 TMP\_365 = 0 not(TMP\_365) = 1 TMP\_366 = 1 not(TMP\_366) = 0 TMP\_367 = 4 TMP\_368 = 0 not(TMP\_368) = 1 TMP\_369 = 0 not(TMP\_369) = 1 TMP\_370 = 0 TMP\_371 = 1 not(TMP\_371) = 0 TMP\_372 = 1 not(TMP\_372) = 0 TMP\_373 = 2 TMP\_374 = 0 not(TMP\_374) = 1 TMP\_375 = 0 not(TMP\_375) = 1 TMP\_376 = 1 not(TMP\_376) = 0 TMP\_377 = 1 not(TMP\_377) = 0 TMP\_378 = 1 not(TMP\_378) = 0 TMP\_379 = 2 TMP\_380 = 0 not(TMP\_380) = 1 TMP\_381 = 1 not(TMP\_381) = 0 TMP\_382 = 1 not(TMP\_382) = 0 TMP\_383 = 1 not(TMP\_383) = 0 TMP\_384 = 1 not(TMP\_384) = 0 TMP\_385 = 1 not(TMP\_385) = 0 TMP\_386 = 5 TMP\_387 = 0 not(TMP\_387) = 1 TMP\_388 = 0 not(TMP\_388) = 1 TMP\_389 = 0 TMP\_390 = 1 not(TMP\_390) = 0 TMP\_391 = 1 not(TMP\_391) = 0 TMP\_392 = 2 TMP\_393 = 0 not(TMP\_393) = 1 TMP\_394 = 0 not(TMP\_394) = 1 TMP\_395 = 1 not(TMP\_395) = 0 TMP\_396 = 1 not(TMP\_396) = 0 TMP\_397 = 1 not(TMP\_397) = 0 TMP\_398 = 2 TMP\_399 = 0 not(TMP\_399) = 1 TMP\_400 = 1 not(TMP\_400) = 0 TMP\_401 = 1 not(TMP\_401) = 0 TMP\_402 = 1 not(TMP\_402) = 0 TMP\_403 = 1 not(TMP\_403) = 0 TMP\_404 = 1 not(TMP\_404) = 0 TMP\_405 = 5 TMP\_406 = 0 not(TMP\_406) = 1 TMP\_407 = 0 not(TMP\_407) = 1 TMP\_408 = 0 TMP\_409 = 1 not(TMP\_409) = 0 TMP\_410 = 1 not(TMP\_410) = 0 TMP\_411 = 2 TMP\_412 = 0 not(TMP\_412) = 1 TMP\_413 = 0 not(TMP\_413) = 1 TMP\_414 = 1 not(TMP\_414) = 0 TMP\_415 = 1 not(TMP\_415) = 0 TMP\_416 = 1 not(TMP\_416) = 0 TMP\_417 = 2 TMP\_418 = 1 not(TMP\_418) = 0 TMP\_419 = 0 not(TMP\_419) = 1 TMP\_420 = 1 not(TMP\_420) = 0 TMP\_421 = 1 not(TMP\_421) = 0 TMP\_422 = 1 not(TMP\_422) = 0 TMP\_423 = 1 not(TMP\_423) = 0 TMP\_424 = 5 TMP\_425 = 0 not(TMP\_425) = 1 TMP\_426 = 0 not(TMP\_426) = 1 TMP\_427 = 0 TMP\_428 = 1 not(TMP\_428) = 0 TMP\_429 = 1 not(TMP\_429) = 0 TMP\_430 = 2 TMP\_431 = 0 not(TMP\_431) = 1 TMP\_432 = 0 not(TMP\_432) = 1 TMP\_433 = 1 not(TMP\_433) = 0 TMP\_434 = 1 not(TMP\_434) = 0 TMP\_435 = 1 not(TMP\_435) = 0 TMP\_436 = 2 TMP\_437 = 1 not(TMP\_437) = 0 TMP\_438 = 0 not(TMP\_438) = 1 TMP\_439 = 1 not(TMP\_439) = 0 TMP\_440 = 1 not(TMP\_440) = 0 TMP\_441 = 0 not(TMP\_441) = 1 TMP\_442 = 1 not(TMP\_442) = 0 TMP\_443 = 4 TMP\_444 = 0 not(TMP\_444) = 1 TMP\_445 = 0 not(TMP\_445) = 1 TMP\_446 = 0 TMP\_447 = 1 not(TMP\_447) = 0 TMP\_448 = 1 not(TMP\_448) = 0 TMP\_449 = 2 TMP\_450 = 0 not(TMP\_450) = 1 TMP\_451 = 0 not(TMP\_451) = 1 TMP\_452 = 1 not(TMP\_452) = 0 TMP\_453 = 1 not(TMP\_453) = 0 TMP\_454 = 1 not(TMP\_454) = 0 TMP\_455 = 2 TMP\_456 = 1 not(TMP\_456) = 0 TMP\_457 = 0 not(TMP\_457) = 1 TMP\_458 = 1 not(TMP\_458) = 0 TMP\_459 = 1 not(TMP\_459) = 0 TMP\_460 = 0 not(TMP\_460) = 1 TMP\_461 = 1 not(TMP\_461) = 0 TMP\_462 = 4 TMP\_463 = 0 not(TMP\_463) = 1 TMP\_464 = 0 not(TMP\_464) = 1 TMP\_465 = 0 TMP\_466 = 1 not(TMP\_466) = 0 TMP\_467 = 1 not(TMP\_467) = 0 TMP\_468 = 2 TMP\_469 = 0 not(TMP\_469) = 1 TMP\_470 = 0 not(TMP\_470) = 1 TMP\_471 = 1 not(TMP\_471) = 0 TMP\_472 = 1 not(TMP\_472) = 0 TMP\_473 = 1 not(TMP\_473) = 0 TMP\_474 = 2 TMP\_475 = 1 not(TMP\_475) = 0 TMP\_476 = 0 not(TMP\_476) = 1 TMP\_477 = 1 not(TMP\_477) = 0 TMP\_478 = 1 not(TMP\_478) = 0 TMP\_479 = 0 not(TMP\_479) = 1 TMP\_480 = 1 not(TMP\_480) = 0 TMP\_481 = 4 TMP\_482 = 0 not(TMP\_482) = 1 TMP\_483 = 0 not(TMP\_483) = 1 TMP\_484 = 0 TMP\_485 = 1 not(TMP\_485) = 0 TMP\_486 = 1 not(TMP\_486) = 0 TMP\_487 = 2 TMP\_488 = 0 not(TMP\_488) = 1 TMP\_489 = 0 not(TMP\_489) = 1 TMP\_490 = 1 not(TMP\_490) = 0 TMP\_491 = 1 not(TMP\_491) = 0 TMP\_492 = 1 not(TMP\_492) = 0 TMP\_493 = 2 TMP\_494 = 1 not(TMP\_494) = 0 TMP\_495 = 1 not(TMP\_495) = 0 TMP\_496 = 1 not(TMP\_496) = 0 TMP\_497 = 1 not(TMP\_497) = 0 TMP\_498 = 0 not(TMP\_498) = 1 TMP\_499 = 1 not(TMP\_499) = 0 TMP\_500 = 5 TMP\_501 = 0 not(TMP\_501) = 1 TMP\_502 = 0 not(TMP\_502) = 1 TMP\_503 = 0 TMP\_504 = 1 not(TMP\_504) = 0 TMP\_505 = 1 not(TMP\_505) = 0 TMP\_506 = 2 TMP\_507 = 0 not(TMP\_507) = 1 TMP\_508 = 0 not(TMP\_508) = 1 TMP\_509 = 1 not(TMP\_509) = 0 TMP\_510 = 1 not(TMP\_510) = 0 TMP\_511 = 1 not(TMP\_511) = 0 TMP\_512 = 2 TMP\_513 = 1 not(TMP\_513) = 0 TMP\_514 = 0 not(TMP\_514) = 1 TMP\_515 = 1 not(TMP\_515) = 0 TMP\_516 = 1 not(TMP\_516) = 0 TMP\_517 = 1 not(TMP\_517) = 0 TMP\_518 = 1 not(TMP\_518) = 0 TMP\_519 = 5 TMP\_520 = 0 not(TMP\_520) = 1 TMP\_521 = 0 not(TMP\_521) = 1 TMP\_522 = 0 TMP\_523 = 1 not(TMP\_523) = 0 TMP\_524 = 1 not(TMP\_524) = 0 TMP\_525 = 2 TMP\_526 = 0 not(TMP\_526) = 1 TMP\_527 = 0 not(TMP\_527) = 1 TMP\_528 = 1 not(TMP\_528) = 0 TMP\_529 = 1 not(TMP\_529) = 0 TMP\_530 = 1 not(TMP\_530) = 0 TMP\_531 = 2 Area\_0 = 60 Distance\_0\_Rule\_0 = 20 Distance\_1\_Rule\_0 = 3 Distance\_2\_Rule\_0 = 1 Area\_1 = 174 Distance\_0\_Rule\_1 = 58 Distance\_1\_Rule\_1 = 3 Distance\_2\_Rule\_1 = 1 Area\_2 = 116 Distance\_0\_Rule\_2 = 58 Distance\_1\_Rule\_2 = 2 Distance\_2\_Rule\_2 = 1 Area\_3 = 58 Distance\_0\_Rule\_3 = 58 Distance\_1\_Rule\_3 = 1 Distance\_2\_Rule\_3 = 1 Area\_4 = 123 -(Rule\_4\_LB) = -79 Distance\_0\_Rule\_4 = 41 -(Rule\_4\_LB) = 0 Distance\_1\_Rule\_4 = 3 -(Rule\_4\_LB) = 0 Distance\_2\_Rule\_4 = 1 Area\_5 = 63 -(Rule\_5\_LB) = 0 Distance\_0\_Rule\_5 = 21 -(Rule\_5\_LB) = 0 Distance\_1\_Rule\_5 = 3 -(Rule\_5\_LB) = 0 Distance\_2\_Rule\_5 = 1 Area\_6 = 123 -(Rule\_6\_LB) = -79 Distance\_0\_Rule\_6 = 41 -(Rule\_6\_LB) = 0 Distance\_1\_Rule\_6 = 3 -(Rule\_6\_LB) = -1 Distance\_2\_Rule\_6 = 1 Area\_7 = 3 -(Rule\_7\_LB) = -20 Distance\_0\_Rule\_7 = 1 -(Rule\_7\_LB) = 0 Distance\_1\_Rule\_7 = 3 -(Rule\_7\_LB) = -1 Distance\_2\_Rule\_7 = 1 TMP\_532 = 720 .

- Solution #17 found. 17 Solutions, Resolution 0.364s, 112 Nodes (307.6 n/s), 138 Backtracks, 58 Fails, 0 Restarts

Rule\_4\_LB = 79 Rule\_4\_UB = 120 Rule\_4\_LB = 0 Rule\_4\_UB = 3 Rule\_4\_LB = 0 Rule\_4\_UB = 1 Rule\_5\_LB = 0 Rule\_5\_UB = 21 Rule\_5\_LB = 0 Rule\_5\_UB = 3 Rule\_5\_LB = 0 Rule\_5\_UB = 1 Rule\_6\_LB = 79 Rule\_6\_UB = 120 Rule\_6\_LB = 0 Rule\_6\_UB = 3 Rule\_6\_LB = 1 Rule\_6\_UB = 2 Rule\_7\_LB = 20 Rule\_7\_UB = 21 Rule\_7\_LB = 0 Rule\_7\_UB = 3 Rule\_7\_LB = 1 Rule\_7\_UB = 2 Overlaps\_0\_0 = 0 Overlaps\_0\_1 = 0 Overlaps\_0\_2 = 1 Overlaps\_0\_3 = 0 Overlaps\_0\_4 = 0 Overlaps\_0\_5 = 0 Overlaps\_0\_6 = 0 Overlaps\_0\_7 = 0 Overlaps\_1\_0 = 0 Overlaps\_1\_1 = 0 Overlaps\_1\_2 = 0 Overlaps\_1\_3 = 0 Overlaps\_1\_4 = 0 Overlaps\_1\_5 = 0 Overlaps\_1\_6 = 0 Overlaps\_1\_7 = 0 Overlaps\_2\_0 = 0 Overlaps\_2\_1 = 0 Overlaps\_2\_2 = 0 Overlaps\_2\_3 = 0 Overlaps\_2\_4 = 0 Overlaps\_2\_5 = 0 Overlaps\_2\_6 = 0 Overlaps\_2\_7 = 0 Overlaps\_3\_0 = 0 Overlaps\_3\_1 = 0 Overlaps\_3\_2 = 0 Overlaps\_3\_3 = 0 Overlaps\_3\_4 = 0 Overlaps\_3\_5 = 0 Overlaps\_3\_6 = 0 Overlaps\_3\_7 = 0 Overlaps\_4\_0 = 0 Overlaps\_4\_1 = 0 Overlaps\_4\_2 = 0 Overlaps\_4\_3 = 0 Overlaps\_4\_4 = 0 Overlaps\_4\_5 = 0 Overlaps\_4\_6 = 0 Overlaps\_4\_7 = 0 Overlaps\_5\_0 = 0 Overlaps\_5\_1 = 0 Overlaps\_5\_2 = 0 Overlaps\_5\_3 = 0 Overlaps\_5\_4 = 0 Overlaps\_5\_5 = 0 Overlaps\_5\_6 = 0 Overlaps\_5\_7 = 0 Overlaps\_6\_0 = 0 Overlaps\_6\_1 = 0 Overlaps\_6\_2 = 0 Overlaps\_6\_3 = 0 Overlaps\_6\_4 = 0 Overlaps\_6\_5 = 0 Overlaps\_6\_6 = 0 Overlaps\_6\_7 = 0 Overlaps\_7\_0 = 0 Overlaps\_7\_1 = 0 Overlaps\_7\_2 = 0 Overlaps\_7\_3 = 0 Overlaps\_7\_4 = 0 Overlaps\_7\_5 = 0 Overlaps\_7\_6 = 0 Overlaps\_7\_7 = 0 TMP\_0 = 0 not(TMP\_0) = 1 TMP\_1 = 1 not(TMP\_1) = 0 TMP\_2 = 1 not(TMP\_2) = 0 TMP\_3 = 1 not(TMP\_3) = 0 TMP\_4 = 1 not(TMP\_4) = 0 TMP\_5 = 0 not(TMP\_5) = 1 TMP\_6 = 4 TMP\_7 = 0 not(TMP\_7) = 1 TMP\_8 = 0 not(TMP\_8) = 1 TMP\_9 = 0 TMP\_10 = 1 not(TMP\_10) = 0 TMP\_11 = 1 not(TMP\_11) = 0 TMP\_12 = 2 TMP\_13 = 0 not(TMP\_13) = 1 TMP\_14 = 0 not(TMP\_14) = 1 TMP\_15 = 1 not(TMP\_15) = 0 TMP\_16 = 1 not(TMP\_16) = 0 TMP\_17 = 1 not(TMP\_17) = 0 TMP\_18 = 2 TMP\_19 = 0 not(TMP\_19) = 1 TMP\_20 = 1 not(TMP\_20) = 0 TMP\_21 = 1 not(TMP\_21) = 0 TMP\_22 = 1 not(TMP\_22) = 0 TMP\_23 = 1 not(TMP\_23) = 0 TMP\_24 = 0 not(TMP\_24) = 1 TMP\_25 = 4 TMP\_26 = 0 not(TMP\_26) = 1 TMP\_27 = 0 not(TMP\_27) = 1 TMP\_28 = 0 TMP\_29 = 1 not(TMP\_29) = 0 TMP\_30 = 1 not(TMP\_30) = 0 TMP\_31 = 2 TMP\_32 = 0 not(TMP\_32) = 1 TMP\_33 = 0 not(TMP\_33) = 1 TMP\_34 = 1 not(TMP\_34) = 0 TMP\_35 = 1 not(TMP\_35) = 0 TMP\_36 = 1 not(TMP\_36) = 0 TMP\_37 = 2 TMP\_38 = 0 not(TMP\_38) = 1 TMP\_39 = 1 not(TMP\_39) = 0 TMP\_40 = 1 not(TMP\_40) = 0 TMP\_41 = 1 not(TMP\_41) = 0 TMP\_42 = 1 not(TMP\_42) = 0 TMP\_43 = 1 not(TMP\_43) = 0 TMP\_44 = 5 TMP\_45 = 0 not(TMP\_45) = 1 TMP\_46 = 0 not(TMP\_46) = 1 TMP\_47 = 0 TMP\_48 = 1 not(TMP\_48) = 0 TMP\_49 = 1 not(TMP\_49) = 0 TMP\_50 = 2 TMP\_51 = 0 not(TMP\_51) = 1 TMP\_52 = 0 not(TMP\_52) = 1 TMP\_53 = 1 not(TMP\_53) = 0 TMP\_54 = 1 not(TMP\_54) = 0 TMP\_55 = 1 not(TMP\_55) = 0 TMP\_56 = 2 TMP\_57 = 0 not(TMP\_57) = 1 TMP\_58 = 1 not(TMP\_58) = 0 TMP\_59 = 1 not(TMP\_59) = 0 TMP\_60 = 1 not(TMP\_60) = 0 TMP\_61 = 1 not(TMP\_61) = 0 TMP\_62 = 1 not(TMP\_62) = 0 TMP\_63 = 5 TMP\_64 = 0 not(TMP\_64) = 1 TMP\_65 = 0 not(TMP\_65) = 1 TMP\_66 = 0 TMP\_67 = 1 not(TMP\_67) = 0 TMP\_68 = 1 not(TMP\_68) = 0 TMP\_69 = 2 TMP\_70 = 0 not(TMP\_70) = 1 TMP\_71 = 0 not(TMP\_71) = 1 TMP\_72 = 1 not(TMP\_72) = 0 TMP\_73 = 1 not(TMP\_73) = 0 TMP\_74 = 1 not(TMP\_74) = 0 TMP\_75 = 2 TMP\_76 = 0 not(TMP\_76) = 1 TMP\_77 = 1 not(TMP\_77) = 0 TMP\_78 = 1 not(TMP\_78) = 0 TMP\_79 = 1 not(TMP\_79) = 0 TMP\_80 = 1 not(TMP\_80) = 0 TMP\_81 = 1 not(TMP\_81) = 0 TMP\_82 = 5 TMP\_83 = 0 not(TMP\_83) = 1 TMP\_84 = 0 not(TMP\_84) = 1 TMP\_85 = 0 TMP\_86 = 1 not(TMP\_86) = 0 TMP\_87 = 1 not(TMP\_87) = 0 TMP\_88 = 2 TMP\_89 = 0 not(TMP\_89) = 1 TMP\_90 = 0 not(TMP\_90) = 1 TMP\_91 = 1 not(TMP\_91) = 0 TMP\_92 = 1 not(TMP\_92) = 0 TMP\_93 = 1 not(TMP\_93) = 0 TMP\_94 = 2 TMP\_95 = 1 not(TMP\_95) = 0 TMP\_96 = 1 not(TMP\_96) = 0 TMP\_97 = 1 not(TMP\_97) = 0 TMP\_98 = 1 not(TMP\_98) = 0 TMP\_99 = 1 not(TMP\_99) = 0 TMP\_100 = 0 not(TMP\_100) = 1 TMP\_101 = 5 TMP\_102 = 0 not(TMP\_102) = 1 TMP\_103 = 0 not(TMP\_103) = 1 TMP\_104 = 0 TMP\_105 = 1 not(TMP\_105) = 0 TMP\_106 = 1 not(TMP\_106) = 0 TMP\_107 = 2 TMP\_108 = 0 not(TMP\_108) = 1 TMP\_109 = 0 not(TMP\_109) = 1 TMP\_110 = 1 not(TMP\_110) = 0 TMP\_111 = 1 not(TMP\_111) = 0 TMP\_112 = 1 not(TMP\_112) = 0 TMP\_113 = 2 TMP\_114 = 0 not(TMP\_114) = 1 TMP\_115 = 1 not(TMP\_115) = 0 TMP\_116 = 1 not(TMP\_116) = 0 TMP\_117 = 1 not(TMP\_117) = 0 TMP\_118 = 1 not(TMP\_118) = 0 TMP\_119 = 0 not(TMP\_119) = 1 TMP\_120 = 4 TMP\_121 = 0 not(TMP\_121) = 1 TMP\_122 = 0 not(TMP\_122) = 1 TMP\_123 = 0 TMP\_124 = 1 not(TMP\_124) = 0 TMP\_125 = 1 not(TMP\_125) = 0 TMP\_126 = 2 TMP\_127 = 0 not(TMP\_127) = 1 TMP\_128 = 0 not(TMP\_128) = 1 TMP\_129 = 1 not(TMP\_129) = 0 TMP\_130 = 1 not(TMP\_130) = 0 TMP\_131 = 1 not(TMP\_131) = 0 TMP\_132 = 2 TMP\_133 = 1 not(TMP\_133) = 0 TMP\_134 = 1 not(TMP\_134) = 0 TMP\_135 = 1 not(TMP\_135) = 0 TMP\_136 = 1 not(TMP\_136) = 0 TMP\_137 = 1 not(TMP\_137) = 0 TMP\_138 = 0 not(TMP\_138) = 1 TMP\_139 = 5 TMP\_140 = 0 not(TMP\_140) = 1 TMP\_141 = 0 not(TMP\_141) = 1 TMP\_142 = 0 TMP\_143 = 1 not(TMP\_143) = 0 TMP\_144 = 1 not(TMP\_144) = 0 TMP\_145 = 2 TMP\_146 = 0 not(TMP\_146) = 1 TMP\_147 = 0 not(TMP\_147) = 1 TMP\_148 = 1 not(TMP\_148) = 0 TMP\_149 = 1 not(TMP\_149) = 0 TMP\_150 = 1 not(TMP\_150) = 0 TMP\_151 = 2 TMP\_152 = 1 not(TMP\_152) = 0 TMP\_153 = 0 not(TMP\_153) = 1 TMP\_154 = 1 not(TMP\_154) = 0 TMP\_155 = 1 not(TMP\_155) = 0 TMP\_156 = 1 not(TMP\_156) = 0 TMP\_157 = 0 not(TMP\_157) = 1 TMP\_158 = 4 TMP\_159 = 0 not(TMP\_159) = 1 TMP\_160 = 0 not(TMP\_160) = 1 TMP\_161 = 0 TMP\_162 = 1 not(TMP\_162) = 0 TMP\_163 = 1 not(TMP\_163) = 0 TMP\_164 = 2 TMP\_165 = 0 not(TMP\_165) = 1 TMP\_166 = 0 not(TMP\_166) = 1 TMP\_167 = 1 not(TMP\_167) = 0 TMP\_168 = 1 not(TMP\_168) = 0 TMP\_169 = 1 not(TMP\_169) = 0 TMP\_170 = 2 TMP\_171 = 1 not(TMP\_171) = 0 TMP\_172 = 0 not(TMP\_172) = 1 TMP\_173 = 1 not(TMP\_173) = 0 TMP\_174 = 1 not(TMP\_174) = 0 TMP\_175 = 1 not(TMP\_175) = 0 TMP\_176 = 1 not(TMP\_176) = 0 TMP\_177 = 5 TMP\_178 = 0 not(TMP\_178) = 1 TMP\_179 = 0 not(TMP\_179) = 1 TMP\_180 = 0 TMP\_181 = 1 not(TMP\_181) = 0 TMP\_182 = 1 not(TMP\_182) = 0 TMP\_183 = 2 TMP\_184 = 0 not(TMP\_184) = 1 TMP\_185 = 0 not(TMP\_185) = 1 TMP\_186 = 1 not(TMP\_186) = 0 TMP\_187 = 1 not(TMP\_187) = 0 TMP\_188 = 1 not(TMP\_188) = 0 TMP\_189 = 2 TMP\_190 = 1 not(TMP\_190) = 0 TMP\_191 = 0 not(TMP\_191) = 1 TMP\_192 = 1 not(TMP\_192) = 0 TMP\_193 = 1 not(TMP\_193) = 0 TMP\_194 = 1 not(TMP\_194) = 0 TMP\_195 = 1 not(TMP\_195) = 0 TMP\_196 = 5 TMP\_197 = 0 not(TMP\_197) = 1 TMP\_198 = 0 not(TMP\_198) = 1 TMP\_199 = 0 TMP\_200 = 1 not(TMP\_200) = 0 TMP\_201 = 1 not(TMP\_201) = 0 TMP\_202 = 2 TMP\_203 = 0 not(TMP\_203) = 1 TMP\_204 = 0 not(TMP\_204) = 1 TMP\_205 = 1 not(TMP\_205) = 0 TMP\_206 = 1 not(TMP\_206) = 0 TMP\_207 = 1 not(TMP\_207) = 0 TMP\_208 = 2 TMP\_209 = 1 not(TMP\_209) = 0 TMP\_210 = 0 not(TMP\_210) = 1 TMP\_211 = 1 not(TMP\_211) = 0 TMP\_212 = 1 not(TMP\_212) = 0 TMP\_213 = 1 not(TMP\_213) = 0 TMP\_214 = 1 not(TMP\_214) = 0 TMP\_215 = 5 TMP\_216 = 0 not(TMP\_216) = 1 TMP\_217 = 0 not(TMP\_217) = 1 TMP\_218 = 0 TMP\_219 = 1 not(TMP\_219) = 0 TMP\_220 = 1 not(TMP\_220) = 0 TMP\_221 = 2 TMP\_222 = 0 not(TMP\_222) = 1 TMP\_223 = 0 not(TMP\_223) = 1 TMP\_224 = 1 not(TMP\_224) = 0 TMP\_225 = 1 not(TMP\_225) = 0 TMP\_226 = 1 not(TMP\_226) = 0 TMP\_227 = 2 TMP\_228 = 1 not(TMP\_228) = 0 TMP\_229 = 0 not(TMP\_229) = 1 TMP\_230 = 1 not(TMP\_230) = 0 TMP\_231 = 1 not(TMP\_231) = 0 TMP\_232 = 1 not(TMP\_232) = 0 TMP\_233 = 0 not(TMP\_233) = 1 TMP\_234 = 4 TMP\_235 = 0 not(TMP\_235) = 1 TMP\_236 = 0 not(TMP\_236) = 1 TMP\_237 = 0 TMP\_238 = 1 not(TMP\_238) = 0 TMP\_239 = 1 not(TMP\_239) = 0 TMP\_240 = 2 TMP\_241 = 0 not(TMP\_241) = 1 TMP\_242 = 0 not(TMP\_242) = 1 TMP\_243 = 1 not(TMP\_243) = 0 TMP\_244 = 1 not(TMP\_244) = 0 TMP\_245 = 1 not(TMP\_245) = 0 TMP\_246 = 2 TMP\_247 = 1 not(TMP\_247) = 0 TMP\_248 = 1 not(TMP\_248) = 0 TMP\_249 = 1 not(TMP\_249) = 0 TMP\_250 = 1 not(TMP\_250) = 0 TMP\_251 = 1 not(TMP\_251) = 0 TMP\_252 = 0 not(TMP\_252) = 1 TMP\_253 = 5 TMP\_254 = 0 not(TMP\_254) = 1 TMP\_255 = 0 not(TMP\_255) = 1 TMP\_256 = 0 TMP\_257 = 1 not(TMP\_257) = 0 TMP\_258 = 1 not(TMP\_258) = 0 TMP\_259 = 2 TMP\_260 = 0 not(TMP\_260) = 1 TMP\_261 = 0 not(TMP\_261) = 1 TMP\_262 = 1 not(TMP\_262) = 0 TMP\_263 = 1 not(TMP\_263) = 0 TMP\_264 = 1 not(TMP\_264) = 0 TMP\_265 = 2 TMP\_266 = 0 not(TMP\_266) = 1 TMP\_267 = 1 not(TMP\_267) = 0 TMP\_268 = 1 not(TMP\_268) = 0 TMP\_269 = 1 not(TMP\_269) = 0 TMP\_270 = 1 not(TMP\_270) = 0 TMP\_271 = 1 not(TMP\_271) = 0 TMP\_272 = 5 TMP\_273 = 0 not(TMP\_273) = 1 TMP\_274 = 0 not(TMP\_274) = 1 TMP\_275 = 0 TMP\_276 = 1 not(TMP\_276) = 0 TMP\_277 = 1 not(TMP\_277) = 0 TMP\_278 = 2 TMP\_279 = 0 not(TMP\_279) = 1 TMP\_280 = 0 not(TMP\_280) = 1 TMP\_281 = 1 not(TMP\_281) = 0 TMP\_282 = 1 not(TMP\_282) = 0 TMP\_283 = 1 not(TMP\_283) = 0 TMP\_284 = 2 TMP\_285 = 0 not(TMP\_285) = 1 TMP\_286 = 1 not(TMP\_286) = 0 TMP\_287 = 1 not(TMP\_287) = 0 TMP\_288 = 1 not(TMP\_288) = 0 TMP\_289 = 1 not(TMP\_289) = 0 TMP\_290 = 1 not(TMP\_290) = 0 TMP\_291 = 5 TMP\_292 = 0 not(TMP\_292) = 1 TMP\_293 = 0 not(TMP\_293) = 1 TMP\_294 = 0 TMP\_295 = 1 not(TMP\_295) = 0 TMP\_296 = 1 not(TMP\_296) = 0 TMP\_297 = 2 TMP\_298 = 0 not(TMP\_298) = 1 TMP\_299 = 0 not(TMP\_299) = 1 TMP\_300 = 1 not(TMP\_300) = 0 TMP\_301 = 1 not(TMP\_301) = 0 TMP\_302 = 1 not(TMP\_302) = 0 TMP\_303 = 2 TMP\_304 = 0 not(TMP\_304) = 1 TMP\_305 = 1 not(TMP\_305) = 0 TMP\_306 = 1 not(TMP\_306) = 0 TMP\_307 = 1 not(TMP\_307) = 0 TMP\_308 = 0 not(TMP\_308) = 1 TMP\_309 = 1 not(TMP\_309) = 0 TMP\_310 = 4 TMP\_311 = 0 not(TMP\_311) = 1 TMP\_312 = 0 not(TMP\_312) = 1 TMP\_313 = 0 TMP\_314 = 1 not(TMP\_314) = 0 TMP\_315 = 1 not(TMP\_315) = 0 TMP\_316 = 2 TMP\_317 = 0 not(TMP\_317) = 1 TMP\_318 = 0 not(TMP\_318) = 1 TMP\_319 = 1 not(TMP\_319) = 0 TMP\_320 = 1 not(TMP\_320) = 0 TMP\_321 = 1 not(TMP\_321) = 0 TMP\_322 = 2 TMP\_323 = 0 not(TMP\_323) = 1 TMP\_324 = 1 not(TMP\_324) = 0 TMP\_325 = 1 not(TMP\_325) = 0 TMP\_326 = 1 not(TMP\_326) = 0 TMP\_327 = 0 not(TMP\_327) = 1 TMP\_328 = 1 not(TMP\_328) = 0 TMP\_329 = 4 TMP\_330 = 0 not(TMP\_330) = 1 TMP\_331 = 0 not(TMP\_331) = 1 TMP\_332 = 0 TMP\_333 = 1 not(TMP\_333) = 0 TMP\_334 = 1 not(TMP\_334) = 0 TMP\_335 = 2 TMP\_336 = 0 not(TMP\_336) = 1 TMP\_337 = 0 not(TMP\_337) = 1 TMP\_338 = 1 not(TMP\_338) = 0 TMP\_339 = 1 not(TMP\_339) = 0 TMP\_340 = 1 not(TMP\_340) = 0 TMP\_341 = 2 TMP\_342 = 1 not(TMP\_342) = 0 TMP\_343 = 1 not(TMP\_343) = 0 TMP\_344 = 1 not(TMP\_344) = 0 TMP\_345 = 1 not(TMP\_345) = 0 TMP\_346 = 0 not(TMP\_346) = 1 TMP\_347 = 1 not(TMP\_347) = 0 TMP\_348 = 5 TMP\_349 = 0 not(TMP\_349) = 1 TMP\_350 = 0 not(TMP\_350) = 1 TMP\_351 = 0 TMP\_352 = 1 not(TMP\_352) = 0 TMP\_353 = 1 not(TMP\_353) = 0 TMP\_354 = 2 TMP\_355 = 0 not(TMP\_355) = 1 TMP\_356 = 0 not(TMP\_356) = 1 TMP\_357 = 1 not(TMP\_357) = 0 TMP\_358 = 1 not(TMP\_358) = 0 TMP\_359 = 1 not(TMP\_359) = 0 TMP\_360 = 2 TMP\_361 = 0 not(TMP\_361) = 1 TMP\_362 = 1 not(TMP\_362) = 0 TMP\_363 = 1 not(TMP\_363) = 0 TMP\_364 = 1 not(TMP\_364) = 0 TMP\_365 = 0 not(TMP\_365) = 1 TMP\_366 = 1 not(TMP\_366) = 0 TMP\_367 = 4 TMP\_368 = 0 not(TMP\_368) = 1 TMP\_369 = 0 not(TMP\_369) = 1 TMP\_370 = 0 TMP\_371 = 1 not(TMP\_371) = 0 TMP\_372 = 1 not(TMP\_372) = 0 TMP\_373 = 2 TMP\_374 = 0 not(TMP\_374) = 1 TMP\_375 = 0 not(TMP\_375) = 1 TMP\_376 = 1 not(TMP\_376) = 0 TMP\_377 = 1 not(TMP\_377) = 0 TMP\_378 = 1 not(TMP\_378) = 0 TMP\_379 = 2 TMP\_380 = 0 not(TMP\_380) = 1 TMP\_381 = 1 not(TMP\_381) = 0 TMP\_382 = 1 not(TMP\_382) = 0 TMP\_383 = 1 not(TMP\_383) = 0 TMP\_384 = 1 not(TMP\_384) = 0 TMP\_385 = 1 not(TMP\_385) = 0 TMP\_386 = 5 TMP\_387 = 0 not(TMP\_387) = 1 TMP\_388 = 0 not(TMP\_388) = 1 TMP\_389 = 0 TMP\_390 = 1 not(TMP\_390) = 0 TMP\_391 = 1 not(TMP\_391) = 0 TMP\_392 = 2 TMP\_393 = 0 not(TMP\_393) = 1 TMP\_394 = 0 not(TMP\_394) = 1 TMP\_395 = 1 not(TMP\_395) = 0 TMP\_396 = 1 not(TMP\_396) = 0 TMP\_397 = 1 not(TMP\_397) = 0 TMP\_398 = 2 TMP\_399 = 0 not(TMP\_399) = 1 TMP\_400 = 1 not(TMP\_400) = 0 TMP\_401 = 1 not(TMP\_401) = 0 TMP\_402 = 1 not(TMP\_402) = 0 TMP\_403 = 1 not(TMP\_403) = 0 TMP\_404 = 1 not(TMP\_404) = 0 TMP\_405 = 5 TMP\_406 = 0 not(TMP\_406) = 1 TMP\_407 = 0 not(TMP\_407) = 1 TMP\_408 = 0 TMP\_409 = 1 not(TMP\_409) = 0 TMP\_410 = 1 not(TMP\_410) = 0 TMP\_411 = 2 TMP\_412 = 0 not(TMP\_412) = 1 TMP\_413 = 0 not(TMP\_413) = 1 TMP\_414 = 1 not(TMP\_414) = 0 TMP\_415 = 1 not(TMP\_415) = 0 TMP\_416 = 1 not(TMP\_416) = 0 TMP\_417 = 2 TMP\_418 = 1 not(TMP\_418) = 0 TMP\_419 = 0 not(TMP\_419) = 1 TMP\_420 = 1 not(TMP\_420) = 0 TMP\_421 = 1 not(TMP\_421) = 0 TMP\_422 = 1 not(TMP\_422) = 0 TMP\_423 = 1 not(TMP\_423) = 0 TMP\_424 = 5 TMP\_425 = 0 not(TMP\_425) = 1 TMP\_426 = 0 not(TMP\_426) = 1 TMP\_427 = 0 TMP\_428 = 1 not(TMP\_428) = 0 TMP\_429 = 1 not(TMP\_429) = 0 TMP\_430 = 2 TMP\_431 = 0 not(TMP\_431) = 1 TMP\_432 = 0 not(TMP\_432) = 1 TMP\_433 = 1 not(TMP\_433) = 0 TMP\_434 = 1 not(TMP\_434) = 0 TMP\_435 = 1 not(TMP\_435) = 0 TMP\_436 = 2 TMP\_437 = 1 not(TMP\_437) = 0 TMP\_438 = 0 not(TMP\_438) = 1 TMP\_439 = 1 not(TMP\_439) = 0 TMP\_440 = 1 not(TMP\_440) = 0 TMP\_441 = 0 not(TMP\_441) = 1 TMP\_442 = 1 not(TMP\_442) = 0 TMP\_443 = 4 TMP\_444 = 0 not(TMP\_444) = 1 TMP\_445 = 0 not(TMP\_445) = 1 TMP\_446 = 0 TMP\_447 = 1 not(TMP\_447) = 0 TMP\_448 = 1 not(TMP\_448) = 0 TMP\_449 = 2 TMP\_450 = 0 not(TMP\_450) = 1 TMP\_451 = 0 not(TMP\_451) = 1 TMP\_452 = 1 not(TMP\_452) = 0 TMP\_453 = 1 not(TMP\_453) = 0 TMP\_454 = 1 not(TMP\_454) = 0 TMP\_455 = 2 TMP\_456 = 1 not(TMP\_456) = 0 TMP\_457 = 0 not(TMP\_457) = 1 TMP\_458 = 1 not(TMP\_458) = 0 TMP\_459 = 1 not(TMP\_459) = 0 TMP\_460 = 0 not(TMP\_460) = 1 TMP\_461 = 1 not(TMP\_461) = 0 TMP\_462 = 4 TMP\_463 = 0 not(TMP\_463) = 1 TMP\_464 = 0 not(TMP\_464) = 1 TMP\_465 = 0 TMP\_466 = 1 not(TMP\_466) = 0 TMP\_467 = 1 not(TMP\_467) = 0 TMP\_468 = 2 TMP\_469 = 0 not(TMP\_469) = 1 TMP\_470 = 0 not(TMP\_470) = 1 TMP\_471 = 1 not(TMP\_471) = 0 TMP\_472 = 1 not(TMP\_472) = 0 TMP\_473 = 1 not(TMP\_473) = 0 TMP\_474 = 2 TMP\_475 = 1 not(TMP\_475) = 0 TMP\_476 = 0 not(TMP\_476) = 1 TMP\_477 = 1 not(TMP\_477) = 0 TMP\_478 = 1 not(TMP\_478) = 0 TMP\_479 = 0 not(TMP\_479) = 1 TMP\_480 = 1 not(TMP\_480) = 0 TMP\_481 = 4 TMP\_482 = 0 not(TMP\_482) = 1 TMP\_483 = 0 not(TMP\_483) = 1 TMP\_484 = 0 TMP\_485 = 1 not(TMP\_485) = 0 TMP\_486 = 1 not(TMP\_486) = 0 TMP\_487 = 2 TMP\_488 = 0 not(TMP\_488) = 1 TMP\_489 = 0 not(TMP\_489) = 1 TMP\_490 = 1 not(TMP\_490) = 0 TMP\_491 = 1 not(TMP\_491) = 0 TMP\_492 = 1 not(TMP\_492) = 0 TMP\_493 = 2 TMP\_494 = 1 not(TMP\_494) = 0 TMP\_495 = 1 not(TMP\_495) = 0 TMP\_496 = 1 not(TMP\_496) = 0 TMP\_497 = 1 not(TMP\_497) = 0 TMP\_498 = 0 not(TMP\_498) = 1 TMP\_499 = 1 not(TMP\_499) = 0 TMP\_500 = 5 TMP\_501 = 0 not(TMP\_501) = 1 TMP\_502 = 0 not(TMP\_502) = 1 TMP\_503 = 0 TMP\_504 = 1 not(TMP\_504) = 0 TMP\_505 = 1 not(TMP\_505) = 0 TMP\_506 = 2 TMP\_507 = 0 not(TMP\_507) = 1 TMP\_508 = 0 not(TMP\_508) = 1 TMP\_509 = 1 not(TMP\_509) = 0 TMP\_510 = 1 not(TMP\_510) = 0 TMP\_511 = 1 not(TMP\_511) = 0 TMP\_512 = 2 TMP\_513 = 1 not(TMP\_513) = 0 TMP\_514 = 0 not(TMP\_514) = 1 TMP\_515 = 1 not(TMP\_515) = 0 TMP\_516 = 1 not(TMP\_516) = 0 TMP\_517 = 1 not(TMP\_517) = 0 TMP\_518 = 1 not(TMP\_518) = 0 TMP\_519 = 5 TMP\_520 = 0 not(TMP\_520) = 1 TMP\_521 = 0 not(TMP\_521) = 1 TMP\_522 = 0 TMP\_523 = 1 not(TMP\_523) = 0 TMP\_524 = 1 not(TMP\_524) = 0 TMP\_525 = 2 TMP\_526 = 0 not(TMP\_526) = 1 TMP\_527 = 0 not(TMP\_527) = 1 TMP\_528 = 1 not(TMP\_528) = 0 TMP\_529 = 1 not(TMP\_529) = 0 TMP\_530 = 1 not(TMP\_530) = 0 TMP\_531 = 2 Area\_0 = 60 Distance\_0\_Rule\_0 = 20 Distance\_1\_Rule\_0 = 3 Distance\_2\_Rule\_0 = 1 Area\_1 = 174 Distance\_0\_Rule\_1 = 58 Distance\_1\_Rule\_1 = 3 Distance\_2\_Rule\_1 = 1 Area\_2 = 116 Distance\_0\_Rule\_2 = 58 Distance\_1\_Rule\_2 = 2 Distance\_2\_Rule\_2 = 1 Area\_3 = 58 Distance\_0\_Rule\_3 = 58 Distance\_1\_Rule\_3 = 1 Distance\_2\_Rule\_3 = 1 Area\_4 = 123 -(Rule\_4\_LB) = -79 Distance\_0\_Rule\_4 = 41 -(Rule\_4\_LB) = 0 Distance\_1\_Rule\_4 = 3 -(Rule\_4\_LB) = 0 Distance\_2\_Rule\_4 = 1 Area\_5 = 63 -(Rule\_5\_LB) = 0 Distance\_0\_Rule\_5 = 21 -(Rule\_5\_LB) = 0 Distance\_1\_Rule\_5 = 3 -(Rule\_5\_LB) = 0 Distance\_2\_Rule\_5 = 1 Area\_6 = 123 -(Rule\_6\_LB) = -79 Distance\_0\_Rule\_6 = 41 -(Rule\_6\_LB) = 0 Distance\_1\_Rule\_6 = 3 -(Rule\_6\_LB) = -1 Distance\_2\_Rule\_6 = 1 Area\_7 = 3 -(Rule\_7\_LB) = -20 Distance\_0\_Rule\_7 = 1 -(Rule\_7\_LB) = 0 Distance\_1\_Rule\_7 = 3 -(Rule\_7\_LB) = -1 Distance\_2\_Rule\_7 = 1 TMP\_532 = 720 .

- Solution #18 found. 18 Solutions, Resolution 0.368s, 113 Nodes (307.3 n/s), 139 Backtracks, 58 Fails, 0 Restarts

Rule\_4\_LB = 79 Rule\_4\_UB = 120 Rule\_4\_LB = 0 Rule\_4\_UB = 3 Rule\_4\_LB = 0 Rule\_4\_UB = 1 Rule\_5\_LB = 0 Rule\_5\_UB = 21 Rule\_5\_LB = 0 Rule\_5\_UB = 3 Rule\_5\_LB = 0 Rule\_5\_UB = 1 Rule\_6\_LB = 79 Rule\_6\_UB = 120 Rule\_6\_LB = 0 Rule\_6\_UB = 3 Rule\_6\_LB = 1 Rule\_6\_UB = 2 Rule\_7\_LB = 20 Rule\_7\_UB = 21 Rule\_7\_LB = 0 Rule\_7\_UB = 3 Rule\_7\_LB = 1 Rule\_7\_UB = 2 Overlaps\_0\_0 = 0 Overlaps\_0\_1 = 1 Overlaps\_0\_2 = 1 Overlaps\_0\_3 = 0 Overlaps\_0\_4 = 0 Overlaps\_0\_5 = 0 Overlaps\_0\_6 = 0 Overlaps\_0\_7 = 0 Overlaps\_1\_0 = 0 Overlaps\_1\_1 = 0 Overlaps\_1\_2 = 0 Overlaps\_1\_3 = 0 Overlaps\_1\_4 = 0 Overlaps\_1\_5 = 0 Overlaps\_1\_6 = 0 Overlaps\_1\_7 = 0 Overlaps\_2\_0 = 0 Overlaps\_2\_1 = 0 Overlaps\_2\_2 = 0 Overlaps\_2\_3 = 0 Overlaps\_2\_4 = 0 Overlaps\_2\_5 = 0 Overlaps\_2\_6 = 0 Overlaps\_2\_7 = 0 Overlaps\_3\_0 = 0 Overlaps\_3\_1 = 0 Overlaps\_3\_2 = 0 Overlaps\_3\_3 = 0 Overlaps\_3\_4 = 0 Overlaps\_3\_5 = 0 Overlaps\_3\_6 = 0 Overlaps\_3\_7 = 0 Overlaps\_4\_0 = 0 Overlaps\_4\_1 = 0 Overlaps\_4\_2 = 0 Overlaps\_4\_3 = 0 Overlaps\_4\_4 = 0 Overlaps\_4\_5 = 0 Overlaps\_4\_6 = 0 Overlaps\_4\_7 = 0 Overlaps\_5\_0 = 0 Overlaps\_5\_1 = 0 Overlaps\_5\_2 = 0 Overlaps\_5\_3 = 0 Overlaps\_5\_4 = 0 Overlaps\_5\_5 = 0 Overlaps\_5\_6 = 0 Overlaps\_5\_7 = 0 Overlaps\_6\_0 = 0 Overlaps\_6\_1 = 0 Overlaps\_6\_2 = 0 Overlaps\_6\_3 = 0 Overlaps\_6\_4 = 0 Overlaps\_6\_5 = 0 Overlaps\_6\_6 = 0 Overlaps\_6\_7 = 0 Overlaps\_7\_0 = 0 Overlaps\_7\_1 = 0 Overlaps\_7\_2 = 0 Overlaps\_7\_3 = 0 Overlaps\_7\_4 = 0 Overlaps\_7\_5 = 0 Overlaps\_7\_6 = 0 Overlaps\_7\_7 = 0 TMP\_0 = 0 not(TMP\_0) = 1 TMP\_1 = 1 not(TMP\_1) = 0 TMP\_2 = 1 not(TMP\_2) = 0 TMP\_3 = 1 not(TMP\_3) = 0 TMP\_4 = 1 not(TMP\_4) = 0 TMP\_5 = 0 not(TMP\_5) = 1 TMP\_6 = 4 TMP\_7 = 0 not(TMP\_7) = 1 TMP\_8 = 0 not(TMP\_8) = 1 TMP\_9 = 0 TMP\_10 = 1 not(TMP\_10) = 0 TMP\_11 = 1 not(TMP\_11) = 0 TMP\_12 = 2 TMP\_13 = 0 not(TMP\_13) = 1 TMP\_14 = 0 not(TMP\_14) = 1 TMP\_15 = 1 not(TMP\_15) = 0 TMP\_16 = 1 not(TMP\_16) = 0 TMP\_17 = 1 not(TMP\_17) = 0 TMP\_18 = 2 TMP\_19 = 0 not(TMP\_19) = 1 TMP\_20 = 1 not(TMP\_20) = 0 TMP\_21 = 1 not(TMP\_21) = 0 TMP\_22 = 1 not(TMP\_22) = 0 TMP\_23 = 1 not(TMP\_23) = 0 TMP\_24 = 0 not(TMP\_24) = 1 TMP\_25 = 4 TMP\_26 = 0 not(TMP\_26) = 1 TMP\_27 = 0 not(TMP\_27) = 1 TMP\_28 = 0 TMP\_29 = 1 not(TMP\_29) = 0 TMP\_30 = 1 not(TMP\_30) = 0 TMP\_31 = 2 TMP\_32 = 0 not(TMP\_32) = 1 TMP\_33 = 0 not(TMP\_33) = 1 TMP\_34 = 1 not(TMP\_34) = 0 TMP\_35 = 1 not(TMP\_35) = 0 TMP\_36 = 1 not(TMP\_36) = 0 TMP\_37 = 2 TMP\_38 = 0 not(TMP\_38) = 1 TMP\_39 = 1 not(TMP\_39) = 0 TMP\_40 = 1 not(TMP\_40) = 0 TMP\_41 = 1 not(TMP\_41) = 0 TMP\_42 = 1 not(TMP\_42) = 0 TMP\_43 = 1 not(TMP\_43) = 0 TMP\_44 = 5 TMP\_45 = 0 not(TMP\_45) = 1 TMP\_46 = 0 not(TMP\_46) = 1 TMP\_47 = 0 TMP\_48 = 1 not(TMP\_48) = 0 TMP\_49 = 1 not(TMP\_49) = 0 TMP\_50 = 2 TMP\_51 = 0 not(TMP\_51) = 1 TMP\_52 = 0 not(TMP\_52) = 1 TMP\_53 = 1 not(TMP\_53) = 0 TMP\_54 = 1 not(TMP\_54) = 0 TMP\_55 = 1 not(TMP\_55) = 0 TMP\_56 = 2 TMP\_57 = 0 not(TMP\_57) = 1 TMP\_58 = 1 not(TMP\_58) = 0 TMP\_59 = 1 not(TMP\_59) = 0 TMP\_60 = 1 not(TMP\_60) = 0 TMP\_61 = 1 not(TMP\_61) = 0 TMP\_62 = 1 not(TMP\_62) = 0 TMP\_63 = 5 TMP\_64 = 0 not(TMP\_64) = 1 TMP\_65 = 0 not(TMP\_65) = 1 TMP\_66 = 0 TMP\_67 = 1 not(TMP\_67) = 0 TMP\_68 = 1 not(TMP\_68) = 0 TMP\_69 = 2 TMP\_70 = 0 not(TMP\_70) = 1 TMP\_71 = 0 not(TMP\_71) = 1 TMP\_72 = 1 not(TMP\_72) = 0 TMP\_73 = 1 not(TMP\_73) = 0 TMP\_74 = 1 not(TMP\_74) = 0 TMP\_75 = 2 TMP\_76 = 0 not(TMP\_76) = 1 TMP\_77 = 1 not(TMP\_77) = 0 TMP\_78 = 1 not(TMP\_78) = 0 TMP\_79 = 1 not(TMP\_79) = 0 TMP\_80 = 1 not(TMP\_80) = 0 TMP\_81 = 1 not(TMP\_81) = 0 TMP\_82 = 5 TMP\_83 = 0 not(TMP\_83) = 1 TMP\_84 = 0 not(TMP\_84) = 1 TMP\_85 = 0 TMP\_86 = 1 not(TMP\_86) = 0 TMP\_87 = 1 not(TMP\_87) = 0 TMP\_88 = 2 TMP\_89 = 0 not(TMP\_89) = 1 TMP\_90 = 0 not(TMP\_90) = 1 TMP\_91 = 1 not(TMP\_91) = 0 TMP\_92 = 1 not(TMP\_92) = 0 TMP\_93 = 1 not(TMP\_93) = 0 TMP\_94 = 2 TMP\_95 = 1 not(TMP\_95) = 0 TMP\_96 = 1 not(TMP\_96) = 0 TMP\_97 = 1 not(TMP\_97) = 0 TMP\_98 = 1 not(TMP\_98) = 0 TMP\_99 = 1 not(TMP\_99) = 0 TMP\_100 = 0 not(TMP\_100) = 1 TMP\_101 = 5 TMP\_102 = 0 not(TMP\_102) = 1 TMP\_103 = 0 not(TMP\_103) = 1 TMP\_104 = 0 TMP\_105 = 1 not(TMP\_105) = 0 TMP\_106 = 1 not(TMP\_106) = 0 TMP\_107 = 2 TMP\_108 = 0 not(TMP\_108) = 1 TMP\_109 = 0 not(TMP\_109) = 1 TMP\_110 = 1 not(TMP\_110) = 0 TMP\_111 = 1 not(TMP\_111) = 0 TMP\_112 = 1 not(TMP\_112) = 0 TMP\_113 = 2 TMP\_114 = 0 not(TMP\_114) = 1 TMP\_115 = 1 not(TMP\_115) = 0 TMP\_116 = 1 not(TMP\_116) = 0 TMP\_117 = 1 not(TMP\_117) = 0 TMP\_118 = 1 not(TMP\_118) = 0 TMP\_119 = 0 not(TMP\_119) = 1 TMP\_120 = 4 TMP\_121 = 0 not(TMP\_121) = 1 TMP\_122 = 0 not(TMP\_122) = 1 TMP\_123 = 0 TMP\_124 = 1 not(TMP\_124) = 0 TMP\_125 = 1 not(TMP\_125) = 0 TMP\_126 = 2 TMP\_127 = 0 not(TMP\_127) = 1 TMP\_128 = 0 not(TMP\_128) = 1 TMP\_129 = 1 not(TMP\_129) = 0 TMP\_130 = 1 not(TMP\_130) = 0 TMP\_131 = 1 not(TMP\_131) = 0 TMP\_132 = 2 TMP\_133 = 1 not(TMP\_133) = 0 TMP\_134 = 1 not(TMP\_134) = 0 TMP\_135 = 1 not(TMP\_135) = 0 TMP\_136 = 1 not(TMP\_136) = 0 TMP\_137 = 1 not(TMP\_137) = 0 TMP\_138 = 0 not(TMP\_138) = 1 TMP\_139 = 5 TMP\_140 = 0 not(TMP\_140) = 1 TMP\_141 = 0 not(TMP\_141) = 1 TMP\_142 = 0 TMP\_143 = 1 not(TMP\_143) = 0 TMP\_144 = 1 not(TMP\_144) = 0 TMP\_145 = 2 TMP\_146 = 0 not(TMP\_146) = 1 TMP\_147 = 0 not(TMP\_147) = 1 TMP\_148 = 1 not(TMP\_148) = 0 TMP\_149 = 1 not(TMP\_149) = 0 TMP\_150 = 1 not(TMP\_150) = 0 TMP\_151 = 2 TMP\_152 = 1 not(TMP\_152) = 0 TMP\_153 = 0 not(TMP\_153) = 1 TMP\_154 = 1 not(TMP\_154) = 0 TMP\_155 = 1 not(TMP\_155) = 0 TMP\_156 = 1 not(TMP\_156) = 0 TMP\_157 = 0 not(TMP\_157) = 1 TMP\_158 = 4 TMP\_159 = 0 not(TMP\_159) = 1 TMP\_160 = 0 not(TMP\_160) = 1 TMP\_161 = 0 TMP\_162 = 1 not(TMP\_162) = 0 TMP\_163 = 1 not(TMP\_163) = 0 TMP\_164 = 2 TMP\_165 = 0 not(TMP\_165) = 1 TMP\_166 = 0 not(TMP\_166) = 1 TMP\_167 = 1 not(TMP\_167) = 0 TMP\_168 = 1 not(TMP\_168) = 0 TMP\_169 = 1 not(TMP\_169) = 0 TMP\_170 = 2 TMP\_171 = 1 not(TMP\_171) = 0 TMP\_172 = 0 not(TMP\_172) = 1 TMP\_173 = 1 not(TMP\_173) = 0 TMP\_174 = 1 not(TMP\_174) = 0 TMP\_175 = 1 not(TMP\_175) = 0 TMP\_176 = 1 not(TMP\_176) = 0 TMP\_177 = 5 TMP\_178 = 0 not(TMP\_178) = 1 TMP\_179 = 0 not(TMP\_179) = 1 TMP\_180 = 0 TMP\_181 = 1 not(TMP\_181) = 0 TMP\_182 = 1 not(TMP\_182) = 0 TMP\_183 = 2 TMP\_184 = 0 not(TMP\_184) = 1 TMP\_185 = 0 not(TMP\_185) = 1 TMP\_186 = 1 not(TMP\_186) = 0 TMP\_187 = 1 not(TMP\_187) = 0 TMP\_188 = 1 not(TMP\_188) = 0 TMP\_189 = 2 TMP\_190 = 1 not(TMP\_190) = 0 TMP\_191 = 0 not(TMP\_191) = 1 TMP\_192 = 1 not(TMP\_192) = 0 TMP\_193 = 1 not(TMP\_193) = 0 TMP\_194 = 1 not(TMP\_194) = 0 TMP\_195 = 1 not(TMP\_195) = 0 TMP\_196 = 5 TMP\_197 = 0 not(TMP\_197) = 1 TMP\_198 = 0 not(TMP\_198) = 1 TMP\_199 = 0 TMP\_200 = 1 not(TMP\_200) = 0 TMP\_201 = 1 not(TMP\_201) = 0 TMP\_202 = 2 TMP\_203 = 0 not(TMP\_203) = 1 TMP\_204 = 0 not(TMP\_204) = 1 TMP\_205 = 1 not(TMP\_205) = 0 TMP\_206 = 1 not(TMP\_206) = 0 TMP\_207 = 1 not(TMP\_207) = 0 TMP\_208 = 2 TMP\_209 = 1 not(TMP\_209) = 0 TMP\_210 = 0 not(TMP\_210) = 1 TMP\_211 = 1 not(TMP\_211) = 0 TMP\_212 = 1 not(TMP\_212) = 0 TMP\_213 = 1 not(TMP\_213) = 0 TMP\_214 = 1 not(TMP\_214) = 0 TMP\_215 = 5 TMP\_216 = 0 not(TMP\_216) = 1 TMP\_217 = 0 not(TMP\_217) = 1 TMP\_218 = 0 TMP\_219 = 1 not(TMP\_219) = 0 TMP\_220 = 1 not(TMP\_220) = 0 TMP\_221 = 2 TMP\_222 = 0 not(TMP\_222) = 1 TMP\_223 = 0 not(TMP\_223) = 1 TMP\_224 = 1 not(TMP\_224) = 0 TMP\_225 = 1 not(TMP\_225) = 0 TMP\_226 = 1 not(TMP\_226) = 0 TMP\_227 = 2 TMP\_228 = 1 not(TMP\_228) = 0 TMP\_229 = 0 not(TMP\_229) = 1 TMP\_230 = 1 not(TMP\_230) = 0 TMP\_231 = 1 not(TMP\_231) = 0 TMP\_232 = 1 not(TMP\_232) = 0 TMP\_233 = 0 not(TMP\_233) = 1 TMP\_234 = 4 TMP\_235 = 0 not(TMP\_235) = 1 TMP\_236 = 0 not(TMP\_236) = 1 TMP\_237 = 0 TMP\_238 = 1 not(TMP\_238) = 0 TMP\_239 = 1 not(TMP\_239) = 0 TMP\_240 = 2 TMP\_241 = 0 not(TMP\_241) = 1 TMP\_242 = 0 not(TMP\_242) = 1 TMP\_243 = 1 not(TMP\_243) = 0 TMP\_244 = 1 not(TMP\_244) = 0 TMP\_245 = 1 not(TMP\_245) = 0 TMP\_246 = 2 TMP\_247 = 1 not(TMP\_247) = 0 TMP\_248 = 1 not(TMP\_248) = 0 TMP\_249 = 1 not(TMP\_249) = 0 TMP\_250 = 1 not(TMP\_250) = 0 TMP\_251 = 1 not(TMP\_251) = 0 TMP\_252 = 0 not(TMP\_252) = 1 TMP\_253 = 5 TMP\_254 = 0 not(TMP\_254) = 1 TMP\_255 = 0 not(TMP\_255) = 1 TMP\_256 = 0 TMP\_257 = 1 not(TMP\_257) = 0 TMP\_258 = 1 not(TMP\_258) = 0 TMP\_259 = 2 TMP\_260 = 0 not(TMP\_260) = 1 TMP\_261 = 0 not(TMP\_261) = 1 TMP\_262 = 1 not(TMP\_262) = 0 TMP\_263 = 1 not(TMP\_263) = 0 TMP\_264 = 1 not(TMP\_264) = 0 TMP\_265 = 2 TMP\_266 = 0 not(TMP\_266) = 1 TMP\_267 = 1 not(TMP\_267) = 0 TMP\_268 = 1 not(TMP\_268) = 0 TMP\_269 = 1 not(TMP\_269) = 0 TMP\_270 = 1 not(TMP\_270) = 0 TMP\_271 = 1 not(TMP\_271) = 0 TMP\_272 = 5 TMP\_273 = 0 not(TMP\_273) = 1 TMP\_274 = 0 not(TMP\_274) = 1 TMP\_275 = 0 TMP\_276 = 1 not(TMP\_276) = 0 TMP\_277 = 1 not(TMP\_277) = 0 TMP\_278 = 2 TMP\_279 = 0 not(TMP\_279) = 1 TMP\_280 = 0 not(TMP\_280) = 1 TMP\_281 = 1 not(TMP\_281) = 0 TMP\_282 = 1 not(TMP\_282) = 0 TMP\_283 = 1 not(TMP\_283) = 0 TMP\_284 = 2 TMP\_285 = 0 not(TMP\_285) = 1 TMP\_286 = 1 not(TMP\_286) = 0 TMP\_287 = 1 not(TMP\_287) = 0 TMP\_288 = 1 not(TMP\_288) = 0 TMP\_289 = 1 not(TMP\_289) = 0 TMP\_290 = 1 not(TMP\_290) = 0 TMP\_291 = 5 TMP\_292 = 0 not(TMP\_292) = 1 TMP\_293 = 0 not(TMP\_293) = 1 TMP\_294 = 0 TMP\_295 = 1 not(TMP\_295) = 0 TMP\_296 = 1 not(TMP\_296) = 0 TMP\_297 = 2 TMP\_298 = 0 not(TMP\_298) = 1 TMP\_299 = 0 not(TMP\_299) = 1 TMP\_300 = 1 not(TMP\_300) = 0 TMP\_301 = 1 not(TMP\_301) = 0 TMP\_302 = 1 not(TMP\_302) = 0 TMP\_303 = 2 TMP\_304 = 0 not(TMP\_304) = 1 TMP\_305 = 1 not(TMP\_305) = 0 TMP\_306 = 1 not(TMP\_306) = 0 TMP\_307 = 1 not(TMP\_307) = 0 TMP\_308 = 0 not(TMP\_308) = 1 TMP\_309 = 1 not(TMP\_309) = 0 TMP\_310 = 4 TMP\_311 = 0 not(TMP\_311) = 1 TMP\_312 = 0 not(TMP\_312) = 1 TMP\_313 = 0 TMP\_314 = 1 not(TMP\_314) = 0 TMP\_315 = 1 not(TMP\_315) = 0 TMP\_316 = 2 TMP\_317 = 0 not(TMP\_317) = 1 TMP\_318 = 0 not(TMP\_318) = 1 TMP\_319 = 1 not(TMP\_319) = 0 TMP\_320 = 1 not(TMP\_320) = 0 TMP\_321 = 1 not(TMP\_321) = 0 TMP\_322 = 2 TMP\_323 = 0 not(TMP\_323) = 1 TMP\_324 = 1 not(TMP\_324) = 0 TMP\_325 = 1 not(TMP\_325) = 0 TMP\_326 = 1 not(TMP\_326) = 0 TMP\_327 = 0 not(TMP\_327) = 1 TMP\_328 = 1 not(TMP\_328) = 0 TMP\_329 = 4 TMP\_330 = 0 not(TMP\_330) = 1 TMP\_331 = 0 not(TMP\_331) = 1 TMP\_332 = 0 TMP\_333 = 1 not(TMP\_333) = 0 TMP\_334 = 1 not(TMP\_334) = 0 TMP\_335 = 2 TMP\_336 = 0 not(TMP\_336) = 1 TMP\_337 = 0 not(TMP\_337) = 1 TMP\_338 = 1 not(TMP\_338) = 0 TMP\_339 = 1 not(TMP\_339) = 0 TMP\_340 = 1 not(TMP\_340) = 0 TMP\_341 = 2 TMP\_342 = 1 not(TMP\_342) = 0 TMP\_343 = 1 not(TMP\_343) = 0 TMP\_344 = 1 not(TMP\_344) = 0 TMP\_345 = 1 not(TMP\_345) = 0 TMP\_346 = 0 not(TMP\_346) = 1 TMP\_347 = 1 not(TMP\_347) = 0 TMP\_348 = 5 TMP\_349 = 0 not(TMP\_349) = 1 TMP\_350 = 0 not(TMP\_350) = 1 TMP\_351 = 0 TMP\_352 = 1 not(TMP\_352) = 0 TMP\_353 = 1 not(TMP\_353) = 0 TMP\_354 = 2 TMP\_355 = 0 not(TMP\_355) = 1 TMP\_356 = 0 not(TMP\_356) = 1 TMP\_357 = 1 not(TMP\_357) = 0 TMP\_358 = 1 not(TMP\_358) = 0 TMP\_359 = 1 not(TMP\_359) = 0 TMP\_360 = 2 TMP\_361 = 0 not(TMP\_361) = 1 TMP\_362 = 1 not(TMP\_362) = 0 TMP\_363 = 1 not(TMP\_363) = 0 TMP\_364 = 1 not(TMP\_364) = 0 TMP\_365 = 0 not(TMP\_365) = 1 TMP\_366 = 1 not(TMP\_366) = 0 TMP\_367 = 4 TMP\_368 = 0 not(TMP\_368) = 1 TMP\_369 = 0 not(TMP\_369) = 1 TMP\_370 = 0 TMP\_371 = 1 not(TMP\_371) = 0 TMP\_372 = 1 not(TMP\_372) = 0 TMP\_373 = 2 TMP\_374 = 0 not(TMP\_374) = 1 TMP\_375 = 0 not(TMP\_375) = 1 TMP\_376 = 1 not(TMP\_376) = 0 TMP\_377 = 1 not(TMP\_377) = 0 TMP\_378 = 1 not(TMP\_378) = 0 TMP\_379 = 2 TMP\_380 = 0 not(TMP\_380) = 1 TMP\_381 = 1 not(TMP\_381) = 0 TMP\_382 = 1 not(TMP\_382) = 0 TMP\_383 = 1 not(TMP\_383) = 0 TMP\_384 = 1 not(TMP\_384) = 0 TMP\_385 = 1 not(TMP\_385) = 0 TMP\_386 = 5 TMP\_387 = 0 not(TMP\_387) = 1 TMP\_388 = 0 not(TMP\_388) = 1 TMP\_389 = 0 TMP\_390 = 1 not(TMP\_390) = 0 TMP\_391 = 1 not(TMP\_391) = 0 TMP\_392 = 2 TMP\_393 = 0 not(TMP\_393) = 1 TMP\_394 = 0 not(TMP\_394) = 1 TMP\_395 = 1 not(TMP\_395) = 0 TMP\_396 = 1 not(TMP\_396) = 0 TMP\_397 = 1 not(TMP\_397) = 0 TMP\_398 = 2 TMP\_399 = 0 not(TMP\_399) = 1 TMP\_400 = 1 not(TMP\_400) = 0 TMP\_401 = 1 not(TMP\_401) = 0 TMP\_402 = 1 not(TMP\_402) = 0 TMP\_403 = 1 not(TMP\_403) = 0 TMP\_404 = 1 not(TMP\_404) = 0 TMP\_405 = 5 TMP\_406 = 0 not(TMP\_406) = 1 TMP\_407 = 0 not(TMP\_407) = 1 TMP\_408 = 0 TMP\_409 = 1 not(TMP\_409) = 0 TMP\_410 = 1 not(TMP\_410) = 0 TMP\_411 = 2 TMP\_412 = 0 not(TMP\_412) = 1 TMP\_413 = 0 not(TMP\_413) = 1 TMP\_414 = 1 not(TMP\_414) = 0 TMP\_415 = 1 not(TMP\_415) = 0 TMP\_416 = 1 not(TMP\_416) = 0 TMP\_417 = 2 TMP\_418 = 1 not(TMP\_418) = 0 TMP\_419 = 0 not(TMP\_419) = 1 TMP\_420 = 1 not(TMP\_420) = 0 TMP\_421 = 1 not(TMP\_421) = 0 TMP\_422 = 1 not(TMP\_422) = 0 TMP\_423 = 1 not(TMP\_423) = 0 TMP\_424 = 5 TMP\_425 = 0 not(TMP\_425) = 1 TMP\_426 = 0 not(TMP\_426) = 1 TMP\_427 = 0 TMP\_428 = 1 not(TMP\_428) = 0 TMP\_429 = 1 not(TMP\_429) = 0 TMP\_430 = 2 TMP\_431 = 0 not(TMP\_431) = 1 TMP\_432 = 0 not(TMP\_432) = 1 TMP\_433 = 1 not(TMP\_433) = 0 TMP\_434 = 1 not(TMP\_434) = 0 TMP\_435 = 1 not(TMP\_435) = 0 TMP\_436 = 2 TMP\_437 = 1 not(TMP\_437) = 0 TMP\_438 = 0 not(TMP\_438) = 1 TMP\_439 = 1 not(TMP\_439) = 0 TMP\_440 = 1 not(TMP\_440) = 0 TMP\_441 = 0 not(TMP\_441) = 1 TMP\_442 = 1 not(TMP\_442) = 0 TMP\_443 = 4 TMP\_444 = 0 not(TMP\_444) = 1 TMP\_445 = 0 not(TMP\_445) = 1 TMP\_446 = 0 TMP\_447 = 1 not(TMP\_447) = 0 TMP\_448 = 1 not(TMP\_448) = 0 TMP\_449 = 2 TMP\_450 = 0 not(TMP\_450) = 1 TMP\_451 = 0 not(TMP\_451) = 1 TMP\_452 = 1 not(TMP\_452) = 0 TMP\_453 = 1 not(TMP\_453) = 0 TMP\_454 = 1 not(TMP\_454) = 0 TMP\_455 = 2 TMP\_456 = 1 not(TMP\_456) = 0 TMP\_457 = 0 not(TMP\_457) = 1 TMP\_458 = 1 not(TMP\_458) = 0 TMP\_459 = 1 not(TMP\_459) = 0 TMP\_460 = 0 not(TMP\_460) = 1 TMP\_461 = 1 not(TMP\_461) = 0 TMP\_462 = 4 TMP\_463 = 0 not(TMP\_463) = 1 TMP\_464 = 0 not(TMP\_464) = 1 TMP\_465 = 0 TMP\_466 = 1 not(TMP\_466) = 0 TMP\_467 = 1 not(TMP\_467) = 0 TMP\_468 = 2 TMP\_469 = 0 not(TMP\_469) = 1 TMP\_470 = 0 not(TMP\_470) = 1 TMP\_471 = 1 not(TMP\_471) = 0 TMP\_472 = 1 not(TMP\_472) = 0 TMP\_473 = 1 not(TMP\_473) = 0 TMP\_474 = 2 TMP\_475 = 1 not(TMP\_475) = 0 TMP\_476 = 0 not(TMP\_476) = 1 TMP\_477 = 1 not(TMP\_477) = 0 TMP\_478 = 1 not(TMP\_478) = 0 TMP\_479 = 0 not(TMP\_479) = 1 TMP\_480 = 1 not(TMP\_480) = 0 TMP\_481 = 4 TMP\_482 = 0 not(TMP\_482) = 1 TMP\_483 = 0 not(TMP\_483) = 1 TMP\_484 = 0 TMP\_485 = 1 not(TMP\_485) = 0 TMP\_486 = 1 not(TMP\_486) = 0 TMP\_487 = 2 TMP\_488 = 0 not(TMP\_488) = 1 TMP\_489 = 0 not(TMP\_489) = 1 TMP\_490 = 1 not(TMP\_490) = 0 TMP\_491 = 1 not(TMP\_491) = 0 TMP\_492 = 1 not(TMP\_492) = 0 TMP\_493 = 2 TMP\_494 = 1 not(TMP\_494) = 0 TMP\_495 = 1 not(TMP\_495) = 0 TMP\_496 = 1 not(TMP\_496) = 0 TMP\_497 = 1 not(TMP\_497) = 0 TMP\_498 = 0 not(TMP\_498) = 1 TMP\_499 = 1 not(TMP\_499) = 0 TMP\_500 = 5 TMP\_501 = 0 not(TMP\_501) = 1 TMP\_502 = 0 not(TMP\_502) = 1 TMP\_503 = 0 TMP\_504 = 1 not(TMP\_504) = 0 TMP\_505 = 1 not(TMP\_505) = 0 TMP\_506 = 2 TMP\_507 = 0 not(TMP\_507) = 1 TMP\_508 = 0 not(TMP\_508) = 1 TMP\_509 = 1 not(TMP\_509) = 0 TMP\_510 = 1 not(TMP\_510) = 0 TMP\_511 = 1 not(TMP\_511) = 0 TMP\_512 = 2 TMP\_513 = 1 not(TMP\_513) = 0 TMP\_514 = 0 not(TMP\_514) = 1 TMP\_515 = 1 not(TMP\_515) = 0 TMP\_516 = 1 not(TMP\_516) = 0 TMP\_517 = 1 not(TMP\_517) = 0 TMP\_518 = 1 not(TMP\_518) = 0 TMP\_519 = 5 TMP\_520 = 0 not(TMP\_520) = 1 TMP\_521 = 0 not(TMP\_521) = 1 TMP\_522 = 0 TMP\_523 = 1 not(TMP\_523) = 0 TMP\_524 = 1 not(TMP\_524) = 0 TMP\_525 = 2 TMP\_526 = 0 not(TMP\_526) = 1 TMP\_527 = 0 not(TMP\_527) = 1 TMP\_528 = 1 not(TMP\_528) = 0 TMP\_529 = 1 not(TMP\_529) = 0 TMP\_530 = 1 not(TMP\_530) = 0 TMP\_531 = 2 Area\_0 = 60 Distance\_0\_Rule\_0 = 20 Distance\_1\_Rule\_0 = 3 Distance\_2\_Rule\_0 = 1 Area\_1 = 174 Distance\_0\_Rule\_1 = 58 Distance\_1\_Rule\_1 = 3 Distance\_2\_Rule\_1 = 1 Area\_2 = 116 Distance\_0\_Rule\_2 = 58 Distance\_1\_Rule\_2 = 2 Distance\_2\_Rule\_2 = 1 Area\_3 = 58 Distance\_0\_Rule\_3 = 58 Distance\_1\_Rule\_3 = 1 Distance\_2\_Rule\_3 = 1 Area\_4 = 123 -(Rule\_4\_LB) = -79 Distance\_0\_Rule\_4 = 41 -(Rule\_4\_LB) = 0 Distance\_1\_Rule\_4 = 3 -(Rule\_4\_LB) = 0 Distance\_2\_Rule\_4 = 1 Area\_5 = 63 -(Rule\_5\_LB) = 0 Distance\_0\_Rule\_5 = 21 -(Rule\_5\_LB) = 0 Distance\_1\_Rule\_5 = 3 -(Rule\_5\_LB) = 0 Distance\_2\_Rule\_5 = 1 Area\_6 = 123 -(Rule\_6\_LB) = -79 Distance\_0\_Rule\_6 = 41 -(Rule\_6\_LB) = 0 Distance\_1\_Rule\_6 = 3 -(Rule\_6\_LB) = -1 Distance\_2\_Rule\_6 = 1 Area\_7 = 3 -(Rule\_7\_LB) = -20 Distance\_0\_Rule\_7 = 1 -(Rule\_7\_LB) = 0 Distance\_1\_Rule\_7 = 3 -(Rule\_7\_LB) = -1 Distance\_2\_Rule\_7 = 1 TMP\_532 = 720 .

- Solution #19 found. 19 Solutions, Resolution 0.377s, 115 Nodes (305.1 n/s), 141 Backtracks, 58 Fails, 0 Restarts

Rule\_4\_LB = 79 Rule\_4\_UB = 120 Rule\_4\_LB = 0 Rule\_4\_UB = 3 Rule\_4\_LB = 0 Rule\_4\_UB = 1 Rule\_5\_LB = 0 Rule\_5\_UB = 21 Rule\_5\_LB = 0 Rule\_5\_UB = 3 Rule\_5\_LB = 0 Rule\_5\_UB = 1 Rule\_6\_LB = 79 Rule\_6\_UB = 120 Rule\_6\_LB = 0 Rule\_6\_UB = 3 Rule\_6\_LB = 1 Rule\_6\_UB = 2 Rule\_7\_LB = 20 Rule\_7\_UB = 21 Rule\_7\_LB = 0 Rule\_7\_UB = 3 Rule\_7\_LB = 1 Rule\_7\_UB = 2 Overlaps\_0\_0 = 0 Overlaps\_0\_1 = 0 Overlaps\_0\_2 = 1 Overlaps\_0\_3 = 1 Overlaps\_0\_4 = 0 Overlaps\_0\_5 = 0 Overlaps\_0\_6 = 0 Overlaps\_0\_7 = 0 Overlaps\_1\_0 = 0 Overlaps\_1\_1 = 0 Overlaps\_1\_2 = 0 Overlaps\_1\_3 = 0 Overlaps\_1\_4 = 0 Overlaps\_1\_5 = 0 Overlaps\_1\_6 = 0 Overlaps\_1\_7 = 0 Overlaps\_2\_0 = 0 Overlaps\_2\_1 = 0 Overlaps\_2\_2 = 0 Overlaps\_2\_3 = 0 Overlaps\_2\_4 = 0 Overlaps\_2\_5 = 0 Overlaps\_2\_6 = 0 Overlaps\_2\_7 = 0 Overlaps\_3\_0 = 0 Overlaps\_3\_1 = 0 Overlaps\_3\_2 = 0 Overlaps\_3\_3 = 0 Overlaps\_3\_4 = 0 Overlaps\_3\_5 = 0 Overlaps\_3\_6 = 0 Overlaps\_3\_7 = 0 Overlaps\_4\_0 = 0 Overlaps\_4\_1 = 0 Overlaps\_4\_2 = 0 Overlaps\_4\_3 = 0 Overlaps\_4\_4 = 0 Overlaps\_4\_5 = 0 Overlaps\_4\_6 = 0 Overlaps\_4\_7 = 0 Overlaps\_5\_0 = 0 Overlaps\_5\_1 = 0 Overlaps\_5\_2 = 0 Overlaps\_5\_3 = 0 Overlaps\_5\_4 = 0 Overlaps\_5\_5 = 0 Overlaps\_5\_6 = 0 Overlaps\_5\_7 = 0 Overlaps\_6\_0 = 0 Overlaps\_6\_1 = 0 Overlaps\_6\_2 = 0 Overlaps\_6\_3 = 0 Overlaps\_6\_4 = 0 Overlaps\_6\_5 = 0 Overlaps\_6\_6 = 0 Overlaps\_6\_7 = 0 Overlaps\_7\_0 = 0 Overlaps\_7\_1 = 0 Overlaps\_7\_2 = 0 Overlaps\_7\_3 = 0 Overlaps\_7\_4 = 0 Overlaps\_7\_5 = 0 Overlaps\_7\_6 = 0 Overlaps\_7\_7 = 0 TMP\_0 = 0 not(TMP\_0) = 1 TMP\_1 = 1 not(TMP\_1) = 0 TMP\_2 = 1 not(TMP\_2) = 0 TMP\_3 = 1 not(TMP\_3) = 0 TMP\_4 = 1 not(TMP\_4) = 0 TMP\_5 = 0 not(TMP\_5) = 1 TMP\_6 = 4 TMP\_7 = 0 not(TMP\_7) = 1 TMP\_8 = 0 not(TMP\_8) = 1 TMP\_9 = 0 TMP\_10 = 1 not(TMP\_10) = 0 TMP\_11 = 1 not(TMP\_11) = 0 TMP\_12 = 2 TMP\_13 = 0 not(TMP\_13) = 1 TMP\_14 = 0 not(TMP\_14) = 1 TMP\_15 = 1 not(TMP\_15) = 0 TMP\_16 = 1 not(TMP\_16) = 0 TMP\_17 = 1 not(TMP\_17) = 0 TMP\_18 = 2 TMP\_19 = 0 not(TMP\_19) = 1 TMP\_20 = 1 not(TMP\_20) = 0 TMP\_21 = 1 not(TMP\_21) = 0 TMP\_22 = 1 not(TMP\_22) = 0 TMP\_23 = 1 not(TMP\_23) = 0 TMP\_24 = 0 not(TMP\_24) = 1 TMP\_25 = 4 TMP\_26 = 0 not(TMP\_26) = 1 TMP\_27 = 0 not(TMP\_27) = 1 TMP\_28 = 0 TMP\_29 = 1 not(TMP\_29) = 0 TMP\_30 = 1 not(TMP\_30) = 0 TMP\_31 = 2 TMP\_32 = 0 not(TMP\_32) = 1 TMP\_33 = 0 not(TMP\_33) = 1 TMP\_34 = 1 not(TMP\_34) = 0 TMP\_35 = 1 not(TMP\_35) = 0 TMP\_36 = 1 not(TMP\_36) = 0 TMP\_37 = 2 TMP\_38 = 0 not(TMP\_38) = 1 TMP\_39 = 1 not(TMP\_39) = 0 TMP\_40 = 1 not(TMP\_40) = 0 TMP\_41 = 1 not(TMP\_41) = 0 TMP\_42 = 1 not(TMP\_42) = 0 TMP\_43 = 1 not(TMP\_43) = 0 TMP\_44 = 5 TMP\_45 = 0 not(TMP\_45) = 1 TMP\_46 = 0 not(TMP\_46) = 1 TMP\_47 = 0 TMP\_48 = 1 not(TMP\_48) = 0 TMP\_49 = 1 not(TMP\_49) = 0 TMP\_50 = 2 TMP\_51 = 0 not(TMP\_51) = 1 TMP\_52 = 0 not(TMP\_52) = 1 TMP\_53 = 1 not(TMP\_53) = 0 TMP\_54 = 1 not(TMP\_54) = 0 TMP\_55 = 1 not(TMP\_55) = 0 TMP\_56 = 2 TMP\_57 = 0 not(TMP\_57) = 1 TMP\_58 = 1 not(TMP\_58) = 0 TMP\_59 = 1 not(TMP\_59) = 0 TMP\_60 = 1 not(TMP\_60) = 0 TMP\_61 = 1 not(TMP\_61) = 0 TMP\_62 = 1 not(TMP\_62) = 0 TMP\_63 = 5 TMP\_64 = 0 not(TMP\_64) = 1 TMP\_65 = 0 not(TMP\_65) = 1 TMP\_66 = 0 TMP\_67 = 1 not(TMP\_67) = 0 TMP\_68 = 1 not(TMP\_68) = 0 TMP\_69 = 2 TMP\_70 = 0 not(TMP\_70) = 1 TMP\_71 = 0 not(TMP\_71) = 1 TMP\_72 = 1 not(TMP\_72) = 0 TMP\_73 = 1 not(TMP\_73) = 0 TMP\_74 = 1 not(TMP\_74) = 0 TMP\_75 = 2 TMP\_76 = 0 not(TMP\_76) = 1 TMP\_77 = 1 not(TMP\_77) = 0 TMP\_78 = 1 not(TMP\_78) = 0 TMP\_79 = 1 not(TMP\_79) = 0 TMP\_80 = 1 not(TMP\_80) = 0 TMP\_81 = 1 not(TMP\_81) = 0 TMP\_82 = 5 TMP\_83 = 0 not(TMP\_83) = 1 TMP\_84 = 0 not(TMP\_84) = 1 TMP\_85 = 0 TMP\_86 = 1 not(TMP\_86) = 0 TMP\_87 = 1 not(TMP\_87) = 0 TMP\_88 = 2 TMP\_89 = 0 not(TMP\_89) = 1 TMP\_90 = 0 not(TMP\_90) = 1 TMP\_91 = 1 not(TMP\_91) = 0 TMP\_92 = 1 not(TMP\_92) = 0 TMP\_93 = 1 not(TMP\_93) = 0 TMP\_94 = 2 TMP\_95 = 1 not(TMP\_95) = 0 TMP\_96 = 1 not(TMP\_96) = 0 TMP\_97 = 1 not(TMP\_97) = 0 TMP\_98 = 1 not(TMP\_98) = 0 TMP\_99 = 1 not(TMP\_99) = 0 TMP\_100 = 0 not(TMP\_100) = 1 TMP\_101 = 5 TMP\_102 = 0 not(TMP\_102) = 1 TMP\_103 = 0 not(TMP\_103) = 1 TMP\_104 = 0 TMP\_105 = 1 not(TMP\_105) = 0 TMP\_106 = 1 not(TMP\_106) = 0 TMP\_107 = 2 TMP\_108 = 0 not(TMP\_108) = 1 TMP\_109 = 0 not(TMP\_109) = 1 TMP\_110 = 1 not(TMP\_110) = 0 TMP\_111 = 1 not(TMP\_111) = 0 TMP\_112 = 1 not(TMP\_112) = 0 TMP\_113 = 2 TMP\_114 = 0 not(TMP\_114) = 1 TMP\_115 = 1 not(TMP\_115) = 0 TMP\_116 = 1 not(TMP\_116) = 0 TMP\_117 = 1 not(TMP\_117) = 0 TMP\_118 = 1 not(TMP\_118) = 0 TMP\_119 = 0 not(TMP\_119) = 1 TMP\_120 = 4 TMP\_121 = 0 not(TMP\_121) = 1 TMP\_122 = 0 not(TMP\_122) = 1 TMP\_123 = 0 TMP\_124 = 1 not(TMP\_124) = 0 TMP\_125 = 1 not(TMP\_125) = 0 TMP\_126 = 2 TMP\_127 = 0 not(TMP\_127) = 1 TMP\_128 = 0 not(TMP\_128) = 1 TMP\_129 = 1 not(TMP\_129) = 0 TMP\_130 = 1 not(TMP\_130) = 0 TMP\_131 = 1 not(TMP\_131) = 0 TMP\_132 = 2 TMP\_133 = 1 not(TMP\_133) = 0 TMP\_134 = 1 not(TMP\_134) = 0 TMP\_135 = 1 not(TMP\_135) = 0 TMP\_136 = 1 not(TMP\_136) = 0 TMP\_137 = 1 not(TMP\_137) = 0 TMP\_138 = 0 not(TMP\_138) = 1 TMP\_139 = 5 TMP\_140 = 0 not(TMP\_140) = 1 TMP\_141 = 0 not(TMP\_141) = 1 TMP\_142 = 0 TMP\_143 = 1 not(TMP\_143) = 0 TMP\_144 = 1 not(TMP\_144) = 0 TMP\_145 = 2 TMP\_146 = 0 not(TMP\_146) = 1 TMP\_147 = 0 not(TMP\_147) = 1 TMP\_148 = 1 not(TMP\_148) = 0 TMP\_149 = 1 not(TMP\_149) = 0 TMP\_150 = 1 not(TMP\_150) = 0 TMP\_151 = 2 TMP\_152 = 1 not(TMP\_152) = 0 TMP\_153 = 0 not(TMP\_153) = 1 TMP\_154 = 1 not(TMP\_154) = 0 TMP\_155 = 1 not(TMP\_155) = 0 TMP\_156 = 1 not(TMP\_156) = 0 TMP\_157 = 0 not(TMP\_157) = 1 TMP\_158 = 4 TMP\_159 = 0 not(TMP\_159) = 1 TMP\_160 = 0 not(TMP\_160) = 1 TMP\_161 = 0 TMP\_162 = 1 not(TMP\_162) = 0 TMP\_163 = 1 not(TMP\_163) = 0 TMP\_164 = 2 TMP\_165 = 0 not(TMP\_165) = 1 TMP\_166 = 0 not(TMP\_166) = 1 TMP\_167 = 1 not(TMP\_167) = 0 TMP\_168 = 1 not(TMP\_168) = 0 TMP\_169 = 1 not(TMP\_169) = 0 TMP\_170 = 2 TMP\_171 = 1 not(TMP\_171) = 0 TMP\_172 = 0 not(TMP\_172) = 1 TMP\_173 = 1 not(TMP\_173) = 0 TMP\_174 = 1 not(TMP\_174) = 0 TMP\_175 = 1 not(TMP\_175) = 0 TMP\_176 = 1 not(TMP\_176) = 0 TMP\_177 = 5 TMP\_178 = 0 not(TMP\_178) = 1 TMP\_179 = 0 not(TMP\_179) = 1 TMP\_180 = 0 TMP\_181 = 1 not(TMP\_181) = 0 TMP\_182 = 1 not(TMP\_182) = 0 TMP\_183 = 2 TMP\_184 = 0 not(TMP\_184) = 1 TMP\_185 = 0 not(TMP\_185) = 1 TMP\_186 = 1 not(TMP\_186) = 0 TMP\_187 = 1 not(TMP\_187) = 0 TMP\_188 = 1 not(TMP\_188) = 0 TMP\_189 = 2 TMP\_190 = 1 not(TMP\_190) = 0 TMP\_191 = 0 not(TMP\_191) = 1 TMP\_192 = 1 not(TMP\_192) = 0 TMP\_193 = 1 not(TMP\_193) = 0 TMP\_194 = 1 not(TMP\_194) = 0 TMP\_195 = 1 not(TMP\_195) = 0 TMP\_196 = 5 TMP\_197 = 0 not(TMP\_197) = 1 TMP\_198 = 0 not(TMP\_198) = 1 TMP\_199 = 0 TMP\_200 = 1 not(TMP\_200) = 0 TMP\_201 = 1 not(TMP\_201) = 0 TMP\_202 = 2 TMP\_203 = 0 not(TMP\_203) = 1 TMP\_204 = 0 not(TMP\_204) = 1 TMP\_205 = 1 not(TMP\_205) = 0 TMP\_206 = 1 not(TMP\_206) = 0 TMP\_207 = 1 not(TMP\_207) = 0 TMP\_208 = 2 TMP\_209 = 1 not(TMP\_209) = 0 TMP\_210 = 0 not(TMP\_210) = 1 TMP\_211 = 1 not(TMP\_211) = 0 TMP\_212 = 1 not(TMP\_212) = 0 TMP\_213 = 1 not(TMP\_213) = 0 TMP\_214 = 1 not(TMP\_214) = 0 TMP\_215 = 5 TMP\_216 = 0 not(TMP\_216) = 1 TMP\_217 = 0 not(TMP\_217) = 1 TMP\_218 = 0 TMP\_219 = 1 not(TMP\_219) = 0 TMP\_220 = 1 not(TMP\_220) = 0 TMP\_221 = 2 TMP\_222 = 0 not(TMP\_222) = 1 TMP\_223 = 0 not(TMP\_223) = 1 TMP\_224 = 1 not(TMP\_224) = 0 TMP\_225 = 1 not(TMP\_225) = 0 TMP\_226 = 1 not(TMP\_226) = 0 TMP\_227 = 2 TMP\_228 = 1 not(TMP\_228) = 0 TMP\_229 = 0 not(TMP\_229) = 1 TMP\_230 = 1 not(TMP\_230) = 0 TMP\_231 = 1 not(TMP\_231) = 0 TMP\_232 = 1 not(TMP\_232) = 0 TMP\_233 = 0 not(TMP\_233) = 1 TMP\_234 = 4 TMP\_235 = 0 not(TMP\_235) = 1 TMP\_236 = 0 not(TMP\_236) = 1 TMP\_237 = 0 TMP\_238 = 1 not(TMP\_238) = 0 TMP\_239 = 1 not(TMP\_239) = 0 TMP\_240 = 2 TMP\_241 = 0 not(TMP\_241) = 1 TMP\_242 = 0 not(TMP\_242) = 1 TMP\_243 = 1 not(TMP\_243) = 0 TMP\_244 = 1 not(TMP\_244) = 0 TMP\_245 = 1 not(TMP\_245) = 0 TMP\_246 = 2 TMP\_247 = 1 not(TMP\_247) = 0 TMP\_248 = 1 not(TMP\_248) = 0 TMP\_249 = 1 not(TMP\_249) = 0 TMP\_250 = 1 not(TMP\_250) = 0 TMP\_251 = 1 not(TMP\_251) = 0 TMP\_252 = 0 not(TMP\_252) = 1 TMP\_253 = 5 TMP\_254 = 0 not(TMP\_254) = 1 TMP\_255 = 0 not(TMP\_255) = 1 TMP\_256 = 0 TMP\_257 = 1 not(TMP\_257) = 0 TMP\_258 = 1 not(TMP\_258) = 0 TMP\_259 = 2 TMP\_260 = 0 not(TMP\_260) = 1 TMP\_261 = 0 not(TMP\_261) = 1 TMP\_262 = 1 not(TMP\_262) = 0 TMP\_263 = 1 not(TMP\_263) = 0 TMP\_264 = 1 not(TMP\_264) = 0 TMP\_265 = 2 TMP\_266 = 0 not(TMP\_266) = 1 TMP\_267 = 1 not(TMP\_267) = 0 TMP\_268 = 1 not(TMP\_268) = 0 TMP\_269 = 1 not(TMP\_269) = 0 TMP\_270 = 1 not(TMP\_270) = 0 TMP\_271 = 1 not(TMP\_271) = 0 TMP\_272 = 5 TMP\_273 = 0 not(TMP\_273) = 1 TMP\_274 = 0 not(TMP\_274) = 1 TMP\_275 = 0 TMP\_276 = 1 not(TMP\_276) = 0 TMP\_277 = 1 not(TMP\_277) = 0 TMP\_278 = 2 TMP\_279 = 0 not(TMP\_279) = 1 TMP\_280 = 0 not(TMP\_280) = 1 TMP\_281 = 1 not(TMP\_281) = 0 TMP\_282 = 1 not(TMP\_282) = 0 TMP\_283 = 1 not(TMP\_283) = 0 TMP\_284 = 2 TMP\_285 = 0 not(TMP\_285) = 1 TMP\_286 = 1 not(TMP\_286) = 0 TMP\_287 = 1 not(TMP\_287) = 0 TMP\_288 = 1 not(TMP\_288) = 0 TMP\_289 = 1 not(TMP\_289) = 0 TMP\_290 = 1 not(TMP\_290) = 0 TMP\_291 = 5 TMP\_292 = 0 not(TMP\_292) = 1 TMP\_293 = 0 not(TMP\_293) = 1 TMP\_294 = 0 TMP\_295 = 1 not(TMP\_295) = 0 TMP\_296 = 1 not(TMP\_296) = 0 TMP\_297 = 2 TMP\_298 = 0 not(TMP\_298) = 1 TMP\_299 = 0 not(TMP\_299) = 1 TMP\_300 = 1 not(TMP\_300) = 0 TMP\_301 = 1 not(TMP\_301) = 0 TMP\_302 = 1 not(TMP\_302) = 0 TMP\_303 = 2 TMP\_304 = 0 not(TMP\_304) = 1 TMP\_305 = 1 not(TMP\_305) = 0 TMP\_306 = 1 not(TMP\_306) = 0 TMP\_307 = 1 not(TMP\_307) = 0 TMP\_308 = 0 not(TMP\_308) = 1 TMP\_309 = 1 not(TMP\_309) = 0 TMP\_310 = 4 TMP\_311 = 0 not(TMP\_311) = 1 TMP\_312 = 0 not(TMP\_312) = 1 TMP\_313 = 0 TMP\_314 = 1 not(TMP\_314) = 0 TMP\_315 = 1 not(TMP\_315) = 0 TMP\_316 = 2 TMP\_317 = 0 not(TMP\_317) = 1 TMP\_318 = 0 not(TMP\_318) = 1 TMP\_319 = 1 not(TMP\_319) = 0 TMP\_320 = 1 not(TMP\_320) = 0 TMP\_321 = 1 not(TMP\_321) = 0 TMP\_322 = 2 TMP\_323 = 0 not(TMP\_323) = 1 TMP\_324 = 1 not(TMP\_324) = 0 TMP\_325 = 1 not(TMP\_325) = 0 TMP\_326 = 1 not(TMP\_326) = 0 TMP\_327 = 0 not(TMP\_327) = 1 TMP\_328 = 1 not(TMP\_328) = 0 TMP\_329 = 4 TMP\_330 = 0 not(TMP\_330) = 1 TMP\_331 = 0 not(TMP\_331) = 1 TMP\_332 = 0 TMP\_333 = 1 not(TMP\_333) = 0 TMP\_334 = 1 not(TMP\_334) = 0 TMP\_335 = 2 TMP\_336 = 0 not(TMP\_336) = 1 TMP\_337 = 0 not(TMP\_337) = 1 TMP\_338 = 1 not(TMP\_338) = 0 TMP\_339 = 1 not(TMP\_339) = 0 TMP\_340 = 1 not(TMP\_340) = 0 TMP\_341 = 2 TMP\_342 = 1 not(TMP\_342) = 0 TMP\_343 = 1 not(TMP\_343) = 0 TMP\_344 = 1 not(TMP\_344) = 0 TMP\_345 = 1 not(TMP\_345) = 0 TMP\_346 = 0 not(TMP\_346) = 1 TMP\_347 = 1 not(TMP\_347) = 0 TMP\_348 = 5 TMP\_349 = 0 not(TMP\_349) = 1 TMP\_350 = 0 not(TMP\_350) = 1 TMP\_351 = 0 TMP\_352 = 1 not(TMP\_352) = 0 TMP\_353 = 1 not(TMP\_353) = 0 TMP\_354 = 2 TMP\_355 = 0 not(TMP\_355) = 1 TMP\_356 = 0 not(TMP\_356) = 1 TMP\_357 = 1 not(TMP\_357) = 0 TMP\_358 = 1 not(TMP\_358) = 0 TMP\_359 = 1 not(TMP\_359) = 0 TMP\_360 = 2 TMP\_361 = 0 not(TMP\_361) = 1 TMP\_362 = 1 not(TMP\_362) = 0 TMP\_363 = 1 not(TMP\_363) = 0 TMP\_364 = 1 not(TMP\_364) = 0 TMP\_365 = 0 not(TMP\_365) = 1 TMP\_366 = 1 not(TMP\_366) = 0 TMP\_367 = 4 TMP\_368 = 0 not(TMP\_368) = 1 TMP\_369 = 0 not(TMP\_369) = 1 TMP\_370 = 0 TMP\_371 = 1 not(TMP\_371) = 0 TMP\_372 = 1 not(TMP\_372) = 0 TMP\_373 = 2 TMP\_374 = 0 not(TMP\_374) = 1 TMP\_375 = 0 not(TMP\_375) = 1 TMP\_376 = 1 not(TMP\_376) = 0 TMP\_377 = 1 not(TMP\_377) = 0 TMP\_378 = 1 not(TMP\_378) = 0 TMP\_379 = 2 TMP\_380 = 0 not(TMP\_380) = 1 TMP\_381 = 1 not(TMP\_381) = 0 TMP\_382 = 1 not(TMP\_382) = 0 TMP\_383 = 1 not(TMP\_383) = 0 TMP\_384 = 1 not(TMP\_384) = 0 TMP\_385 = 1 not(TMP\_385) = 0 TMP\_386 = 5 TMP\_387 = 0 not(TMP\_387) = 1 TMP\_388 = 0 not(TMP\_388) = 1 TMP\_389 = 0 TMP\_390 = 1 not(TMP\_390) = 0 TMP\_391 = 1 not(TMP\_391) = 0 TMP\_392 = 2 TMP\_393 = 0 not(TMP\_393) = 1 TMP\_394 = 0 not(TMP\_394) = 1 TMP\_395 = 1 not(TMP\_395) = 0 TMP\_396 = 1 not(TMP\_396) = 0 TMP\_397 = 1 not(TMP\_397) = 0 TMP\_398 = 2 TMP\_399 = 0 not(TMP\_399) = 1 TMP\_400 = 1 not(TMP\_400) = 0 TMP\_401 = 1 not(TMP\_401) = 0 TMP\_402 = 1 not(TMP\_402) = 0 TMP\_403 = 1 not(TMP\_403) = 0 TMP\_404 = 1 not(TMP\_404) = 0 TMP\_405 = 5 TMP\_406 = 0 not(TMP\_406) = 1 TMP\_407 = 0 not(TMP\_407) = 1 TMP\_408 = 0 TMP\_409 = 1 not(TMP\_409) = 0 TMP\_410 = 1 not(TMP\_410) = 0 TMP\_411 = 2 TMP\_412 = 0 not(TMP\_412) = 1 TMP\_413 = 0 not(TMP\_413) = 1 TMP\_414 = 1 not(TMP\_414) = 0 TMP\_415 = 1 not(TMP\_415) = 0 TMP\_416 = 1 not(TMP\_416) = 0 TMP\_417 = 2 TMP\_418 = 1 not(TMP\_418) = 0 TMP\_419 = 0 not(TMP\_419) = 1 TMP\_420 = 1 not(TMP\_420) = 0 TMP\_421 = 1 not(TMP\_421) = 0 TMP\_422 = 1 not(TMP\_422) = 0 TMP\_423 = 1 not(TMP\_423) = 0 TMP\_424 = 5 TMP\_425 = 0 not(TMP\_425) = 1 TMP\_426 = 0 not(TMP\_426) = 1 TMP\_427 = 0 TMP\_428 = 1 not(TMP\_428) = 0 TMP\_429 = 1 not(TMP\_429) = 0 TMP\_430 = 2 TMP\_431 = 0 not(TMP\_431) = 1 TMP\_432 = 0 not(TMP\_432) = 1 TMP\_433 = 1 not(TMP\_433) = 0 TMP\_434 = 1 not(TMP\_434) = 0 TMP\_435 = 1 not(TMP\_435) = 0 TMP\_436 = 2 TMP\_437 = 1 not(TMP\_437) = 0 TMP\_438 = 0 not(TMP\_438) = 1 TMP\_439 = 1 not(TMP\_439) = 0 TMP\_440 = 1 not(TMP\_440) = 0 TMP\_441 = 0 not(TMP\_441) = 1 TMP\_442 = 1 not(TMP\_442) = 0 TMP\_443 = 4 TMP\_444 = 0 not(TMP\_444) = 1 TMP\_445 = 0 not(TMP\_445) = 1 TMP\_446 = 0 TMP\_447 = 1 not(TMP\_447) = 0 TMP\_448 = 1 not(TMP\_448) = 0 TMP\_449 = 2 TMP\_450 = 0 not(TMP\_450) = 1 TMP\_451 = 0 not(TMP\_451) = 1 TMP\_452 = 1 not(TMP\_452) = 0 TMP\_453 = 1 not(TMP\_453) = 0 TMP\_454 = 1 not(TMP\_454) = 0 TMP\_455 = 2 TMP\_456 = 1 not(TMP\_456) = 0 TMP\_457 = 0 not(TMP\_457) = 1 TMP\_458 = 1 not(TMP\_458) = 0 TMP\_459 = 1 not(TMP\_459) = 0 TMP\_460 = 0 not(TMP\_460) = 1 TMP\_461 = 1 not(TMP\_461) = 0 TMP\_462 = 4 TMP\_463 = 0 not(TMP\_463) = 1 TMP\_464 = 0 not(TMP\_464) = 1 TMP\_465 = 0 TMP\_466 = 1 not(TMP\_466) = 0 TMP\_467 = 1 not(TMP\_467) = 0 TMP\_468 = 2 TMP\_469 = 0 not(TMP\_469) = 1 TMP\_470 = 0 not(TMP\_470) = 1 TMP\_471 = 1 not(TMP\_471) = 0 TMP\_472 = 1 not(TMP\_472) = 0 TMP\_473 = 1 not(TMP\_473) = 0 TMP\_474 = 2 TMP\_475 = 1 not(TMP\_475) = 0 TMP\_476 = 0 not(TMP\_476) = 1 TMP\_477 = 1 not(TMP\_477) = 0 TMP\_478 = 1 not(TMP\_478) = 0 TMP\_479 = 0 not(TMP\_479) = 1 TMP\_480 = 1 not(TMP\_480) = 0 TMP\_481 = 4 TMP\_482 = 0 not(TMP\_482) = 1 TMP\_483 = 0 not(TMP\_483) = 1 TMP\_484 = 0 TMP\_485 = 1 not(TMP\_485) = 0 TMP\_486 = 1 not(TMP\_486) = 0 TMP\_487 = 2 TMP\_488 = 0 not(TMP\_488) = 1 TMP\_489 = 0 not(TMP\_489) = 1 TMP\_490 = 1 not(TMP\_490) = 0 TMP\_491 = 1 not(TMP\_491) = 0 TMP\_492 = 1 not(TMP\_492) = 0 TMP\_493 = 2 TMP\_494 = 1 not(TMP\_494) = 0 TMP\_495 = 1 not(TMP\_495) = 0 TMP\_496 = 1 not(TMP\_496) = 0 TMP\_497 = 1 not(TMP\_497) = 0 TMP\_498 = 0 not(TMP\_498) = 1 TMP\_499 = 1 not(TMP\_499) = 0 TMP\_500 = 5 TMP\_501 = 0 not(TMP\_501) = 1 TMP\_502 = 0 not(TMP\_502) = 1 TMP\_503 = 0 TMP\_504 = 1 not(TMP\_504) = 0 TMP\_505 = 1 not(TMP\_505) = 0 TMP\_506 = 2 TMP\_507 = 0 not(TMP\_507) = 1 TMP\_508 = 0 not(TMP\_508) = 1 TMP\_509 = 1 not(TMP\_509) = 0 TMP\_510 = 1 not(TMP\_510) = 0 TMP\_511 = 1 not(TMP\_511) = 0 TMP\_512 = 2 TMP\_513 = 1 not(TMP\_513) = 0 TMP\_514 = 0 not(TMP\_514) = 1 TMP\_515 = 1 not(TMP\_515) = 0 TMP\_516 = 1 not(TMP\_516) = 0 TMP\_517 = 1 not(TMP\_517) = 0 TMP\_518 = 1 not(TMP\_518) = 0 TMP\_519 = 5 TMP\_520 = 0 not(TMP\_520) = 1 TMP\_521 = 0 not(TMP\_521) = 1 TMP\_522 = 0 TMP\_523 = 1 not(TMP\_523) = 0 TMP\_524 = 1 not(TMP\_524) = 0 TMP\_525 = 2 TMP\_526 = 0 not(TMP\_526) = 1 TMP\_527 = 0 not(TMP\_527) = 1 TMP\_528 = 1 not(TMP\_528) = 0 TMP\_529 = 1 not(TMP\_529) = 0 TMP\_530 = 1 not(TMP\_530) = 0 TMP\_531 = 2 Area\_0 = 60 Distance\_0\_Rule\_0 = 20 Distance\_1\_Rule\_0 = 3 Distance\_2\_Rule\_0 = 1 Area\_1 = 174 Distance\_0\_Rule\_1 = 58 Distance\_1\_Rule\_1 = 3 Distance\_2\_Rule\_1 = 1 Area\_2 = 116 Distance\_0\_Rule\_2 = 58 Distance\_1\_Rule\_2 = 2 Distance\_2\_Rule\_2 = 1 Area\_3 = 58 Distance\_0\_Rule\_3 = 58 Distance\_1\_Rule\_3 = 1 Distance\_2\_Rule\_3 = 1 Area\_4 = 123 -(Rule\_4\_LB) = -79 Distance\_0\_Rule\_4 = 41 -(Rule\_4\_LB) = 0 Distance\_1\_Rule\_4 = 3 -(Rule\_4\_LB) = 0 Distance\_2\_Rule\_4 = 1 Area\_5 = 63 -(Rule\_5\_LB) = 0 Distance\_0\_Rule\_5 = 21 -(Rule\_5\_LB) = 0 Distance\_1\_Rule\_5 = 3 -(Rule\_5\_LB) = 0 Distance\_2\_Rule\_5 = 1 Area\_6 = 123 -(Rule\_6\_LB) = -79 Distance\_0\_Rule\_6 = 41 -(Rule\_6\_LB) = 0 Distance\_1\_Rule\_6 = 3 -(Rule\_6\_LB) = -1 Distance\_2\_Rule\_6 = 1 Area\_7 = 3 -(Rule\_7\_LB) = -20 Distance\_0\_Rule\_7 = 1 -(Rule\_7\_LB) = 0 Distance\_1\_Rule\_7 = 3 -(Rule\_7\_LB) = -1 Distance\_2\_Rule\_7 = 1 TMP\_532 = 720 .

- Solution #20 found. 20 Solutions, Resolution 0.380s, 116 Nodes (305.0 n/s), 142 Backtracks, 58 Fails, 0 Restarts

Rule\_4\_LB = 79 Rule\_4\_UB = 120 Rule\_4\_LB = 0 Rule\_4\_UB = 3 Rule\_4\_LB = 0 Rule\_4\_UB = 1 Rule\_5\_LB = 0 Rule\_5\_UB = 21 Rule\_5\_LB = 0 Rule\_5\_UB = 3 Rule\_5\_LB = 0 Rule\_5\_UB = 1 Rule\_6\_LB = 79 Rule\_6\_UB = 120 Rule\_6\_LB = 0 Rule\_6\_UB = 3 Rule\_6\_LB = 1 Rule\_6\_UB = 2 Rule\_7\_LB = 20 Rule\_7\_UB = 21 Rule\_7\_LB = 0 Rule\_7\_UB = 3 Rule\_7\_LB = 1 Rule\_7\_UB = 2 Overlaps\_0\_0 = 0 Overlaps\_0\_1 = 1 Overlaps\_0\_2 = 1 Overlaps\_0\_3 = 1 Overlaps\_0\_4 = 0 Overlaps\_0\_5 = 0 Overlaps\_0\_6 = 0 Overlaps\_0\_7 = 0 Overlaps\_1\_0 = 0 Overlaps\_1\_1 = 0 Overlaps\_1\_2 = 0 Overlaps\_1\_3 = 0 Overlaps\_1\_4 = 0 Overlaps\_1\_5 = 0 Overlaps\_1\_6 = 0 Overlaps\_1\_7 = 0 Overlaps\_2\_0 = 0 Overlaps\_2\_1 = 0 Overlaps\_2\_2 = 0 Overlaps\_2\_3 = 0 Overlaps\_2\_4 = 0 Overlaps\_2\_5 = 0 Overlaps\_2\_6 = 0 Overlaps\_2\_7 = 0 Overlaps\_3\_0 = 0 Overlaps\_3\_1 = 0 Overlaps\_3\_2 = 0 Overlaps\_3\_3 = 0 Overlaps\_3\_4 = 0 Overlaps\_3\_5 = 0 Overlaps\_3\_6 = 0 Overlaps\_3\_7 = 0 Overlaps\_4\_0 = 0 Overlaps\_4\_1 = 0 Overlaps\_4\_2 = 0 Overlaps\_4\_3 = 0 Overlaps\_4\_4 = 0 Overlaps\_4\_5 = 0 Overlaps\_4\_6 = 0 Overlaps\_4\_7 = 0 Overlaps\_5\_0 = 0 Overlaps\_5\_1 = 0 Overlaps\_5\_2 = 0 Overlaps\_5\_3 = 0 Overlaps\_5\_4 = 0 Overlaps\_5\_5 = 0 Overlaps\_5\_6 = 0 Overlaps\_5\_7 = 0 Overlaps\_6\_0 = 0 Overlaps\_6\_1 = 0 Overlaps\_6\_2 = 0 Overlaps\_6\_3 = 0 Overlaps\_6\_4 = 0 Overlaps\_6\_5 = 0 Overlaps\_6\_6 = 0 Overlaps\_6\_7 = 0 Overlaps\_7\_0 = 0 Overlaps\_7\_1 = 0 Overlaps\_7\_2 = 0 Overlaps\_7\_3 = 0 Overlaps\_7\_4 = 0 Overlaps\_7\_5 = 0 Overlaps\_7\_6 = 0 Overlaps\_7\_7 = 0 TMP\_0 = 0 not(TMP\_0) = 1 TMP\_1 = 1 not(TMP\_1) = 0 TMP\_2 = 1 not(TMP\_2) = 0 TMP\_3 = 1 not(TMP\_3) = 0 TMP\_4 = 1 not(TMP\_4) = 0 TMP\_5 = 0 not(TMP\_5) = 1 TMP\_6 = 4 TMP\_7 = 0 not(TMP\_7) = 1 TMP\_8 = 0 not(TMP\_8) = 1 TMP\_9 = 0 TMP\_10 = 1 not(TMP\_10) = 0 TMP\_11 = 1 not(TMP\_11) = 0 TMP\_12 = 2 TMP\_13 = 0 not(TMP\_13) = 1 TMP\_14 = 0 not(TMP\_14) = 1 TMP\_15 = 1 not(TMP\_15) = 0 TMP\_16 = 1 not(TMP\_16) = 0 TMP\_17 = 1 not(TMP\_17) = 0 TMP\_18 = 2 TMP\_19 = 0 not(TMP\_19) = 1 TMP\_20 = 1 not(TMP\_20) = 0 TMP\_21 = 1 not(TMP\_21) = 0 TMP\_22 = 1 not(TMP\_22) = 0 TMP\_23 = 1 not(TMP\_23) = 0 TMP\_24 = 0 not(TMP\_24) = 1 TMP\_25 = 4 TMP\_26 = 0 not(TMP\_26) = 1 TMP\_27 = 0 not(TMP\_27) = 1 TMP\_28 = 0 TMP\_29 = 1 not(TMP\_29) = 0 TMP\_30 = 1 not(TMP\_30) = 0 TMP\_31 = 2 TMP\_32 = 0 not(TMP\_32) = 1 TMP\_33 = 0 not(TMP\_33) = 1 TMP\_34 = 1 not(TMP\_34) = 0 TMP\_35 = 1 not(TMP\_35) = 0 TMP\_36 = 1 not(TMP\_36) = 0 TMP\_37 = 2 TMP\_38 = 0 not(TMP\_38) = 1 TMP\_39 = 1 not(TMP\_39) = 0 TMP\_40 = 1 not(TMP\_40) = 0 TMP\_41 = 1 not(TMP\_41) = 0 TMP\_42 = 1 not(TMP\_42) = 0 TMP\_43 = 1 not(TMP\_43) = 0 TMP\_44 = 5 TMP\_45 = 0 not(TMP\_45) = 1 TMP\_46 = 0 not(TMP\_46) = 1 TMP\_47 = 0 TMP\_48 = 1 not(TMP\_48) = 0 TMP\_49 = 1 not(TMP\_49) = 0 TMP\_50 = 2 TMP\_51 = 0 not(TMP\_51) = 1 TMP\_52 = 0 not(TMP\_52) = 1 TMP\_53 = 1 not(TMP\_53) = 0 TMP\_54 = 1 not(TMP\_54) = 0 TMP\_55 = 1 not(TMP\_55) = 0 TMP\_56 = 2 TMP\_57 = 0 not(TMP\_57) = 1 TMP\_58 = 1 not(TMP\_58) = 0 TMP\_59 = 1 not(TMP\_59) = 0 TMP\_60 = 1 not(TMP\_60) = 0 TMP\_61 = 1 not(TMP\_61) = 0 TMP\_62 = 1 not(TMP\_62) = 0 TMP\_63 = 5 TMP\_64 = 0 not(TMP\_64) = 1 TMP\_65 = 0 not(TMP\_65) = 1 TMP\_66 = 0 TMP\_67 = 1 not(TMP\_67) = 0 TMP\_68 = 1 not(TMP\_68) = 0 TMP\_69 = 2 TMP\_70 = 0 not(TMP\_70) = 1 TMP\_71 = 0 not(TMP\_71) = 1 TMP\_72 = 1 not(TMP\_72) = 0 TMP\_73 = 1 not(TMP\_73) = 0 TMP\_74 = 1 not(TMP\_74) = 0 TMP\_75 = 2 TMP\_76 = 0 not(TMP\_76) = 1 TMP\_77 = 1 not(TMP\_77) = 0 TMP\_78 = 1 not(TMP\_78) = 0 TMP\_79 = 1 not(TMP\_79) = 0 TMP\_80 = 1 not(TMP\_80) = 0 TMP\_81 = 1 not(TMP\_81) = 0 TMP\_82 = 5 TMP\_83 = 0 not(TMP\_83) = 1 TMP\_84 = 0 not(TMP\_84) = 1 TMP\_85 = 0 TMP\_86 = 1 not(TMP\_86) = 0 TMP\_87 = 1 not(TMP\_87) = 0 TMP\_88 = 2 TMP\_89 = 0 not(TMP\_89) = 1 TMP\_90 = 0 not(TMP\_90) = 1 TMP\_91 = 1 not(TMP\_91) = 0 TMP\_92 = 1 not(TMP\_92) = 0 TMP\_93 = 1 not(TMP\_93) = 0 TMP\_94 = 2 TMP\_95 = 1 not(TMP\_95) = 0 TMP\_96 = 1 not(TMP\_96) = 0 TMP\_97 = 1 not(TMP\_97) = 0 TMP\_98 = 1 not(TMP\_98) = 0 TMP\_99 = 1 not(TMP\_99) = 0 TMP\_100 = 0 not(TMP\_100) = 1 TMP\_101 = 5 TMP\_102 = 0 not(TMP\_102) = 1 TMP\_103 = 0 not(TMP\_103) = 1 TMP\_104 = 0 TMP\_105 = 1 not(TMP\_105) = 0 TMP\_106 = 1 not(TMP\_106) = 0 TMP\_107 = 2 TMP\_108 = 0 not(TMP\_108) = 1 TMP\_109 = 0 not(TMP\_109) = 1 TMP\_110 = 1 not(TMP\_110) = 0 TMP\_111 = 1 not(TMP\_111) = 0 TMP\_112 = 1 not(TMP\_112) = 0 TMP\_113 = 2 TMP\_114 = 0 not(TMP\_114) = 1 TMP\_115 = 1 not(TMP\_115) = 0 TMP\_116 = 1 not(TMP\_116) = 0 TMP\_117 = 1 not(TMP\_117) = 0 TMP\_118 = 1 not(TMP\_118) = 0 TMP\_119 = 0 not(TMP\_119) = 1 TMP\_120 = 4 TMP\_121 = 0 not(TMP\_121) = 1 TMP\_122 = 0 not(TMP\_122) = 1 TMP\_123 = 0 TMP\_124 = 1 not(TMP\_124) = 0 TMP\_125 = 1 not(TMP\_125) = 0 TMP\_126 = 2 TMP\_127 = 0 not(TMP\_127) = 1 TMP\_128 = 0 not(TMP\_128) = 1 TMP\_129 = 1 not(TMP\_129) = 0 TMP\_130 = 1 not(TMP\_130) = 0 TMP\_131 = 1 not(TMP\_131) = 0 TMP\_132 = 2 TMP\_133 = 1 not(TMP\_133) = 0 TMP\_134 = 1 not(TMP\_134) = 0 TMP\_135 = 1 not(TMP\_135) = 0 TMP\_136 = 1 not(TMP\_136) = 0 TMP\_137 = 1 not(TMP\_137) = 0 TMP\_138 = 0 not(TMP\_138) = 1 TMP\_139 = 5 TMP\_140 = 0 not(TMP\_140) = 1 TMP\_141 = 0 not(TMP\_141) = 1 TMP\_142 = 0 TMP\_143 = 1 not(TMP\_143) = 0 TMP\_144 = 1 not(TMP\_144) = 0 TMP\_145 = 2 TMP\_146 = 0 not(TMP\_146) = 1 TMP\_147 = 0 not(TMP\_147) = 1 TMP\_148 = 1 not(TMP\_148) = 0 TMP\_149 = 1 not(TMP\_149) = 0 TMP\_150 = 1 not(TMP\_150) = 0 TMP\_151 = 2 TMP\_152 = 1 not(TMP\_152) = 0 TMP\_153 = 0 not(TMP\_153) = 1 TMP\_154 = 1 not(TMP\_154) = 0 TMP\_155 = 1 not(TMP\_155) = 0 TMP\_156 = 1 not(TMP\_156) = 0 TMP\_157 = 0 not(TMP\_157) = 1 TMP\_158 = 4 TMP\_159 = 0 not(TMP\_159) = 1 TMP\_160 = 0 not(TMP\_160) = 1 TMP\_161 = 0 TMP\_162 = 1 not(TMP\_162) = 0 TMP\_163 = 1 not(TMP\_163) = 0 TMP\_164 = 2 TMP\_165 = 0 not(TMP\_165) = 1 TMP\_166 = 0 not(TMP\_166) = 1 TMP\_167 = 1 not(TMP\_167) = 0 TMP\_168 = 1 not(TMP\_168) = 0 TMP\_169 = 1 not(TMP\_169) = 0 TMP\_170 = 2 TMP\_171 = 1 not(TMP\_171) = 0 TMP\_172 = 0 not(TMP\_172) = 1 TMP\_173 = 1 not(TMP\_173) = 0 TMP\_174 = 1 not(TMP\_174) = 0 TMP\_175 = 1 not(TMP\_175) = 0 TMP\_176 = 1 not(TMP\_176) = 0 TMP\_177 = 5 TMP\_178 = 0 not(TMP\_178) = 1 TMP\_179 = 0 not(TMP\_179) = 1 TMP\_180 = 0 TMP\_181 = 1 not(TMP\_181) = 0 TMP\_182 = 1 not(TMP\_182) = 0 TMP\_183 = 2 TMP\_184 = 0 not(TMP\_184) = 1 TMP\_185 = 0 not(TMP\_185) = 1 TMP\_186 = 1 not(TMP\_186) = 0 TMP\_187 = 1 not(TMP\_187) = 0 TMP\_188 = 1 not(TMP\_188) = 0 TMP\_189 = 2 TMP\_190 = 1 not(TMP\_190) = 0 TMP\_191 = 0 not(TMP\_191) = 1 TMP\_192 = 1 not(TMP\_192) = 0 TMP\_193 = 1 not(TMP\_193) = 0 TMP\_194 = 1 not(TMP\_194) = 0 TMP\_195 = 1 not(TMP\_195) = 0 TMP\_196 = 5 TMP\_197 = 0 not(TMP\_197) = 1 TMP\_198 = 0 not(TMP\_198) = 1 TMP\_199 = 0 TMP\_200 = 1 not(TMP\_200) = 0 TMP\_201 = 1 not(TMP\_201) = 0 TMP\_202 = 2 TMP\_203 = 0 not(TMP\_203) = 1 TMP\_204 = 0 not(TMP\_204) = 1 TMP\_205 = 1 not(TMP\_205) = 0 TMP\_206 = 1 not(TMP\_206) = 0 TMP\_207 = 1 not(TMP\_207) = 0 TMP\_208 = 2 TMP\_209 = 1 not(TMP\_209) = 0 TMP\_210 = 0 not(TMP\_210) = 1 TMP\_211 = 1 not(TMP\_211) = 0 TMP\_212 = 1 not(TMP\_212) = 0 TMP\_213 = 1 not(TMP\_213) = 0 TMP\_214 = 1 not(TMP\_214) = 0 TMP\_215 = 5 TMP\_216 = 0 not(TMP\_216) = 1 TMP\_217 = 0 not(TMP\_217) = 1 TMP\_218 = 0 TMP\_219 = 1 not(TMP\_219) = 0 TMP\_220 = 1 not(TMP\_220) = 0 TMP\_221 = 2 TMP\_222 = 0 not(TMP\_222) = 1 TMP\_223 = 0 not(TMP\_223) = 1 TMP\_224 = 1 not(TMP\_224) = 0 TMP\_225 = 1 not(TMP\_225) = 0 TMP\_226 = 1 not(TMP\_226) = 0 TMP\_227 = 2 TMP\_228 = 1 not(TMP\_228) = 0 TMP\_229 = 0 not(TMP\_229) = 1 TMP\_230 = 1 not(TMP\_230) = 0 TMP\_231 = 1 not(TMP\_231) = 0 TMP\_232 = 1 not(TMP\_232) = 0 TMP\_233 = 0 not(TMP\_233) = 1 TMP\_234 = 4 TMP\_235 = 0 not(TMP\_235) = 1 TMP\_236 = 0 not(TMP\_236) = 1 TMP\_237 = 0 TMP\_238 = 1 not(TMP\_238) = 0 TMP\_239 = 1 not(TMP\_239) = 0 TMP\_240 = 2 TMP\_241 = 0 not(TMP\_241) = 1 TMP\_242 = 0 not(TMP\_242) = 1 TMP\_243 = 1 not(TMP\_243) = 0 TMP\_244 = 1 not(TMP\_244) = 0 TMP\_245 = 1 not(TMP\_245) = 0 TMP\_246 = 2 TMP\_247 = 1 not(TMP\_247) = 0 TMP\_248 = 1 not(TMP\_248) = 0 TMP\_249 = 1 not(TMP\_249) = 0 TMP\_250 = 1 not(TMP\_250) = 0 TMP\_251 = 1 not(TMP\_251) = 0 TMP\_252 = 0 not(TMP\_252) = 1 TMP\_253 = 5 TMP\_254 = 0 not(TMP\_254) = 1 TMP\_255 = 0 not(TMP\_255) = 1 TMP\_256 = 0 TMP\_257 = 1 not(TMP\_257) = 0 TMP\_258 = 1 not(TMP\_258) = 0 TMP\_259 = 2 TMP\_260 = 0 not(TMP\_260) = 1 TMP\_261 = 0 not(TMP\_261) = 1 TMP\_262 = 1 not(TMP\_262) = 0 TMP\_263 = 1 not(TMP\_263) = 0 TMP\_264 = 1 not(TMP\_264) = 0 TMP\_265 = 2 TMP\_266 = 0 not(TMP\_266) = 1 TMP\_267 = 1 not(TMP\_267) = 0 TMP\_268 = 1 not(TMP\_268) = 0 TMP\_269 = 1 not(TMP\_269) = 0 TMP\_270 = 1 not(TMP\_270) = 0 TMP\_271 = 1 not(TMP\_271) = 0 TMP\_272 = 5 TMP\_273 = 0 not(TMP\_273) = 1 TMP\_274 = 0 not(TMP\_274) = 1 TMP\_275 = 0 TMP\_276 = 1 not(TMP\_276) = 0 TMP\_277 = 1 not(TMP\_277) = 0 TMP\_278 = 2 TMP\_279 = 0 not(TMP\_279) = 1 TMP\_280 = 0 not(TMP\_280) = 1 TMP\_281 = 1 not(TMP\_281) = 0 TMP\_282 = 1 not(TMP\_282) = 0 TMP\_283 = 1 not(TMP\_283) = 0 TMP\_284 = 2 TMP\_285 = 0 not(TMP\_285) = 1 TMP\_286 = 1 not(TMP\_286) = 0 TMP\_287 = 1 not(TMP\_287) = 0 TMP\_288 = 1 not(TMP\_288) = 0 TMP\_289 = 1 not(TMP\_289) = 0 TMP\_290 = 1 not(TMP\_290) = 0 TMP\_291 = 5 TMP\_292 = 0 not(TMP\_292) = 1 TMP\_293 = 0 not(TMP\_293) = 1 TMP\_294 = 0 TMP\_295 = 1 not(TMP\_295) = 0 TMP\_296 = 1 not(TMP\_296) = 0 TMP\_297 = 2 TMP\_298 = 0 not(TMP\_298) = 1 TMP\_299 = 0 not(TMP\_299) = 1 TMP\_300 = 1 not(TMP\_300) = 0 TMP\_301 = 1 not(TMP\_301) = 0 TMP\_302 = 1 not(TMP\_302) = 0 TMP\_303 = 2 TMP\_304 = 0 not(TMP\_304) = 1 TMP\_305 = 1 not(TMP\_305) = 0 TMP\_306 = 1 not(TMP\_306) = 0 TMP\_307 = 1 not(TMP\_307) = 0 TMP\_308 = 0 not(TMP\_308) = 1 TMP\_309 = 1 not(TMP\_309) = 0 TMP\_310 = 4 TMP\_311 = 0 not(TMP\_311) = 1 TMP\_312 = 0 not(TMP\_312) = 1 TMP\_313 = 0 TMP\_314 = 1 not(TMP\_314) = 0 TMP\_315 = 1 not(TMP\_315) = 0 TMP\_316 = 2 TMP\_317 = 0 not(TMP\_317) = 1 TMP\_318 = 0 not(TMP\_318) = 1 TMP\_319 = 1 not(TMP\_319) = 0 TMP\_320 = 1 not(TMP\_320) = 0 TMP\_321 = 1 not(TMP\_321) = 0 TMP\_322 = 2 TMP\_323 = 0 not(TMP\_323) = 1 TMP\_324 = 1 not(TMP\_324) = 0 TMP\_325 = 1 not(TMP\_325) = 0 TMP\_326 = 1 not(TMP\_326) = 0 TMP\_327 = 0 not(TMP\_327) = 1 TMP\_328 = 1 not(TMP\_328) = 0 TMP\_329 = 4 TMP\_330 = 0 not(TMP\_330) = 1 TMP\_331 = 0 not(TMP\_331) = 1 TMP\_332 = 0 TMP\_333 = 1 not(TMP\_333) = 0 TMP\_334 = 1 not(TMP\_334) = 0 TMP\_335 = 2 TMP\_336 = 0 not(TMP\_336) = 1 TMP\_337 = 0 not(TMP\_337) = 1 TMP\_338 = 1 not(TMP\_338) = 0 TMP\_339 = 1 not(TMP\_339) = 0 TMP\_340 = 1 not(TMP\_340) = 0 TMP\_341 = 2 TMP\_342 = 1 not(TMP\_342) = 0 TMP\_343 = 1 not(TMP\_343) = 0 TMP\_344 = 1 not(TMP\_344) = 0 TMP\_345 = 1 not(TMP\_345) = 0 TMP\_346 = 0 not(TMP\_346) = 1 TMP\_347 = 1 not(TMP\_347) = 0 TMP\_348 = 5 TMP\_349 = 0 not(TMP\_349) = 1 TMP\_350 = 0 not(TMP\_350) = 1 TMP\_351 = 0 TMP\_352 = 1 not(TMP\_352) = 0 TMP\_353 = 1 not(TMP\_353) = 0 TMP\_354 = 2 TMP\_355 = 0 not(TMP\_355) = 1 TMP\_356 = 0 not(TMP\_356) = 1 TMP\_357 = 1 not(TMP\_357) = 0 TMP\_358 = 1 not(TMP\_358) = 0 TMP\_359 = 1 not(TMP\_359) = 0 TMP\_360 = 2 TMP\_361 = 0 not(TMP\_361) = 1 TMP\_362 = 1 not(TMP\_362) = 0 TMP\_363 = 1 not(TMP\_363) = 0 TMP\_364 = 1 not(TMP\_364) = 0 TMP\_365 = 0 not(TMP\_365) = 1 TMP\_366 = 1 not(TMP\_366) = 0 TMP\_367 = 4 TMP\_368 = 0 not(TMP\_368) = 1 TMP\_369 = 0 not(TMP\_369) = 1 TMP\_370 = 0 TMP\_371 = 1 not(TMP\_371) = 0 TMP\_372 = 1 not(TMP\_372) = 0 TMP\_373 = 2 TMP\_374 = 0 not(TMP\_374) = 1 TMP\_375 = 0 not(TMP\_375) = 1 TMP\_376 = 1 not(TMP\_376) = 0 TMP\_377 = 1 not(TMP\_377) = 0 TMP\_378 = 1 not(TMP\_378) = 0 TMP\_379 = 2 TMP\_380 = 0 not(TMP\_380) = 1 TMP\_381 = 1 not(TMP\_381) = 0 TMP\_382 = 1 not(TMP\_382) = 0 TMP\_383 = 1 not(TMP\_383) = 0 TMP\_384 = 1 not(TMP\_384) = 0 TMP\_385 = 1 not(TMP\_385) = 0 TMP\_386 = 5 TMP\_387 = 0 not(TMP\_387) = 1 TMP\_388 = 0 not(TMP\_388) = 1 TMP\_389 = 0 TMP\_390 = 1 not(TMP\_390) = 0 TMP\_391 = 1 not(TMP\_391) = 0 TMP\_392 = 2 TMP\_393 = 0 not(TMP\_393) = 1 TMP\_394 = 0 not(TMP\_394) = 1 TMP\_395 = 1 not(TMP\_395) = 0 TMP\_396 = 1 not(TMP\_396) = 0 TMP\_397 = 1 not(TMP\_397) = 0 TMP\_398 = 2 TMP\_399 = 0 not(TMP\_399) = 1 TMP\_400 = 1 not(TMP\_400) = 0 TMP\_401 = 1 not(TMP\_401) = 0 TMP\_402 = 1 not(TMP\_402) = 0 TMP\_403 = 1 not(TMP\_403) = 0 TMP\_404 = 1 not(TMP\_404) = 0 TMP\_405 = 5 TMP\_406 = 0 not(TMP\_406) = 1 TMP\_407 = 0 not(TMP\_407) = 1 TMP\_408 = 0 TMP\_409 = 1 not(TMP\_409) = 0 TMP\_410 = 1 not(TMP\_410) = 0 TMP\_411 = 2 TMP\_412 = 0 not(TMP\_412) = 1 TMP\_413 = 0 not(TMP\_413) = 1 TMP\_414 = 1 not(TMP\_414) = 0 TMP\_415 = 1 not(TMP\_415) = 0 TMP\_416 = 1 not(TMP\_416) = 0 TMP\_417 = 2 TMP\_418 = 1 not(TMP\_418) = 0 TMP\_419 = 0 not(TMP\_419) = 1 TMP\_420 = 1 not(TMP\_420) = 0 TMP\_421 = 1 not(TMP\_421) = 0 TMP\_422 = 1 not(TMP\_422) = 0 TMP\_423 = 1 not(TMP\_423) = 0 TMP\_424 = 5 TMP\_425 = 0 not(TMP\_425) = 1 TMP\_426 = 0 not(TMP\_426) = 1 TMP\_427 = 0 TMP\_428 = 1 not(TMP\_428) = 0 TMP\_429 = 1 not(TMP\_429) = 0 TMP\_430 = 2 TMP\_431 = 0 not(TMP\_431) = 1 TMP\_432 = 0 not(TMP\_432) = 1 TMP\_433 = 1 not(TMP\_433) = 0 TMP\_434 = 1 not(TMP\_434) = 0 TMP\_435 = 1 not(TMP\_435) = 0 TMP\_436 = 2 TMP\_437 = 1 not(TMP\_437) = 0 TMP\_438 = 0 not(TMP\_438) = 1 TMP\_439 = 1 not(TMP\_439) = 0 TMP\_440 = 1 not(TMP\_440) = 0 TMP\_441 = 0 not(TMP\_441) = 1 TMP\_442 = 1 not(TMP\_442) = 0 TMP\_443 = 4 TMP\_444 = 0 not(TMP\_444) = 1 TMP\_445 = 0 not(TMP\_445) = 1 TMP\_446 = 0 TMP\_447 = 1 not(TMP\_447) = 0 TMP\_448 = 1 not(TMP\_448) = 0 TMP\_449 = 2 TMP\_450 = 0 not(TMP\_450) = 1 TMP\_451 = 0 not(TMP\_451) = 1 TMP\_452 = 1 not(TMP\_452) = 0 TMP\_453 = 1 not(TMP\_453) = 0 TMP\_454 = 1 not(TMP\_454) = 0 TMP\_455 = 2 TMP\_456 = 1 not(TMP\_456) = 0 TMP\_457 = 0 not(TMP\_457) = 1 TMP\_458 = 1 not(TMP\_458) = 0 TMP\_459 = 1 not(TMP\_459) = 0 TMP\_460 = 0 not(TMP\_460) = 1 TMP\_461 = 1 not(TMP\_461) = 0 TMP\_462 = 4 TMP\_463 = 0 not(TMP\_463) = 1 TMP\_464 = 0 not(TMP\_464) = 1 TMP\_465 = 0 TMP\_466 = 1 not(TMP\_466) = 0 TMP\_467 = 1 not(TMP\_467) = 0 TMP\_468 = 2 TMP\_469 = 0 not(TMP\_469) = 1 TMP\_470 = 0 not(TMP\_470) = 1 TMP\_471 = 1 not(TMP\_471) = 0 TMP\_472 = 1 not(TMP\_472) = 0 TMP\_473 = 1 not(TMP\_473) = 0 TMP\_474 = 2 TMP\_475 = 1 not(TMP\_475) = 0 TMP\_476 = 0 not(TMP\_476) = 1 TMP\_477 = 1 not(TMP\_477) = 0 TMP\_478 = 1 not(TMP\_478) = 0 TMP\_479 = 0 not(TMP\_479) = 1 TMP\_480 = 1 not(TMP\_480) = 0 TMP\_481 = 4 TMP\_482 = 0 not(TMP\_482) = 1 TMP\_483 = 0 not(TMP\_483) = 1 TMP\_484 = 0 TMP\_485 = 1 not(TMP\_485) = 0 TMP\_486 = 1 not(TMP\_486) = 0 TMP\_487 = 2 TMP\_488 = 0 not(TMP\_488) = 1 TMP\_489 = 0 not(TMP\_489) = 1 TMP\_490 = 1 not(TMP\_490) = 0 TMP\_491 = 1 not(TMP\_491) = 0 TMP\_492 = 1 not(TMP\_492) = 0 TMP\_493 = 2 TMP\_494 = 1 not(TMP\_494) = 0 TMP\_495 = 1 not(TMP\_495) = 0 TMP\_496 = 1 not(TMP\_496) = 0 TMP\_497 = 1 not(TMP\_497) = 0 TMP\_498 = 0 not(TMP\_498) = 1 TMP\_499 = 1 not(TMP\_499) = 0 TMP\_500 = 5 TMP\_501 = 0 not(TMP\_501) = 1 TMP\_502 = 0 not(TMP\_502) = 1 TMP\_503 = 0 TMP\_504 = 1 not(TMP\_504) = 0 TMP\_505 = 1 not(TMP\_505) = 0 TMP\_506 = 2 TMP\_507 = 0 not(TMP\_507) = 1 TMP\_508 = 0 not(TMP\_508) = 1 TMP\_509 = 1 not(TMP\_509) = 0 TMP\_510 = 1 not(TMP\_510) = 0 TMP\_511 = 1 not(TMP\_511) = 0 TMP\_512 = 2 TMP\_513 = 1 not(TMP\_513) = 0 TMP\_514 = 0 not(TMP\_514) = 1 TMP\_515 = 1 not(TMP\_515) = 0 TMP\_516 = 1 not(TMP\_516) = 0 TMP\_517 = 1 not(TMP\_517) = 0 TMP\_518 = 1 not(TMP\_518) = 0 TMP\_519 = 5 TMP\_520 = 0 not(TMP\_520) = 1 TMP\_521 = 0 not(TMP\_521) = 1 TMP\_522 = 0 TMP\_523 = 1 not(TMP\_523) = 0 TMP\_524 = 1 not(TMP\_524) = 0 TMP\_525 = 2 TMP\_526 = 0 not(TMP\_526) = 1 TMP\_527 = 0 not(TMP\_527) = 1 TMP\_528 = 1 not(TMP\_528) = 0 TMP\_529 = 1 not(TMP\_529) = 0 TMP\_530 = 1 not(TMP\_530) = 0 TMP\_531 = 2 Area\_0 = 60 Distance\_0\_Rule\_0 = 20 Distance\_1\_Rule\_0 = 3 Distance\_2\_Rule\_0 = 1 Area\_1 = 174 Distance\_0\_Rule\_1 = 58 Distance\_1\_Rule\_1 = 3 Distance\_2\_Rule\_1 = 1 Area\_2 = 116 Distance\_0\_Rule\_2 = 58 Distance\_1\_Rule\_2 = 2 Distance\_2\_Rule\_2 = 1 Area\_3 = 58 Distance\_0\_Rule\_3 = 58 Distance\_1\_Rule\_3 = 1 Distance\_2\_Rule\_3 = 1 Area\_4 = 123 -(Rule\_4\_LB) = -79 Distance\_0\_Rule\_4 = 41 -(Rule\_4\_LB) = 0 Distance\_1\_Rule\_4 = 3 -(Rule\_4\_LB) = 0 Distance\_2\_Rule\_4 = 1 Area\_5 = 63 -(Rule\_5\_LB) = 0 Distance\_0\_Rule\_5 = 21 -(Rule\_5\_LB) = 0 Distance\_1\_Rule\_5 = 3 -(Rule\_5\_LB) = 0 Distance\_2\_Rule\_5 = 1 Area\_6 = 123 -(Rule\_6\_LB) = -79 Distance\_0\_Rule\_6 = 41 -(Rule\_6\_LB) = 0 Distance\_1\_Rule\_6 = 3 -(Rule\_6\_LB) = -1 Distance\_2\_Rule\_6 = 1 Area\_7 = 3 -(Rule\_7\_LB) = -20 Distance\_0\_Rule\_7 = 1 -(Rule\_7\_LB) = 0 Distance\_1\_Rule\_7 = 3 -(Rule\_7\_LB) = -1 Distance\_2\_Rule\_7 = 1 TMP\_532 = 720 .

- Incomplete search - Limit reached.

Solutions: 20

Building time : 0.233s

Initialisation : 0.001s

Initial propagation : 0.064s

Resolution : 0.383s

Nodes: 116 (302.9 n/s)

Backtracks: 142

Fails: 58

Restarts: 0

Max depth: 31

Memory: -13mb

Variables: 1,124

Constraints: 1,134

## Rules = 5 - Missing Rules = 4

- Solution #1 found. 1 Solutions, Resolution 0.940s, 2288 Nodes (2,435.1 n/s), 4514 Backtracks, 2261 Fails, 0 Restarts

Rule\_5\_LB = 0 Rule\_5\_UB = 21 Rule\_5\_LB = 0 Rule\_5\_UB = 3 Rule\_5\_LB = 0 Rule\_5\_UB = 1 Rule\_6\_LB = 79 Rule\_6\_UB = 80 Rule\_6\_LB = 0 Rule\_6\_UB = 3 Rule\_6\_LB = 0 Rule\_6\_UB = 1 Rule\_7\_LB = 79 Rule\_7\_UB = 120 Rule\_7\_LB = 0 Rule\_7\_UB = 3 Rule\_7\_LB = 1 Rule\_7\_UB = 2 Rule\_8\_LB = 20 Rule\_8\_UB = 21 Rule\_8\_LB = 0 Rule\_8\_UB = 3 Rule\_8\_LB = 1 Rule\_8\_UB = 2 Overlaps\_0\_0 = 0 Overlaps\_0\_1 = 0 Overlaps\_0\_2 = 0 Overlaps\_0\_3 = 0 Overlaps\_0\_4 = 0 Overlaps\_0\_5 = 0 Overlaps\_0\_6 = 0 Overlaps\_0\_7 = 0 Overlaps\_0\_8 = 0 Overlaps\_1\_0 = 0 Overlaps\_1\_1 = 0 Overlaps\_1\_2 = 0 Overlaps\_1\_3 = 0 Overlaps\_1\_4 = 0 Overlaps\_1\_5 = 0 Overlaps\_1\_6 = 0 Overlaps\_1\_7 = 0 Overlaps\_1\_8 = 0 Overlaps\_2\_0 = 0 Overlaps\_2\_1 = 0 Overlaps\_2\_2 = 0 Overlaps\_2\_3 = 0 Overlaps\_2\_4 = 0 Overlaps\_2\_5 = 0 Overlaps\_2\_6 = 0 Overlaps\_2\_7 = 0 Overlaps\_2\_8 = 0 Overlaps\_3\_0 = 0 Overlaps\_3\_1 = 0 Overlaps\_3\_2 = 0 Overlaps\_3\_3 = 0 Overlaps\_3\_4 = 0 Overlaps\_3\_5 = 0 Overlaps\_3\_6 = 0 Overlaps\_3\_7 = 0 Overlaps\_3\_8 = 0 Overlaps\_4\_0 = 0 Overlaps\_4\_1 = 0 Overlaps\_4\_2 = 0 Overlaps\_4\_3 = 0 Overlaps\_4\_4 = 0 Overlaps\_4\_5 = 0 Overlaps\_4\_6 = 0 Overlaps\_4\_7 = 0 Overlaps\_4\_8 = 0 Overlaps\_5\_0 = 0 Overlaps\_5\_1 = 0 Overlaps\_5\_2 = 0 Overlaps\_5\_3 = 0 Overlaps\_5\_4 = 0 Overlaps\_5\_5 = 0 Overlaps\_5\_6 = 0 Overlaps\_5\_7 = 0 Overlaps\_5\_8 = 0 Overlaps\_6\_0 = 0 Overlaps\_6\_1 = 0 Overlaps\_6\_2 = 0 Overlaps\_6\_3 = 0 Overlaps\_6\_4 = 0 Overlaps\_6\_5 = 0 Overlaps\_6\_6 = 0 Overlaps\_6\_7 = 0 Overlaps\_6\_8 = 0 Overlaps\_7\_0 = 0 Overlaps\_7\_1 = 0 Overlaps\_7\_2 = 0 Overlaps\_7\_3 = 0 Overlaps\_7\_4 = 0 Overlaps\_7\_5 = 0 Overlaps\_7\_6 = 0 Overlaps\_7\_7 = 0 Overlaps\_7\_8 = 0 Overlaps\_8\_0 = 0 Overlaps\_8\_1 = 0 Overlaps\_8\_2 = 0 Overlaps\_8\_3 = 0 Overlaps\_8\_4 = 0 Overlaps\_8\_5 = 0 Overlaps\_8\_6 = 0 Overlaps\_8\_7 = 0 Overlaps\_8\_8 = 0 TMP\_0 = 1 not(TMP\_0) = 0 TMP\_1 = 1 not(TMP\_1) = 0 TMP\_2 = 1 not(TMP\_2) = 0 TMP\_3 = 1 not(TMP\_3) = 0 TMP\_4 = 1 not(TMP\_4) = 0 TMP\_5 = 0 not(TMP\_5) = 1 TMP\_6 = 5 TMP\_7 = 0 not(TMP\_7) = 1 TMP\_8 = 0 not(TMP\_8) = 1 TMP\_9 = 0 TMP\_10 = 1 not(TMP\_10) = 0 TMP\_11 = 1 not(TMP\_11) = 0 TMP\_12 = 2 TMP\_13 = 0 not(TMP\_13) = 1 TMP\_14 = 0 not(TMP\_14) = 1 TMP\_15 = 1 not(TMP\_15) = 0 TMP\_16 = 1 not(TMP\_16) = 0 TMP\_17 = 1 not(TMP\_17) = 0 TMP\_18 = 2 TMP\_19 = 1 not(TMP\_19) = 0 TMP\_20 = 0 not(TMP\_20) = 1 TMP\_21 = 1 not(TMP\_21) = 0 TMP\_22 = 1 not(TMP\_22) = 0 TMP\_23 = 1 not(TMP\_23) = 0 TMP\_24 = 0 not(TMP\_24) = 1 TMP\_25 = 4 TMP\_26 = 0 not(TMP\_26) = 1 TMP\_27 = 0 not(TMP\_27) = 1 TMP\_28 = 0 TMP\_29 = 1 not(TMP\_29) = 0 TMP\_30 = 1 not(TMP\_30) = 0 TMP\_31 = 2 TMP\_32 = 0 not(TMP\_32) = 1 TMP\_33 = 0 not(TMP\_33) = 1 TMP\_34 = 1 not(TMP\_34) = 0 TMP\_35 = 1 not(TMP\_35) = 0 TMP\_36 = 1 not(TMP\_36) = 0 TMP\_37 = 2 TMP\_38 = 1 not(TMP\_38) = 0 TMP\_39 = 0 not(TMP\_39) = 1 TMP\_40 = 1 not(TMP\_40) = 0 TMP\_41 = 1 not(TMP\_41) = 0 TMP\_42 = 1 not(TMP\_42) = 0 TMP\_43 = 1 not(TMP\_43) = 0 TMP\_44 = 5 TMP\_45 = 0 not(TMP\_45) = 1 TMP\_46 = 0 not(TMP\_46) = 1 TMP\_47 = 0 TMP\_48 = 1 not(TMP\_48) = 0 TMP\_49 = 1 not(TMP\_49) = 0 TMP\_50 = 2 TMP\_51 = 0 not(TMP\_51) = 1 TMP\_52 = 0 not(TMP\_52) = 1 TMP\_53 = 1 not(TMP\_53) = 0 TMP\_54 = 1 not(TMP\_54) = 0 TMP\_55 = 1 not(TMP\_55) = 0 TMP\_56 = 2 TMP\_57 = 1 not(TMP\_57) = 0 TMP\_58 = 0 not(TMP\_58) = 1 TMP\_59 = 1 not(TMP\_59) = 0 TMP\_60 = 1 not(TMP\_60) = 0 TMP\_61 = 1 not(TMP\_61) = 0 TMP\_62 = 1 not(TMP\_62) = 0 TMP\_63 = 5 TMP\_64 = 0 not(TMP\_64) = 1 TMP\_65 = 0 not(TMP\_65) = 1 TMP\_66 = 0 TMP\_67 = 1 not(TMP\_67) = 0 TMP\_68 = 1 not(TMP\_68) = 0 TMP\_69 = 2 TMP\_70 = 0 not(TMP\_70) = 1 TMP\_71 = 0 not(TMP\_71) = 1 TMP\_72 = 1 not(TMP\_72) = 0 TMP\_73 = 1 not(TMP\_73) = 0 TMP\_74 = 1 not(TMP\_74) = 0 TMP\_75 = 2 TMP\_76 = 1 not(TMP\_76) = 0 TMP\_77 = 0 not(TMP\_77) = 1 TMP\_78 = 1 not(TMP\_78) = 0 TMP\_79 = 1 not(TMP\_79) = 0 TMP\_80 = 1 not(TMP\_80) = 0 TMP\_81 = 1 not(TMP\_81) = 0 TMP\_82 = 5 TMP\_83 = 0 not(TMP\_83) = 1 TMP\_84 = 0 not(TMP\_84) = 1 TMP\_85 = 0 TMP\_86 = 1 not(TMP\_86) = 0 TMP\_87 = 1 not(TMP\_87) = 0 TMP\_88 = 2 TMP\_89 = 0 not(TMP\_89) = 1 TMP\_90 = 0 not(TMP\_90) = 1 TMP\_91 = 1 not(TMP\_91) = 0 TMP\_92 = 1 not(TMP\_92) = 0 TMP\_93 = 1 not(TMP\_93) = 0 TMP\_94 = 2 TMP\_95 = 1 not(TMP\_95) = 0 TMP\_96 = 0 not(TMP\_96) = 1 TMP\_97 = 1 not(TMP\_97) = 0 TMP\_98 = 1 not(TMP\_98) = 0 TMP\_99 = 1 not(TMP\_99) = 0 TMP\_100 = 1 not(TMP\_100) = 0 TMP\_101 = 5 TMP\_102 = 0 not(TMP\_102) = 1 TMP\_103 = 0 not(TMP\_103) = 1 TMP\_104 = 0 TMP\_105 = 1 not(TMP\_105) = 0 TMP\_106 = 1 not(TMP\_106) = 0 TMP\_107 = 2 TMP\_108 = 0 not(TMP\_108) = 1 TMP\_109 = 0 not(TMP\_109) = 1 TMP\_110 = 1 not(TMP\_110) = 0 TMP\_111 = 1 not(TMP\_111) = 0 TMP\_112 = 1 not(TMP\_112) = 0 TMP\_113 = 2 TMP\_114 = 1 not(TMP\_114) = 0 TMP\_115 = 0 not(TMP\_115) = 1 TMP\_116 = 1 not(TMP\_116) = 0 TMP\_117 = 1 not(TMP\_117) = 0 TMP\_118 = 1 not(TMP\_118) = 0 TMP\_119 = 0 not(TMP\_119) = 1 TMP\_120 = 4 TMP\_121 = 0 not(TMP\_121) = 1 TMP\_122 = 0 not(TMP\_122) = 1 TMP\_123 = 0 TMP\_124 = 1 not(TMP\_124) = 0 TMP\_125 = 1 not(TMP\_125) = 0 TMP\_126 = 2 TMP\_127 = 0 not(TMP\_127) = 1 TMP\_128 = 0 not(TMP\_128) = 1 TMP\_129 = 1 not(TMP\_129) = 0 TMP\_130 = 1 not(TMP\_130) = 0 TMP\_131 = 1 not(TMP\_131) = 0 TMP\_132 = 2 TMP\_133 = 1 not(TMP\_133) = 0 TMP\_134 = 1 not(TMP\_134) = 0 TMP\_135 = 1 not(TMP\_135) = 0 TMP\_136 = 1 not(TMP\_136) = 0 TMP\_137 = 1 not(TMP\_137) = 0 TMP\_138 = 0 not(TMP\_138) = 1 TMP\_139 = 5 TMP\_140 = 0 not(TMP\_140) = 1 TMP\_141 = 0 not(TMP\_141) = 1 TMP\_142 = 0 TMP\_143 = 1 not(TMP\_143) = 0 TMP\_144 = 1 not(TMP\_144) = 0 TMP\_145 = 2 TMP\_146 = 0 not(TMP\_146) = 1 TMP\_147 = 0 not(TMP\_147) = 1 TMP\_148 = 1 not(TMP\_148) = 0 TMP\_149 = 1 not(TMP\_149) = 0 TMP\_150 = 1 not(TMP\_150) = 0 TMP\_151 = 2 TMP\_152 = 0 not(TMP\_152) = 1 TMP\_153 = 1 not(TMP\_153) = 0 TMP\_154 = 1 not(TMP\_154) = 0 TMP\_155 = 1 not(TMP\_155) = 0 TMP\_156 = 1 not(TMP\_156) = 0 TMP\_157 = 0 not(TMP\_157) = 1 TMP\_158 = 4 TMP\_159 = 0 not(TMP\_159) = 1 TMP\_160 = 0 not(TMP\_160) = 1 TMP\_161 = 0 TMP\_162 = 1 not(TMP\_162) = 0 TMP\_163 = 1 not(TMP\_163) = 0 TMP\_164 = 2 TMP\_165 = 0 not(TMP\_165) = 1 TMP\_166 = 0 not(TMP\_166) = 1 TMP\_167 = 1 not(TMP\_167) = 0 TMP\_168 = 1 not(TMP\_168) = 0 TMP\_169 = 1 not(TMP\_169) = 0 TMP\_170 = 2 TMP\_171 = 0 not(TMP\_171) = 1 TMP\_172 = 1 not(TMP\_172) = 0 TMP\_173 = 1 not(TMP\_173) = 0 TMP\_174 = 1 not(TMP\_174) = 0 TMP\_175 = 1 not(TMP\_175) = 0 TMP\_176 = 0 not(TMP\_176) = 1 TMP\_177 = 4 TMP\_178 = 0 not(TMP\_178) = 1 TMP\_179 = 0 not(TMP\_179) = 1 TMP\_180 = 0 TMP\_181 = 1 not(TMP\_181) = 0 TMP\_182 = 1 not(TMP\_182) = 0 TMP\_183 = 2 TMP\_184 = 0 not(TMP\_184) = 1 TMP\_185 = 0 not(TMP\_185) = 1 TMP\_186 = 1 not(TMP\_186) = 0 TMP\_187 = 1 not(TMP\_187) = 0 TMP\_188 = 1 not(TMP\_188) = 0 TMP\_189 = 2 TMP\_190 = 0 not(TMP\_190) = 1 TMP\_191 = 1 not(TMP\_191) = 0 TMP\_192 = 1 not(TMP\_192) = 0 TMP\_193 = 1 not(TMP\_193) = 0 TMP\_194 = 1 not(TMP\_194) = 0 TMP\_195 = 1 not(TMP\_195) = 0 TMP\_196 = 5 TMP\_197 = 0 not(TMP\_197) = 1 TMP\_198 = 0 not(TMP\_198) = 1 TMP\_199 = 0 TMP\_200 = 1 not(TMP\_200) = 0 TMP\_201 = 1 not(TMP\_201) = 0 TMP\_202 = 2 TMP\_203 = 0 not(TMP\_203) = 1 TMP\_204 = 0 not(TMP\_204) = 1 TMP\_205 = 1 not(TMP\_205) = 0 TMP\_206 = 1 not(TMP\_206) = 0 TMP\_207 = 1 not(TMP\_207) = 0 TMP\_208 = 2 TMP\_209 = 0 not(TMP\_209) = 1 TMP\_210 = 1 not(TMP\_210) = 0 TMP\_211 = 1 not(TMP\_211) = 0 TMP\_212 = 1 not(TMP\_212) = 0 TMP\_213 = 1 not(TMP\_213) = 0 TMP\_214 = 1 not(TMP\_214) = 0 TMP\_215 = 5 TMP\_216 = 0 not(TMP\_216) = 1 TMP\_217 = 0 not(TMP\_217) = 1 TMP\_218 = 0 TMP\_219 = 1 not(TMP\_219) = 0 TMP\_220 = 1 not(TMP\_220) = 0 TMP\_221 = 2 TMP\_222 = 0 not(TMP\_222) = 1 TMP\_223 = 0 not(TMP\_223) = 1 TMP\_224 = 1 not(TMP\_224) = 0 TMP\_225 = 1 not(TMP\_225) = 0 TMP\_226 = 1 not(TMP\_226) = 0 TMP\_227 = 2 TMP\_228 = 1 not(TMP\_228) = 0 TMP\_229 = 0 not(TMP\_229) = 1 TMP\_230 = 1 not(TMP\_230) = 0 TMP\_231 = 1 not(TMP\_231) = 0 TMP\_232 = 1 not(TMP\_232) = 0 TMP\_233 = 1 not(TMP\_233) = 0 TMP\_234 = 5 TMP\_235 = 0 not(TMP\_235) = 1 TMP\_236 = 0 not(TMP\_236) = 1 TMP\_237 = 0 TMP\_238 = 1 not(TMP\_238) = 0 TMP\_239 = 1 not(TMP\_239) = 0 TMP\_240 = 2 TMP\_241 = 0 not(TMP\_241) = 1 TMP\_242 = 0 not(TMP\_242) = 1 TMP\_243 = 1 not(TMP\_243) = 0 TMP\_244 = 1 not(TMP\_244) = 0 TMP\_245 = 1 not(TMP\_245) = 0 TMP\_246 = 2 TMP\_247 = 0 not(TMP\_247) = 1 TMP\_248 = 1 not(TMP\_248) = 0 TMP\_249 = 1 not(TMP\_249) = 0 TMP\_250 = 1 not(TMP\_250) = 0 TMP\_251 = 1 not(TMP\_251) = 0 TMP\_252 = 1 not(TMP\_252) = 0 TMP\_253 = 5 TMP\_254 = 0 not(TMP\_254) = 1 TMP\_255 = 0 not(TMP\_255) = 1 TMP\_256 = 0 TMP\_257 = 1 not(TMP\_257) = 0 TMP\_258 = 1 not(TMP\_258) = 0 TMP\_259 = 2 TMP\_260 = 0 not(TMP\_260) = 1 TMP\_261 = 0 not(TMP\_261) = 1 TMP\_262 = 1 not(TMP\_262) = 0 TMP\_263 = 1 not(TMP\_263) = 0 TMP\_264 = 1 not(TMP\_264) = 0 TMP\_265 = 2 TMP\_266 = 1 not(TMP\_266) = 0 TMP\_267 = 1 not(TMP\_267) = 0 TMP\_268 = 1 not(TMP\_268) = 0 TMP\_269 = 1 not(TMP\_269) = 0 TMP\_270 = 1 not(TMP\_270) = 0 TMP\_271 = 0 not(TMP\_271) = 1 TMP\_272 = 5 TMP\_273 = 0 not(TMP\_273) = 1 TMP\_274 = 0 not(TMP\_274) = 1 TMP\_275 = 0 TMP\_276 = 1 not(TMP\_276) = 0 TMP\_277 = 1 not(TMP\_277) = 0 TMP\_278 = 2 TMP\_279 = 0 not(TMP\_279) = 1 TMP\_280 = 0 not(TMP\_280) = 1 TMP\_281 = 1 not(TMP\_281) = 0 TMP\_282 = 1 not(TMP\_282) = 0 TMP\_283 = 1 not(TMP\_283) = 0 TMP\_284 = 2 TMP\_285 = 0 not(TMP\_285) = 1 TMP\_286 = 1 not(TMP\_286) = 0 TMP\_287 = 1 not(TMP\_287) = 0 TMP\_288 = 1 not(TMP\_288) = 0 TMP\_289 = 1 not(TMP\_289) = 0 TMP\_290 = 0 not(TMP\_290) = 1 TMP\_291 = 4 TMP\_292 = 0 not(TMP\_292) = 1 TMP\_293 = 0 not(TMP\_293) = 1 TMP\_294 = 0 TMP\_295 = 1 not(TMP\_295) = 0 TMP\_296 = 1 not(TMP\_296) = 0 TMP\_297 = 2 TMP\_298 = 0 not(TMP\_298) = 1 TMP\_299 = 0 not(TMP\_299) = 1 TMP\_300 = 1 not(TMP\_300) = 0 TMP\_301 = 1 not(TMP\_301) = 0 TMP\_302 = 1 not(TMP\_302) = 0 TMP\_303 = 2 TMP\_304 = 0 not(TMP\_304) = 1 TMP\_305 = 1 not(TMP\_305) = 0 TMP\_306 = 1 not(TMP\_306) = 0 TMP\_307 = 1 not(TMP\_307) = 0 TMP\_308 = 1 not(TMP\_308) = 0 TMP\_309 = 1 not(TMP\_309) = 0 TMP\_310 = 5 TMP\_311 = 0 not(TMP\_311) = 1 TMP\_312 = 0 not(TMP\_312) = 1 TMP\_313 = 0 TMP\_314 = 1 not(TMP\_314) = 0 TMP\_315 = 1 not(TMP\_315) = 0 TMP\_316 = 2 TMP\_317 = 0 not(TMP\_317) = 1 TMP\_318 = 0 not(TMP\_318) = 1 TMP\_319 = 1 not(TMP\_319) = 0 TMP\_320 = 1 not(TMP\_320) = 0 TMP\_321 = 1 not(TMP\_321) = 0 TMP\_322 = 2 TMP\_323 = 0 not(TMP\_323) = 1 TMP\_324 = 1 not(TMP\_324) = 0 TMP\_325 = 1 not(TMP\_325) = 0 TMP\_326 = 1 not(TMP\_326) = 0 TMP\_327 = 1 not(TMP\_327) = 0 TMP\_328 = 1 not(TMP\_328) = 0 TMP\_329 = 5 TMP\_330 = 0 not(TMP\_330) = 1 TMP\_331 = 0 not(TMP\_331) = 1 TMP\_332 = 0 TMP\_333 = 1 not(TMP\_333) = 0 TMP\_334 = 1 not(TMP\_334) = 0 TMP\_335 = 2 TMP\_336 = 0 not(TMP\_336) = 1 TMP\_337 = 0 not(TMP\_337) = 1 TMP\_338 = 1 not(TMP\_338) = 0 TMP\_339 = 1 not(TMP\_339) = 0 TMP\_340 = 1 not(TMP\_340) = 0 TMP\_341 = 2 TMP\_342 = 0 not(TMP\_342) = 1 TMP\_343 = 1 not(TMP\_343) = 0 TMP\_344 = 1 not(TMP\_344) = 0 TMP\_345 = 1 not(TMP\_345) = 0 TMP\_346 = 0 not(TMP\_346) = 1 TMP\_347 = 1 not(TMP\_347) = 0 TMP\_348 = 4 TMP\_349 = 0 not(TMP\_349) = 1 TMP\_350 = 0 not(TMP\_350) = 1 TMP\_351 = 0 TMP\_352 = 1 not(TMP\_352) = 0 TMP\_353 = 1 not(TMP\_353) = 0 TMP\_354 = 2 TMP\_355 = 0 not(TMP\_355) = 1 TMP\_356 = 0 not(TMP\_356) = 1 TMP\_357 = 1 not(TMP\_357) = 0 TMP\_358 = 1 not(TMP\_358) = 0 TMP\_359 = 1 not(TMP\_359) = 0 TMP\_360 = 2 TMP\_361 = 0 not(TMP\_361) = 1 TMP\_362 = 1 not(TMP\_362) = 0 TMP\_363 = 1 not(TMP\_363) = 0 TMP\_364 = 1 not(TMP\_364) = 0 TMP\_365 = 0 not(TMP\_365) = 1 TMP\_366 = 1 not(TMP\_366) = 0 TMP\_367 = 4 TMP\_368 = 0 not(TMP\_368) = 1 TMP\_369 = 0 not(TMP\_369) = 1 TMP\_370 = 0 TMP\_371 = 1 not(TMP\_371) = 0 TMP\_372 = 1 not(TMP\_372) = 0 TMP\_373 = 2 TMP\_374 = 0 not(TMP\_374) = 1 TMP\_375 = 0 not(TMP\_375) = 1 TMP\_376 = 1 not(TMP\_376) = 0 TMP\_377 = 1 not(TMP\_377) = 0 TMP\_378 = 1 not(TMP\_378) = 0 TMP\_379 = 2 TMP\_380 = 1 not(TMP\_380) = 0 TMP\_381 = 1 not(TMP\_381) = 0 TMP\_382 = 1 not(TMP\_382) = 0 TMP\_383 = 1 not(TMP\_383) = 0 TMP\_384 = 0 not(TMP\_384) = 1 TMP\_385 = 1 not(TMP\_385) = 0 TMP\_386 = 5 TMP\_387 = 0 not(TMP\_387) = 1 TMP\_388 = 0 not(TMP\_388) = 1 TMP\_389 = 0 TMP\_390 = 1 not(TMP\_390) = 0 TMP\_391 = 1 not(TMP\_391) = 0 TMP\_392 = 2 TMP\_393 = 0 not(TMP\_393) = 1 TMP\_394 = 0 not(TMP\_394) = 1 TMP\_395 = 1 not(TMP\_395) = 0 TMP\_396 = 1 not(TMP\_396) = 0 TMP\_397 = 1 not(TMP\_397) = 0 TMP\_398 = 2 TMP\_399 = 0 not(TMP\_399) = 1 TMP\_400 = 1 not(TMP\_400) = 0 TMP\_401 = 1 not(TMP\_401) = 0 TMP\_402 = 1 not(TMP\_402) = 0 TMP\_403 = 0 not(TMP\_403) = 1 TMP\_404 = 1 not(TMP\_404) = 0 TMP\_405 = 4 TMP\_406 = 0 not(TMP\_406) = 1 TMP\_407 = 0 not(TMP\_407) = 1 TMP\_408 = 0 TMP\_409 = 1 not(TMP\_409) = 0 TMP\_410 = 1 not(TMP\_410) = 0 TMP\_411 = 2 TMP\_412 = 0 not(TMP\_412) = 1 TMP\_413 = 0 not(TMP\_413) = 1 TMP\_414 = 1 not(TMP\_414) = 0 TMP\_415 = 1 not(TMP\_415) = 0 TMP\_416 = 1 not(TMP\_416) = 0 TMP\_417 = 2 TMP\_418 = 1 not(TMP\_418) = 0 TMP\_419 = 1 not(TMP\_419) = 0 TMP\_420 = 1 not(TMP\_420) = 0 TMP\_421 = 1 not(TMP\_421) = 0 TMP\_422 = 0 not(TMP\_422) = 1 TMP\_423 = 1 not(TMP\_423) = 0 TMP\_424 = 5 TMP\_425 = 0 not(TMP\_425) = 1 TMP\_426 = 0 not(TMP\_426) = 1 TMP\_427 = 0 TMP\_428 = 1 not(TMP\_428) = 0 TMP\_429 = 1 not(TMP\_429) = 0 TMP\_430 = 2 TMP\_431 = 0 not(TMP\_431) = 1 TMP\_432 = 0 not(TMP\_432) = 1 TMP\_433 = 1 not(TMP\_433) = 0 TMP\_434 = 1 not(TMP\_434) = 0 TMP\_435 = 1 not(TMP\_435) = 0 TMP\_436 = 2 TMP\_437 = 0 not(TMP\_437) = 1 TMP\_438 = 1 not(TMP\_438) = 0 TMP\_439 = 1 not(TMP\_439) = 0 TMP\_440 = 1 not(TMP\_440) = 0 TMP\_441 = 1 not(TMP\_441) = 0 TMP\_442 = 1 not(TMP\_442) = 0 TMP\_443 = 5 TMP\_444 = 0 not(TMP\_444) = 1 TMP\_445 = 0 not(TMP\_445) = 1 TMP\_446 = 0 TMP\_447 = 1 not(TMP\_447) = 0 TMP\_448 = 1 not(TMP\_448) = 0 TMP\_449 = 2 TMP\_450 = 0 not(TMP\_450) = 1 TMP\_451 = 0 not(TMP\_451) = 1 TMP\_452 = 1 not(TMP\_452) = 0 TMP\_453 = 1 not(TMP\_453) = 0 TMP\_454 = 1 not(TMP\_454) = 0 TMP\_455 = 2 TMP\_456 = 0 not(TMP\_456) = 1 TMP\_457 = 1 not(TMP\_457) = 0 TMP\_458 = 1 not(TMP\_458) = 0 TMP\_459 = 1 not(TMP\_459) = 0 TMP\_460 = 1 not(TMP\_460) = 0 TMP\_461 = 1 not(TMP\_461) = 0 TMP\_462 = 5 TMP\_463 = 0 not(TMP\_463) = 1 TMP\_464 = 0 not(TMP\_464) = 1 TMP\_465 = 0 TMP\_466 = 1 not(TMP\_466) = 0 TMP\_467 = 1 not(TMP\_467) = 0 TMP\_468 = 2 TMP\_469 = 0 not(TMP\_469) = 1 TMP\_470 = 0 not(TMP\_470) = 1 TMP\_471 = 1 not(TMP\_471) = 0 TMP\_472 = 1 not(TMP\_472) = 0 TMP\_473 = 1 not(TMP\_473) = 0 TMP\_474 = 2 TMP\_475 = 1 not(TMP\_475) = 0 TMP\_476 = 0 not(TMP\_476) = 1 TMP\_477 = 1 not(TMP\_477) = 0 TMP\_478 = 1 not(TMP\_478) = 0 TMP\_479 = 1 not(TMP\_479) = 0 TMP\_480 = 1 not(TMP\_480) = 0 TMP\_481 = 5 TMP\_482 = 0 not(TMP\_482) = 1 TMP\_483 = 0 not(TMP\_483) = 1 TMP\_484 = 0 TMP\_485 = 1 not(TMP\_485) = 0 TMP\_486 = 1 not(TMP\_486) = 0 TMP\_487 = 2 TMP\_488 = 0 not(TMP\_488) = 1 TMP\_489 = 0 not(TMP\_489) = 1 TMP\_490 = 1 not(TMP\_490) = 0 TMP\_491 = 1 not(TMP\_491) = 0 TMP\_492 = 1 not(TMP\_492) = 0 TMP\_493 = 2 TMP\_494 = 1 not(TMP\_494) = 0 TMP\_495 = 0 not(TMP\_495) = 1 TMP\_496 = 1 not(TMP\_496) = 0 TMP\_497 = 1 not(TMP\_497) = 0 TMP\_498 = 0 not(TMP\_498) = 1 TMP\_499 = 1 not(TMP\_499) = 0 TMP\_500 = 4 TMP\_501 = 0 not(TMP\_501) = 1 TMP\_502 = 0 not(TMP\_502) = 1 TMP\_503 = 0 TMP\_504 = 1 not(TMP\_504) = 0 TMP\_505 = 1 not(TMP\_505) = 0 TMP\_506 = 2 TMP\_507 = 0 not(TMP\_507) = 1 TMP\_508 = 0 not(TMP\_508) = 1 TMP\_509 = 1 not(TMP\_509) = 0 TMP\_510 = 1 not(TMP\_510) = 0 TMP\_511 = 1 not(TMP\_511) = 0 TMP\_512 = 2 TMP\_513 = 1 not(TMP\_513) = 0 TMP\_514 = 0 not(TMP\_514) = 1 TMP\_515 = 1 not(TMP\_515) = 0 TMP\_516 = 1 not(TMP\_516) = 0 TMP\_517 = 0 not(TMP\_517) = 1 TMP\_518 = 1 not(TMP\_518) = 0 TMP\_519 = 4 TMP\_520 = 0 not(TMP\_520) = 1 TMP\_521 = 0 not(TMP\_521) = 1 TMP\_522 = 0 TMP\_523 = 1 not(TMP\_523) = 0 TMP\_524 = 1 not(TMP\_524) = 0 TMP\_525 = 2 TMP\_526 = 0 not(TMP\_526) = 1 TMP\_527 = 0 not(TMP\_527) = 1 TMP\_528 = 1 not(TMP\_528) = 0 TMP\_529 = 1 not(TMP\_529) = 0 TMP\_530 = 1 not(TMP\_530) = 0 TMP\_531 = 2 TMP\_532 = 1 not(TMP\_532) = 0 TMP\_533 = 0 not(TMP\_533) = 1 TMP\_534 = 1 not(TMP\_534) = 0 TMP\_535 = 1 not(TMP\_535) = 0 TMP\_536 = 0 not(TMP\_536) = 1 TMP\_537 = 1 not(TMP\_537) = 0 TMP\_538 = 4 TMP\_539 = 0 not(TMP\_539) = 1 TMP\_540 = 0 not(TMP\_540) = 1 TMP\_541 = 0 TMP\_542 = 1 not(TMP\_542) = 0 TMP\_543 = 1 not(TMP\_543) = 0 TMP\_544 = 2 TMP\_545 = 0 not(TMP\_545) = 1 TMP\_546 = 0 not(TMP\_546) = 1 TMP\_547 = 1 not(TMP\_547) = 0 TMP\_548 = 1 not(TMP\_548) = 0 TMP\_549 = 1 not(TMP\_549) = 0 TMP\_550 = 2 TMP\_551 = 1 not(TMP\_551) = 0 TMP\_552 = 1 not(TMP\_552) = 0 TMP\_553 = 1 not(TMP\_553) = 0 TMP\_554 = 1 not(TMP\_554) = 0 TMP\_555 = 0 not(TMP\_555) = 1 TMP\_556 = 1 not(TMP\_556) = 0 TMP\_557 = 5 TMP\_558 = 0 not(TMP\_558) = 1 TMP\_559 = 0 not(TMP\_559) = 1 TMP\_560 = 0 TMP\_561 = 1 not(TMP\_561) = 0 TMP\_562 = 1 not(TMP\_562) = 0 TMP\_563 = 2 TMP\_564 = 0 not(TMP\_564) = 1 TMP\_565 = 0 not(TMP\_565) = 1 TMP\_566 = 1 not(TMP\_566) = 0 TMP\_567 = 1 not(TMP\_567) = 0 TMP\_568 = 1 not(TMP\_568) = 0 TMP\_569 = 2 TMP\_570 = 1 not(TMP\_570) = 0 TMP\_571 = 0 not(TMP\_571) = 1 TMP\_572 = 1 not(TMP\_572) = 0 TMP\_573 = 1 not(TMP\_573) = 0 TMP\_574 = 0 not(TMP\_574) = 1 TMP\_575 = 1 not(TMP\_575) = 0 TMP\_576 = 4 TMP\_577 = 0 not(TMP\_577) = 1 TMP\_578 = 0 not(TMP\_578) = 1 TMP\_579 = 0 TMP\_580 = 1 not(TMP\_580) = 0 TMP\_581 = 1 not(TMP\_581) = 0 TMP\_582 = 2 TMP\_583 = 0 not(TMP\_583) = 1 TMP\_584 = 0 not(TMP\_584) = 1 TMP\_585 = 1 not(TMP\_585) = 0 TMP\_586 = 1 not(TMP\_586) = 0 TMP\_587 = 1 not(TMP\_587) = 0 TMP\_588 = 2 TMP\_589 = 1 not(TMP\_589) = 0 TMP\_590 = 0 not(TMP\_590) = 1 TMP\_591 = 1 not(TMP\_591) = 0 TMP\_592 = 1 not(TMP\_592) = 0 TMP\_593 = 1 not(TMP\_593) = 0 TMP\_594 = 1 not(TMP\_594) = 0 TMP\_595 = 5 TMP\_596 = 0 not(TMP\_596) = 1 TMP\_597 = 0 not(TMP\_597) = 1 TMP\_598 = 0 TMP\_599 = 1 not(TMP\_599) = 0 TMP\_600 = 1 not(TMP\_600) = 0 TMP\_601 = 2 TMP\_602 = 0 not(TMP\_602) = 1 TMP\_603 = 0 not(TMP\_603) = 1 TMP\_604 = 1 not(TMP\_604) = 0 TMP\_605 = 1 not(TMP\_605) = 0 TMP\_606 = 1 not(TMP\_606) = 0 TMP\_607 = 2 Area\_0 = 60 Distance\_0\_Rule\_0 = 20 Distance\_1\_Rule\_0 = 3 Distance\_2\_Rule\_0 = 1 Area\_1 = 174 Distance\_0\_Rule\_1 = 58 Distance\_1\_Rule\_1 = 3 Distance\_2\_Rule\_1 = 1 Area\_2 = 116 Distance\_0\_Rule\_2 = 58 Distance\_1\_Rule\_2 = 2 Distance\_2\_Rule\_2 = 1 Area\_3 = 58 Distance\_0\_Rule\_3 = 58 Distance\_1\_Rule\_3 = 1 Distance\_2\_Rule\_3 = 1 Area\_4 = 120 Distance\_0\_Rule\_4 = 40 Distance\_1\_Rule\_4 = 3 Distance\_2\_Rule\_4 = 1 Area\_5 = 63 -(Rule\_5\_LB) = 0 Distance\_0\_Rule\_5 = 21 -(Rule\_5\_LB) = 0 Distance\_1\_Rule\_5 = 3 -(Rule\_5\_LB) = 0 Distance\_2\_Rule\_5 = 1 Area\_6 = 3 -(Rule\_6\_LB) = -79 Distance\_0\_Rule\_6 = 1 -(Rule\_6\_LB) = 0 Distance\_1\_Rule\_6 = 3 -(Rule\_6\_LB) = 0 Distance\_2\_Rule\_6 = 1 Area\_7 = 123 -(Rule\_7\_LB) = -79 Distance\_0\_Rule\_7 = 41 -(Rule\_7\_LB) = 0 Distance\_1\_Rule\_7 = 3 -(Rule\_7\_LB) = -1 Distance\_2\_Rule\_7 = 1 Area\_8 = 3 -(Rule\_8\_LB) = -20 Distance\_0\_Rule\_8 = 1 -(Rule\_8\_LB) = 0 Distance\_1\_Rule\_8 = 3 -(Rule\_8\_LB) = -1 Distance\_2\_Rule\_8 = 1 TMP\_608 = 720 .

- Solution #2 found. 2 Solutions, Resolution 0.962s, 2289 Nodes (2,378.8 n/s), 4515 Backtracks, 2261 Fails, 0 Restarts

Rule\_5\_LB = 0 Rule\_5\_UB = 21 Rule\_5\_LB = 0 Rule\_5\_UB = 3 Rule\_5\_LB = 0 Rule\_5\_UB = 1 Rule\_6\_LB = 79 Rule\_6\_UB = 80 Rule\_6\_LB = 0 Rule\_6\_UB = 3 Rule\_6\_LB = 0 Rule\_6\_UB = 1 Rule\_7\_LB = 79 Rule\_7\_UB = 120 Rule\_7\_LB = 0 Rule\_7\_UB = 3 Rule\_7\_LB = 1 Rule\_7\_UB = 2 Rule\_8\_LB = 20 Rule\_8\_UB = 21 Rule\_8\_LB = 0 Rule\_8\_UB = 3 Rule\_8\_LB = 1 Rule\_8\_UB = 2 Overlaps\_0\_0 = 0 Overlaps\_0\_1 = 0 Overlaps\_0\_2 = 0 Overlaps\_0\_3 = 0 Overlaps\_0\_4 = 0 Overlaps\_0\_5 = 0 Overlaps\_0\_6 = 0 Overlaps\_0\_7 = 0 Overlaps\_0\_8 = 0 Overlaps\_1\_0 = 0 Overlaps\_1\_1 = 0 Overlaps\_1\_2 = 0 Overlaps\_1\_3 = 0 Overlaps\_1\_4 = 0 Overlaps\_1\_5 = 0 Overlaps\_1\_6 = 0 Overlaps\_1\_7 = 0 Overlaps\_1\_8 = 0 Overlaps\_2\_0 = 0 Overlaps\_2\_1 = 0 Overlaps\_2\_2 = 0 Overlaps\_2\_3 = 0 Overlaps\_2\_4 = 0 Overlaps\_2\_5 = 0 Overlaps\_2\_6 = 0 Overlaps\_2\_7 = 0 Overlaps\_2\_8 = 0 Overlaps\_3\_0 = 0 Overlaps\_3\_1 = 0 Overlaps\_3\_2 = 0 Overlaps\_3\_3 = 0 Overlaps\_3\_4 = 0 Overlaps\_3\_5 = 0 Overlaps\_3\_6 = 0 Overlaps\_3\_7 = 0 Overlaps\_3\_8 = 0 Overlaps\_4\_0 = 1 Overlaps\_4\_1 = 0 Overlaps\_4\_2 = 0 Overlaps\_4\_3 = 0 Overlaps\_4\_4 = 0 Overlaps\_4\_5 = 0 Overlaps\_4\_6 = 0 Overlaps\_4\_7 = 0 Overlaps\_4\_8 = 0 Overlaps\_5\_0 = 0 Overlaps\_5\_1 = 0 Overlaps\_5\_2 = 0 Overlaps\_5\_3 = 0 Overlaps\_5\_4 = 0 Overlaps\_5\_5 = 0 Overlaps\_5\_6 = 0 Overlaps\_5\_7 = 0 Overlaps\_5\_8 = 0 Overlaps\_6\_0 = 0 Overlaps\_6\_1 = 0 Overlaps\_6\_2 = 0 Overlaps\_6\_3 = 0 Overlaps\_6\_4 = 0 Overlaps\_6\_5 = 0 Overlaps\_6\_6 = 0 Overlaps\_6\_7 = 0 Overlaps\_6\_8 = 0 Overlaps\_7\_0 = 0 Overlaps\_7\_1 = 0 Overlaps\_7\_2 = 0 Overlaps\_7\_3 = 0 Overlaps\_7\_4 = 0 Overlaps\_7\_5 = 0 Overlaps\_7\_6 = 0 Overlaps\_7\_7 = 0 Overlaps\_7\_8 = 0 Overlaps\_8\_0 = 0 Overlaps\_8\_1 = 0 Overlaps\_8\_2 = 0 Overlaps\_8\_3 = 0 Overlaps\_8\_4 = 0 Overlaps\_8\_5 = 0 Overlaps\_8\_6 = 0 Overlaps\_8\_7 = 0 Overlaps\_8\_8 = 0 TMP\_0 = 1 not(TMP\_0) = 0 TMP\_1 = 1 not(TMP\_1) = 0 TMP\_2 = 1 not(TMP\_2) = 0 TMP\_3 = 1 not(TMP\_3) = 0 TMP\_4 = 1 not(TMP\_4) = 0 TMP\_5 = 0 not(TMP\_5) = 1 TMP\_6 = 5 TMP\_7 = 0 not(TMP\_7) = 1 TMP\_8 = 0 not(TMP\_8) = 1 TMP\_9 = 0 TMP\_10 = 1 not(TMP\_10) = 0 TMP\_11 = 1 not(TMP\_11) = 0 TMP\_12 = 2 TMP\_13 = 0 not(TMP\_13) = 1 TMP\_14 = 0 not(TMP\_14) = 1 TMP\_15 = 1 not(TMP\_15) = 0 TMP\_16 = 1 not(TMP\_16) = 0 TMP\_17 = 1 not(TMP\_17) = 0 TMP\_18 = 2 TMP\_19 = 1 not(TMP\_19) = 0 TMP\_20 = 0 not(TMP\_20) = 1 TMP\_21 = 1 not(TMP\_21) = 0 TMP\_22 = 1 not(TMP\_22) = 0 TMP\_23 = 1 not(TMP\_23) = 0 TMP\_24 = 0 not(TMP\_24) = 1 TMP\_25 = 4 TMP\_26 = 0 not(TMP\_26) = 1 TMP\_27 = 0 not(TMP\_27) = 1 TMP\_28 = 0 TMP\_29 = 1 not(TMP\_29) = 0 TMP\_30 = 1 not(TMP\_30) = 0 TMP\_31 = 2 TMP\_32 = 0 not(TMP\_32) = 1 TMP\_33 = 0 not(TMP\_33) = 1 TMP\_34 = 1 not(TMP\_34) = 0 TMP\_35 = 1 not(TMP\_35) = 0 TMP\_36 = 1 not(TMP\_36) = 0 TMP\_37 = 2 TMP\_38 = 1 not(TMP\_38) = 0 TMP\_39 = 0 not(TMP\_39) = 1 TMP\_40 = 1 not(TMP\_40) = 0 TMP\_41 = 1 not(TMP\_41) = 0 TMP\_42 = 1 not(TMP\_42) = 0 TMP\_43 = 1 not(TMP\_43) = 0 TMP\_44 = 5 TMP\_45 = 0 not(TMP\_45) = 1 TMP\_46 = 0 not(TMP\_46) = 1 TMP\_47 = 0 TMP\_48 = 1 not(TMP\_48) = 0 TMP\_49 = 1 not(TMP\_49) = 0 TMP\_50 = 2 TMP\_51 = 0 not(TMP\_51) = 1 TMP\_52 = 0 not(TMP\_52) = 1 TMP\_53 = 1 not(TMP\_53) = 0 TMP\_54 = 1 not(TMP\_54) = 0 TMP\_55 = 1 not(TMP\_55) = 0 TMP\_56 = 2 TMP\_57 = 1 not(TMP\_57) = 0 TMP\_58 = 0 not(TMP\_58) = 1 TMP\_59 = 1 not(TMP\_59) = 0 TMP\_60 = 1 not(TMP\_60) = 0 TMP\_61 = 1 not(TMP\_61) = 0 TMP\_62 = 1 not(TMP\_62) = 0 TMP\_63 = 5 TMP\_64 = 0 not(TMP\_64) = 1 TMP\_65 = 0 not(TMP\_65) = 1 TMP\_66 = 0 TMP\_67 = 1 not(TMP\_67) = 0 TMP\_68 = 1 not(TMP\_68) = 0 TMP\_69 = 2 TMP\_70 = 0 not(TMP\_70) = 1 TMP\_71 = 0 not(TMP\_71) = 1 TMP\_72 = 1 not(TMP\_72) = 0 TMP\_73 = 1 not(TMP\_73) = 0 TMP\_74 = 1 not(TMP\_74) = 0 TMP\_75 = 2 TMP\_76 = 1 not(TMP\_76) = 0 TMP\_77 = 0 not(TMP\_77) = 1 TMP\_78 = 1 not(TMP\_78) = 0 TMP\_79 = 1 not(TMP\_79) = 0 TMP\_80 = 1 not(TMP\_80) = 0 TMP\_81 = 1 not(TMP\_81) = 0 TMP\_82 = 5 TMP\_83 = 0 not(TMP\_83) = 1 TMP\_84 = 0 not(TMP\_84) = 1 TMP\_85 = 0 TMP\_86 = 1 not(TMP\_86) = 0 TMP\_87 = 1 not(TMP\_87) = 0 TMP\_88 = 2 TMP\_89 = 0 not(TMP\_89) = 1 TMP\_90 = 0 not(TMP\_90) = 1 TMP\_91 = 1 not(TMP\_91) = 0 TMP\_92 = 1 not(TMP\_92) = 0 TMP\_93 = 1 not(TMP\_93) = 0 TMP\_94 = 2 TMP\_95 = 1 not(TMP\_95) = 0 TMP\_96 = 0 not(TMP\_96) = 1 TMP\_97 = 1 not(TMP\_97) = 0 TMP\_98 = 1 not(TMP\_98) = 0 TMP\_99 = 1 not(TMP\_99) = 0 TMP\_100 = 1 not(TMP\_100) = 0 TMP\_101 = 5 TMP\_102 = 0 not(TMP\_102) = 1 TMP\_103 = 0 not(TMP\_103) = 1 TMP\_104 = 0 TMP\_105 = 1 not(TMP\_105) = 0 TMP\_106 = 1 not(TMP\_106) = 0 TMP\_107 = 2 TMP\_108 = 0 not(TMP\_108) = 1 TMP\_109 = 0 not(TMP\_109) = 1 TMP\_110 = 1 not(TMP\_110) = 0 TMP\_111 = 1 not(TMP\_111) = 0 TMP\_112 = 1 not(TMP\_112) = 0 TMP\_113 = 2 TMP\_114 = 1 not(TMP\_114) = 0 TMP\_115 = 0 not(TMP\_115) = 1 TMP\_116 = 1 not(TMP\_116) = 0 TMP\_117 = 1 not(TMP\_117) = 0 TMP\_118 = 1 not(TMP\_118) = 0 TMP\_119 = 0 not(TMP\_119) = 1 TMP\_120 = 4 TMP\_121 = 0 not(TMP\_121) = 1 TMP\_122 = 0 not(TMP\_122) = 1 TMP\_123 = 0 TMP\_124 = 1 not(TMP\_124) = 0 TMP\_125 = 1 not(TMP\_125) = 0 TMP\_126 = 2 TMP\_127 = 0 not(TMP\_127) = 1 TMP\_128 = 0 not(TMP\_128) = 1 TMP\_129 = 1 not(TMP\_129) = 0 TMP\_130 = 1 not(TMP\_130) = 0 TMP\_131 = 1 not(TMP\_131) = 0 TMP\_132 = 2 TMP\_133 = 1 not(TMP\_133) = 0 TMP\_134 = 1 not(TMP\_134) = 0 TMP\_135 = 1 not(TMP\_135) = 0 TMP\_136 = 1 not(TMP\_136) = 0 TMP\_137 = 1 not(TMP\_137) = 0 TMP\_138 = 0 not(TMP\_138) = 1 TMP\_139 = 5 TMP\_140 = 0 not(TMP\_140) = 1 TMP\_141 = 0 not(TMP\_141) = 1 TMP\_142 = 0 TMP\_143 = 1 not(TMP\_143) = 0 TMP\_144 = 1 not(TMP\_144) = 0 TMP\_145 = 2 TMP\_146 = 0 not(TMP\_146) = 1 TMP\_147 = 0 not(TMP\_147) = 1 TMP\_148 = 1 not(TMP\_148) = 0 TMP\_149 = 1 not(TMP\_149) = 0 TMP\_150 = 1 not(TMP\_150) = 0 TMP\_151 = 2 TMP\_152 = 0 not(TMP\_152) = 1 TMP\_153 = 1 not(TMP\_153) = 0 TMP\_154 = 1 not(TMP\_154) = 0 TMP\_155 = 1 not(TMP\_155) = 0 TMP\_156 = 1 not(TMP\_156) = 0 TMP\_157 = 0 not(TMP\_157) = 1 TMP\_158 = 4 TMP\_159 = 0 not(TMP\_159) = 1 TMP\_160 = 0 not(TMP\_160) = 1 TMP\_161 = 0 TMP\_162 = 1 not(TMP\_162) = 0 TMP\_163 = 1 not(TMP\_163) = 0 TMP\_164 = 2 TMP\_165 = 0 not(TMP\_165) = 1 TMP\_166 = 0 not(TMP\_166) = 1 TMP\_167 = 1 not(TMP\_167) = 0 TMP\_168 = 1 not(TMP\_168) = 0 TMP\_169 = 1 not(TMP\_169) = 0 TMP\_170 = 2 TMP\_171 = 0 not(TMP\_171) = 1 TMP\_172 = 1 not(TMP\_172) = 0 TMP\_173 = 1 not(TMP\_173) = 0 TMP\_174 = 1 not(TMP\_174) = 0 TMP\_175 = 1 not(TMP\_175) = 0 TMP\_176 = 0 not(TMP\_176) = 1 TMP\_177 = 4 TMP\_178 = 0 not(TMP\_178) = 1 TMP\_179 = 0 not(TMP\_179) = 1 TMP\_180 = 0 TMP\_181 = 1 not(TMP\_181) = 0 TMP\_182 = 1 not(TMP\_182) = 0 TMP\_183 = 2 TMP\_184 = 0 not(TMP\_184) = 1 TMP\_185 = 0 not(TMP\_185) = 1 TMP\_186 = 1 not(TMP\_186) = 0 TMP\_187 = 1 not(TMP\_187) = 0 TMP\_188 = 1 not(TMP\_188) = 0 TMP\_189 = 2 TMP\_190 = 0 not(TMP\_190) = 1 TMP\_191 = 1 not(TMP\_191) = 0 TMP\_192 = 1 not(TMP\_192) = 0 TMP\_193 = 1 not(TMP\_193) = 0 TMP\_194 = 1 not(TMP\_194) = 0 TMP\_195 = 1 not(TMP\_195) = 0 TMP\_196 = 5 TMP\_197 = 0 not(TMP\_197) = 1 TMP\_198 = 0 not(TMP\_198) = 1 TMP\_199 = 0 TMP\_200 = 1 not(TMP\_200) = 0 TMP\_201 = 1 not(TMP\_201) = 0 TMP\_202 = 2 TMP\_203 = 0 not(TMP\_203) = 1 TMP\_204 = 0 not(TMP\_204) = 1 TMP\_205 = 1 not(TMP\_205) = 0 TMP\_206 = 1 not(TMP\_206) = 0 TMP\_207 = 1 not(TMP\_207) = 0 TMP\_208 = 2 TMP\_209 = 0 not(TMP\_209) = 1 TMP\_210 = 1 not(TMP\_210) = 0 TMP\_211 = 1 not(TMP\_211) = 0 TMP\_212 = 1 not(TMP\_212) = 0 TMP\_213 = 1 not(TMP\_213) = 0 TMP\_214 = 1 not(TMP\_214) = 0 TMP\_215 = 5 TMP\_216 = 0 not(TMP\_216) = 1 TMP\_217 = 0 not(TMP\_217) = 1 TMP\_218 = 0 TMP\_219 = 1 not(TMP\_219) = 0 TMP\_220 = 1 not(TMP\_220) = 0 TMP\_221 = 2 TMP\_222 = 0 not(TMP\_222) = 1 TMP\_223 = 0 not(TMP\_223) = 1 TMP\_224 = 1 not(TMP\_224) = 0 TMP\_225 = 1 not(TMP\_225) = 0 TMP\_226 = 1 not(TMP\_226) = 0 TMP\_227 = 2 TMP\_228 = 1 not(TMP\_228) = 0 TMP\_229 = 0 not(TMP\_229) = 1 TMP\_230 = 1 not(TMP\_230) = 0 TMP\_231 = 1 not(TMP\_231) = 0 TMP\_232 = 1 not(TMP\_232) = 0 TMP\_233 = 1 not(TMP\_233) = 0 TMP\_234 = 5 TMP\_235 = 0 not(TMP\_235) = 1 TMP\_236 = 0 not(TMP\_236) = 1 TMP\_237 = 0 TMP\_238 = 1 not(TMP\_238) = 0 TMP\_239 = 1 not(TMP\_239) = 0 TMP\_240 = 2 TMP\_241 = 0 not(TMP\_241) = 1 TMP\_242 = 0 not(TMP\_242) = 1 TMP\_243 = 1 not(TMP\_243) = 0 TMP\_244 = 1 not(TMP\_244) = 0 TMP\_245 = 1 not(TMP\_245) = 0 TMP\_246 = 2 TMP\_247 = 0 not(TMP\_247) = 1 TMP\_248 = 1 not(TMP\_248) = 0 TMP\_249 = 1 not(TMP\_249) = 0 TMP\_250 = 1 not(TMP\_250) = 0 TMP\_251 = 1 not(TMP\_251) = 0 TMP\_252 = 1 not(TMP\_252) = 0 TMP\_253 = 5 TMP\_254 = 0 not(TMP\_254) = 1 TMP\_255 = 0 not(TMP\_255) = 1 TMP\_256 = 0 TMP\_257 = 1 not(TMP\_257) = 0 TMP\_258 = 1 not(TMP\_258) = 0 TMP\_259 = 2 TMP\_260 = 0 not(TMP\_260) = 1 TMP\_261 = 0 not(TMP\_261) = 1 TMP\_262 = 1 not(TMP\_262) = 0 TMP\_263 = 1 not(TMP\_263) = 0 TMP\_264 = 1 not(TMP\_264) = 0 TMP\_265 = 2 TMP\_266 = 1 not(TMP\_266) = 0 TMP\_267 = 1 not(TMP\_267) = 0 TMP\_268 = 1 not(TMP\_268) = 0 TMP\_269 = 1 not(TMP\_269) = 0 TMP\_270 = 1 not(TMP\_270) = 0 TMP\_271 = 0 not(TMP\_271) = 1 TMP\_272 = 5 TMP\_273 = 0 not(TMP\_273) = 1 TMP\_274 = 0 not(TMP\_274) = 1 TMP\_275 = 0 TMP\_276 = 1 not(TMP\_276) = 0 TMP\_277 = 1 not(TMP\_277) = 0 TMP\_278 = 2 TMP\_279 = 0 not(TMP\_279) = 1 TMP\_280 = 0 not(TMP\_280) = 1 TMP\_281 = 1 not(TMP\_281) = 0 TMP\_282 = 1 not(TMP\_282) = 0 TMP\_283 = 1 not(TMP\_283) = 0 TMP\_284 = 2 TMP\_285 = 0 not(TMP\_285) = 1 TMP\_286 = 1 not(TMP\_286) = 0 TMP\_287 = 1 not(TMP\_287) = 0 TMP\_288 = 1 not(TMP\_288) = 0 TMP\_289 = 1 not(TMP\_289) = 0 TMP\_290 = 0 not(TMP\_290) = 1 TMP\_291 = 4 TMP\_292 = 0 not(TMP\_292) = 1 TMP\_293 = 0 not(TMP\_293) = 1 TMP\_294 = 0 TMP\_295 = 1 not(TMP\_295) = 0 TMP\_296 = 1 not(TMP\_296) = 0 TMP\_297 = 2 TMP\_298 = 0 not(TMP\_298) = 1 TMP\_299 = 0 not(TMP\_299) = 1 TMP\_300 = 1 not(TMP\_300) = 0 TMP\_301 = 1 not(TMP\_301) = 0 TMP\_302 = 1 not(TMP\_302) = 0 TMP\_303 = 2 TMP\_304 = 0 not(TMP\_304) = 1 TMP\_305 = 1 not(TMP\_305) = 0 TMP\_306 = 1 not(TMP\_306) = 0 TMP\_307 = 1 not(TMP\_307) = 0 TMP\_308 = 1 not(TMP\_308) = 0 TMP\_309 = 1 not(TMP\_309) = 0 TMP\_310 = 5 TMP\_311 = 0 not(TMP\_311) = 1 TMP\_312 = 0 not(TMP\_312) = 1 TMP\_313 = 0 TMP\_314 = 1 not(TMP\_314) = 0 TMP\_315 = 1 not(TMP\_315) = 0 TMP\_316 = 2 TMP\_317 = 0 not(TMP\_317) = 1 TMP\_318 = 0 not(TMP\_318) = 1 TMP\_319 = 1 not(TMP\_319) = 0 TMP\_320 = 1 not(TMP\_320) = 0 TMP\_321 = 1 not(TMP\_321) = 0 TMP\_322 = 2 TMP\_323 = 0 not(TMP\_323) = 1 TMP\_324 = 1 not(TMP\_324) = 0 TMP\_325 = 1 not(TMP\_325) = 0 TMP\_326 = 1 not(TMP\_326) = 0 TMP\_327 = 1 not(TMP\_327) = 0 TMP\_328 = 1 not(TMP\_328) = 0 TMP\_329 = 5 TMP\_330 = 0 not(TMP\_330) = 1 TMP\_331 = 0 not(TMP\_331) = 1 TMP\_332 = 0 TMP\_333 = 1 not(TMP\_333) = 0 TMP\_334 = 1 not(TMP\_334) = 0 TMP\_335 = 2 TMP\_336 = 0 not(TMP\_336) = 1 TMP\_337 = 0 not(TMP\_337) = 1 TMP\_338 = 1 not(TMP\_338) = 0 TMP\_339 = 1 not(TMP\_339) = 0 TMP\_340 = 1 not(TMP\_340) = 0 TMP\_341 = 2 TMP\_342 = 0 not(TMP\_342) = 1 TMP\_343 = 1 not(TMP\_343) = 0 TMP\_344 = 1 not(TMP\_344) = 0 TMP\_345 = 1 not(TMP\_345) = 0 TMP\_346 = 0 not(TMP\_346) = 1 TMP\_347 = 1 not(TMP\_347) = 0 TMP\_348 = 4 TMP\_349 = 0 not(TMP\_349) = 1 TMP\_350 = 0 not(TMP\_350) = 1 TMP\_351 = 0 TMP\_352 = 1 not(TMP\_352) = 0 TMP\_353 = 1 not(TMP\_353) = 0 TMP\_354 = 2 TMP\_355 = 0 not(TMP\_355) = 1 TMP\_356 = 0 not(TMP\_356) = 1 TMP\_357 = 1 not(TMP\_357) = 0 TMP\_358 = 1 not(TMP\_358) = 0 TMP\_359 = 1 not(TMP\_359) = 0 TMP\_360 = 2 TMP\_361 = 0 not(TMP\_361) = 1 TMP\_362 = 1 not(TMP\_362) = 0 TMP\_363 = 1 not(TMP\_363) = 0 TMP\_364 = 1 not(TMP\_364) = 0 TMP\_365 = 0 not(TMP\_365) = 1 TMP\_366 = 1 not(TMP\_366) = 0 TMP\_367 = 4 TMP\_368 = 0 not(TMP\_368) = 1 TMP\_369 = 0 not(TMP\_369) = 1 TMP\_370 = 0 TMP\_371 = 1 not(TMP\_371) = 0 TMP\_372 = 1 not(TMP\_372) = 0 TMP\_373 = 2 TMP\_374 = 0 not(TMP\_374) = 1 TMP\_375 = 0 not(TMP\_375) = 1 TMP\_376 = 1 not(TMP\_376) = 0 TMP\_377 = 1 not(TMP\_377) = 0 TMP\_378 = 1 not(TMP\_378) = 0 TMP\_379 = 2 TMP\_380 = 1 not(TMP\_380) = 0 TMP\_381 = 1 not(TMP\_381) = 0 TMP\_382 = 1 not(TMP\_382) = 0 TMP\_383 = 1 not(TMP\_383) = 0 TMP\_384 = 0 not(TMP\_384) = 1 TMP\_385 = 1 not(TMP\_385) = 0 TMP\_386 = 5 TMP\_387 = 0 not(TMP\_387) = 1 TMP\_388 = 0 not(TMP\_388) = 1 TMP\_389 = 0 TMP\_390 = 1 not(TMP\_390) = 0 TMP\_391 = 1 not(TMP\_391) = 0 TMP\_392 = 2 TMP\_393 = 0 not(TMP\_393) = 1 TMP\_394 = 0 not(TMP\_394) = 1 TMP\_395 = 1 not(TMP\_395) = 0 TMP\_396 = 1 not(TMP\_396) = 0 TMP\_397 = 1 not(TMP\_397) = 0 TMP\_398 = 2 TMP\_399 = 0 not(TMP\_399) = 1 TMP\_400 = 1 not(TMP\_400) = 0 TMP\_401 = 1 not(TMP\_401) = 0 TMP\_402 = 1 not(TMP\_402) = 0 TMP\_403 = 0 not(TMP\_403) = 1 TMP\_404 = 1 not(TMP\_404) = 0 TMP\_405 = 4 TMP\_406 = 0 not(TMP\_406) = 1 TMP\_407 = 0 not(TMP\_407) = 1 TMP\_408 = 0 TMP\_409 = 1 not(TMP\_409) = 0 TMP\_410 = 1 not(TMP\_410) = 0 TMP\_411 = 2 TMP\_412 = 0 not(TMP\_412) = 1 TMP\_413 = 0 not(TMP\_413) = 1 TMP\_414 = 1 not(TMP\_414) = 0 TMP\_415 = 1 not(TMP\_415) = 0 TMP\_416 = 1 not(TMP\_416) = 0 TMP\_417 = 2 TMP\_418 = 1 not(TMP\_418) = 0 TMP\_419 = 1 not(TMP\_419) = 0 TMP\_420 = 1 not(TMP\_420) = 0 TMP\_421 = 1 not(TMP\_421) = 0 TMP\_422 = 0 not(TMP\_422) = 1 TMP\_423 = 1 not(TMP\_423) = 0 TMP\_424 = 5 TMP\_425 = 0 not(TMP\_425) = 1 TMP\_426 = 0 not(TMP\_426) = 1 TMP\_427 = 0 TMP\_428 = 1 not(TMP\_428) = 0 TMP\_429 = 1 not(TMP\_429) = 0 TMP\_430 = 2 TMP\_431 = 0 not(TMP\_431) = 1 TMP\_432 = 0 not(TMP\_432) = 1 TMP\_433 = 1 not(TMP\_433) = 0 TMP\_434 = 1 not(TMP\_434) = 0 TMP\_435 = 1 not(TMP\_435) = 0 TMP\_436 = 2 TMP\_437 = 0 not(TMP\_437) = 1 TMP\_438 = 1 not(TMP\_438) = 0 TMP\_439 = 1 not(TMP\_439) = 0 TMP\_440 = 1 not(TMP\_440) = 0 TMP\_441 = 1 not(TMP\_441) = 0 TMP\_442 = 1 not(TMP\_442) = 0 TMP\_443 = 5 TMP\_444 = 0 not(TMP\_444) = 1 TMP\_445 = 0 not(TMP\_445) = 1 TMP\_446 = 0 TMP\_447 = 1 not(TMP\_447) = 0 TMP\_448 = 1 not(TMP\_448) = 0 TMP\_449 = 2 TMP\_450 = 0 not(TMP\_450) = 1 TMP\_451 = 0 not(TMP\_451) = 1 TMP\_452 = 1 not(TMP\_452) = 0 TMP\_453 = 1 not(TMP\_453) = 0 TMP\_454 = 1 not(TMP\_454) = 0 TMP\_455 = 2 TMP\_456 = 0 not(TMP\_456) = 1 TMP\_457 = 1 not(TMP\_457) = 0 TMP\_458 = 1 not(TMP\_458) = 0 TMP\_459 = 1 not(TMP\_459) = 0 TMP\_460 = 1 not(TMP\_460) = 0 TMP\_461 = 1 not(TMP\_461) = 0 TMP\_462 = 5 TMP\_463 = 0 not(TMP\_463) = 1 TMP\_464 = 0 not(TMP\_464) = 1 TMP\_465 = 0 TMP\_466 = 1 not(TMP\_466) = 0 TMP\_467 = 1 not(TMP\_467) = 0 TMP\_468 = 2 TMP\_469 = 0 not(TMP\_469) = 1 TMP\_470 = 0 not(TMP\_470) = 1 TMP\_471 = 1 not(TMP\_471) = 0 TMP\_472 = 1 not(TMP\_472) = 0 TMP\_473 = 1 not(TMP\_473) = 0 TMP\_474 = 2 TMP\_475 = 1 not(TMP\_475) = 0 TMP\_476 = 0 not(TMP\_476) = 1 TMP\_477 = 1 not(TMP\_477) = 0 TMP\_478 = 1 not(TMP\_478) = 0 TMP\_479 = 1 not(TMP\_479) = 0 TMP\_480 = 1 not(TMP\_480) = 0 TMP\_481 = 5 TMP\_482 = 0 not(TMP\_482) = 1 TMP\_483 = 0 not(TMP\_483) = 1 TMP\_484 = 0 TMP\_485 = 1 not(TMP\_485) = 0 TMP\_486 = 1 not(TMP\_486) = 0 TMP\_487 = 2 TMP\_488 = 0 not(TMP\_488) = 1 TMP\_489 = 0 not(TMP\_489) = 1 TMP\_490 = 1 not(TMP\_490) = 0 TMP\_491 = 1 not(TMP\_491) = 0 TMP\_492 = 1 not(TMP\_492) = 0 TMP\_493 = 2 TMP\_494 = 1 not(TMP\_494) = 0 TMP\_495 = 0 not(TMP\_495) = 1 TMP\_496 = 1 not(TMP\_496) = 0 TMP\_497 = 1 not(TMP\_497) = 0 TMP\_498 = 0 not(TMP\_498) = 1 TMP\_499 = 1 not(TMP\_499) = 0 TMP\_500 = 4 TMP\_501 = 0 not(TMP\_501) = 1 TMP\_502 = 0 not(TMP\_502) = 1 TMP\_503 = 0 TMP\_504 = 1 not(TMP\_504) = 0 TMP\_505 = 1 not(TMP\_505) = 0 TMP\_506 = 2 TMP\_507 = 0 not(TMP\_507) = 1 TMP\_508 = 0 not(TMP\_508) = 1 TMP\_509 = 1 not(TMP\_509) = 0 TMP\_510 = 1 not(TMP\_510) = 0 TMP\_511 = 1 not(TMP\_511) = 0 TMP\_512 = 2 TMP\_513 = 1 not(TMP\_513) = 0 TMP\_514 = 0 not(TMP\_514) = 1 TMP\_515 = 1 not(TMP\_515) = 0 TMP\_516 = 1 not(TMP\_516) = 0 TMP\_517 = 0 not(TMP\_517) = 1 TMP\_518 = 1 not(TMP\_518) = 0 TMP\_519 = 4 TMP\_520 = 0 not(TMP\_520) = 1 TMP\_521 = 0 not(TMP\_521) = 1 TMP\_522 = 0 TMP\_523 = 1 not(TMP\_523) = 0 TMP\_524 = 1 not(TMP\_524) = 0 TMP\_525 = 2 TMP\_526 = 0 not(TMP\_526) = 1 TMP\_527 = 0 not(TMP\_527) = 1 TMP\_528 = 1 not(TMP\_528) = 0 TMP\_529 = 1 not(TMP\_529) = 0 TMP\_530 = 1 not(TMP\_530) = 0 TMP\_531 = 2 TMP\_532 = 1 not(TMP\_532) = 0 TMP\_533 = 0 not(TMP\_533) = 1 TMP\_534 = 1 not(TMP\_534) = 0 TMP\_535 = 1 not(TMP\_535) = 0 TMP\_536 = 0 not(TMP\_536) = 1 TMP\_537 = 1 not(TMP\_537) = 0 TMP\_538 = 4 TMP\_539 = 0 not(TMP\_539) = 1 TMP\_540 = 0 not(TMP\_540) = 1 TMP\_541 = 0 TMP\_542 = 1 not(TMP\_542) = 0 TMP\_543 = 1 not(TMP\_543) = 0 TMP\_544 = 2 TMP\_545 = 0 not(TMP\_545) = 1 TMP\_546 = 0 not(TMP\_546) = 1 TMP\_547 = 1 not(TMP\_547) = 0 TMP\_548 = 1 not(TMP\_548) = 0 TMP\_549 = 1 not(TMP\_549) = 0 TMP\_550 = 2 TMP\_551 = 1 not(TMP\_551) = 0 TMP\_552 = 1 not(TMP\_552) = 0 TMP\_553 = 1 not(TMP\_553) = 0 TMP\_554 = 1 not(TMP\_554) = 0 TMP\_555 = 0 not(TMP\_555) = 1 TMP\_556 = 1 not(TMP\_556) = 0 TMP\_557 = 5 TMP\_558 = 0 not(TMP\_558) = 1 TMP\_559 = 0 not(TMP\_559) = 1 TMP\_560 = 0 TMP\_561 = 1 not(TMP\_561) = 0 TMP\_562 = 1 not(TMP\_562) = 0 TMP\_563 = 2 TMP\_564 = 0 not(TMP\_564) = 1 TMP\_565 = 0 not(TMP\_565) = 1 TMP\_566 = 1 not(TMP\_566) = 0 TMP\_567 = 1 not(TMP\_567) = 0 TMP\_568 = 1 not(TMP\_568) = 0 TMP\_569 = 2 TMP\_570 = 1 not(TMP\_570) = 0 TMP\_571 = 0 not(TMP\_571) = 1 TMP\_572 = 1 not(TMP\_572) = 0 TMP\_573 = 1 not(TMP\_573) = 0 TMP\_574 = 0 not(TMP\_574) = 1 TMP\_575 = 1 not(TMP\_575) = 0 TMP\_576 = 4 TMP\_577 = 0 not(TMP\_577) = 1 TMP\_578 = 0 not(TMP\_578) = 1 TMP\_579 = 0 TMP\_580 = 1 not(TMP\_580) = 0 TMP\_581 = 1 not(TMP\_581) = 0 TMP\_582 = 2 TMP\_583 = 0 not(TMP\_583) = 1 TMP\_584 = 0 not(TMP\_584) = 1 TMP\_585 = 1 not(TMP\_585) = 0 TMP\_586 = 1 not(TMP\_586) = 0 TMP\_587 = 1 not(TMP\_587) = 0 TMP\_588 = 2 TMP\_589 = 1 not(TMP\_589) = 0 TMP\_590 = 0 not(TMP\_590) = 1 TMP\_591 = 1 not(TMP\_591) = 0 TMP\_592 = 1 not(TMP\_592) = 0 TMP\_593 = 1 not(TMP\_593) = 0 TMP\_594 = 1 not(TMP\_594) = 0 TMP\_595 = 5 TMP\_596 = 0 not(TMP\_596) = 1 TMP\_597 = 0 not(TMP\_597) = 1 TMP\_598 = 0 TMP\_599 = 1 not(TMP\_599) = 0 TMP\_600 = 1 not(TMP\_600) = 0 TMP\_601 = 2 TMP\_602 = 0 not(TMP\_602) = 1 TMP\_603 = 0 not(TMP\_603) = 1 TMP\_604 = 1 not(TMP\_604) = 0 TMP\_605 = 1 not(TMP\_605) = 0 TMP\_606 = 1 not(TMP\_606) = 0 TMP\_607 = 2 Area\_0 = 60 Distance\_0\_Rule\_0 = 20 Distance\_1\_Rule\_0 = 3 Distance\_2\_Rule\_0 = 1 Area\_1 = 174 Distance\_0\_Rule\_1 = 58 Distance\_1\_Rule\_1 = 3 Distance\_2\_Rule\_1 = 1 Area\_2 = 116 Distance\_0\_Rule\_2 = 58 Distance\_1\_Rule\_2 = 2 Distance\_2\_Rule\_2 = 1 Area\_3 = 58 Distance\_0\_Rule\_3 = 58 Distance\_1\_Rule\_3 = 1 Distance\_2\_Rule\_3 = 1 Area\_4 = 120 Distance\_0\_Rule\_4 = 40 Distance\_1\_Rule\_4 = 3 Distance\_2\_Rule\_4 = 1 Area\_5 = 63 -(Rule\_5\_LB) = 0 Distance\_0\_Rule\_5 = 21 -(Rule\_5\_LB) = 0 Distance\_1\_Rule\_5 = 3 -(Rule\_5\_LB) = 0 Distance\_2\_Rule\_5 = 1 Area\_6 = 3 -(Rule\_6\_LB) = -79 Distance\_0\_Rule\_6 = 1 -(Rule\_6\_LB) = 0 Distance\_1\_Rule\_6 = 3 -(Rule\_6\_LB) = 0 Distance\_2\_Rule\_6 = 1 Area\_7 = 123 -(Rule\_7\_LB) = -79 Distance\_0\_Rule\_7 = 41 -(Rule\_7\_LB) = 0 Distance\_1\_Rule\_7 = 3 -(Rule\_7\_LB) = -1 Distance\_2\_Rule\_7 = 1 Area\_8 = 3 -(Rule\_8\_LB) = -20 Distance\_0\_Rule\_8 = 1 -(Rule\_8\_LB) = 0 Distance\_1\_Rule\_8 = 3 -(Rule\_8\_LB) = -1 Distance\_2\_Rule\_8 = 1 TMP\_608 = 720 .

- Solution #3 found. 3 Solutions, Resolution 0.978s, 2291 Nodes (2,343.7 n/s), 4517 Backtracks, 2261 Fails, 0 Restarts

Rule\_5\_LB = 0 Rule\_5\_UB = 21 Rule\_5\_LB = 0 Rule\_5\_UB = 3 Rule\_5\_LB = 0 Rule\_5\_UB = 1 Rule\_6\_LB = 79 Rule\_6\_UB = 80 Rule\_6\_LB = 0 Rule\_6\_UB = 3 Rule\_6\_LB = 0 Rule\_6\_UB = 1 Rule\_7\_LB = 79 Rule\_7\_UB = 120 Rule\_7\_LB = 0 Rule\_7\_UB = 3 Rule\_7\_LB = 1 Rule\_7\_UB = 2 Rule\_8\_LB = 20 Rule\_8\_UB = 21 Rule\_8\_LB = 0 Rule\_8\_UB = 3 Rule\_8\_LB = 1 Rule\_8\_UB = 2 Overlaps\_0\_0 = 0 Overlaps\_0\_1 = 0 Overlaps\_0\_2 = 0 Overlaps\_0\_3 = 0 Overlaps\_0\_4 = 0 Overlaps\_0\_5 = 0 Overlaps\_0\_6 = 0 Overlaps\_0\_7 = 0 Overlaps\_0\_8 = 0 Overlaps\_1\_0 = 0 Overlaps\_1\_1 = 0 Overlaps\_1\_2 = 0 Overlaps\_1\_3 = 0 Overlaps\_1\_4 = 0 Overlaps\_1\_5 = 0 Overlaps\_1\_6 = 0 Overlaps\_1\_7 = 0 Overlaps\_1\_8 = 0 Overlaps\_2\_0 = 0 Overlaps\_2\_1 = 0 Overlaps\_2\_2 = 0 Overlaps\_2\_3 = 0 Overlaps\_2\_4 = 0 Overlaps\_2\_5 = 0 Overlaps\_2\_6 = 0 Overlaps\_2\_7 = 0 Overlaps\_2\_8 = 0 Overlaps\_3\_0 = 0 Overlaps\_3\_1 = 1 Overlaps\_3\_2 = 0 Overlaps\_3\_3 = 0 Overlaps\_3\_4 = 0 Overlaps\_3\_5 = 0 Overlaps\_3\_6 = 0 Overlaps\_3\_7 = 0 Overlaps\_3\_8 = 0 Overlaps\_4\_0 = 0 Overlaps\_4\_1 = 0 Overlaps\_4\_2 = 0 Overlaps\_4\_3 = 0 Overlaps\_4\_4 = 0 Overlaps\_4\_5 = 0 Overlaps\_4\_6 = 0 Overlaps\_4\_7 = 0 Overlaps\_4\_8 = 0 Overlaps\_5\_0 = 0 Overlaps\_5\_1 = 0 Overlaps\_5\_2 = 0 Overlaps\_5\_3 = 0 Overlaps\_5\_4 = 0 Overlaps\_5\_5 = 0 Overlaps\_5\_6 = 0 Overlaps\_5\_7 = 0 Overlaps\_5\_8 = 0 Overlaps\_6\_0 = 0 Overlaps\_6\_1 = 0 Overlaps\_6\_2 = 0 Overlaps\_6\_3 = 0 Overlaps\_6\_4 = 0 Overlaps\_6\_5 = 0 Overlaps\_6\_6 = 0 Overlaps\_6\_7 = 0 Overlaps\_6\_8 = 0 Overlaps\_7\_0 = 0 Overlaps\_7\_1 = 0 Overlaps\_7\_2 = 0 Overlaps\_7\_3 = 0 Overlaps\_7\_4 = 0 Overlaps\_7\_5 = 0 Overlaps\_7\_6 = 0 Overlaps\_7\_7 = 0 Overlaps\_7\_8 = 0 Overlaps\_8\_0 = 0 Overlaps\_8\_1 = 0 Overlaps\_8\_2 = 0 Overlaps\_8\_3 = 0 Overlaps\_8\_4 = 0 Overlaps\_8\_5 = 0 Overlaps\_8\_6 = 0 Overlaps\_8\_7 = 0 Overlaps\_8\_8 = 0 TMP\_0 = 1 not(TMP\_0) = 0 TMP\_1 = 1 not(TMP\_1) = 0 TMP\_2 = 1 not(TMP\_2) = 0 TMP\_3 = 1 not(TMP\_3) = 0 TMP\_4 = 1 not(TMP\_4) = 0 TMP\_5 = 0 not(TMP\_5) = 1 TMP\_6 = 5 TMP\_7 = 0 not(TMP\_7) = 1 TMP\_8 = 0 not(TMP\_8) = 1 TMP\_9 = 0 TMP\_10 = 1 not(TMP\_10) = 0 TMP\_11 = 1 not(TMP\_11) = 0 TMP\_12 = 2 TMP\_13 = 0 not(TMP\_13) = 1 TMP\_14 = 0 not(TMP\_14) = 1 TMP\_15 = 1 not(TMP\_15) = 0 TMP\_16 = 1 not(TMP\_16) = 0 TMP\_17 = 1 not(TMP\_17) = 0 TMP\_18 = 2 TMP\_19 = 1 not(TMP\_19) = 0 TMP\_20 = 0 not(TMP\_20) = 1 TMP\_21 = 1 not(TMP\_21) = 0 TMP\_22 = 1 not(TMP\_22) = 0 TMP\_23 = 1 not(TMP\_23) = 0 TMP\_24 = 0 not(TMP\_24) = 1 TMP\_25 = 4 TMP\_26 = 0 not(TMP\_26) = 1 TMP\_27 = 0 not(TMP\_27) = 1 TMP\_28 = 0 TMP\_29 = 1 not(TMP\_29) = 0 TMP\_30 = 1 not(TMP\_30) = 0 TMP\_31 = 2 TMP\_32 = 0 not(TMP\_32) = 1 TMP\_33 = 0 not(TMP\_33) = 1 TMP\_34 = 1 not(TMP\_34) = 0 TMP\_35 = 1 not(TMP\_35) = 0 TMP\_36 = 1 not(TMP\_36) = 0 TMP\_37 = 2 TMP\_38 = 1 not(TMP\_38) = 0 TMP\_39 = 0 not(TMP\_39) = 1 TMP\_40 = 1 not(TMP\_40) = 0 TMP\_41 = 1 not(TMP\_41) = 0 TMP\_42 = 1 not(TMP\_42) = 0 TMP\_43 = 1 not(TMP\_43) = 0 TMP\_44 = 5 TMP\_45 = 0 not(TMP\_45) = 1 TMP\_46 = 0 not(TMP\_46) = 1 TMP\_47 = 0 TMP\_48 = 1 not(TMP\_48) = 0 TMP\_49 = 1 not(TMP\_49) = 0 TMP\_50 = 2 TMP\_51 = 0 not(TMP\_51) = 1 TMP\_52 = 0 not(TMP\_52) = 1 TMP\_53 = 1 not(TMP\_53) = 0 TMP\_54 = 1 not(TMP\_54) = 0 TMP\_55 = 1 not(TMP\_55) = 0 TMP\_56 = 2 TMP\_57 = 1 not(TMP\_57) = 0 TMP\_58 = 0 not(TMP\_58) = 1 TMP\_59 = 1 not(TMP\_59) = 0 TMP\_60 = 1 not(TMP\_60) = 0 TMP\_61 = 1 not(TMP\_61) = 0 TMP\_62 = 1 not(TMP\_62) = 0 TMP\_63 = 5 TMP\_64 = 0 not(TMP\_64) = 1 TMP\_65 = 0 not(TMP\_65) = 1 TMP\_66 = 0 TMP\_67 = 1 not(TMP\_67) = 0 TMP\_68 = 1 not(TMP\_68) = 0 TMP\_69 = 2 TMP\_70 = 0 not(TMP\_70) = 1 TMP\_71 = 0 not(TMP\_71) = 1 TMP\_72 = 1 not(TMP\_72) = 0 TMP\_73 = 1 not(TMP\_73) = 0 TMP\_74 = 1 not(TMP\_74) = 0 TMP\_75 = 2 TMP\_76 = 1 not(TMP\_76) = 0 TMP\_77 = 0 not(TMP\_77) = 1 TMP\_78 = 1 not(TMP\_78) = 0 TMP\_79 = 1 not(TMP\_79) = 0 TMP\_80 = 1 not(TMP\_80) = 0 TMP\_81 = 1 not(TMP\_81) = 0 TMP\_82 = 5 TMP\_83 = 0 not(TMP\_83) = 1 TMP\_84 = 0 not(TMP\_84) = 1 TMP\_85 = 0 TMP\_86 = 1 not(TMP\_86) = 0 TMP\_87 = 1 not(TMP\_87) = 0 TMP\_88 = 2 TMP\_89 = 0 not(TMP\_89) = 1 TMP\_90 = 0 not(TMP\_90) = 1 TMP\_91 = 1 not(TMP\_91) = 0 TMP\_92 = 1 not(TMP\_92) = 0 TMP\_93 = 1 not(TMP\_93) = 0 TMP\_94 = 2 TMP\_95 = 1 not(TMP\_95) = 0 TMP\_96 = 0 not(TMP\_96) = 1 TMP\_97 = 1 not(TMP\_97) = 0 TMP\_98 = 1 not(TMP\_98) = 0 TMP\_99 = 1 not(TMP\_99) = 0 TMP\_100 = 1 not(TMP\_100) = 0 TMP\_101 = 5 TMP\_102 = 0 not(TMP\_102) = 1 TMP\_103 = 0 not(TMP\_103) = 1 TMP\_104 = 0 TMP\_105 = 1 not(TMP\_105) = 0 TMP\_106 = 1 not(TMP\_106) = 0 TMP\_107 = 2 TMP\_108 = 0 not(TMP\_108) = 1 TMP\_109 = 0 not(TMP\_109) = 1 TMP\_110 = 1 not(TMP\_110) = 0 TMP\_111 = 1 not(TMP\_111) = 0 TMP\_112 = 1 not(TMP\_112) = 0 TMP\_113 = 2 TMP\_114 = 1 not(TMP\_114) = 0 TMP\_115 = 0 not(TMP\_115) = 1 TMP\_116 = 1 not(TMP\_116) = 0 TMP\_117 = 1 not(TMP\_117) = 0 TMP\_118 = 1 not(TMP\_118) = 0 TMP\_119 = 0 not(TMP\_119) = 1 TMP\_120 = 4 TMP\_121 = 0 not(TMP\_121) = 1 TMP\_122 = 0 not(TMP\_122) = 1 TMP\_123 = 0 TMP\_124 = 1 not(TMP\_124) = 0 TMP\_125 = 1 not(TMP\_125) = 0 TMP\_126 = 2 TMP\_127 = 0 not(TMP\_127) = 1 TMP\_128 = 0 not(TMP\_128) = 1 TMP\_129 = 1 not(TMP\_129) = 0 TMP\_130 = 1 not(TMP\_130) = 0 TMP\_131 = 1 not(TMP\_131) = 0 TMP\_132 = 2 TMP\_133 = 1 not(TMP\_133) = 0 TMP\_134 = 1 not(TMP\_134) = 0 TMP\_135 = 1 not(TMP\_135) = 0 TMP\_136 = 1 not(TMP\_136) = 0 TMP\_137 = 1 not(TMP\_137) = 0 TMP\_138 = 0 not(TMP\_138) = 1 TMP\_139 = 5 TMP\_140 = 0 not(TMP\_140) = 1 TMP\_141 = 0 not(TMP\_141) = 1 TMP\_142 = 0 TMP\_143 = 1 not(TMP\_143) = 0 TMP\_144 = 1 not(TMP\_144) = 0 TMP\_145 = 2 TMP\_146 = 0 not(TMP\_146) = 1 TMP\_147 = 0 not(TMP\_147) = 1 TMP\_148 = 1 not(TMP\_148) = 0 TMP\_149 = 1 not(TMP\_149) = 0 TMP\_150 = 1 not(TMP\_150) = 0 TMP\_151 = 2 TMP\_152 = 0 not(TMP\_152) = 1 TMP\_153 = 1 not(TMP\_153) = 0 TMP\_154 = 1 not(TMP\_154) = 0 TMP\_155 = 1 not(TMP\_155) = 0 TMP\_156 = 1 not(TMP\_156) = 0 TMP\_157 = 0 not(TMP\_157) = 1 TMP\_158 = 4 TMP\_159 = 0 not(TMP\_159) = 1 TMP\_160 = 0 not(TMP\_160) = 1 TMP\_161 = 0 TMP\_162 = 1 not(TMP\_162) = 0 TMP\_163 = 1 not(TMP\_163) = 0 TMP\_164 = 2 TMP\_165 = 0 not(TMP\_165) = 1 TMP\_166 = 0 not(TMP\_166) = 1 TMP\_167 = 1 not(TMP\_167) = 0 TMP\_168 = 1 not(TMP\_168) = 0 TMP\_169 = 1 not(TMP\_169) = 0 TMP\_170 = 2 TMP\_171 = 0 not(TMP\_171) = 1 TMP\_172 = 1 not(TMP\_172) = 0 TMP\_173 = 1 not(TMP\_173) = 0 TMP\_174 = 1 not(TMP\_174) = 0 TMP\_175 = 1 not(TMP\_175) = 0 TMP\_176 = 0 not(TMP\_176) = 1 TMP\_177 = 4 TMP\_178 = 0 not(TMP\_178) = 1 TMP\_179 = 0 not(TMP\_179) = 1 TMP\_180 = 0 TMP\_181 = 1 not(TMP\_181) = 0 TMP\_182 = 1 not(TMP\_182) = 0 TMP\_183 = 2 TMP\_184 = 0 not(TMP\_184) = 1 TMP\_185 = 0 not(TMP\_185) = 1 TMP\_186 = 1 not(TMP\_186) = 0 TMP\_187 = 1 not(TMP\_187) = 0 TMP\_188 = 1 not(TMP\_188) = 0 TMP\_189 = 2 TMP\_190 = 0 not(TMP\_190) = 1 TMP\_191 = 1 not(TMP\_191) = 0 TMP\_192 = 1 not(TMP\_192) = 0 TMP\_193 = 1 not(TMP\_193) = 0 TMP\_194 = 1 not(TMP\_194) = 0 TMP\_195 = 1 not(TMP\_195) = 0 TMP\_196 = 5 TMP\_197 = 0 not(TMP\_197) = 1 TMP\_198 = 0 not(TMP\_198) = 1 TMP\_199 = 0 TMP\_200 = 1 not(TMP\_200) = 0 TMP\_201 = 1 not(TMP\_201) = 0 TMP\_202 = 2 TMP\_203 = 0 not(TMP\_203) = 1 TMP\_204 = 0 not(TMP\_204) = 1 TMP\_205 = 1 not(TMP\_205) = 0 TMP\_206 = 1 not(TMP\_206) = 0 TMP\_207 = 1 not(TMP\_207) = 0 TMP\_208 = 2 TMP\_209 = 0 not(TMP\_209) = 1 TMP\_210 = 1 not(TMP\_210) = 0 TMP\_211 = 1 not(TMP\_211) = 0 TMP\_212 = 1 not(TMP\_212) = 0 TMP\_213 = 1 not(TMP\_213) = 0 TMP\_214 = 1 not(TMP\_214) = 0 TMP\_215 = 5 TMP\_216 = 0 not(TMP\_216) = 1 TMP\_217 = 0 not(TMP\_217) = 1 TMP\_218 = 0 TMP\_219 = 1 not(TMP\_219) = 0 TMP\_220 = 1 not(TMP\_220) = 0 TMP\_221 = 2 TMP\_222 = 0 not(TMP\_222) = 1 TMP\_223 = 0 not(TMP\_223) = 1 TMP\_224 = 1 not(TMP\_224) = 0 TMP\_225 = 1 not(TMP\_225) = 0 TMP\_226 = 1 not(TMP\_226) = 0 TMP\_227 = 2 TMP\_228 = 1 not(TMP\_228) = 0 TMP\_229 = 0 not(TMP\_229) = 1 TMP\_230 = 1 not(TMP\_230) = 0 TMP\_231 = 1 not(TMP\_231) = 0 TMP\_232 = 1 not(TMP\_232) = 0 TMP\_233 = 1 not(TMP\_233) = 0 TMP\_234 = 5 TMP\_235 = 0 not(TMP\_235) = 1 TMP\_236 = 0 not(TMP\_236) = 1 TMP\_237 = 0 TMP\_238 = 1 not(TMP\_238) = 0 TMP\_239 = 1 not(TMP\_239) = 0 TMP\_240 = 2 TMP\_241 = 0 not(TMP\_241) = 1 TMP\_242 = 0 not(TMP\_242) = 1 TMP\_243 = 1 not(TMP\_243) = 0 TMP\_244 = 1 not(TMP\_244) = 0 TMP\_245 = 1 not(TMP\_245) = 0 TMP\_246 = 2 TMP\_247 = 0 not(TMP\_247) = 1 TMP\_248 = 1 not(TMP\_248) = 0 TMP\_249 = 1 not(TMP\_249) = 0 TMP\_250 = 1 not(TMP\_250) = 0 TMP\_251 = 1 not(TMP\_251) = 0 TMP\_252 = 1 not(TMP\_252) = 0 TMP\_253 = 5 TMP\_254 = 0 not(TMP\_254) = 1 TMP\_255 = 0 not(TMP\_255) = 1 TMP\_256 = 0 TMP\_257 = 1 not(TMP\_257) = 0 TMP\_258 = 1 not(TMP\_258) = 0 TMP\_259 = 2 TMP\_260 = 0 not(TMP\_260) = 1 TMP\_261 = 0 not(TMP\_261) = 1 TMP\_262 = 1 not(TMP\_262) = 0 TMP\_263 = 1 not(TMP\_263) = 0 TMP\_264 = 1 not(TMP\_264) = 0 TMP\_265 = 2 TMP\_266 = 1 not(TMP\_266) = 0 TMP\_267 = 1 not(TMP\_267) = 0 TMP\_268 = 1 not(TMP\_268) = 0 TMP\_269 = 1 not(TMP\_269) = 0 TMP\_270 = 1 not(TMP\_270) = 0 TMP\_271 = 0 not(TMP\_271) = 1 TMP\_272 = 5 TMP\_273 = 0 not(TMP\_273) = 1 TMP\_274 = 0 not(TMP\_274) = 1 TMP\_275 = 0 TMP\_276 = 1 not(TMP\_276) = 0 TMP\_277 = 1 not(TMP\_277) = 0 TMP\_278 = 2 TMP\_279 = 0 not(TMP\_279) = 1 TMP\_280 = 0 not(TMP\_280) = 1 TMP\_281 = 1 not(TMP\_281) = 0 TMP\_282 = 1 not(TMP\_282) = 0 TMP\_283 = 1 not(TMP\_283) = 0 TMP\_284 = 2 TMP\_285 = 0 not(TMP\_285) = 1 TMP\_286 = 1 not(TMP\_286) = 0 TMP\_287 = 1 not(TMP\_287) = 0 TMP\_288 = 1 not(TMP\_288) = 0 TMP\_289 = 1 not(TMP\_289) = 0 TMP\_290 = 0 not(TMP\_290) = 1 TMP\_291 = 4 TMP\_292 = 0 not(TMP\_292) = 1 TMP\_293 = 0 not(TMP\_293) = 1 TMP\_294 = 0 TMP\_295 = 1 not(TMP\_295) = 0 TMP\_296 = 1 not(TMP\_296) = 0 TMP\_297 = 2 TMP\_298 = 0 not(TMP\_298) = 1 TMP\_299 = 0 not(TMP\_299) = 1 TMP\_300 = 1 not(TMP\_300) = 0 TMP\_301 = 1 not(TMP\_301) = 0 TMP\_302 = 1 not(TMP\_302) = 0 TMP\_303 = 2 TMP\_304 = 0 not(TMP\_304) = 1 TMP\_305 = 1 not(TMP\_305) = 0 TMP\_306 = 1 not(TMP\_306) = 0 TMP\_307 = 1 not(TMP\_307) = 0 TMP\_308 = 1 not(TMP\_308) = 0 TMP\_309 = 1 not(TMP\_309) = 0 TMP\_310 = 5 TMP\_311 = 0 not(TMP\_311) = 1 TMP\_312 = 0 not(TMP\_312) = 1 TMP\_313 = 0 TMP\_314 = 1 not(TMP\_314) = 0 TMP\_315 = 1 not(TMP\_315) = 0 TMP\_316 = 2 TMP\_317 = 0 not(TMP\_317) = 1 TMP\_318 = 0 not(TMP\_318) = 1 TMP\_319 = 1 not(TMP\_319) = 0 TMP\_320 = 1 not(TMP\_320) = 0 TMP\_321 = 1 not(TMP\_321) = 0 TMP\_322 = 2 TMP\_323 = 0 not(TMP\_323) = 1 TMP\_324 = 1 not(TMP\_324) = 0 TMP\_325 = 1 not(TMP\_325) = 0 TMP\_326 = 1 not(TMP\_326) = 0 TMP\_327 = 1 not(TMP\_327) = 0 TMP\_328 = 1 not(TMP\_328) = 0 TMP\_329 = 5 TMP\_330 = 0 not(TMP\_330) = 1 TMP\_331 = 0 not(TMP\_331) = 1 TMP\_332 = 0 TMP\_333 = 1 not(TMP\_333) = 0 TMP\_334 = 1 not(TMP\_334) = 0 TMP\_335 = 2 TMP\_336 = 0 not(TMP\_336) = 1 TMP\_337 = 0 not(TMP\_337) = 1 TMP\_338 = 1 not(TMP\_338) = 0 TMP\_339 = 1 not(TMP\_339) = 0 TMP\_340 = 1 not(TMP\_340) = 0 TMP\_341 = 2 TMP\_342 = 0 not(TMP\_342) = 1 TMP\_343 = 1 not(TMP\_343) = 0 TMP\_344 = 1 not(TMP\_344) = 0 TMP\_345 = 1 not(TMP\_345) = 0 TMP\_346 = 0 not(TMP\_346) = 1 TMP\_347 = 1 not(TMP\_347) = 0 TMP\_348 = 4 TMP\_349 = 0 not(TMP\_349) = 1 TMP\_350 = 0 not(TMP\_350) = 1 TMP\_351 = 0 TMP\_352 = 1 not(TMP\_352) = 0 TMP\_353 = 1 not(TMP\_353) = 0 TMP\_354 = 2 TMP\_355 = 0 not(TMP\_355) = 1 TMP\_356 = 0 not(TMP\_356) = 1 TMP\_357 = 1 not(TMP\_357) = 0 TMP\_358 = 1 not(TMP\_358) = 0 TMP\_359 = 1 not(TMP\_359) = 0 TMP\_360 = 2 TMP\_361 = 0 not(TMP\_361) = 1 TMP\_362 = 1 not(TMP\_362) = 0 TMP\_363 = 1 not(TMP\_363) = 0 TMP\_364 = 1 not(TMP\_364) = 0 TMP\_365 = 0 not(TMP\_365) = 1 TMP\_366 = 1 not(TMP\_366) = 0 TMP\_367 = 4 TMP\_368 = 0 not(TMP\_368) = 1 TMP\_369 = 0 not(TMP\_369) = 1 TMP\_370 = 0 TMP\_371 = 1 not(TMP\_371) = 0 TMP\_372 = 1 not(TMP\_372) = 0 TMP\_373 = 2 TMP\_374 = 0 not(TMP\_374) = 1 TMP\_375 = 0 not(TMP\_375) = 1 TMP\_376 = 1 not(TMP\_376) = 0 TMP\_377 = 1 not(TMP\_377) = 0 TMP\_378 = 1 not(TMP\_378) = 0 TMP\_379 = 2 TMP\_380 = 1 not(TMP\_380) = 0 TMP\_381 = 1 not(TMP\_381) = 0 TMP\_382 = 1 not(TMP\_382) = 0 TMP\_383 = 1 not(TMP\_383) = 0 TMP\_384 = 0 not(TMP\_384) = 1 TMP\_385 = 1 not(TMP\_385) = 0 TMP\_386 = 5 TMP\_387 = 0 not(TMP\_387) = 1 TMP\_388 = 0 not(TMP\_388) = 1 TMP\_389 = 0 TMP\_390 = 1 not(TMP\_390) = 0 TMP\_391 = 1 not(TMP\_391) = 0 TMP\_392 = 2 TMP\_393 = 0 not(TMP\_393) = 1 TMP\_394 = 0 not(TMP\_394) = 1 TMP\_395 = 1 not(TMP\_395) = 0 TMP\_396 = 1 not(TMP\_396) = 0 TMP\_397 = 1 not(TMP\_397) = 0 TMP\_398 = 2 TMP\_399 = 0 not(TMP\_399) = 1 TMP\_400 = 1 not(TMP\_400) = 0 TMP\_401 = 1 not(TMP\_401) = 0 TMP\_402 = 1 not(TMP\_402) = 0 TMP\_403 = 0 not(TMP\_403) = 1 TMP\_404 = 1 not(TMP\_404) = 0 TMP\_405 = 4 TMP\_406 = 0 not(TMP\_406) = 1 TMP\_407 = 0 not(TMP\_407) = 1 TMP\_408 = 0 TMP\_409 = 1 not(TMP\_409) = 0 TMP\_410 = 1 not(TMP\_410) = 0 TMP\_411 = 2 TMP\_412 = 0 not(TMP\_412) = 1 TMP\_413 = 0 not(TMP\_413) = 1 TMP\_414 = 1 not(TMP\_414) = 0 TMP\_415 = 1 not(TMP\_415) = 0 TMP\_416 = 1 not(TMP\_416) = 0 TMP\_417 = 2 TMP\_418 = 1 not(TMP\_418) = 0 TMP\_419 = 1 not(TMP\_419) = 0 TMP\_420 = 1 not(TMP\_420) = 0 TMP\_421 = 1 not(TMP\_421) = 0 TMP\_422 = 0 not(TMP\_422) = 1 TMP\_423 = 1 not(TMP\_423) = 0 TMP\_424 = 5 TMP\_425 = 0 not(TMP\_425) = 1 TMP\_426 = 0 not(TMP\_426) = 1 TMP\_427 = 0 TMP\_428 = 1 not(TMP\_428) = 0 TMP\_429 = 1 not(TMP\_429) = 0 TMP\_430 = 2 TMP\_431 = 0 not(TMP\_431) = 1 TMP\_432 = 0 not(TMP\_432) = 1 TMP\_433 = 1 not(TMP\_433) = 0 TMP\_434 = 1 not(TMP\_434) = 0 TMP\_435 = 1 not(TMP\_435) = 0 TMP\_436 = 2 TMP\_437 = 0 not(TMP\_437) = 1 TMP\_438 = 1 not(TMP\_438) = 0 TMP\_439 = 1 not(TMP\_439) = 0 TMP\_440 = 1 not(TMP\_440) = 0 TMP\_441 = 1 not(TMP\_441) = 0 TMP\_442 = 1 not(TMP\_442) = 0 TMP\_443 = 5 TMP\_444 = 0 not(TMP\_444) = 1 TMP\_445 = 0 not(TMP\_445) = 1 TMP\_446 = 0 TMP\_447 = 1 not(TMP\_447) = 0 TMP\_448 = 1 not(TMP\_448) = 0 TMP\_449 = 2 TMP\_450 = 0 not(TMP\_450) = 1 TMP\_451 = 0 not(TMP\_451) = 1 TMP\_452 = 1 not(TMP\_452) = 0 TMP\_453 = 1 not(TMP\_453) = 0 TMP\_454 = 1 not(TMP\_454) = 0 TMP\_455 = 2 TMP\_456 = 0 not(TMP\_456) = 1 TMP\_457 = 1 not(TMP\_457) = 0 TMP\_458 = 1 not(TMP\_458) = 0 TMP\_459 = 1 not(TMP\_459) = 0 TMP\_460 = 1 not(TMP\_460) = 0 TMP\_461 = 1 not(TMP\_461) = 0 TMP\_462 = 5 TMP\_463 = 0 not(TMP\_463) = 1 TMP\_464 = 0 not(TMP\_464) = 1 TMP\_465 = 0 TMP\_466 = 1 not(TMP\_466) = 0 TMP\_467 = 1 not(TMP\_467) = 0 TMP\_468 = 2 TMP\_469 = 0 not(TMP\_469) = 1 TMP\_470 = 0 not(TMP\_470) = 1 TMP\_471 = 1 not(TMP\_471) = 0 TMP\_472 = 1 not(TMP\_472) = 0 TMP\_473 = 1 not(TMP\_473) = 0 TMP\_474 = 2 TMP\_475 = 1 not(TMP\_475) = 0 TMP\_476 = 0 not(TMP\_476) = 1 TMP\_477 = 1 not(TMP\_477) = 0 TMP\_478 = 1 not(TMP\_478) = 0 TMP\_479 = 1 not(TMP\_479) = 0 TMP\_480 = 1 not(TMP\_480) = 0 TMP\_481 = 5 TMP\_482 = 0 not(TMP\_482) = 1 TMP\_483 = 0 not(TMP\_483) = 1 TMP\_484 = 0 TMP\_485 = 1 not(TMP\_485) = 0 TMP\_486 = 1 not(TMP\_486) = 0 TMP\_487 = 2 TMP\_488 = 0 not(TMP\_488) = 1 TMP\_489 = 0 not(TMP\_489) = 1 TMP\_490 = 1 not(TMP\_490) = 0 TMP\_491 = 1 not(TMP\_491) = 0 TMP\_492 = 1 not(TMP\_492) = 0 TMP\_493 = 2 TMP\_494 = 1 not(TMP\_494) = 0 TMP\_495 = 0 not(TMP\_495) = 1 TMP\_496 = 1 not(TMP\_496) = 0 TMP\_497 = 1 not(TMP\_497) = 0 TMP\_498 = 0 not(TMP\_498) = 1 TMP\_499 = 1 not(TMP\_499) = 0 TMP\_500 = 4 TMP\_501 = 0 not(TMP\_501) = 1 TMP\_502 = 0 not(TMP\_502) = 1 TMP\_503 = 0 TMP\_504 = 1 not(TMP\_504) = 0 TMP\_505 = 1 not(TMP\_505) = 0 TMP\_506 = 2 TMP\_507 = 0 not(TMP\_507) = 1 TMP\_508 = 0 not(TMP\_508) = 1 TMP\_509 = 1 not(TMP\_509) = 0 TMP\_510 = 1 not(TMP\_510) = 0 TMP\_511 = 1 not(TMP\_511) = 0 TMP\_512 = 2 TMP\_513 = 1 not(TMP\_513) = 0 TMP\_514 = 0 not(TMP\_514) = 1 TMP\_515 = 1 not(TMP\_515) = 0 TMP\_516 = 1 not(TMP\_516) = 0 TMP\_517 = 0 not(TMP\_517) = 1 TMP\_518 = 1 not(TMP\_518) = 0 TMP\_519 = 4 TMP\_520 = 0 not(TMP\_520) = 1 TMP\_521 = 0 not(TMP\_521) = 1 TMP\_522 = 0 TMP\_523 = 1 not(TMP\_523) = 0 TMP\_524 = 1 not(TMP\_524) = 0 TMP\_525 = 2 TMP\_526 = 0 not(TMP\_526) = 1 TMP\_527 = 0 not(TMP\_527) = 1 TMP\_528 = 1 not(TMP\_528) = 0 TMP\_529 = 1 not(TMP\_529) = 0 TMP\_530 = 1 not(TMP\_530) = 0 TMP\_531 = 2 TMP\_532 = 1 not(TMP\_532) = 0 TMP\_533 = 0 not(TMP\_533) = 1 TMP\_534 = 1 not(TMP\_534) = 0 TMP\_535 = 1 not(TMP\_535) = 0 TMP\_536 = 0 not(TMP\_536) = 1 TMP\_537 = 1 not(TMP\_537) = 0 TMP\_538 = 4 TMP\_539 = 0 not(TMP\_539) = 1 TMP\_540 = 0 not(TMP\_540) = 1 TMP\_541 = 0 TMP\_542 = 1 not(TMP\_542) = 0 TMP\_543 = 1 not(TMP\_543) = 0 TMP\_544 = 2 TMP\_545 = 0 not(TMP\_545) = 1 TMP\_546 = 0 not(TMP\_546) = 1 TMP\_547 = 1 not(TMP\_547) = 0 TMP\_548 = 1 not(TMP\_548) = 0 TMP\_549 = 1 not(TMP\_549) = 0 TMP\_550 = 2 TMP\_551 = 1 not(TMP\_551) = 0 TMP\_552 = 1 not(TMP\_552) = 0 TMP\_553 = 1 not(TMP\_553) = 0 TMP\_554 = 1 not(TMP\_554) = 0 TMP\_555 = 0 not(TMP\_555) = 1 TMP\_556 = 1 not(TMP\_556) = 0 TMP\_557 = 5 TMP\_558 = 0 not(TMP\_558) = 1 TMP\_559 = 0 not(TMP\_559) = 1 TMP\_560 = 0 TMP\_561 = 1 not(TMP\_561) = 0 TMP\_562 = 1 not(TMP\_562) = 0 TMP\_563 = 2 TMP\_564 = 0 not(TMP\_564) = 1 TMP\_565 = 0 not(TMP\_565) = 1 TMP\_566 = 1 not(TMP\_566) = 0 TMP\_567 = 1 not(TMP\_567) = 0 TMP\_568 = 1 not(TMP\_568) = 0 TMP\_569 = 2 TMP\_570 = 1 not(TMP\_570) = 0 TMP\_571 = 0 not(TMP\_571) = 1 TMP\_572 = 1 not(TMP\_572) = 0 TMP\_573 = 1 not(TMP\_573) = 0 TMP\_574 = 0 not(TMP\_574) = 1 TMP\_575 = 1 not(TMP\_575) = 0 TMP\_576 = 4 TMP\_577 = 0 not(TMP\_577) = 1 TMP\_578 = 0 not(TMP\_578) = 1 TMP\_579 = 0 TMP\_580 = 1 not(TMP\_580) = 0 TMP\_581 = 1 not(TMP\_581) = 0 TMP\_582 = 2 TMP\_583 = 0 not(TMP\_583) = 1 TMP\_584 = 0 not(TMP\_584) = 1 TMP\_585 = 1 not(TMP\_585) = 0 TMP\_586 = 1 not(TMP\_586) = 0 TMP\_587 = 1 not(TMP\_587) = 0 TMP\_588 = 2 TMP\_589 = 1 not(TMP\_589) = 0 TMP\_590 = 0 not(TMP\_590) = 1 TMP\_591 = 1 not(TMP\_591) = 0 TMP\_592 = 1 not(TMP\_592) = 0 TMP\_593 = 1 not(TMP\_593) = 0 TMP\_594 = 1 not(TMP\_594) = 0 TMP\_595 = 5 TMP\_596 = 0 not(TMP\_596) = 1 TMP\_597 = 0 not(TMP\_597) = 1 TMP\_598 = 0 TMP\_599 = 1 not(TMP\_599) = 0 TMP\_600 = 1 not(TMP\_600) = 0 TMP\_601 = 2 TMP\_602 = 0 not(TMP\_602) = 1 TMP\_603 = 0 not(TMP\_603) = 1 TMP\_604 = 1 not(TMP\_604) = 0 TMP\_605 = 1 not(TMP\_605) = 0 TMP\_606 = 1 not(TMP\_606) = 0 TMP\_607 = 2 Area\_0 = 60 Distance\_0\_Rule\_0 = 20 Distance\_1\_Rule\_0 = 3 Distance\_2\_Rule\_0 = 1 Area\_1 = 174 Distance\_0\_Rule\_1 = 58 Distance\_1\_Rule\_1 = 3 Distance\_2\_Rule\_1 = 1 Area\_2 = 116 Distance\_0\_Rule\_2 = 58 Distance\_1\_Rule\_2 = 2 Distance\_2\_Rule\_2 = 1 Area\_3 = 58 Distance\_0\_Rule\_3 = 58 Distance\_1\_Rule\_3 = 1 Distance\_2\_Rule\_3 = 1 Area\_4 = 120 Distance\_0\_Rule\_4 = 40 Distance\_1\_Rule\_4 = 3 Distance\_2\_Rule\_4 = 1 Area\_5 = 63 -(Rule\_5\_LB) = 0 Distance\_0\_Rule\_5 = 21 -(Rule\_5\_LB) = 0 Distance\_1\_Rule\_5 = 3 -(Rule\_5\_LB) = 0 Distance\_2\_Rule\_5 = 1 Area\_6 = 3 -(Rule\_6\_LB) = -79 Distance\_0\_Rule\_6 = 1 -(Rule\_6\_LB) = 0 Distance\_1\_Rule\_6 = 3 -(Rule\_6\_LB) = 0 Distance\_2\_Rule\_6 = 1 Area\_7 = 123 -(Rule\_7\_LB) = -79 Distance\_0\_Rule\_7 = 41 -(Rule\_7\_LB) = 0 Distance\_1\_Rule\_7 = 3 -(Rule\_7\_LB) = -1 Distance\_2\_Rule\_7 = 1 Area\_8 = 3 -(Rule\_8\_LB) = -20 Distance\_0\_Rule\_8 = 1 -(Rule\_8\_LB) = 0 Distance\_1\_Rule\_8 = 3 -(Rule\_8\_LB) = -1 Distance\_2\_Rule\_8 = 1 TMP\_608 = 720 .

- Solution #4 found. 4 Solutions, Resolution 0.991s, 2292 Nodes (2,312.9 n/s), 4518 Backtracks, 2261 Fails, 0 Restarts

Rule\_5\_LB = 0 Rule\_5\_UB = 21 Rule\_5\_LB = 0 Rule\_5\_UB = 3 Rule\_5\_LB = 0 Rule\_5\_UB = 1 Rule\_6\_LB = 79 Rule\_6\_UB = 80 Rule\_6\_LB = 0 Rule\_6\_UB = 3 Rule\_6\_LB = 0 Rule\_6\_UB = 1 Rule\_7\_LB = 79 Rule\_7\_UB = 120 Rule\_7\_LB = 0 Rule\_7\_UB = 3 Rule\_7\_LB = 1 Rule\_7\_UB = 2 Rule\_8\_LB = 20 Rule\_8\_UB = 21 Rule\_8\_LB = 0 Rule\_8\_UB = 3 Rule\_8\_LB = 1 Rule\_8\_UB = 2 Overlaps\_0\_0 = 0 Overlaps\_0\_1 = 0 Overlaps\_0\_2 = 0 Overlaps\_0\_3 = 0 Overlaps\_0\_4 = 0 Overlaps\_0\_5 = 0 Overlaps\_0\_6 = 0 Overlaps\_0\_7 = 0 Overlaps\_0\_8 = 0 Overlaps\_1\_0 = 0 Overlaps\_1\_1 = 0 Overlaps\_1\_2 = 0 Overlaps\_1\_3 = 0 Overlaps\_1\_4 = 0 Overlaps\_1\_5 = 0 Overlaps\_1\_6 = 0 Overlaps\_1\_7 = 0 Overlaps\_1\_8 = 0 Overlaps\_2\_0 = 0 Overlaps\_2\_1 = 0 Overlaps\_2\_2 = 0 Overlaps\_2\_3 = 0 Overlaps\_2\_4 = 0 Overlaps\_2\_5 = 0 Overlaps\_2\_6 = 0 Overlaps\_2\_7 = 0 Overlaps\_2\_8 = 0 Overlaps\_3\_0 = 0 Overlaps\_3\_1 = 1 Overlaps\_3\_2 = 0 Overlaps\_3\_3 = 0 Overlaps\_3\_4 = 0 Overlaps\_3\_5 = 0 Overlaps\_3\_6 = 0 Overlaps\_3\_7 = 0 Overlaps\_3\_8 = 0 Overlaps\_4\_0 = 1 Overlaps\_4\_1 = 0 Overlaps\_4\_2 = 0 Overlaps\_4\_3 = 0 Overlaps\_4\_4 = 0 Overlaps\_4\_5 = 0 Overlaps\_4\_6 = 0 Overlaps\_4\_7 = 0 Overlaps\_4\_8 = 0 Overlaps\_5\_0 = 0 Overlaps\_5\_1 = 0 Overlaps\_5\_2 = 0 Overlaps\_5\_3 = 0 Overlaps\_5\_4 = 0 Overlaps\_5\_5 = 0 Overlaps\_5\_6 = 0 Overlaps\_5\_7 = 0 Overlaps\_5\_8 = 0 Overlaps\_6\_0 = 0 Overlaps\_6\_1 = 0 Overlaps\_6\_2 = 0 Overlaps\_6\_3 = 0 Overlaps\_6\_4 = 0 Overlaps\_6\_5 = 0 Overlaps\_6\_6 = 0 Overlaps\_6\_7 = 0 Overlaps\_6\_8 = 0 Overlaps\_7\_0 = 0 Overlaps\_7\_1 = 0 Overlaps\_7\_2 = 0 Overlaps\_7\_3 = 0 Overlaps\_7\_4 = 0 Overlaps\_7\_5 = 0 Overlaps\_7\_6 = 0 Overlaps\_7\_7 = 0 Overlaps\_7\_8 = 0 Overlaps\_8\_0 = 0 Overlaps\_8\_1 = 0 Overlaps\_8\_2 = 0 Overlaps\_8\_3 = 0 Overlaps\_8\_4 = 0 Overlaps\_8\_5 = 0 Overlaps\_8\_6 = 0 Overlaps\_8\_7 = 0 Overlaps\_8\_8 = 0 TMP\_0 = 1 not(TMP\_0) = 0 TMP\_1 = 1 not(TMP\_1) = 0 TMP\_2 = 1 not(TMP\_2) = 0 TMP\_3 = 1 not(TMP\_3) = 0 TMP\_4 = 1 not(TMP\_4) = 0 TMP\_5 = 0 not(TMP\_5) = 1 TMP\_6 = 5 TMP\_7 = 0 not(TMP\_7) = 1 TMP\_8 = 0 not(TMP\_8) = 1 TMP\_9 = 0 TMP\_10 = 1 not(TMP\_10) = 0 TMP\_11 = 1 not(TMP\_11) = 0 TMP\_12 = 2 TMP\_13 = 0 not(TMP\_13) = 1 TMP\_14 = 0 not(TMP\_14) = 1 TMP\_15 = 1 not(TMP\_15) = 0 TMP\_16 = 1 not(TMP\_16) = 0 TMP\_17 = 1 not(TMP\_17) = 0 TMP\_18 = 2 TMP\_19 = 1 not(TMP\_19) = 0 TMP\_20 = 0 not(TMP\_20) = 1 TMP\_21 = 1 not(TMP\_21) = 0 TMP\_22 = 1 not(TMP\_22) = 0 TMP\_23 = 1 not(TMP\_23) = 0 TMP\_24 = 0 not(TMP\_24) = 1 TMP\_25 = 4 TMP\_26 = 0 not(TMP\_26) = 1 TMP\_27 = 0 not(TMP\_27) = 1 TMP\_28 = 0 TMP\_29 = 1 not(TMP\_29) = 0 TMP\_30 = 1 not(TMP\_30) = 0 TMP\_31 = 2 TMP\_32 = 0 not(TMP\_32) = 1 TMP\_33 = 0 not(TMP\_33) = 1 TMP\_34 = 1 not(TMP\_34) = 0 TMP\_35 = 1 not(TMP\_35) = 0 TMP\_36 = 1 not(TMP\_36) = 0 TMP\_37 = 2 TMP\_38 = 1 not(TMP\_38) = 0 TMP\_39 = 0 not(TMP\_39) = 1 TMP\_40 = 1 not(TMP\_40) = 0 TMP\_41 = 1 not(TMP\_41) = 0 TMP\_42 = 1 not(TMP\_42) = 0 TMP\_43 = 1 not(TMP\_43) = 0 TMP\_44 = 5 TMP\_45 = 0 not(TMP\_45) = 1 TMP\_46 = 0 not(TMP\_46) = 1 TMP\_47 = 0 TMP\_48 = 1 not(TMP\_48) = 0 TMP\_49 = 1 not(TMP\_49) = 0 TMP\_50 = 2 TMP\_51 = 0 not(TMP\_51) = 1 TMP\_52 = 0 not(TMP\_52) = 1 TMP\_53 = 1 not(TMP\_53) = 0 TMP\_54 = 1 not(TMP\_54) = 0 TMP\_55 = 1 not(TMP\_55) = 0 TMP\_56 = 2 TMP\_57 = 1 not(TMP\_57) = 0 TMP\_58 = 0 not(TMP\_58) = 1 TMP\_59 = 1 not(TMP\_59) = 0 TMP\_60 = 1 not(TMP\_60) = 0 TMP\_61 = 1 not(TMP\_61) = 0 TMP\_62 = 1 not(TMP\_62) = 0 TMP\_63 = 5 TMP\_64 = 0 not(TMP\_64) = 1 TMP\_65 = 0 not(TMP\_65) = 1 TMP\_66 = 0 TMP\_67 = 1 not(TMP\_67) = 0 TMP\_68 = 1 not(TMP\_68) = 0 TMP\_69 = 2 TMP\_70 = 0 not(TMP\_70) = 1 TMP\_71 = 0 not(TMP\_71) = 1 TMP\_72 = 1 not(TMP\_72) = 0 TMP\_73 = 1 not(TMP\_73) = 0 TMP\_74 = 1 not(TMP\_74) = 0 TMP\_75 = 2 TMP\_76 = 1 not(TMP\_76) = 0 TMP\_77 = 0 not(TMP\_77) = 1 TMP\_78 = 1 not(TMP\_78) = 0 TMP\_79 = 1 not(TMP\_79) = 0 TMP\_80 = 1 not(TMP\_80) = 0 TMP\_81 = 1 not(TMP\_81) = 0 TMP\_82 = 5 TMP\_83 = 0 not(TMP\_83) = 1 TMP\_84 = 0 not(TMP\_84) = 1 TMP\_85 = 0 TMP\_86 = 1 not(TMP\_86) = 0 TMP\_87 = 1 not(TMP\_87) = 0 TMP\_88 = 2 TMP\_89 = 0 not(TMP\_89) = 1 TMP\_90 = 0 not(TMP\_90) = 1 TMP\_91 = 1 not(TMP\_91) = 0 TMP\_92 = 1 not(TMP\_92) = 0 TMP\_93 = 1 not(TMP\_93) = 0 TMP\_94 = 2 TMP\_95 = 1 not(TMP\_95) = 0 TMP\_96 = 0 not(TMP\_96) = 1 TMP\_97 = 1 not(TMP\_97) = 0 TMP\_98 = 1 not(TMP\_98) = 0 TMP\_99 = 1 not(TMP\_99) = 0 TMP\_100 = 1 not(TMP\_100) = 0 TMP\_101 = 5 TMP\_102 = 0 not(TMP\_102) = 1 TMP\_103 = 0 not(TMP\_103) = 1 TMP\_104 = 0 TMP\_105 = 1 not(TMP\_105) = 0 TMP\_106 = 1 not(TMP\_106) = 0 TMP\_107 = 2 TMP\_108 = 0 not(TMP\_108) = 1 TMP\_109 = 0 not(TMP\_109) = 1 TMP\_110 = 1 not(TMP\_110) = 0 TMP\_111 = 1 not(TMP\_111) = 0 TMP\_112 = 1 not(TMP\_112) = 0 TMP\_113 = 2 TMP\_114 = 1 not(TMP\_114) = 0 TMP\_115 = 0 not(TMP\_115) = 1 TMP\_116 = 1 not(TMP\_116) = 0 TMP\_117 = 1 not(TMP\_117) = 0 TMP\_118 = 1 not(TMP\_118) = 0 TMP\_119 = 0 not(TMP\_119) = 1 TMP\_120 = 4 TMP\_121 = 0 not(TMP\_121) = 1 TMP\_122 = 0 not(TMP\_122) = 1 TMP\_123 = 0 TMP\_124 = 1 not(TMP\_124) = 0 TMP\_125 = 1 not(TMP\_125) = 0 TMP\_126 = 2 TMP\_127 = 0 not(TMP\_127) = 1 TMP\_128 = 0 not(TMP\_128) = 1 TMP\_129 = 1 not(TMP\_129) = 0 TMP\_130 = 1 not(TMP\_130) = 0 TMP\_131 = 1 not(TMP\_131) = 0 TMP\_132 = 2 TMP\_133 = 1 not(TMP\_133) = 0 TMP\_134 = 1 not(TMP\_134) = 0 TMP\_135 = 1 not(TMP\_135) = 0 TMP\_136 = 1 not(TMP\_136) = 0 TMP\_137 = 1 not(TMP\_137) = 0 TMP\_138 = 0 not(TMP\_138) = 1 TMP\_139 = 5 TMP\_140 = 0 not(TMP\_140) = 1 TMP\_141 = 0 not(TMP\_141) = 1 TMP\_142 = 0 TMP\_143 = 1 not(TMP\_143) = 0 TMP\_144 = 1 not(TMP\_144) = 0 TMP\_145 = 2 TMP\_146 = 0 not(TMP\_146) = 1 TMP\_147 = 0 not(TMP\_147) = 1 TMP\_148 = 1 not(TMP\_148) = 0 TMP\_149 = 1 not(TMP\_149) = 0 TMP\_150 = 1 not(TMP\_150) = 0 TMP\_151 = 2 TMP\_152 = 0 not(TMP\_152) = 1 TMP\_153 = 1 not(TMP\_153) = 0 TMP\_154 = 1 not(TMP\_154) = 0 TMP\_155 = 1 not(TMP\_155) = 0 TMP\_156 = 1 not(TMP\_156) = 0 TMP\_157 = 0 not(TMP\_157) = 1 TMP\_158 = 4 TMP\_159 = 0 not(TMP\_159) = 1 TMP\_160 = 0 not(TMP\_160) = 1 TMP\_161 = 0 TMP\_162 = 1 not(TMP\_162) = 0 TMP\_163 = 1 not(TMP\_163) = 0 TMP\_164 = 2 TMP\_165 = 0 not(TMP\_165) = 1 TMP\_166 = 0 not(TMP\_166) = 1 TMP\_167 = 1 not(TMP\_167) = 0 TMP\_168 = 1 not(TMP\_168) = 0 TMP\_169 = 1 not(TMP\_169) = 0 TMP\_170 = 2 TMP\_171 = 0 not(TMP\_171) = 1 TMP\_172 = 1 not(TMP\_172) = 0 TMP\_173 = 1 not(TMP\_173) = 0 TMP\_174 = 1 not(TMP\_174) = 0 TMP\_175 = 1 not(TMP\_175) = 0 TMP\_176 = 0 not(TMP\_176) = 1 TMP\_177 = 4 TMP\_178 = 0 not(TMP\_178) = 1 TMP\_179 = 0 not(TMP\_179) = 1 TMP\_180 = 0 TMP\_181 = 1 not(TMP\_181) = 0 TMP\_182 = 1 not(TMP\_182) = 0 TMP\_183 = 2 TMP\_184 = 0 not(TMP\_184) = 1 TMP\_185 = 0 not(TMP\_185) = 1 TMP\_186 = 1 not(TMP\_186) = 0 TMP\_187 = 1 not(TMP\_187) = 0 TMP\_188 = 1 not(TMP\_188) = 0 TMP\_189 = 2 TMP\_190 = 0 not(TMP\_190) = 1 TMP\_191 = 1 not(TMP\_191) = 0 TMP\_192 = 1 not(TMP\_192) = 0 TMP\_193 = 1 not(TMP\_193) = 0 TMP\_194 = 1 not(TMP\_194) = 0 TMP\_195 = 1 not(TMP\_195) = 0 TMP\_196 = 5 TMP\_197 = 0 not(TMP\_197) = 1 TMP\_198 = 0 not(TMP\_198) = 1 TMP\_199 = 0 TMP\_200 = 1 not(TMP\_200) = 0 TMP\_201 = 1 not(TMP\_201) = 0 TMP\_202 = 2 TMP\_203 = 0 not(TMP\_203) = 1 TMP\_204 = 0 not(TMP\_204) = 1 TMP\_205 = 1 not(TMP\_205) = 0 TMP\_206 = 1 not(TMP\_206) = 0 TMP\_207 = 1 not(TMP\_207) = 0 TMP\_208 = 2 TMP\_209 = 0 not(TMP\_209) = 1 TMP\_210 = 1 not(TMP\_210) = 0 TMP\_211 = 1 not(TMP\_211) = 0 TMP\_212 = 1 not(TMP\_212) = 0 TMP\_213 = 1 not(TMP\_213) = 0 TMP\_214 = 1 not(TMP\_214) = 0 TMP\_215 = 5 TMP\_216 = 0 not(TMP\_216) = 1 TMP\_217 = 0 not(TMP\_217) = 1 TMP\_218 = 0 TMP\_219 = 1 not(TMP\_219) = 0 TMP\_220 = 1 not(TMP\_220) = 0 TMP\_221 = 2 TMP\_222 = 0 not(TMP\_222) = 1 TMP\_223 = 0 not(TMP\_223) = 1 TMP\_224 = 1 not(TMP\_224) = 0 TMP\_225 = 1 not(TMP\_225) = 0 TMP\_226 = 1 not(TMP\_226) = 0 TMP\_227 = 2 TMP\_228 = 1 not(TMP\_228) = 0 TMP\_229 = 0 not(TMP\_229) = 1 TMP\_230 = 1 not(TMP\_230) = 0 TMP\_231 = 1 not(TMP\_231) = 0 TMP\_232 = 1 not(TMP\_232) = 0 TMP\_233 = 1 not(TMP\_233) = 0 TMP\_234 = 5 TMP\_235 = 0 not(TMP\_235) = 1 TMP\_236 = 0 not(TMP\_236) = 1 TMP\_237 = 0 TMP\_238 = 1 not(TMP\_238) = 0 TMP\_239 = 1 not(TMP\_239) = 0 TMP\_240 = 2 TMP\_241 = 0 not(TMP\_241) = 1 TMP\_242 = 0 not(TMP\_242) = 1 TMP\_243 = 1 not(TMP\_243) = 0 TMP\_244 = 1 not(TMP\_244) = 0 TMP\_245 = 1 not(TMP\_245) = 0 TMP\_246 = 2 TMP\_247 = 0 not(TMP\_247) = 1 TMP\_248 = 1 not(TMP\_248) = 0 TMP\_249 = 1 not(TMP\_249) = 0 TMP\_250 = 1 not(TMP\_250) = 0 TMP\_251 = 1 not(TMP\_251) = 0 TMP\_252 = 1 not(TMP\_252) = 0 TMP\_253 = 5 TMP\_254 = 0 not(TMP\_254) = 1 TMP\_255 = 0 not(TMP\_255) = 1 TMP\_256 = 0 TMP\_257 = 1 not(TMP\_257) = 0 TMP\_258 = 1 not(TMP\_258) = 0 TMP\_259 = 2 TMP\_260 = 0 not(TMP\_260) = 1 TMP\_261 = 0 not(TMP\_261) = 1 TMP\_262 = 1 not(TMP\_262) = 0 TMP\_263 = 1 not(TMP\_263) = 0 TMP\_264 = 1 not(TMP\_264) = 0 TMP\_265 = 2 TMP\_266 = 1 not(TMP\_266) = 0 TMP\_267 = 1 not(TMP\_267) = 0 TMP\_268 = 1 not(TMP\_268) = 0 TMP\_269 = 1 not(TMP\_269) = 0 TMP\_270 = 1 not(TMP\_270) = 0 TMP\_271 = 0 not(TMP\_271) = 1 TMP\_272 = 5 TMP\_273 = 0 not(TMP\_273) = 1 TMP\_274 = 0 not(TMP\_274) = 1 TMP\_275 = 0 TMP\_276 = 1 not(TMP\_276) = 0 TMP\_277 = 1 not(TMP\_277) = 0 TMP\_278 = 2 TMP\_279 = 0 not(TMP\_279) = 1 TMP\_280 = 0 not(TMP\_280) = 1 TMP\_281 = 1 not(TMP\_281) = 0 TMP\_282 = 1 not(TMP\_282) = 0 TMP\_283 = 1 not(TMP\_283) = 0 TMP\_284 = 2 TMP\_285 = 0 not(TMP\_285) = 1 TMP\_286 = 1 not(TMP\_286) = 0 TMP\_287 = 1 not(TMP\_287) = 0 TMP\_288 = 1 not(TMP\_288) = 0 TMP\_289 = 1 not(TMP\_289) = 0 TMP\_290 = 0 not(TMP\_290) = 1 TMP\_291 = 4 TMP\_292 = 0 not(TMP\_292) = 1 TMP\_293 = 0 not(TMP\_293) = 1 TMP\_294 = 0 TMP\_295 = 1 not(TMP\_295) = 0 TMP\_296 = 1 not(TMP\_296) = 0 TMP\_297 = 2 TMP\_298 = 0 not(TMP\_298) = 1 TMP\_299 = 0 not(TMP\_299) = 1 TMP\_300 = 1 not(TMP\_300) = 0 TMP\_301 = 1 not(TMP\_301) = 0 TMP\_302 = 1 not(TMP\_302) = 0 TMP\_303 = 2 TMP\_304 = 0 not(TMP\_304) = 1 TMP\_305 = 1 not(TMP\_305) = 0 TMP\_306 = 1 not(TMP\_306) = 0 TMP\_307 = 1 not(TMP\_307) = 0 TMP\_308 = 1 not(TMP\_308) = 0 TMP\_309 = 1 not(TMP\_309) = 0 TMP\_310 = 5 TMP\_311 = 0 not(TMP\_311) = 1 TMP\_312 = 0 not(TMP\_312) = 1 TMP\_313 = 0 TMP\_314 = 1 not(TMP\_314) = 0 TMP\_315 = 1 not(TMP\_315) = 0 TMP\_316 = 2 TMP\_317 = 0 not(TMP\_317) = 1 TMP\_318 = 0 not(TMP\_318) = 1 TMP\_319 = 1 not(TMP\_319) = 0 TMP\_320 = 1 not(TMP\_320) = 0 TMP\_321 = 1 not(TMP\_321) = 0 TMP\_322 = 2 TMP\_323 = 0 not(TMP\_323) = 1 TMP\_324 = 1 not(TMP\_324) = 0 TMP\_325 = 1 not(TMP\_325) = 0 TMP\_326 = 1 not(TMP\_326) = 0 TMP\_327 = 1 not(TMP\_327) = 0 TMP\_328 = 1 not(TMP\_328) = 0 TMP\_329 = 5 TMP\_330 = 0 not(TMP\_330) = 1 TMP\_331 = 0 not(TMP\_331) = 1 TMP\_332 = 0 TMP\_333 = 1 not(TMP\_333) = 0 TMP\_334 = 1 not(TMP\_334) = 0 TMP\_335 = 2 TMP\_336 = 0 not(TMP\_336) = 1 TMP\_337 = 0 not(TMP\_337) = 1 TMP\_338 = 1 not(TMP\_338) = 0 TMP\_339 = 1 not(TMP\_339) = 0 TMP\_340 = 1 not(TMP\_340) = 0 TMP\_341 = 2 TMP\_342 = 0 not(TMP\_342) = 1 TMP\_343 = 1 not(TMP\_343) = 0 TMP\_344 = 1 not(TMP\_344) = 0 TMP\_345 = 1 not(TMP\_345) = 0 TMP\_346 = 0 not(TMP\_346) = 1 TMP\_347 = 1 not(TMP\_347) = 0 TMP\_348 = 4 TMP\_349 = 0 not(TMP\_349) = 1 TMP\_350 = 0 not(TMP\_350) = 1 TMP\_351 = 0 TMP\_352 = 1 not(TMP\_352) = 0 TMP\_353 = 1 not(TMP\_353) = 0 TMP\_354 = 2 TMP\_355 = 0 not(TMP\_355) = 1 TMP\_356 = 0 not(TMP\_356) = 1 TMP\_357 = 1 not(TMP\_357) = 0 TMP\_358 = 1 not(TMP\_358) = 0 TMP\_359 = 1 not(TMP\_359) = 0 TMP\_360 = 2 TMP\_361 = 0 not(TMP\_361) = 1 TMP\_362 = 1 not(TMP\_362) = 0 TMP\_363 = 1 not(TMP\_363) = 0 TMP\_364 = 1 not(TMP\_364) = 0 TMP\_365 = 0 not(TMP\_365) = 1 TMP\_366 = 1 not(TMP\_366) = 0 TMP\_367 = 4 TMP\_368 = 0 not(TMP\_368) = 1 TMP\_369 = 0 not(TMP\_369) = 1 TMP\_370 = 0 TMP\_371 = 1 not(TMP\_371) = 0 TMP\_372 = 1 not(TMP\_372) = 0 TMP\_373 = 2 TMP\_374 = 0 not(TMP\_374) = 1 TMP\_375 = 0 not(TMP\_375) = 1 TMP\_376 = 1 not(TMP\_376) = 0 TMP\_377 = 1 not(TMP\_377) = 0 TMP\_378 = 1 not(TMP\_378) = 0 TMP\_379 = 2 TMP\_380 = 1 not(TMP\_380) = 0 TMP\_381 = 1 not(TMP\_381) = 0 TMP\_382 = 1 not(TMP\_382) = 0 TMP\_383 = 1 not(TMP\_383) = 0 TMP\_384 = 0 not(TMP\_384) = 1 TMP\_385 = 1 not(TMP\_385) = 0 TMP\_386 = 5 TMP\_387 = 0 not(TMP\_387) = 1 TMP\_388 = 0 not(TMP\_388) = 1 TMP\_389 = 0 TMP\_390 = 1 not(TMP\_390) = 0 TMP\_391 = 1 not(TMP\_391) = 0 TMP\_392 = 2 TMP\_393 = 0 not(TMP\_393) = 1 TMP\_394 = 0 not(TMP\_394) = 1 TMP\_395 = 1 not(TMP\_395) = 0 TMP\_396 = 1 not(TMP\_396) = 0 TMP\_397 = 1 not(TMP\_397) = 0 TMP\_398 = 2 TMP\_399 = 0 not(TMP\_399) = 1 TMP\_400 = 1 not(TMP\_400) = 0 TMP\_401 = 1 not(TMP\_401) = 0 TMP\_402 = 1 not(TMP\_402) = 0 TMP\_403 = 0 not(TMP\_403) = 1 TMP\_404 = 1 not(TMP\_404) = 0 TMP\_405 = 4 TMP\_406 = 0 not(TMP\_406) = 1 TMP\_407 = 0 not(TMP\_407) = 1 TMP\_408 = 0 TMP\_409 = 1 not(TMP\_409) = 0 TMP\_410 = 1 not(TMP\_410) = 0 TMP\_411 = 2 TMP\_412 = 0 not(TMP\_412) = 1 TMP\_413 = 0 not(TMP\_413) = 1 TMP\_414 = 1 not(TMP\_414) = 0 TMP\_415 = 1 not(TMP\_415) = 0 TMP\_416 = 1 not(TMP\_416) = 0 TMP\_417 = 2 TMP\_418 = 1 not(TMP\_418) = 0 TMP\_419 = 1 not(TMP\_419) = 0 TMP\_420 = 1 not(TMP\_420) = 0 TMP\_421 = 1 not(TMP\_421) = 0 TMP\_422 = 0 not(TMP\_422) = 1 TMP\_423 = 1 not(TMP\_423) = 0 TMP\_424 = 5 TMP\_425 = 0 not(TMP\_425) = 1 TMP\_426 = 0 not(TMP\_426) = 1 TMP\_427 = 0 TMP\_428 = 1 not(TMP\_428) = 0 TMP\_429 = 1 not(TMP\_429) = 0 TMP\_430 = 2 TMP\_431 = 0 not(TMP\_431) = 1 TMP\_432 = 0 not(TMP\_432) = 1 TMP\_433 = 1 not(TMP\_433) = 0 TMP\_434 = 1 not(TMP\_434) = 0 TMP\_435 = 1 not(TMP\_435) = 0 TMP\_436 = 2 TMP\_437 = 0 not(TMP\_437) = 1 TMP\_438 = 1 not(TMP\_438) = 0 TMP\_439 = 1 not(TMP\_439) = 0 TMP\_440 = 1 not(TMP\_440) = 0 TMP\_441 = 1 not(TMP\_441) = 0 TMP\_442 = 1 not(TMP\_442) = 0 TMP\_443 = 5 TMP\_444 = 0 not(TMP\_444) = 1 TMP\_445 = 0 not(TMP\_445) = 1 TMP\_446 = 0 TMP\_447 = 1 not(TMP\_447) = 0 TMP\_448 = 1 not(TMP\_448) = 0 TMP\_449 = 2 TMP\_450 = 0 not(TMP\_450) = 1 TMP\_451 = 0 not(TMP\_451) = 1 TMP\_452 = 1 not(TMP\_452) = 0 TMP\_453 = 1 not(TMP\_453) = 0 TMP\_454 = 1 not(TMP\_454) = 0 TMP\_455 = 2 TMP\_456 = 0 not(TMP\_456) = 1 TMP\_457 = 1 not(TMP\_457) = 0 TMP\_458 = 1 not(TMP\_458) = 0 TMP\_459 = 1 not(TMP\_459) = 0 TMP\_460 = 1 not(TMP\_460) = 0 TMP\_461 = 1 not(TMP\_461) = 0 TMP\_462 = 5 TMP\_463 = 0 not(TMP\_463) = 1 TMP\_464 = 0 not(TMP\_464) = 1 TMP\_465 = 0 TMP\_466 = 1 not(TMP\_466) = 0 TMP\_467 = 1 not(TMP\_467) = 0 TMP\_468 = 2 TMP\_469 = 0 not(TMP\_469) = 1 TMP\_470 = 0 not(TMP\_470) = 1 TMP\_471 = 1 not(TMP\_471) = 0 TMP\_472 = 1 not(TMP\_472) = 0 TMP\_473 = 1 not(TMP\_473) = 0 TMP\_474 = 2 TMP\_475 = 1 not(TMP\_475) = 0 TMP\_476 = 0 not(TMP\_476) = 1 TMP\_477 = 1 not(TMP\_477) = 0 TMP\_478 = 1 not(TMP\_478) = 0 TMP\_479 = 1 not(TMP\_479) = 0 TMP\_480 = 1 not(TMP\_480) = 0 TMP\_481 = 5 TMP\_482 = 0 not(TMP\_482) = 1 TMP\_483 = 0 not(TMP\_483) = 1 TMP\_484 = 0 TMP\_485 = 1 not(TMP\_485) = 0 TMP\_486 = 1 not(TMP\_486) = 0 TMP\_487 = 2 TMP\_488 = 0 not(TMP\_488) = 1 TMP\_489 = 0 not(TMP\_489) = 1 TMP\_490 = 1 not(TMP\_490) = 0 TMP\_491 = 1 not(TMP\_491) = 0 TMP\_492 = 1 not(TMP\_492) = 0 TMP\_493 = 2 TMP\_494 = 1 not(TMP\_494) = 0 TMP\_495 = 0 not(TMP\_495) = 1 TMP\_496 = 1 not(TMP\_496) = 0 TMP\_497 = 1 not(TMP\_497) = 0 TMP\_498 = 0 not(TMP\_498) = 1 TMP\_499 = 1 not(TMP\_499) = 0 TMP\_500 = 4 TMP\_501 = 0 not(TMP\_501) = 1 TMP\_502 = 0 not(TMP\_502) = 1 TMP\_503 = 0 TMP\_504 = 1 not(TMP\_504) = 0 TMP\_505 = 1 not(TMP\_505) = 0 TMP\_506 = 2 TMP\_507 = 0 not(TMP\_507) = 1 TMP\_508 = 0 not(TMP\_508) = 1 TMP\_509 = 1 not(TMP\_509) = 0 TMP\_510 = 1 not(TMP\_510) = 0 TMP\_511 = 1 not(TMP\_511) = 0 TMP\_512 = 2 TMP\_513 = 1 not(TMP\_513) = 0 TMP\_514 = 0 not(TMP\_514) = 1 TMP\_515 = 1 not(TMP\_515) = 0 TMP\_516 = 1 not(TMP\_516) = 0 TMP\_517 = 0 not(TMP\_517) = 1 TMP\_518 = 1 not(TMP\_518) = 0 TMP\_519 = 4 TMP\_520 = 0 not(TMP\_520) = 1 TMP\_521 = 0 not(TMP\_521) = 1 TMP\_522 = 0 TMP\_523 = 1 not(TMP\_523) = 0 TMP\_524 = 1 not(TMP\_524) = 0 TMP\_525 = 2 TMP\_526 = 0 not(TMP\_526) = 1 TMP\_527 = 0 not(TMP\_527) = 1 TMP\_528 = 1 not(TMP\_528) = 0 TMP\_529 = 1 not(TMP\_529) = 0 TMP\_530 = 1 not(TMP\_530) = 0 TMP\_531 = 2 TMP\_532 = 1 not(TMP\_532) = 0 TMP\_533 = 0 not(TMP\_533) = 1 TMP\_534 = 1 not(TMP\_534) = 0 TMP\_535 = 1 not(TMP\_535) = 0 TMP\_536 = 0 not(TMP\_536) = 1 TMP\_537 = 1 not(TMP\_537) = 0 TMP\_538 = 4 TMP\_539 = 0 not(TMP\_539) = 1 TMP\_540 = 0 not(TMP\_540) = 1 TMP\_541 = 0 TMP\_542 = 1 not(TMP\_542) = 0 TMP\_543 = 1 not(TMP\_543) = 0 TMP\_544 = 2 TMP\_545 = 0 not(TMP\_545) = 1 TMP\_546 = 0 not(TMP\_546) = 1 TMP\_547 = 1 not(TMP\_547) = 0 TMP\_548 = 1 not(TMP\_548) = 0 TMP\_549 = 1 not(TMP\_549) = 0 TMP\_550 = 2 TMP\_551 = 1 not(TMP\_551) = 0 TMP\_552 = 1 not(TMP\_552) = 0 TMP\_553 = 1 not(TMP\_553) = 0 TMP\_554 = 1 not(TMP\_554) = 0 TMP\_555 = 0 not(TMP\_555) = 1 TMP\_556 = 1 not(TMP\_556) = 0 TMP\_557 = 5 TMP\_558 = 0 not(TMP\_558) = 1 TMP\_559 = 0 not(TMP\_559) = 1 TMP\_560 = 0 TMP\_561 = 1 not(TMP\_561) = 0 TMP\_562 = 1 not(TMP\_562) = 0 TMP\_563 = 2 TMP\_564 = 0 not(TMP\_564) = 1 TMP\_565 = 0 not(TMP\_565) = 1 TMP\_566 = 1 not(TMP\_566) = 0 TMP\_567 = 1 not(TMP\_567) = 0 TMP\_568 = 1 not(TMP\_568) = 0 TMP\_569 = 2 TMP\_570 = 1 not(TMP\_570) = 0 TMP\_571 = 0 not(TMP\_571) = 1 TMP\_572 = 1 not(TMP\_572) = 0 TMP\_573 = 1 not(TMP\_573) = 0 TMP\_574 = 0 not(TMP\_574) = 1 TMP\_575 = 1 not(TMP\_575) = 0 TMP\_576 = 4 TMP\_577 = 0 not(TMP\_577) = 1 TMP\_578 = 0 not(TMP\_578) = 1 TMP\_579 = 0 TMP\_580 = 1 not(TMP\_580) = 0 TMP\_581 = 1 not(TMP\_581) = 0 TMP\_582 = 2 TMP\_583 = 0 not(TMP\_583) = 1 TMP\_584 = 0 not(TMP\_584) = 1 TMP\_585 = 1 not(TMP\_585) = 0 TMP\_586 = 1 not(TMP\_586) = 0 TMP\_587 = 1 not(TMP\_587) = 0 TMP\_588 = 2 TMP\_589 = 1 not(TMP\_589) = 0 TMP\_590 = 0 not(TMP\_590) = 1 TMP\_591 = 1 not(TMP\_591) = 0 TMP\_592 = 1 not(TMP\_592) = 0 TMP\_593 = 1 not(TMP\_593) = 0 TMP\_594 = 1 not(TMP\_594) = 0 TMP\_595 = 5 TMP\_596 = 0 not(TMP\_596) = 1 TMP\_597 = 0 not(TMP\_597) = 1 TMP\_598 = 0 TMP\_599 = 1 not(TMP\_599) = 0 TMP\_600 = 1 not(TMP\_600) = 0 TMP\_601 = 2 TMP\_602 = 0 not(TMP\_602) = 1 TMP\_603 = 0 not(TMP\_603) = 1 TMP\_604 = 1 not(TMP\_604) = 0 TMP\_605 = 1 not(TMP\_605) = 0 TMP\_606 = 1 not(TMP\_606) = 0 TMP\_607 = 2 Area\_0 = 60 Distance\_0\_Rule\_0 = 20 Distance\_1\_Rule\_0 = 3 Distance\_2\_Rule\_0 = 1 Area\_1 = 174 Distance\_0\_Rule\_1 = 58 Distance\_1\_Rule\_1 = 3 Distance\_2\_Rule\_1 = 1 Area\_2 = 116 Distance\_0\_Rule\_2 = 58 Distance\_1\_Rule\_2 = 2 Distance\_2\_Rule\_2 = 1 Area\_3 = 58 Distance\_0\_Rule\_3 = 58 Distance\_1\_Rule\_3 = 1 Distance\_2\_Rule\_3 = 1 Area\_4 = 120 Distance\_0\_Rule\_4 = 40 Distance\_1\_Rule\_4 = 3 Distance\_2\_Rule\_4 = 1 Area\_5 = 63 -(Rule\_5\_LB) = 0 Distance\_0\_Rule\_5 = 21 -(Rule\_5\_LB) = 0 Distance\_1\_Rule\_5 = 3 -(Rule\_5\_LB) = 0 Distance\_2\_Rule\_5 = 1 Area\_6 = 3 -(Rule\_6\_LB) = -79 Distance\_0\_Rule\_6 = 1 -(Rule\_6\_LB) = 0 Distance\_1\_Rule\_6 = 3 -(Rule\_6\_LB) = 0 Distance\_2\_Rule\_6 = 1 Area\_7 = 123 -(Rule\_7\_LB) = -79 Distance\_0\_Rule\_7 = 41 -(Rule\_7\_LB) = 0 Distance\_1\_Rule\_7 = 3 -(Rule\_7\_LB) = -1 Distance\_2\_Rule\_7 = 1 Area\_8 = 3 -(Rule\_8\_LB) = -20 Distance\_0\_Rule\_8 = 1 -(Rule\_8\_LB) = 0 Distance\_1\_Rule\_8 = 3 -(Rule\_8\_LB) = -1 Distance\_2\_Rule\_8 = 1 TMP\_608 = 720 .

- Solution #5 found. 5 Solutions, Resolution 1.007s, 2295 Nodes (2,279.7 n/s), 4521 Backtracks, 2261 Fails, 0 Restarts

Rule\_5\_LB = 0 Rule\_5\_UB = 21 Rule\_5\_LB = 0 Rule\_5\_UB = 3 Rule\_5\_LB = 0 Rule\_5\_UB = 1 Rule\_6\_LB = 79 Rule\_6\_UB = 80 Rule\_6\_LB = 0 Rule\_6\_UB = 3 Rule\_6\_LB = 0 Rule\_6\_UB = 1 Rule\_7\_LB = 79 Rule\_7\_UB = 120 Rule\_7\_LB = 0 Rule\_7\_UB = 3 Rule\_7\_LB = 1 Rule\_7\_UB = 2 Rule\_8\_LB = 20 Rule\_8\_UB = 21 Rule\_8\_LB = 0 Rule\_8\_UB = 3 Rule\_8\_LB = 1 Rule\_8\_UB = 2 Overlaps\_0\_0 = 0 Overlaps\_0\_1 = 1 Overlaps\_0\_2 = 0 Overlaps\_0\_3 = 0 Overlaps\_0\_4 = 0 Overlaps\_0\_5 = 0 Overlaps\_0\_6 = 0 Overlaps\_0\_7 = 0 Overlaps\_0\_8 = 0 Overlaps\_1\_0 = 0 Overlaps\_1\_1 = 0 Overlaps\_1\_2 = 0 Overlaps\_1\_3 = 0 Overlaps\_1\_4 = 0 Overlaps\_1\_5 = 0 Overlaps\_1\_6 = 0 Overlaps\_1\_7 = 0 Overlaps\_1\_8 = 0 Overlaps\_2\_0 = 0 Overlaps\_2\_1 = 0 Overlaps\_2\_2 = 0 Overlaps\_2\_3 = 0 Overlaps\_2\_4 = 0 Overlaps\_2\_5 = 0 Overlaps\_2\_6 = 0 Overlaps\_2\_7 = 0 Overlaps\_2\_8 = 0 Overlaps\_3\_0 = 0 Overlaps\_3\_1 = 0 Overlaps\_3\_2 = 0 Overlaps\_3\_3 = 0 Overlaps\_3\_4 = 0 Overlaps\_3\_5 = 0 Overlaps\_3\_6 = 0 Overlaps\_3\_7 = 0 Overlaps\_3\_8 = 0 Overlaps\_4\_0 = 0 Overlaps\_4\_1 = 0 Overlaps\_4\_2 = 0 Overlaps\_4\_3 = 0 Overlaps\_4\_4 = 0 Overlaps\_4\_5 = 0 Overlaps\_4\_6 = 0 Overlaps\_4\_7 = 0 Overlaps\_4\_8 = 0 Overlaps\_5\_0 = 0 Overlaps\_5\_1 = 0 Overlaps\_5\_2 = 0 Overlaps\_5\_3 = 0 Overlaps\_5\_4 = 0 Overlaps\_5\_5 = 0 Overlaps\_5\_6 = 0 Overlaps\_5\_7 = 0 Overlaps\_5\_8 = 0 Overlaps\_6\_0 = 0 Overlaps\_6\_1 = 0 Overlaps\_6\_2 = 0 Overlaps\_6\_3 = 0 Overlaps\_6\_4 = 0 Overlaps\_6\_5 = 0 Overlaps\_6\_6 = 0 Overlaps\_6\_7 = 0 Overlaps\_6\_8 = 0 Overlaps\_7\_0 = 0 Overlaps\_7\_1 = 0 Overlaps\_7\_2 = 0 Overlaps\_7\_3 = 0 Overlaps\_7\_4 = 0 Overlaps\_7\_5 = 0 Overlaps\_7\_6 = 0 Overlaps\_7\_7 = 0 Overlaps\_7\_8 = 0 Overlaps\_8\_0 = 0 Overlaps\_8\_1 = 0 Overlaps\_8\_2 = 0 Overlaps\_8\_3 = 0 Overlaps\_8\_4 = 0 Overlaps\_8\_5 = 0 Overlaps\_8\_6 = 0 Overlaps\_8\_7 = 0 Overlaps\_8\_8 = 0 TMP\_0 = 1 not(TMP\_0) = 0 TMP\_1 = 1 not(TMP\_1) = 0 TMP\_2 = 1 not(TMP\_2) = 0 TMP\_3 = 1 not(TMP\_3) = 0 TMP\_4 = 1 not(TMP\_4) = 0 TMP\_5 = 0 not(TMP\_5) = 1 TMP\_6 = 5 TMP\_7 = 0 not(TMP\_7) = 1 TMP\_8 = 0 not(TMP\_8) = 1 TMP\_9 = 0 TMP\_10 = 1 not(TMP\_10) = 0 TMP\_11 = 1 not(TMP\_11) = 0 TMP\_12 = 2 TMP\_13 = 0 not(TMP\_13) = 1 TMP\_14 = 0 not(TMP\_14) = 1 TMP\_15 = 1 not(TMP\_15) = 0 TMP\_16 = 1 not(TMP\_16) = 0 TMP\_17 = 1 not(TMP\_17) = 0 TMP\_18 = 2 TMP\_19 = 1 not(TMP\_19) = 0 TMP\_20 = 0 not(TMP\_20) = 1 TMP\_21 = 1 not(TMP\_21) = 0 TMP\_22 = 1 not(TMP\_22) = 0 TMP\_23 = 1 not(TMP\_23) = 0 TMP\_24 = 0 not(TMP\_24) = 1 TMP\_25 = 4 TMP\_26 = 0 not(TMP\_26) = 1 TMP\_27 = 0 not(TMP\_27) = 1 TMP\_28 = 0 TMP\_29 = 1 not(TMP\_29) = 0 TMP\_30 = 1 not(TMP\_30) = 0 TMP\_31 = 2 TMP\_32 = 0 not(TMP\_32) = 1 TMP\_33 = 0 not(TMP\_33) = 1 TMP\_34 = 1 not(TMP\_34) = 0 TMP\_35 = 1 not(TMP\_35) = 0 TMP\_36 = 1 not(TMP\_36) = 0 TMP\_37 = 2 TMP\_38 = 1 not(TMP\_38) = 0 TMP\_39 = 0 not(TMP\_39) = 1 TMP\_40 = 1 not(TMP\_40) = 0 TMP\_41 = 1 not(TMP\_41) = 0 TMP\_42 = 1 not(TMP\_42) = 0 TMP\_43 = 1 not(TMP\_43) = 0 TMP\_44 = 5 TMP\_45 = 0 not(TMP\_45) = 1 TMP\_46 = 0 not(TMP\_46) = 1 TMP\_47 = 0 TMP\_48 = 1 not(TMP\_48) = 0 TMP\_49 = 1 not(TMP\_49) = 0 TMP\_50 = 2 TMP\_51 = 0 not(TMP\_51) = 1 TMP\_52 = 0 not(TMP\_52) = 1 TMP\_53 = 1 not(TMP\_53) = 0 TMP\_54 = 1 not(TMP\_54) = 0 TMP\_55 = 1 not(TMP\_55) = 0 TMP\_56 = 2 TMP\_57 = 1 not(TMP\_57) = 0 TMP\_58 = 0 not(TMP\_58) = 1 TMP\_59 = 1 not(TMP\_59) = 0 TMP\_60 = 1 not(TMP\_60) = 0 TMP\_61 = 1 not(TMP\_61) = 0 TMP\_62 = 1 not(TMP\_62) = 0 TMP\_63 = 5 TMP\_64 = 0 not(TMP\_64) = 1 TMP\_65 = 0 not(TMP\_65) = 1 TMP\_66 = 0 TMP\_67 = 1 not(TMP\_67) = 0 TMP\_68 = 1 not(TMP\_68) = 0 TMP\_69 = 2 TMP\_70 = 0 not(TMP\_70) = 1 TMP\_71 = 0 not(TMP\_71) = 1 TMP\_72 = 1 not(TMP\_72) = 0 TMP\_73 = 1 not(TMP\_73) = 0 TMP\_74 = 1 not(TMP\_74) = 0 TMP\_75 = 2 TMP\_76 = 1 not(TMP\_76) = 0 TMP\_77 = 0 not(TMP\_77) = 1 TMP\_78 = 1 not(TMP\_78) = 0 TMP\_79 = 1 not(TMP\_79) = 0 TMP\_80 = 1 not(TMP\_80) = 0 TMP\_81 = 1 not(TMP\_81) = 0 TMP\_82 = 5 TMP\_83 = 0 not(TMP\_83) = 1 TMP\_84 = 0 not(TMP\_84) = 1 TMP\_85 = 0 TMP\_86 = 1 not(TMP\_86) = 0 TMP\_87 = 1 not(TMP\_87) = 0 TMP\_88 = 2 TMP\_89 = 0 not(TMP\_89) = 1 TMP\_90 = 0 not(TMP\_90) = 1 TMP\_91 = 1 not(TMP\_91) = 0 TMP\_92 = 1 not(TMP\_92) = 0 TMP\_93 = 1 not(TMP\_93) = 0 TMP\_94 = 2 TMP\_95 = 1 not(TMP\_95) = 0 TMP\_96 = 0 not(TMP\_96) = 1 TMP\_97 = 1 not(TMP\_97) = 0 TMP\_98 = 1 not(TMP\_98) = 0 TMP\_99 = 1 not(TMP\_99) = 0 TMP\_100 = 1 not(TMP\_100) = 0 TMP\_101 = 5 TMP\_102 = 0 not(TMP\_102) = 1 TMP\_103 = 0 not(TMP\_103) = 1 TMP\_104 = 0 TMP\_105 = 1 not(TMP\_105) = 0 TMP\_106 = 1 not(TMP\_106) = 0 TMP\_107 = 2 TMP\_108 = 0 not(TMP\_108) = 1 TMP\_109 = 0 not(TMP\_109) = 1 TMP\_110 = 1 not(TMP\_110) = 0 TMP\_111 = 1 not(TMP\_111) = 0 TMP\_112 = 1 not(TMP\_112) = 0 TMP\_113 = 2 TMP\_114 = 1 not(TMP\_114) = 0 TMP\_115 = 0 not(TMP\_115) = 1 TMP\_116 = 1 not(TMP\_116) = 0 TMP\_117 = 1 not(TMP\_117) = 0 TMP\_118 = 1 not(TMP\_118) = 0 TMP\_119 = 0 not(TMP\_119) = 1 TMP\_120 = 4 TMP\_121 = 0 not(TMP\_121) = 1 TMP\_122 = 0 not(TMP\_122) = 1 TMP\_123 = 0 TMP\_124 = 1 not(TMP\_124) = 0 TMP\_125 = 1 not(TMP\_125) = 0 TMP\_126 = 2 TMP\_127 = 0 not(TMP\_127) = 1 TMP\_128 = 0 not(TMP\_128) = 1 TMP\_129 = 1 not(TMP\_129) = 0 TMP\_130 = 1 not(TMP\_130) = 0 TMP\_131 = 1 not(TMP\_131) = 0 TMP\_132 = 2 TMP\_133 = 1 not(TMP\_133) = 0 TMP\_134 = 1 not(TMP\_134) = 0 TMP\_135 = 1 not(TMP\_135) = 0 TMP\_136 = 1 not(TMP\_136) = 0 TMP\_137 = 1 not(TMP\_137) = 0 TMP\_138 = 0 not(TMP\_138) = 1 TMP\_139 = 5 TMP\_140 = 0 not(TMP\_140) = 1 TMP\_141 = 0 not(TMP\_141) = 1 TMP\_142 = 0 TMP\_143 = 1 not(TMP\_143) = 0 TMP\_144 = 1 not(TMP\_144) = 0 TMP\_145 = 2 TMP\_146 = 0 not(TMP\_146) = 1 TMP\_147 = 0 not(TMP\_147) = 1 TMP\_148 = 1 not(TMP\_148) = 0 TMP\_149 = 1 not(TMP\_149) = 0 TMP\_150 = 1 not(TMP\_150) = 0 TMP\_151 = 2 TMP\_152 = 0 not(TMP\_152) = 1 TMP\_153 = 1 not(TMP\_153) = 0 TMP\_154 = 1 not(TMP\_154) = 0 TMP\_155 = 1 not(TMP\_155) = 0 TMP\_156 = 1 not(TMP\_156) = 0 TMP\_157 = 0 not(TMP\_157) = 1 TMP\_158 = 4 TMP\_159 = 0 not(TMP\_159) = 1 TMP\_160 = 0 not(TMP\_160) = 1 TMP\_161 = 0 TMP\_162 = 1 not(TMP\_162) = 0 TMP\_163 = 1 not(TMP\_163) = 0 TMP\_164 = 2 TMP\_165 = 0 not(TMP\_165) = 1 TMP\_166 = 0 not(TMP\_166) = 1 TMP\_167 = 1 not(TMP\_167) = 0 TMP\_168 = 1 not(TMP\_168) = 0 TMP\_169 = 1 not(TMP\_169) = 0 TMP\_170 = 2 TMP\_171 = 0 not(TMP\_171) = 1 TMP\_172 = 1 not(TMP\_172) = 0 TMP\_173 = 1 not(TMP\_173) = 0 TMP\_174 = 1 not(TMP\_174) = 0 TMP\_175 = 1 not(TMP\_175) = 0 TMP\_176 = 0 not(TMP\_176) = 1 TMP\_177 = 4 TMP\_178 = 0 not(TMP\_178) = 1 TMP\_179 = 0 not(TMP\_179) = 1 TMP\_180 = 0 TMP\_181 = 1 not(TMP\_181) = 0 TMP\_182 = 1 not(TMP\_182) = 0 TMP\_183 = 2 TMP\_184 = 0 not(TMP\_184) = 1 TMP\_185 = 0 not(TMP\_185) = 1 TMP\_186 = 1 not(TMP\_186) = 0 TMP\_187 = 1 not(TMP\_187) = 0 TMP\_188 = 1 not(TMP\_188) = 0 TMP\_189 = 2 TMP\_190 = 0 not(TMP\_190) = 1 TMP\_191 = 1 not(TMP\_191) = 0 TMP\_192 = 1 not(TMP\_192) = 0 TMP\_193 = 1 not(TMP\_193) = 0 TMP\_194 = 1 not(TMP\_194) = 0 TMP\_195 = 1 not(TMP\_195) = 0 TMP\_196 = 5 TMP\_197 = 0 not(TMP\_197) = 1 TMP\_198 = 0 not(TMP\_198) = 1 TMP\_199 = 0 TMP\_200 = 1 not(TMP\_200) = 0 TMP\_201 = 1 not(TMP\_201) = 0 TMP\_202 = 2 TMP\_203 = 0 not(TMP\_203) = 1 TMP\_204 = 0 not(TMP\_204) = 1 TMP\_205 = 1 not(TMP\_205) = 0 TMP\_206 = 1 not(TMP\_206) = 0 TMP\_207 = 1 not(TMP\_207) = 0 TMP\_208 = 2 TMP\_209 = 0 not(TMP\_209) = 1 TMP\_210 = 1 not(TMP\_210) = 0 TMP\_211 = 1 not(TMP\_211) = 0 TMP\_212 = 1 not(TMP\_212) = 0 TMP\_213 = 1 not(TMP\_213) = 0 TMP\_214 = 1 not(TMP\_214) = 0 TMP\_215 = 5 TMP\_216 = 0 not(TMP\_216) = 1 TMP\_217 = 0 not(TMP\_217) = 1 TMP\_218 = 0 TMP\_219 = 1 not(TMP\_219) = 0 TMP\_220 = 1 not(TMP\_220) = 0 TMP\_221 = 2 TMP\_222 = 0 not(TMP\_222) = 1 TMP\_223 = 0 not(TMP\_223) = 1 TMP\_224 = 1 not(TMP\_224) = 0 TMP\_225 = 1 not(TMP\_225) = 0 TMP\_226 = 1 not(TMP\_226) = 0 TMP\_227 = 2 TMP\_228 = 1 not(TMP\_228) = 0 TMP\_229 = 0 not(TMP\_229) = 1 TMP\_230 = 1 not(TMP\_230) = 0 TMP\_231 = 1 not(TMP\_231) = 0 TMP\_232 = 1 not(TMP\_232) = 0 TMP\_233 = 1 not(TMP\_233) = 0 TMP\_234 = 5 TMP\_235 = 0 not(TMP\_235) = 1 TMP\_236 = 0 not(TMP\_236) = 1 TMP\_237 = 0 TMP\_238 = 1 not(TMP\_238) = 0 TMP\_239 = 1 not(TMP\_239) = 0 TMP\_240 = 2 TMP\_241 = 0 not(TMP\_241) = 1 TMP\_242 = 0 not(TMP\_242) = 1 TMP\_243 = 1 not(TMP\_243) = 0 TMP\_244 = 1 not(TMP\_244) = 0 TMP\_245 = 1 not(TMP\_245) = 0 TMP\_246 = 2 TMP\_247 = 0 not(TMP\_247) = 1 TMP\_248 = 1 not(TMP\_248) = 0 TMP\_249 = 1 not(TMP\_249) = 0 TMP\_250 = 1 not(TMP\_250) = 0 TMP\_251 = 1 not(TMP\_251) = 0 TMP\_252 = 1 not(TMP\_252) = 0 TMP\_253 = 5 TMP\_254 = 0 not(TMP\_254) = 1 TMP\_255 = 0 not(TMP\_255) = 1 TMP\_256 = 0 TMP\_257 = 1 not(TMP\_257) = 0 TMP\_258 = 1 not(TMP\_258) = 0 TMP\_259 = 2 TMP\_260 = 0 not(TMP\_260) = 1 TMP\_261 = 0 not(TMP\_261) = 1 TMP\_262 = 1 not(TMP\_262) = 0 TMP\_263 = 1 not(TMP\_263) = 0 TMP\_264 = 1 not(TMP\_264) = 0 TMP\_265 = 2 TMP\_266 = 1 not(TMP\_266) = 0 TMP\_267 = 1 not(TMP\_267) = 0 TMP\_268 = 1 not(TMP\_268) = 0 TMP\_269 = 1 not(TMP\_269) = 0 TMP\_270 = 1 not(TMP\_270) = 0 TMP\_271 = 0 not(TMP\_271) = 1 TMP\_272 = 5 TMP\_273 = 0 not(TMP\_273) = 1 TMP\_274 = 0 not(TMP\_274) = 1 TMP\_275 = 0 TMP\_276 = 1 not(TMP\_276) = 0 TMP\_277 = 1 not(TMP\_277) = 0 TMP\_278 = 2 TMP\_279 = 0 not(TMP\_279) = 1 TMP\_280 = 0 not(TMP\_280) = 1 TMP\_281 = 1 not(TMP\_281) = 0 TMP\_282 = 1 not(TMP\_282) = 0 TMP\_283 = 1 not(TMP\_283) = 0 TMP\_284 = 2 TMP\_285 = 0 not(TMP\_285) = 1 TMP\_286 = 1 not(TMP\_286) = 0 TMP\_287 = 1 not(TMP\_287) = 0 TMP\_288 = 1 not(TMP\_288) = 0 TMP\_289 = 1 not(TMP\_289) = 0 TMP\_290 = 0 not(TMP\_290) = 1 TMP\_291 = 4 TMP\_292 = 0 not(TMP\_292) = 1 TMP\_293 = 0 not(TMP\_293) = 1 TMP\_294 = 0 TMP\_295 = 1 not(TMP\_295) = 0 TMP\_296 = 1 not(TMP\_296) = 0 TMP\_297 = 2 TMP\_298 = 0 not(TMP\_298) = 1 TMP\_299 = 0 not(TMP\_299) = 1 TMP\_300 = 1 not(TMP\_300) = 0 TMP\_301 = 1 not(TMP\_301) = 0 TMP\_302 = 1 not(TMP\_302) = 0 TMP\_303 = 2 TMP\_304 = 0 not(TMP\_304) = 1 TMP\_305 = 1 not(TMP\_305) = 0 TMP\_306 = 1 not(TMP\_306) = 0 TMP\_307 = 1 not(TMP\_307) = 0 TMP\_308 = 1 not(TMP\_308) = 0 TMP\_309 = 1 not(TMP\_309) = 0 TMP\_310 = 5 TMP\_311 = 0 not(TMP\_311) = 1 TMP\_312 = 0 not(TMP\_312) = 1 TMP\_313 = 0 TMP\_314 = 1 not(TMP\_314) = 0 TMP\_315 = 1 not(TMP\_315) = 0 TMP\_316 = 2 TMP\_317 = 0 not(TMP\_317) = 1 TMP\_318 = 0 not(TMP\_318) = 1 TMP\_319 = 1 not(TMP\_319) = 0 TMP\_320 = 1 not(TMP\_320) = 0 TMP\_321 = 1 not(TMP\_321) = 0 TMP\_322 = 2 TMP\_323 = 0 not(TMP\_323) = 1 TMP\_324 = 1 not(TMP\_324) = 0 TMP\_325 = 1 not(TMP\_325) = 0 TMP\_326 = 1 not(TMP\_326) = 0 TMP\_327 = 1 not(TMP\_327) = 0 TMP\_328 = 1 not(TMP\_328) = 0 TMP\_329 = 5 TMP\_330 = 0 not(TMP\_330) = 1 TMP\_331 = 0 not(TMP\_331) = 1 TMP\_332 = 0 TMP\_333 = 1 not(TMP\_333) = 0 TMP\_334 = 1 not(TMP\_334) = 0 TMP\_335 = 2 TMP\_336 = 0 not(TMP\_336) = 1 TMP\_337 = 0 not(TMP\_337) = 1 TMP\_338 = 1 not(TMP\_338) = 0 TMP\_339 = 1 not(TMP\_339) = 0 TMP\_340 = 1 not(TMP\_340) = 0 TMP\_341 = 2 TMP\_342 = 0 not(TMP\_342) = 1 TMP\_343 = 1 not(TMP\_343) = 0 TMP\_344 = 1 not(TMP\_344) = 0 TMP\_345 = 1 not(TMP\_345) = 0 TMP\_346 = 0 not(TMP\_346) = 1 TMP\_347 = 1 not(TMP\_347) = 0 TMP\_348 = 4 TMP\_349 = 0 not(TMP\_349) = 1 TMP\_350 = 0 not(TMP\_350) = 1 TMP\_351 = 0 TMP\_352 = 1 not(TMP\_352) = 0 TMP\_353 = 1 not(TMP\_353) = 0 TMP\_354 = 2 TMP\_355 = 0 not(TMP\_355) = 1 TMP\_356 = 0 not(TMP\_356) = 1 TMP\_357 = 1 not(TMP\_357) = 0 TMP\_358 = 1 not(TMP\_358) = 0 TMP\_359 = 1 not(TMP\_359) = 0 TMP\_360 = 2 TMP\_361 = 0 not(TMP\_361) = 1 TMP\_362 = 1 not(TMP\_362) = 0 TMP\_363 = 1 not(TMP\_363) = 0 TMP\_364 = 1 not(TMP\_364) = 0 TMP\_365 = 0 not(TMP\_365) = 1 TMP\_366 = 1 not(TMP\_366) = 0 TMP\_367 = 4 TMP\_368 = 0 not(TMP\_368) = 1 TMP\_369 = 0 not(TMP\_369) = 1 TMP\_370 = 0 TMP\_371 = 1 not(TMP\_371) = 0 TMP\_372 = 1 not(TMP\_372) = 0 TMP\_373 = 2 TMP\_374 = 0 not(TMP\_374) = 1 TMP\_375 = 0 not(TMP\_375) = 1 TMP\_376 = 1 not(TMP\_376) = 0 TMP\_377 = 1 not(TMP\_377) = 0 TMP\_378 = 1 not(TMP\_378) = 0 TMP\_379 = 2 TMP\_380 = 1 not(TMP\_380) = 0 TMP\_381 = 1 not(TMP\_381) = 0 TMP\_382 = 1 not(TMP\_382) = 0 TMP\_383 = 1 not(TMP\_383) = 0 TMP\_384 = 0 not(TMP\_384) = 1 TMP\_385 = 1 not(TMP\_385) = 0 TMP\_386 = 5 TMP\_387 = 0 not(TMP\_387) = 1 TMP\_388 = 0 not(TMP\_388) = 1 TMP\_389 = 0 TMP\_390 = 1 not(TMP\_390) = 0 TMP\_391 = 1 not(TMP\_391) = 0 TMP\_392 = 2 TMP\_393 = 0 not(TMP\_393) = 1 TMP\_394 = 0 not(TMP\_394) = 1 TMP\_395 = 1 not(TMP\_395) = 0 TMP\_396 = 1 not(TMP\_396) = 0 TMP\_397 = 1 not(TMP\_397) = 0 TMP\_398 = 2 TMP\_399 = 0 not(TMP\_399) = 1 TMP\_400 = 1 not(TMP\_400) = 0 TMP\_401 = 1 not(TMP\_401) = 0 TMP\_402 = 1 not(TMP\_402) = 0 TMP\_403 = 0 not(TMP\_403) = 1 TMP\_404 = 1 not(TMP\_404) = 0 TMP\_405 = 4 TMP\_406 = 0 not(TMP\_406) = 1 TMP\_407 = 0 not(TMP\_407) = 1 TMP\_408 = 0 TMP\_409 = 1 not(TMP\_409) = 0 TMP\_410 = 1 not(TMP\_410) = 0 TMP\_411 = 2 TMP\_412 = 0 not(TMP\_412) = 1 TMP\_413 = 0 not(TMP\_413) = 1 TMP\_414 = 1 not(TMP\_414) = 0 TMP\_415 = 1 not(TMP\_415) = 0 TMP\_416 = 1 not(TMP\_416) = 0 TMP\_417 = 2 TMP\_418 = 1 not(TMP\_418) = 0 TMP\_419 = 1 not(TMP\_419) = 0 TMP\_420 = 1 not(TMP\_420) = 0 TMP\_421 = 1 not(TMP\_421) = 0 TMP\_422 = 0 not(TMP\_422) = 1 TMP\_423 = 1 not(TMP\_423) = 0 TMP\_424 = 5 TMP\_425 = 0 not(TMP\_425) = 1 TMP\_426 = 0 not(TMP\_426) = 1 TMP\_427 = 0 TMP\_428 = 1 not(TMP\_428) = 0 TMP\_429 = 1 not(TMP\_429) = 0 TMP\_430 = 2 TMP\_431 = 0 not(TMP\_431) = 1 TMP\_432 = 0 not(TMP\_432) = 1 TMP\_433 = 1 not(TMP\_433) = 0 TMP\_434 = 1 not(TMP\_434) = 0 TMP\_435 = 1 not(TMP\_435) = 0 TMP\_436 = 2 TMP\_437 = 0 not(TMP\_437) = 1 TMP\_438 = 1 not(TMP\_438) = 0 TMP\_439 = 1 not(TMP\_439) = 0 TMP\_440 = 1 not(TMP\_440) = 0 TMP\_441 = 1 not(TMP\_441) = 0 TMP\_442 = 1 not(TMP\_442) = 0 TMP\_443 = 5 TMP\_444 = 0 not(TMP\_444) = 1 TMP\_445 = 0 not(TMP\_445) = 1 TMP\_446 = 0 TMP\_447 = 1 not(TMP\_447) = 0 TMP\_448 = 1 not(TMP\_448) = 0 TMP\_449 = 2 TMP\_450 = 0 not(TMP\_450) = 1 TMP\_451 = 0 not(TMP\_451) = 1 TMP\_452 = 1 not(TMP\_452) = 0 TMP\_453 = 1 not(TMP\_453) = 0 TMP\_454 = 1 not(TMP\_454) = 0 TMP\_455 = 2 TMP\_456 = 0 not(TMP\_456) = 1 TMP\_457 = 1 not(TMP\_457) = 0 TMP\_458 = 1 not(TMP\_458) = 0 TMP\_459 = 1 not(TMP\_459) = 0 TMP\_460 = 1 not(TMP\_460) = 0 TMP\_461 = 1 not(TMP\_461) = 0 TMP\_462 = 5 TMP\_463 = 0 not(TMP\_463) = 1 TMP\_464 = 0 not(TMP\_464) = 1 TMP\_465 = 0 TMP\_466 = 1 not(TMP\_466) = 0 TMP\_467 = 1 not(TMP\_467) = 0 TMP\_468 = 2 TMP\_469 = 0 not(TMP\_469) = 1 TMP\_470 = 0 not(TMP\_470) = 1 TMP\_471 = 1 not(TMP\_471) = 0 TMP\_472 = 1 not(TMP\_472) = 0 TMP\_473 = 1 not(TMP\_473) = 0 TMP\_474 = 2 TMP\_475 = 1 not(TMP\_475) = 0 TMP\_476 = 0 not(TMP\_476) = 1 TMP\_477 = 1 not(TMP\_477) = 0 TMP\_478 = 1 not(TMP\_478) = 0 TMP\_479 = 1 not(TMP\_479) = 0 TMP\_480 = 1 not(TMP\_480) = 0 TMP\_481 = 5 TMP\_482 = 0 not(TMP\_482) = 1 TMP\_483 = 0 not(TMP\_483) = 1 TMP\_484 = 0 TMP\_485 = 1 not(TMP\_485) = 0 TMP\_486 = 1 not(TMP\_486) = 0 TMP\_487 = 2 TMP\_488 = 0 not(TMP\_488) = 1 TMP\_489 = 0 not(TMP\_489) = 1 TMP\_490 = 1 not(TMP\_490) = 0 TMP\_491 = 1 not(TMP\_491) = 0 TMP\_492 = 1 not(TMP\_492) = 0 TMP\_493 = 2 TMP\_494 = 1 not(TMP\_494) = 0 TMP\_495 = 0 not(TMP\_495) = 1 TMP\_496 = 1 not(TMP\_496) = 0 TMP\_497 = 1 not(TMP\_497) = 0 TMP\_498 = 0 not(TMP\_498) = 1 TMP\_499 = 1 not(TMP\_499) = 0 TMP\_500 = 4 TMP\_501 = 0 not(TMP\_501) = 1 TMP\_502 = 0 not(TMP\_502) = 1 TMP\_503 = 0 TMP\_504 = 1 not(TMP\_504) = 0 TMP\_505 = 1 not(TMP\_505) = 0 TMP\_506 = 2 TMP\_507 = 0 not(TMP\_507) = 1 TMP\_508 = 0 not(TMP\_508) = 1 TMP\_509 = 1 not(TMP\_509) = 0 TMP\_510 = 1 not(TMP\_510) = 0 TMP\_511 = 1 not(TMP\_511) = 0 TMP\_512 = 2 TMP\_513 = 1 not(TMP\_513) = 0 TMP\_514 = 0 not(TMP\_514) = 1 TMP\_515 = 1 not(TMP\_515) = 0 TMP\_516 = 1 not(TMP\_516) = 0 TMP\_517 = 0 not(TMP\_517) = 1 TMP\_518 = 1 not(TMP\_518) = 0 TMP\_519 = 4 TMP\_520 = 0 not(TMP\_520) = 1 TMP\_521 = 0 not(TMP\_521) = 1 TMP\_522 = 0 TMP\_523 = 1 not(TMP\_523) = 0 TMP\_524 = 1 not(TMP\_524) = 0 TMP\_525 = 2 TMP\_526 = 0 not(TMP\_526) = 1 TMP\_527 = 0 not(TMP\_527) = 1 TMP\_528 = 1 not(TMP\_528) = 0 TMP\_529 = 1 not(TMP\_529) = 0 TMP\_530 = 1 not(TMP\_530) = 0 TMP\_531 = 2 TMP\_532 = 1 not(TMP\_532) = 0 TMP\_533 = 0 not(TMP\_533) = 1 TMP\_534 = 1 not(TMP\_534) = 0 TMP\_535 = 1 not(TMP\_535) = 0 TMP\_536 = 0 not(TMP\_536) = 1 TMP\_537 = 1 not(TMP\_537) = 0 TMP\_538 = 4 TMP\_539 = 0 not(TMP\_539) = 1 TMP\_540 = 0 not(TMP\_540) = 1 TMP\_541 = 0 TMP\_542 = 1 not(TMP\_542) = 0 TMP\_543 = 1 not(TMP\_543) = 0 TMP\_544 = 2 TMP\_545 = 0 not(TMP\_545) = 1 TMP\_546 = 0 not(TMP\_546) = 1 TMP\_547 = 1 not(TMP\_547) = 0 TMP\_548 = 1 not(TMP\_548) = 0 TMP\_549 = 1 not(TMP\_549) = 0 TMP\_550 = 2 TMP\_551 = 1 not(TMP\_551) = 0 TMP\_552 = 1 not(TMP\_552) = 0 TMP\_553 = 1 not(TMP\_553) = 0 TMP\_554 = 1 not(TMP\_554) = 0 TMP\_555 = 0 not(TMP\_555) = 1 TMP\_556 = 1 not(TMP\_556) = 0 TMP\_557 = 5 TMP\_558 = 0 not(TMP\_558) = 1 TMP\_559 = 0 not(TMP\_559) = 1 TMP\_560 = 0 TMP\_561 = 1 not(TMP\_561) = 0 TMP\_562 = 1 not(TMP\_562) = 0 TMP\_563 = 2 TMP\_564 = 0 not(TMP\_564) = 1 TMP\_565 = 0 not(TMP\_565) = 1 TMP\_566 = 1 not(TMP\_566) = 0 TMP\_567 = 1 not(TMP\_567) = 0 TMP\_568 = 1 not(TMP\_568) = 0 TMP\_569 = 2 TMP\_570 = 1 not(TMP\_570) = 0 TMP\_571 = 0 not(TMP\_571) = 1 TMP\_572 = 1 not(TMP\_572) = 0 TMP\_573 = 1 not(TMP\_573) = 0 TMP\_574 = 0 not(TMP\_574) = 1 TMP\_575 = 1 not(TMP\_575) = 0 TMP\_576 = 4 TMP\_577 = 0 not(TMP\_577) = 1 TMP\_578 = 0 not(TMP\_578) = 1 TMP\_579 = 0 TMP\_580 = 1 not(TMP\_580) = 0 TMP\_581 = 1 not(TMP\_581) = 0 TMP\_582 = 2 TMP\_583 = 0 not(TMP\_583) = 1 TMP\_584 = 0 not(TMP\_584) = 1 TMP\_585 = 1 not(TMP\_585) = 0 TMP\_586 = 1 not(TMP\_586) = 0 TMP\_587 = 1 not(TMP\_587) = 0 TMP\_588 = 2 TMP\_589 = 1 not(TMP\_589) = 0 TMP\_590 = 0 not(TMP\_590) = 1 TMP\_591 = 1 not(TMP\_591) = 0 TMP\_592 = 1 not(TMP\_592) = 0 TMP\_593 = 1 not(TMP\_593) = 0 TMP\_594 = 1 not(TMP\_594) = 0 TMP\_595 = 5 TMP\_596 = 0 not(TMP\_596) = 1 TMP\_597 = 0 not(TMP\_597) = 1 TMP\_598 = 0 TMP\_599 = 1 not(TMP\_599) = 0 TMP\_600 = 1 not(TMP\_600) = 0 TMP\_601 = 2 TMP\_602 = 0 not(TMP\_602) = 1 TMP\_603 = 0 not(TMP\_603) = 1 TMP\_604 = 1 not(TMP\_604) = 0 TMP\_605 = 1 not(TMP\_605) = 0 TMP\_606 = 1 not(TMP\_606) = 0 TMP\_607 = 2 Area\_0 = 60 Distance\_0\_Rule\_0 = 20 Distance\_1\_Rule\_0 = 3 Distance\_2\_Rule\_0 = 1 Area\_1 = 174 Distance\_0\_Rule\_1 = 58 Distance\_1\_Rule\_1 = 3 Distance\_2\_Rule\_1 = 1 Area\_2 = 116 Distance\_0\_Rule\_2 = 58 Distance\_1\_Rule\_2 = 2 Distance\_2\_Rule\_2 = 1 Area\_3 = 58 Distance\_0\_Rule\_3 = 58 Distance\_1\_Rule\_3 = 1 Distance\_2\_Rule\_3 = 1 Area\_4 = 120 Distance\_0\_Rule\_4 = 40 Distance\_1\_Rule\_4 = 3 Distance\_2\_Rule\_4 = 1 Area\_5 = 63 -(Rule\_5\_LB) = 0 Distance\_0\_Rule\_5 = 21 -(Rule\_5\_LB) = 0 Distance\_1\_Rule\_5 = 3 -(Rule\_5\_LB) = 0 Distance\_2\_Rule\_5 = 1 Area\_6 = 3 -(Rule\_6\_LB) = -79 Distance\_0\_Rule\_6 = 1 -(Rule\_6\_LB) = 0 Distance\_1\_Rule\_6 = 3 -(Rule\_6\_LB) = 0 Distance\_2\_Rule\_6 = 1 Area\_7 = 123 -(Rule\_7\_LB) = -79 Distance\_0\_Rule\_7 = 41 -(Rule\_7\_LB) = 0 Distance\_1\_Rule\_7 = 3 -(Rule\_7\_LB) = -1 Distance\_2\_Rule\_7 = 1 Area\_8 = 3 -(Rule\_8\_LB) = -20 Distance\_0\_Rule\_8 = 1 -(Rule\_8\_LB) = 0 Distance\_1\_Rule\_8 = 3 -(Rule\_8\_LB) = -1 Distance\_2\_Rule\_8 = 1 TMP\_608 = 720 .

- Solution #6 found. 6 Solutions, Resolution 1.023s, 2296 Nodes (2,244.2 n/s), 4522 Backtracks, 2261 Fails, 0 Restarts

Rule\_5\_LB = 0 Rule\_5\_UB = 21 Rule\_5\_LB = 0 Rule\_5\_UB = 3 Rule\_5\_LB = 0 Rule\_5\_UB = 1 Rule\_6\_LB = 79 Rule\_6\_UB = 80 Rule\_6\_LB = 0 Rule\_6\_UB = 3 Rule\_6\_LB = 0 Rule\_6\_UB = 1 Rule\_7\_LB = 79 Rule\_7\_UB = 120 Rule\_7\_LB = 0 Rule\_7\_UB = 3 Rule\_7\_LB = 1 Rule\_7\_UB = 2 Rule\_8\_LB = 20 Rule\_8\_UB = 21 Rule\_8\_LB = 0 Rule\_8\_UB = 3 Rule\_8\_LB = 1 Rule\_8\_UB = 2 Overlaps\_0\_0 = 0 Overlaps\_0\_1 = 1 Overlaps\_0\_2 = 0 Overlaps\_0\_3 = 0 Overlaps\_0\_4 = 0 Overlaps\_0\_5 = 0 Overlaps\_0\_6 = 0 Overlaps\_0\_7 = 0 Overlaps\_0\_8 = 0 Overlaps\_1\_0 = 0 Overlaps\_1\_1 = 0 Overlaps\_1\_2 = 0 Overlaps\_1\_3 = 0 Overlaps\_1\_4 = 0 Overlaps\_1\_5 = 0 Overlaps\_1\_6 = 0 Overlaps\_1\_7 = 0 Overlaps\_1\_8 = 0 Overlaps\_2\_0 = 0 Overlaps\_2\_1 = 0 Overlaps\_2\_2 = 0 Overlaps\_2\_3 = 0 Overlaps\_2\_4 = 0 Overlaps\_2\_5 = 0 Overlaps\_2\_6 = 0 Overlaps\_2\_7 = 0 Overlaps\_2\_8 = 0 Overlaps\_3\_0 = 0 Overlaps\_3\_1 = 1 Overlaps\_3\_2 = 0 Overlaps\_3\_3 = 0 Overlaps\_3\_4 = 0 Overlaps\_3\_5 = 0 Overlaps\_3\_6 = 0 Overlaps\_3\_7 = 0 Overlaps\_3\_8 = 0 Overlaps\_4\_0 = 0 Overlaps\_4\_1 = 0 Overlaps\_4\_2 = 0 Overlaps\_4\_3 = 0 Overlaps\_4\_4 = 0 Overlaps\_4\_5 = 0 Overlaps\_4\_6 = 0 Overlaps\_4\_7 = 0 Overlaps\_4\_8 = 0 Overlaps\_5\_0 = 0 Overlaps\_5\_1 = 0 Overlaps\_5\_2 = 0 Overlaps\_5\_3 = 0 Overlaps\_5\_4 = 0 Overlaps\_5\_5 = 0 Overlaps\_5\_6 = 0 Overlaps\_5\_7 = 0 Overlaps\_5\_8 = 0 Overlaps\_6\_0 = 0 Overlaps\_6\_1 = 0 Overlaps\_6\_2 = 0 Overlaps\_6\_3 = 0 Overlaps\_6\_4 = 0 Overlaps\_6\_5 = 0 Overlaps\_6\_6 = 0 Overlaps\_6\_7 = 0 Overlaps\_6\_8 = 0 Overlaps\_7\_0 = 0 Overlaps\_7\_1 = 0 Overlaps\_7\_2 = 0 Overlaps\_7\_3 = 0 Overlaps\_7\_4 = 0 Overlaps\_7\_5 = 0 Overlaps\_7\_6 = 0 Overlaps\_7\_7 = 0 Overlaps\_7\_8 = 0 Overlaps\_8\_0 = 0 Overlaps\_8\_1 = 0 Overlaps\_8\_2 = 0 Overlaps\_8\_3 = 0 Overlaps\_8\_4 = 0 Overlaps\_8\_5 = 0 Overlaps\_8\_6 = 0 Overlaps\_8\_7 = 0 Overlaps\_8\_8 = 0 TMP\_0 = 1 not(TMP\_0) = 0 TMP\_1 = 1 not(TMP\_1) = 0 TMP\_2 = 1 not(TMP\_2) = 0 TMP\_3 = 1 not(TMP\_3) = 0 TMP\_4 = 1 not(TMP\_4) = 0 TMP\_5 = 0 not(TMP\_5) = 1 TMP\_6 = 5 TMP\_7 = 0 not(TMP\_7) = 1 TMP\_8 = 0 not(TMP\_8) = 1 TMP\_9 = 0 TMP\_10 = 1 not(TMP\_10) = 0 TMP\_11 = 1 not(TMP\_11) = 0 TMP\_12 = 2 TMP\_13 = 0 not(TMP\_13) = 1 TMP\_14 = 0 not(TMP\_14) = 1 TMP\_15 = 1 not(TMP\_15) = 0 TMP\_16 = 1 not(TMP\_16) = 0 TMP\_17 = 1 not(TMP\_17) = 0 TMP\_18 = 2 TMP\_19 = 1 not(TMP\_19) = 0 TMP\_20 = 0 not(TMP\_20) = 1 TMP\_21 = 1 not(TMP\_21) = 0 TMP\_22 = 1 not(TMP\_22) = 0 TMP\_23 = 1 not(TMP\_23) = 0 TMP\_24 = 0 not(TMP\_24) = 1 TMP\_25 = 4 TMP\_26 = 0 not(TMP\_26) = 1 TMP\_27 = 0 not(TMP\_27) = 1 TMP\_28 = 0 TMP\_29 = 1 not(TMP\_29) = 0 TMP\_30 = 1 not(TMP\_30) = 0 TMP\_31 = 2 TMP\_32 = 0 not(TMP\_32) = 1 TMP\_33 = 0 not(TMP\_33) = 1 TMP\_34 = 1 not(TMP\_34) = 0 TMP\_35 = 1 not(TMP\_35) = 0 TMP\_36 = 1 not(TMP\_36) = 0 TMP\_37 = 2 TMP\_38 = 1 not(TMP\_38) = 0 TMP\_39 = 0 not(TMP\_39) = 1 TMP\_40 = 1 not(TMP\_40) = 0 TMP\_41 = 1 not(TMP\_41) = 0 TMP\_42 = 1 not(TMP\_42) = 0 TMP\_43 = 1 not(TMP\_43) = 0 TMP\_44 = 5 TMP\_45 = 0 not(TMP\_45) = 1 TMP\_46 = 0 not(TMP\_46) = 1 TMP\_47 = 0 TMP\_48 = 1 not(TMP\_48) = 0 TMP\_49 = 1 not(TMP\_49) = 0 TMP\_50 = 2 TMP\_51 = 0 not(TMP\_51) = 1 TMP\_52 = 0 not(TMP\_52) = 1 TMP\_53 = 1 not(TMP\_53) = 0 TMP\_54 = 1 not(TMP\_54) = 0 TMP\_55 = 1 not(TMP\_55) = 0 TMP\_56 = 2 TMP\_57 = 1 not(TMP\_57) = 0 TMP\_58 = 0 not(TMP\_58) = 1 TMP\_59 = 1 not(TMP\_59) = 0 TMP\_60 = 1 not(TMP\_60) = 0 TMP\_61 = 1 not(TMP\_61) = 0 TMP\_62 = 1 not(TMP\_62) = 0 TMP\_63 = 5 TMP\_64 = 0 not(TMP\_64) = 1 TMP\_65 = 0 not(TMP\_65) = 1 TMP\_66 = 0 TMP\_67 = 1 not(TMP\_67) = 0 TMP\_68 = 1 not(TMP\_68) = 0 TMP\_69 = 2 TMP\_70 = 0 not(TMP\_70) = 1 TMP\_71 = 0 not(TMP\_71) = 1 TMP\_72 = 1 not(TMP\_72) = 0 TMP\_73 = 1 not(TMP\_73) = 0 TMP\_74 = 1 not(TMP\_74) = 0 TMP\_75 = 2 TMP\_76 = 1 not(TMP\_76) = 0 TMP\_77 = 0 not(TMP\_77) = 1 TMP\_78 = 1 not(TMP\_78) = 0 TMP\_79 = 1 not(TMP\_79) = 0 TMP\_80 = 1 not(TMP\_80) = 0 TMP\_81 = 1 not(TMP\_81) = 0 TMP\_82 = 5 TMP\_83 = 0 not(TMP\_83) = 1 TMP\_84 = 0 not(TMP\_84) = 1 TMP\_85 = 0 TMP\_86 = 1 not(TMP\_86) = 0 TMP\_87 = 1 not(TMP\_87) = 0 TMP\_88 = 2 TMP\_89 = 0 not(TMP\_89) = 1 TMP\_90 = 0 not(TMP\_90) = 1 TMP\_91 = 1 not(TMP\_91) = 0 TMP\_92 = 1 not(TMP\_92) = 0 TMP\_93 = 1 not(TMP\_93) = 0 TMP\_94 = 2 TMP\_95 = 1 not(TMP\_95) = 0 TMP\_96 = 0 not(TMP\_96) = 1 TMP\_97 = 1 not(TMP\_97) = 0 TMP\_98 = 1 not(TMP\_98) = 0 TMP\_99 = 1 not(TMP\_99) = 0 TMP\_100 = 1 not(TMP\_100) = 0 TMP\_101 = 5 TMP\_102 = 0 not(TMP\_102) = 1 TMP\_103 = 0 not(TMP\_103) = 1 TMP\_104 = 0 TMP\_105 = 1 not(TMP\_105) = 0 TMP\_106 = 1 not(TMP\_106) = 0 TMP\_107 = 2 TMP\_108 = 0 not(TMP\_108) = 1 TMP\_109 = 0 not(TMP\_109) = 1 TMP\_110 = 1 not(TMP\_110) = 0 TMP\_111 = 1 not(TMP\_111) = 0 TMP\_112 = 1 not(TMP\_112) = 0 TMP\_113 = 2 TMP\_114 = 1 not(TMP\_114) = 0 TMP\_115 = 0 not(TMP\_115) = 1 TMP\_116 = 1 not(TMP\_116) = 0 TMP\_117 = 1 not(TMP\_117) = 0 TMP\_118 = 1 not(TMP\_118) = 0 TMP\_119 = 0 not(TMP\_119) = 1 TMP\_120 = 4 TMP\_121 = 0 not(TMP\_121) = 1 TMP\_122 = 0 not(TMP\_122) = 1 TMP\_123 = 0 TMP\_124 = 1 not(TMP\_124) = 0 TMP\_125 = 1 not(TMP\_125) = 0 TMP\_126 = 2 TMP\_127 = 0 not(TMP\_127) = 1 TMP\_128 = 0 not(TMP\_128) = 1 TMP\_129 = 1 not(TMP\_129) = 0 TMP\_130 = 1 not(TMP\_130) = 0 TMP\_131 = 1 not(TMP\_131) = 0 TMP\_132 = 2 TMP\_133 = 1 not(TMP\_133) = 0 TMP\_134 = 1 not(TMP\_134) = 0 TMP\_135 = 1 not(TMP\_135) = 0 TMP\_136 = 1 not(TMP\_136) = 0 TMP\_137 = 1 not(TMP\_137) = 0 TMP\_138 = 0 not(TMP\_138) = 1 TMP\_139 = 5 TMP\_140 = 0 not(TMP\_140) = 1 TMP\_141 = 0 not(TMP\_141) = 1 TMP\_142 = 0 TMP\_143 = 1 not(TMP\_143) = 0 TMP\_144 = 1 not(TMP\_144) = 0 TMP\_145 = 2 TMP\_146 = 0 not(TMP\_146) = 1 TMP\_147 = 0 not(TMP\_147) = 1 TMP\_148 = 1 not(TMP\_148) = 0 TMP\_149 = 1 not(TMP\_149) = 0 TMP\_150 = 1 not(TMP\_150) = 0 TMP\_151 = 2 TMP\_152 = 0 not(TMP\_152) = 1 TMP\_153 = 1 not(TMP\_153) = 0 TMP\_154 = 1 not(TMP\_154) = 0 TMP\_155 = 1 not(TMP\_155) = 0 TMP\_156 = 1 not(TMP\_156) = 0 TMP\_157 = 0 not(TMP\_157) = 1 TMP\_158 = 4 TMP\_159 = 0 not(TMP\_159) = 1 TMP\_160 = 0 not(TMP\_160) = 1 TMP\_161 = 0 TMP\_162 = 1 not(TMP\_162) = 0 TMP\_163 = 1 not(TMP\_163) = 0 TMP\_164 = 2 TMP\_165 = 0 not(TMP\_165) = 1 TMP\_166 = 0 not(TMP\_166) = 1 TMP\_167 = 1 not(TMP\_167) = 0 TMP\_168 = 1 not(TMP\_168) = 0 TMP\_169 = 1 not(TMP\_169) = 0 TMP\_170 = 2 TMP\_171 = 0 not(TMP\_171) = 1 TMP\_172 = 1 not(TMP\_172) = 0 TMP\_173 = 1 not(TMP\_173) = 0 TMP\_174 = 1 not(TMP\_174) = 0 TMP\_175 = 1 not(TMP\_175) = 0 TMP\_176 = 0 not(TMP\_176) = 1 TMP\_177 = 4 TMP\_178 = 0 not(TMP\_178) = 1 TMP\_179 = 0 not(TMP\_179) = 1 TMP\_180 = 0 TMP\_181 = 1 not(TMP\_181) = 0 TMP\_182 = 1 not(TMP\_182) = 0 TMP\_183 = 2 TMP\_184 = 0 not(TMP\_184) = 1 TMP\_185 = 0 not(TMP\_185) = 1 TMP\_186 = 1 not(TMP\_186) = 0 TMP\_187 = 1 not(TMP\_187) = 0 TMP\_188 = 1 not(TMP\_188) = 0 TMP\_189 = 2 TMP\_190 = 0 not(TMP\_190) = 1 TMP\_191 = 1 not(TMP\_191) = 0 TMP\_192 = 1 not(TMP\_192) = 0 TMP\_193 = 1 not(TMP\_193) = 0 TMP\_194 = 1 not(TMP\_194) = 0 TMP\_195 = 1 not(TMP\_195) = 0 TMP\_196 = 5 TMP\_197 = 0 not(TMP\_197) = 1 TMP\_198 = 0 not(TMP\_198) = 1 TMP\_199 = 0 TMP\_200 = 1 not(TMP\_200) = 0 TMP\_201 = 1 not(TMP\_201) = 0 TMP\_202 = 2 TMP\_203 = 0 not(TMP\_203) = 1 TMP\_204 = 0 not(TMP\_204) = 1 TMP\_205 = 1 not(TMP\_205) = 0 TMP\_206 = 1 not(TMP\_206) = 0 TMP\_207 = 1 not(TMP\_207) = 0 TMP\_208 = 2 TMP\_209 = 0 not(TMP\_209) = 1 TMP\_210 = 1 not(TMP\_210) = 0 TMP\_211 = 1 not(TMP\_211) = 0 TMP\_212 = 1 not(TMP\_212) = 0 TMP\_213 = 1 not(TMP\_213) = 0 TMP\_214 = 1 not(TMP\_214) = 0 TMP\_215 = 5 TMP\_216 = 0 not(TMP\_216) = 1 TMP\_217 = 0 not(TMP\_217) = 1 TMP\_218 = 0 TMP\_219 = 1 not(TMP\_219) = 0 TMP\_220 = 1 not(TMP\_220) = 0 TMP\_221 = 2 TMP\_222 = 0 not(TMP\_222) = 1 TMP\_223 = 0 not(TMP\_223) = 1 TMP\_224 = 1 not(TMP\_224) = 0 TMP\_225 = 1 not(TMP\_225) = 0 TMP\_226 = 1 not(TMP\_226) = 0 TMP\_227 = 2 TMP\_228 = 1 not(TMP\_228) = 0 TMP\_229 = 0 not(TMP\_229) = 1 TMP\_230 = 1 not(TMP\_230) = 0 TMP\_231 = 1 not(TMP\_231) = 0 TMP\_232 = 1 not(TMP\_232) = 0 TMP\_233 = 1 not(TMP\_233) = 0 TMP\_234 = 5 TMP\_235 = 0 not(TMP\_235) = 1 TMP\_236 = 0 not(TMP\_236) = 1 TMP\_237 = 0 TMP\_238 = 1 not(TMP\_238) = 0 TMP\_239 = 1 not(TMP\_239) = 0 TMP\_240 = 2 TMP\_241 = 0 not(TMP\_241) = 1 TMP\_242 = 0 not(TMP\_242) = 1 TMP\_243 = 1 not(TMP\_243) = 0 TMP\_244 = 1 not(TMP\_244) = 0 TMP\_245 = 1 not(TMP\_245) = 0 TMP\_246 = 2 TMP\_247 = 0 not(TMP\_247) = 1 TMP\_248 = 1 not(TMP\_248) = 0 TMP\_249 = 1 not(TMP\_249) = 0 TMP\_250 = 1 not(TMP\_250) = 0 TMP\_251 = 1 not(TMP\_251) = 0 TMP\_252 = 1 not(TMP\_252) = 0 TMP\_253 = 5 TMP\_254 = 0 not(TMP\_254) = 1 TMP\_255 = 0 not(TMP\_255) = 1 TMP\_256 = 0 TMP\_257 = 1 not(TMP\_257) = 0 TMP\_258 = 1 not(TMP\_258) = 0 TMP\_259 = 2 TMP\_260 = 0 not(TMP\_260) = 1 TMP\_261 = 0 not(TMP\_261) = 1 TMP\_262 = 1 not(TMP\_262) = 0 TMP\_263 = 1 not(TMP\_263) = 0 TMP\_264 = 1 not(TMP\_264) = 0 TMP\_265 = 2 TMP\_266 = 1 not(TMP\_266) = 0 TMP\_267 = 1 not(TMP\_267) = 0 TMP\_268 = 1 not(TMP\_268) = 0 TMP\_269 = 1 not(TMP\_269) = 0 TMP\_270 = 1 not(TMP\_270) = 0 TMP\_271 = 0 not(TMP\_271) = 1 TMP\_272 = 5 TMP\_273 = 0 not(TMP\_273) = 1 TMP\_274 = 0 not(TMP\_274) = 1 TMP\_275 = 0 TMP\_276 = 1 not(TMP\_276) = 0 TMP\_277 = 1 not(TMP\_277) = 0 TMP\_278 = 2 TMP\_279 = 0 not(TMP\_279) = 1 TMP\_280 = 0 not(TMP\_280) = 1 TMP\_281 = 1 not(TMP\_281) = 0 TMP\_282 = 1 not(TMP\_282) = 0 TMP\_283 = 1 not(TMP\_283) = 0 TMP\_284 = 2 TMP\_285 = 0 not(TMP\_285) = 1 TMP\_286 = 1 not(TMP\_286) = 0 TMP\_287 = 1 not(TMP\_287) = 0 TMP\_288 = 1 not(TMP\_288) = 0 TMP\_289 = 1 not(TMP\_289) = 0 TMP\_290 = 0 not(TMP\_290) = 1 TMP\_291 = 4 TMP\_292 = 0 not(TMP\_292) = 1 TMP\_293 = 0 not(TMP\_293) = 1 TMP\_294 = 0 TMP\_295 = 1 not(TMP\_295) = 0 TMP\_296 = 1 not(TMP\_296) = 0 TMP\_297 = 2 TMP\_298 = 0 not(TMP\_298) = 1 TMP\_299 = 0 not(TMP\_299) = 1 TMP\_300 = 1 not(TMP\_300) = 0 TMP\_301 = 1 not(TMP\_301) = 0 TMP\_302 = 1 not(TMP\_302) = 0 TMP\_303 = 2 TMP\_304 = 0 not(TMP\_304) = 1 TMP\_305 = 1 not(TMP\_305) = 0 TMP\_306 = 1 not(TMP\_306) = 0 TMP\_307 = 1 not(TMP\_307) = 0 TMP\_308 = 1 not(TMP\_308) = 0 TMP\_309 = 1 not(TMP\_309) = 0 TMP\_310 = 5 TMP\_311 = 0 not(TMP\_311) = 1 TMP\_312 = 0 not(TMP\_312) = 1 TMP\_313 = 0 TMP\_314 = 1 not(TMP\_314) = 0 TMP\_315 = 1 not(TMP\_315) = 0 TMP\_316 = 2 TMP\_317 = 0 not(TMP\_317) = 1 TMP\_318 = 0 not(TMP\_318) = 1 TMP\_319 = 1 not(TMP\_319) = 0 TMP\_320 = 1 not(TMP\_320) = 0 TMP\_321 = 1 not(TMP\_321) = 0 TMP\_322 = 2 TMP\_323 = 0 not(TMP\_323) = 1 TMP\_324 = 1 not(TMP\_324) = 0 TMP\_325 = 1 not(TMP\_325) = 0 TMP\_326 = 1 not(TMP\_326) = 0 TMP\_327 = 1 not(TMP\_327) = 0 TMP\_328 = 1 not(TMP\_328) = 0 TMP\_329 = 5 TMP\_330 = 0 not(TMP\_330) = 1 TMP\_331 = 0 not(TMP\_331) = 1 TMP\_332 = 0 TMP\_333 = 1 not(TMP\_333) = 0 TMP\_334 = 1 not(TMP\_334) = 0 TMP\_335 = 2 TMP\_336 = 0 not(TMP\_336) = 1 TMP\_337 = 0 not(TMP\_337) = 1 TMP\_338 = 1 not(TMP\_338) = 0 TMP\_339 = 1 not(TMP\_339) = 0 TMP\_340 = 1 not(TMP\_340) = 0 TMP\_341 = 2 TMP\_342 = 0 not(TMP\_342) = 1 TMP\_343 = 1 not(TMP\_343) = 0 TMP\_344 = 1 not(TMP\_344) = 0 TMP\_345 = 1 not(TMP\_345) = 0 TMP\_346 = 0 not(TMP\_346) = 1 TMP\_347 = 1 not(TMP\_347) = 0 TMP\_348 = 4 TMP\_349 = 0 not(TMP\_349) = 1 TMP\_350 = 0 not(TMP\_350) = 1 TMP\_351 = 0 TMP\_352 = 1 not(TMP\_352) = 0 TMP\_353 = 1 not(TMP\_353) = 0 TMP\_354 = 2 TMP\_355 = 0 not(TMP\_355) = 1 TMP\_356 = 0 not(TMP\_356) = 1 TMP\_357 = 1 not(TMP\_357) = 0 TMP\_358 = 1 not(TMP\_358) = 0 TMP\_359 = 1 not(TMP\_359) = 0 TMP\_360 = 2 TMP\_361 = 0 not(TMP\_361) = 1 TMP\_362 = 1 not(TMP\_362) = 0 TMP\_363 = 1 not(TMP\_363) = 0 TMP\_364 = 1 not(TMP\_364) = 0 TMP\_365 = 0 not(TMP\_365) = 1 TMP\_366 = 1 not(TMP\_366) = 0 TMP\_367 = 4 TMP\_368 = 0 not(TMP\_368) = 1 TMP\_369 = 0 not(TMP\_369) = 1 TMP\_370 = 0 TMP\_371 = 1 not(TMP\_371) = 0 TMP\_372 = 1 not(TMP\_372) = 0 TMP\_373 = 2 TMP\_374 = 0 not(TMP\_374) = 1 TMP\_375 = 0 not(TMP\_375) = 1 TMP\_376 = 1 not(TMP\_376) = 0 TMP\_377 = 1 not(TMP\_377) = 0 TMP\_378 = 1 not(TMP\_378) = 0 TMP\_379 = 2 TMP\_380 = 1 not(TMP\_380) = 0 TMP\_381 = 1 not(TMP\_381) = 0 TMP\_382 = 1 not(TMP\_382) = 0 TMP\_383 = 1 not(TMP\_383) = 0 TMP\_384 = 0 not(TMP\_384) = 1 TMP\_385 = 1 not(TMP\_385) = 0 TMP\_386 = 5 TMP\_387 = 0 not(TMP\_387) = 1 TMP\_388 = 0 not(TMP\_388) = 1 TMP\_389 = 0 TMP\_390 = 1 not(TMP\_390) = 0 TMP\_391 = 1 not(TMP\_391) = 0 TMP\_392 = 2 TMP\_393 = 0 not(TMP\_393) = 1 TMP\_394 = 0 not(TMP\_394) = 1 TMP\_395 = 1 not(TMP\_395) = 0 TMP\_396 = 1 not(TMP\_396) = 0 TMP\_397 = 1 not(TMP\_397) = 0 TMP\_398 = 2 TMP\_399 = 0 not(TMP\_399) = 1 TMP\_400 = 1 not(TMP\_400) = 0 TMP\_401 = 1 not(TMP\_401) = 0 TMP\_402 = 1 not(TMP\_402) = 0 TMP\_403 = 0 not(TMP\_403) = 1 TMP\_404 = 1 not(TMP\_404) = 0 TMP\_405 = 4 TMP\_406 = 0 not(TMP\_406) = 1 TMP\_407 = 0 not(TMP\_407) = 1 TMP\_408 = 0 TMP\_409 = 1 not(TMP\_409) = 0 TMP\_410 = 1 not(TMP\_410) = 0 TMP\_411 = 2 TMP\_412 = 0 not(TMP\_412) = 1 TMP\_413 = 0 not(TMP\_413) = 1 TMP\_414 = 1 not(TMP\_414) = 0 TMP\_415 = 1 not(TMP\_415) = 0 TMP\_416 = 1 not(TMP\_416) = 0 TMP\_417 = 2 TMP\_418 = 1 not(TMP\_418) = 0 TMP\_419 = 1 not(TMP\_419) = 0 TMP\_420 = 1 not(TMP\_420) = 0 TMP\_421 = 1 not(TMP\_421) = 0 TMP\_422 = 0 not(TMP\_422) = 1 TMP\_423 = 1 not(TMP\_423) = 0 TMP\_424 = 5 TMP\_425 = 0 not(TMP\_425) = 1 TMP\_426 = 0 not(TMP\_426) = 1 TMP\_427 = 0 TMP\_428 = 1 not(TMP\_428) = 0 TMP\_429 = 1 not(TMP\_429) = 0 TMP\_430 = 2 TMP\_431 = 0 not(TMP\_431) = 1 TMP\_432 = 0 not(TMP\_432) = 1 TMP\_433 = 1 not(TMP\_433) = 0 TMP\_434 = 1 not(TMP\_434) = 0 TMP\_435 = 1 not(TMP\_435) = 0 TMP\_436 = 2 TMP\_437 = 0 not(TMP\_437) = 1 TMP\_438 = 1 not(TMP\_438) = 0 TMP\_439 = 1 not(TMP\_439) = 0 TMP\_440 = 1 not(TMP\_440) = 0 TMP\_441 = 1 not(TMP\_441) = 0 TMP\_442 = 1 not(TMP\_442) = 0 TMP\_443 = 5 TMP\_444 = 0 not(TMP\_444) = 1 TMP\_445 = 0 not(TMP\_445) = 1 TMP\_446 = 0 TMP\_447 = 1 not(TMP\_447) = 0 TMP\_448 = 1 not(TMP\_448) = 0 TMP\_449 = 2 TMP\_450 = 0 not(TMP\_450) = 1 TMP\_451 = 0 not(TMP\_451) = 1 TMP\_452 = 1 not(TMP\_452) = 0 TMP\_453 = 1 not(TMP\_453) = 0 TMP\_454 = 1 not(TMP\_454) = 0 TMP\_455 = 2 TMP\_456 = 0 not(TMP\_456) = 1 TMP\_457 = 1 not(TMP\_457) = 0 TMP\_458 = 1 not(TMP\_458) = 0 TMP\_459 = 1 not(TMP\_459) = 0 TMP\_460 = 1 not(TMP\_460) = 0 TMP\_461 = 1 not(TMP\_461) = 0 TMP\_462 = 5 TMP\_463 = 0 not(TMP\_463) = 1 TMP\_464 = 0 not(TMP\_464) = 1 TMP\_465 = 0 TMP\_466 = 1 not(TMP\_466) = 0 TMP\_467 = 1 not(TMP\_467) = 0 TMP\_468 = 2 TMP\_469 = 0 not(TMP\_469) = 1 TMP\_470 = 0 not(TMP\_470) = 1 TMP\_471 = 1 not(TMP\_471) = 0 TMP\_472 = 1 not(TMP\_472) = 0 TMP\_473 = 1 not(TMP\_473) = 0 TMP\_474 = 2 TMP\_475 = 1 not(TMP\_475) = 0 TMP\_476 = 0 not(TMP\_476) = 1 TMP\_477 = 1 not(TMP\_477) = 0 TMP\_478 = 1 not(TMP\_478) = 0 TMP\_479 = 1 not(TMP\_479) = 0 TMP\_480 = 1 not(TMP\_480) = 0 TMP\_481 = 5 TMP\_482 = 0 not(TMP\_482) = 1 TMP\_483 = 0 not(TMP\_483) = 1 TMP\_484 = 0 TMP\_485 = 1 not(TMP\_485) = 0 TMP\_486 = 1 not(TMP\_486) = 0 TMP\_487 = 2 TMP\_488 = 0 not(TMP\_488) = 1 TMP\_489 = 0 not(TMP\_489) = 1 TMP\_490 = 1 not(TMP\_490) = 0 TMP\_491 = 1 not(TMP\_491) = 0 TMP\_492 = 1 not(TMP\_492) = 0 TMP\_493 = 2 TMP\_494 = 1 not(TMP\_494) = 0 TMP\_495 = 0 not(TMP\_495) = 1 TMP\_496 = 1 not(TMP\_496) = 0 TMP\_497 = 1 not(TMP\_497) = 0 TMP\_498 = 0 not(TMP\_498) = 1 TMP\_499 = 1 not(TMP\_499) = 0 TMP\_500 = 4 TMP\_501 = 0 not(TMP\_501) = 1 TMP\_502 = 0 not(TMP\_502) = 1 TMP\_503 = 0 TMP\_504 = 1 not(TMP\_504) = 0 TMP\_505 = 1 not(TMP\_505) = 0 TMP\_506 = 2 TMP\_507 = 0 not(TMP\_507) = 1 TMP\_508 = 0 not(TMP\_508) = 1 TMP\_509 = 1 not(TMP\_509) = 0 TMP\_510 = 1 not(TMP\_510) = 0 TMP\_511 = 1 not(TMP\_511) = 0 TMP\_512 = 2 TMP\_513 = 1 not(TMP\_513) = 0 TMP\_514 = 0 not(TMP\_514) = 1 TMP\_515 = 1 not(TMP\_515) = 0 TMP\_516 = 1 not(TMP\_516) = 0 TMP\_517 = 0 not(TMP\_517) = 1 TMP\_518 = 1 not(TMP\_518) = 0 TMP\_519 = 4 TMP\_520 = 0 not(TMP\_520) = 1 TMP\_521 = 0 not(TMP\_521) = 1 TMP\_522 = 0 TMP\_523 = 1 not(TMP\_523) = 0 TMP\_524 = 1 not(TMP\_524) = 0 TMP\_525 = 2 TMP\_526 = 0 not(TMP\_526) = 1 TMP\_527 = 0 not(TMP\_527) = 1 TMP\_528 = 1 not(TMP\_528) = 0 TMP\_529 = 1 not(TMP\_529) = 0 TMP\_530 = 1 not(TMP\_530) = 0 TMP\_531 = 2 TMP\_532 = 1 not(TMP\_532) = 0 TMP\_533 = 0 not(TMP\_533) = 1 TMP\_534 = 1 not(TMP\_534) = 0 TMP\_535 = 1 not(TMP\_535) = 0 TMP\_536 = 0 not(TMP\_536) = 1 TMP\_537 = 1 not(TMP\_537) = 0 TMP\_538 = 4 TMP\_539 = 0 not(TMP\_539) = 1 TMP\_540 = 0 not(TMP\_540) = 1 TMP\_541 = 0 TMP\_542 = 1 not(TMP\_542) = 0 TMP\_543 = 1 not(TMP\_543) = 0 TMP\_544 = 2 TMP\_545 = 0 not(TMP\_545) = 1 TMP\_546 = 0 not(TMP\_546) = 1 TMP\_547 = 1 not(TMP\_547) = 0 TMP\_548 = 1 not(TMP\_548) = 0 TMP\_549 = 1 not(TMP\_549) = 0 TMP\_550 = 2 TMP\_551 = 1 not(TMP\_551) = 0 TMP\_552 = 1 not(TMP\_552) = 0 TMP\_553 = 1 not(TMP\_553) = 0 TMP\_554 = 1 not(TMP\_554) = 0 TMP\_555 = 0 not(TMP\_555) = 1 TMP\_556 = 1 not(TMP\_556) = 0 TMP\_557 = 5 TMP\_558 = 0 not(TMP\_558) = 1 TMP\_559 = 0 not(TMP\_559) = 1 TMP\_560 = 0 TMP\_561 = 1 not(TMP\_561) = 0 TMP\_562 = 1 not(TMP\_562) = 0 TMP\_563 = 2 TMP\_564 = 0 not(TMP\_564) = 1 TMP\_565 = 0 not(TMP\_565) = 1 TMP\_566 = 1 not(TMP\_566) = 0 TMP\_567 = 1 not(TMP\_567) = 0 TMP\_568 = 1 not(TMP\_568) = 0 TMP\_569 = 2 TMP\_570 = 1 not(TMP\_570) = 0 TMP\_571 = 0 not(TMP\_571) = 1 TMP\_572 = 1 not(TMP\_572) = 0 TMP\_573 = 1 not(TMP\_573) = 0 TMP\_574 = 0 not(TMP\_574) = 1 TMP\_575 = 1 not(TMP\_575) = 0 TMP\_576 = 4 TMP\_577 = 0 not(TMP\_577) = 1 TMP\_578 = 0 not(TMP\_578) = 1 TMP\_579 = 0 TMP\_580 = 1 not(TMP\_580) = 0 TMP\_581 = 1 not(TMP\_581) = 0 TMP\_582 = 2 TMP\_583 = 0 not(TMP\_583) = 1 TMP\_584 = 0 not(TMP\_584) = 1 TMP\_585 = 1 not(TMP\_585) = 0 TMP\_586 = 1 not(TMP\_586) = 0 TMP\_587 = 1 not(TMP\_587) = 0 TMP\_588 = 2 TMP\_589 = 1 not(TMP\_589) = 0 TMP\_590 = 0 not(TMP\_590) = 1 TMP\_591 = 1 not(TMP\_591) = 0 TMP\_592 = 1 not(TMP\_592) = 0 TMP\_593 = 1 not(TMP\_593) = 0 TMP\_594 = 1 not(TMP\_594) = 0 TMP\_595 = 5 TMP\_596 = 0 not(TMP\_596) = 1 TMP\_597 = 0 not(TMP\_597) = 1 TMP\_598 = 0 TMP\_599 = 1 not(TMP\_599) = 0 TMP\_600 = 1 not(TMP\_600) = 0 TMP\_601 = 2 TMP\_602 = 0 not(TMP\_602) = 1 TMP\_603 = 0 not(TMP\_603) = 1 TMP\_604 = 1 not(TMP\_604) = 0 TMP\_605 = 1 not(TMP\_605) = 0 TMP\_606 = 1 not(TMP\_606) = 0 TMP\_607 = 2 Area\_0 = 60 Distance\_0\_Rule\_0 = 20 Distance\_1\_Rule\_0 = 3 Distance\_2\_Rule\_0 = 1 Area\_1 = 174 Distance\_0\_Rule\_1 = 58 Distance\_1\_Rule\_1 = 3 Distance\_2\_Rule\_1 = 1 Area\_2 = 116 Distance\_0\_Rule\_2 = 58 Distance\_1\_Rule\_2 = 2 Distance\_2\_Rule\_2 = 1 Area\_3 = 58 Distance\_0\_Rule\_3 = 58 Distance\_1\_Rule\_3 = 1 Distance\_2\_Rule\_3 = 1 Area\_4 = 120 Distance\_0\_Rule\_4 = 40 Distance\_1\_Rule\_4 = 3 Distance\_2\_Rule\_4 = 1 Area\_5 = 63 -(Rule\_5\_LB) = 0 Distance\_0\_Rule\_5 = 21 -(Rule\_5\_LB) = 0 Distance\_1\_Rule\_5 = 3 -(Rule\_5\_LB) = 0 Distance\_2\_Rule\_5 = 1 Area\_6 = 3 -(Rule\_6\_LB) = -79 Distance\_0\_Rule\_6 = 1 -(Rule\_6\_LB) = 0 Distance\_1\_Rule\_6 = 3 -(Rule\_6\_LB) = 0 Distance\_2\_Rule\_6 = 1 Area\_7 = 123 -(Rule\_7\_LB) = -79 Distance\_0\_Rule\_7 = 41 -(Rule\_7\_LB) = 0 Distance\_1\_Rule\_7 = 3 -(Rule\_7\_LB) = -1 Distance\_2\_Rule\_7 = 1 Area\_8 = 3 -(Rule\_8\_LB) = -20 Distance\_0\_Rule\_8 = 1 -(Rule\_8\_LB) = 0 Distance\_1\_Rule\_8 = 3 -(Rule\_8\_LB) = -1 Distance\_2\_Rule\_8 = 1 TMP\_608 = 720 .

- Solution #7 found. 7 Solutions, Resolution 1.029s, 2298 Nodes (2,232.8 n/s), 4524 Backtracks, 2261 Fails, 0 Restarts

Rule\_5\_LB = 0 Rule\_5\_UB = 21 Rule\_5\_LB = 0 Rule\_5\_UB = 3 Rule\_5\_LB = 0 Rule\_5\_UB = 1 Rule\_6\_LB = 79 Rule\_6\_UB = 80 Rule\_6\_LB = 0 Rule\_6\_UB = 3 Rule\_6\_LB = 0 Rule\_6\_UB = 1 Rule\_7\_LB = 79 Rule\_7\_UB = 120 Rule\_7\_LB = 0 Rule\_7\_UB = 3 Rule\_7\_LB = 1 Rule\_7\_UB = 2 Rule\_8\_LB = 20 Rule\_8\_UB = 21 Rule\_8\_LB = 0 Rule\_8\_UB = 3 Rule\_8\_LB = 1 Rule\_8\_UB = 2 Overlaps\_0\_0 = 0 Overlaps\_0\_1 = 1 Overlaps\_0\_2 = 0 Overlaps\_0\_3 = 0 Overlaps\_0\_4 = 0 Overlaps\_0\_5 = 0 Overlaps\_0\_6 = 0 Overlaps\_0\_7 = 0 Overlaps\_0\_8 = 0 Overlaps\_1\_0 = 0 Overlaps\_1\_1 = 0 Overlaps\_1\_2 = 0 Overlaps\_1\_3 = 0 Overlaps\_1\_4 = 0 Overlaps\_1\_5 = 0 Overlaps\_1\_6 = 0 Overlaps\_1\_7 = 0 Overlaps\_1\_8 = 0 Overlaps\_2\_0 = 0 Overlaps\_2\_1 = 0 Overlaps\_2\_2 = 0 Overlaps\_2\_3 = 0 Overlaps\_2\_4 = 0 Overlaps\_2\_5 = 0 Overlaps\_2\_6 = 0 Overlaps\_2\_7 = 0 Overlaps\_2\_8 = 0 Overlaps\_3\_0 = 0 Overlaps\_3\_1 = 0 Overlaps\_3\_2 = 0 Overlaps\_3\_3 = 0 Overlaps\_3\_4 = 0 Overlaps\_3\_5 = 0 Overlaps\_3\_6 = 0 Overlaps\_3\_7 = 0 Overlaps\_3\_8 = 0 Overlaps\_4\_0 = 1 Overlaps\_4\_1 = 0 Overlaps\_4\_2 = 0 Overlaps\_4\_3 = 0 Overlaps\_4\_4 = 0 Overlaps\_4\_5 = 0 Overlaps\_4\_6 = 0 Overlaps\_4\_7 = 0 Overlaps\_4\_8 = 0 Overlaps\_5\_0 = 0 Overlaps\_5\_1 = 0 Overlaps\_5\_2 = 0 Overlaps\_5\_3 = 0 Overlaps\_5\_4 = 0 Overlaps\_5\_5 = 0 Overlaps\_5\_6 = 0 Overlaps\_5\_7 = 0 Overlaps\_5\_8 = 0 Overlaps\_6\_0 = 0 Overlaps\_6\_1 = 0 Overlaps\_6\_2 = 0 Overlaps\_6\_3 = 0 Overlaps\_6\_4 = 0 Overlaps\_6\_5 = 0 Overlaps\_6\_6 = 0 Overlaps\_6\_7 = 0 Overlaps\_6\_8 = 0 Overlaps\_7\_0 = 0 Overlaps\_7\_1 = 0 Overlaps\_7\_2 = 0 Overlaps\_7\_3 = 0 Overlaps\_7\_4 = 0 Overlaps\_7\_5 = 0 Overlaps\_7\_6 = 0 Overlaps\_7\_7 = 0 Overlaps\_7\_8 = 0 Overlaps\_8\_0 = 0 Overlaps\_8\_1 = 0 Overlaps\_8\_2 = 0 Overlaps\_8\_3 = 0 Overlaps\_8\_4 = 0 Overlaps\_8\_5 = 0 Overlaps\_8\_6 = 0 Overlaps\_8\_7 = 0 Overlaps\_8\_8 = 0 TMP\_0 = 1 not(TMP\_0) = 0 TMP\_1 = 1 not(TMP\_1) = 0 TMP\_2 = 1 not(TMP\_2) = 0 TMP\_3 = 1 not(TMP\_3) = 0 TMP\_4 = 1 not(TMP\_4) = 0 TMP\_5 = 0 not(TMP\_5) = 1 TMP\_6 = 5 TMP\_7 = 0 not(TMP\_7) = 1 TMP\_8 = 0 not(TMP\_8) = 1 TMP\_9 = 0 TMP\_10 = 1 not(TMP\_10) = 0 TMP\_11 = 1 not(TMP\_11) = 0 TMP\_12 = 2 TMP\_13 = 0 not(TMP\_13) = 1 TMP\_14 = 0 not(TMP\_14) = 1 TMP\_15 = 1 not(TMP\_15) = 0 TMP\_16 = 1 not(TMP\_16) = 0 TMP\_17 = 1 not(TMP\_17) = 0 TMP\_18 = 2 TMP\_19 = 1 not(TMP\_19) = 0 TMP\_20 = 0 not(TMP\_20) = 1 TMP\_21 = 1 not(TMP\_21) = 0 TMP\_22 = 1 not(TMP\_22) = 0 TMP\_23 = 1 not(TMP\_23) = 0 TMP\_24 = 0 not(TMP\_24) = 1 TMP\_25 = 4 TMP\_26 = 0 not(TMP\_26) = 1 TMP\_27 = 0 not(TMP\_27) = 1 TMP\_28 = 0 TMP\_29 = 1 not(TMP\_29) = 0 TMP\_30 = 1 not(TMP\_30) = 0 TMP\_31 = 2 TMP\_32 = 0 not(TMP\_32) = 1 TMP\_33 = 0 not(TMP\_33) = 1 TMP\_34 = 1 not(TMP\_34) = 0 TMP\_35 = 1 not(TMP\_35) = 0 TMP\_36 = 1 not(TMP\_36) = 0 TMP\_37 = 2 TMP\_38 = 1 not(TMP\_38) = 0 TMP\_39 = 0 not(TMP\_39) = 1 TMP\_40 = 1 not(TMP\_40) = 0 TMP\_41 = 1 not(TMP\_41) = 0 TMP\_42 = 1 not(TMP\_42) = 0 TMP\_43 = 1 not(TMP\_43) = 0 TMP\_44 = 5 TMP\_45 = 0 not(TMP\_45) = 1 TMP\_46 = 0 not(TMP\_46) = 1 TMP\_47 = 0 TMP\_48 = 1 not(TMP\_48) = 0 TMP\_49 = 1 not(TMP\_49) = 0 TMP\_50 = 2 TMP\_51 = 0 not(TMP\_51) = 1 TMP\_52 = 0 not(TMP\_52) = 1 TMP\_53 = 1 not(TMP\_53) = 0 TMP\_54 = 1 not(TMP\_54) = 0 TMP\_55 = 1 not(TMP\_55) = 0 TMP\_56 = 2 TMP\_57 = 1 not(TMP\_57) = 0 TMP\_58 = 0 not(TMP\_58) = 1 TMP\_59 = 1 not(TMP\_59) = 0 TMP\_60 = 1 not(TMP\_60) = 0 TMP\_61 = 1 not(TMP\_61) = 0 TMP\_62 = 1 not(TMP\_62) = 0 TMP\_63 = 5 TMP\_64 = 0 not(TMP\_64) = 1 TMP\_65 = 0 not(TMP\_65) = 1 TMP\_66 = 0 TMP\_67 = 1 not(TMP\_67) = 0 TMP\_68 = 1 not(TMP\_68) = 0 TMP\_69 = 2 TMP\_70 = 0 not(TMP\_70) = 1 TMP\_71 = 0 not(TMP\_71) = 1 TMP\_72 = 1 not(TMP\_72) = 0 TMP\_73 = 1 not(TMP\_73) = 0 TMP\_74 = 1 not(TMP\_74) = 0 TMP\_75 = 2 TMP\_76 = 1 not(TMP\_76) = 0 TMP\_77 = 0 not(TMP\_77) = 1 TMP\_78 = 1 not(TMP\_78) = 0 TMP\_79 = 1 not(TMP\_79) = 0 TMP\_80 = 1 not(TMP\_80) = 0 TMP\_81 = 1 not(TMP\_81) = 0 TMP\_82 = 5 TMP\_83 = 0 not(TMP\_83) = 1 TMP\_84 = 0 not(TMP\_84) = 1 TMP\_85 = 0 TMP\_86 = 1 not(TMP\_86) = 0 TMP\_87 = 1 not(TMP\_87) = 0 TMP\_88 = 2 TMP\_89 = 0 not(TMP\_89) = 1 TMP\_90 = 0 not(TMP\_90) = 1 TMP\_91 = 1 not(TMP\_91) = 0 TMP\_92 = 1 not(TMP\_92) = 0 TMP\_93 = 1 not(TMP\_93) = 0 TMP\_94 = 2 TMP\_95 = 1 not(TMP\_95) = 0 TMP\_96 = 0 not(TMP\_96) = 1 TMP\_97 = 1 not(TMP\_97) = 0 TMP\_98 = 1 not(TMP\_98) = 0 TMP\_99 = 1 not(TMP\_99) = 0 TMP\_100 = 1 not(TMP\_100) = 0 TMP\_101 = 5 TMP\_102 = 0 not(TMP\_102) = 1 TMP\_103 = 0 not(TMP\_103) = 1 TMP\_104 = 0 TMP\_105 = 1 not(TMP\_105) = 0 TMP\_106 = 1 not(TMP\_106) = 0 TMP\_107 = 2 TMP\_108 = 0 not(TMP\_108) = 1 TMP\_109 = 0 not(TMP\_109) = 1 TMP\_110 = 1 not(TMP\_110) = 0 TMP\_111 = 1 not(TMP\_111) = 0 TMP\_112 = 1 not(TMP\_112) = 0 TMP\_113 = 2 TMP\_114 = 1 not(TMP\_114) = 0 TMP\_115 = 0 not(TMP\_115) = 1 TMP\_116 = 1 not(TMP\_116) = 0 TMP\_117 = 1 not(TMP\_117) = 0 TMP\_118 = 1 not(TMP\_118) = 0 TMP\_119 = 0 not(TMP\_119) = 1 TMP\_120 = 4 TMP\_121 = 0 not(TMP\_121) = 1 TMP\_122 = 0 not(TMP\_122) = 1 TMP\_123 = 0 TMP\_124 = 1 not(TMP\_124) = 0 TMP\_125 = 1 not(TMP\_125) = 0 TMP\_126 = 2 TMP\_127 = 0 not(TMP\_127) = 1 TMP\_128 = 0 not(TMP\_128) = 1 TMP\_129 = 1 not(TMP\_129) = 0 TMP\_130 = 1 not(TMP\_130) = 0 TMP\_131 = 1 not(TMP\_131) = 0 TMP\_132 = 2 TMP\_133 = 1 not(TMP\_133) = 0 TMP\_134 = 1 not(TMP\_134) = 0 TMP\_135 = 1 not(TMP\_135) = 0 TMP\_136 = 1 not(TMP\_136) = 0 TMP\_137 = 1 not(TMP\_137) = 0 TMP\_138 = 0 not(TMP\_138) = 1 TMP\_139 = 5 TMP\_140 = 0 not(TMP\_140) = 1 TMP\_141 = 0 not(TMP\_141) = 1 TMP\_142 = 0 TMP\_143 = 1 not(TMP\_143) = 0 TMP\_144 = 1 not(TMP\_144) = 0 TMP\_145 = 2 TMP\_146 = 0 not(TMP\_146) = 1 TMP\_147 = 0 not(TMP\_147) = 1 TMP\_148 = 1 not(TMP\_148) = 0 TMP\_149 = 1 not(TMP\_149) = 0 TMP\_150 = 1 not(TMP\_150) = 0 TMP\_151 = 2 TMP\_152 = 0 not(TMP\_152) = 1 TMP\_153 = 1 not(TMP\_153) = 0 TMP\_154 = 1 not(TMP\_154) = 0 TMP\_155 = 1 not(TMP\_155) = 0 TMP\_156 = 1 not(TMP\_156) = 0 TMP\_157 = 0 not(TMP\_157) = 1 TMP\_158 = 4 TMP\_159 = 0 not(TMP\_159) = 1 TMP\_160 = 0 not(TMP\_160) = 1 TMP\_161 = 0 TMP\_162 = 1 not(TMP\_162) = 0 TMP\_163 = 1 not(TMP\_163) = 0 TMP\_164 = 2 TMP\_165 = 0 not(TMP\_165) = 1 TMP\_166 = 0 not(TMP\_166) = 1 TMP\_167 = 1 not(TMP\_167) = 0 TMP\_168 = 1 not(TMP\_168) = 0 TMP\_169 = 1 not(TMP\_169) = 0 TMP\_170 = 2 TMP\_171 = 0 not(TMP\_171) = 1 TMP\_172 = 1 not(TMP\_172) = 0 TMP\_173 = 1 not(TMP\_173) = 0 TMP\_174 = 1 not(TMP\_174) = 0 TMP\_175 = 1 not(TMP\_175) = 0 TMP\_176 = 0 not(TMP\_176) = 1 TMP\_177 = 4 TMP\_178 = 0 not(TMP\_178) = 1 TMP\_179 = 0 not(TMP\_179) = 1 TMP\_180 = 0 TMP\_181 = 1 not(TMP\_181) = 0 TMP\_182 = 1 not(TMP\_182) = 0 TMP\_183 = 2 TMP\_184 = 0 not(TMP\_184) = 1 TMP\_185 = 0 not(TMP\_185) = 1 TMP\_186 = 1 not(TMP\_186) = 0 TMP\_187 = 1 not(TMP\_187) = 0 TMP\_188 = 1 not(TMP\_188) = 0 TMP\_189 = 2 TMP\_190 = 0 not(TMP\_190) = 1 TMP\_191 = 1 not(TMP\_191) = 0 TMP\_192 = 1 not(TMP\_192) = 0 TMP\_193 = 1 not(TMP\_193) = 0 TMP\_194 = 1 not(TMP\_194) = 0 TMP\_195 = 1 not(TMP\_195) = 0 TMP\_196 = 5 TMP\_197 = 0 not(TMP\_197) = 1 TMP\_198 = 0 not(TMP\_198) = 1 TMP\_199 = 0 TMP\_200 = 1 not(TMP\_200) = 0 TMP\_201 = 1 not(TMP\_201) = 0 TMP\_202 = 2 TMP\_203 = 0 not(TMP\_203) = 1 TMP\_204 = 0 not(TMP\_204) = 1 TMP\_205 = 1 not(TMP\_205) = 0 TMP\_206 = 1 not(TMP\_206) = 0 TMP\_207 = 1 not(TMP\_207) = 0 TMP\_208 = 2 TMP\_209 = 0 not(TMP\_209) = 1 TMP\_210 = 1 not(TMP\_210) = 0 TMP\_211 = 1 not(TMP\_211) = 0 TMP\_212 = 1 not(TMP\_212) = 0 TMP\_213 = 1 not(TMP\_213) = 0 TMP\_214 = 1 not(TMP\_214) = 0 TMP\_215 = 5 TMP\_216 = 0 not(TMP\_216) = 1 TMP\_217 = 0 not(TMP\_217) = 1 TMP\_218 = 0 TMP\_219 = 1 not(TMP\_219) = 0 TMP\_220 = 1 not(TMP\_220) = 0 TMP\_221 = 2 TMP\_222 = 0 not(TMP\_222) = 1 TMP\_223 = 0 not(TMP\_223) = 1 TMP\_224 = 1 not(TMP\_224) = 0 TMP\_225 = 1 not(TMP\_225) = 0 TMP\_226 = 1 not(TMP\_226) = 0 TMP\_227 = 2 TMP\_228 = 1 not(TMP\_228) = 0 TMP\_229 = 0 not(TMP\_229) = 1 TMP\_230 = 1 not(TMP\_230) = 0 TMP\_231 = 1 not(TMP\_231) = 0 TMP\_232 = 1 not(TMP\_232) = 0 TMP\_233 = 1 not(TMP\_233) = 0 TMP\_234 = 5 TMP\_235 = 0 not(TMP\_235) = 1 TMP\_236 = 0 not(TMP\_236) = 1 TMP\_237 = 0 TMP\_238 = 1 not(TMP\_238) = 0 TMP\_239 = 1 not(TMP\_239) = 0 TMP\_240 = 2 TMP\_241 = 0 not(TMP\_241) = 1 TMP\_242 = 0 not(TMP\_242) = 1 TMP\_243 = 1 not(TMP\_243) = 0 TMP\_244 = 1 not(TMP\_244) = 0 TMP\_245 = 1 not(TMP\_245) = 0 TMP\_246 = 2 TMP\_247 = 0 not(TMP\_247) = 1 TMP\_248 = 1 not(TMP\_248) = 0 TMP\_249 = 1 not(TMP\_249) = 0 TMP\_250 = 1 not(TMP\_250) = 0 TMP\_251 = 1 not(TMP\_251) = 0 TMP\_252 = 1 not(TMP\_252) = 0 TMP\_253 = 5 TMP\_254 = 0 not(TMP\_254) = 1 TMP\_255 = 0 not(TMP\_255) = 1 TMP\_256 = 0 TMP\_257 = 1 not(TMP\_257) = 0 TMP\_258 = 1 not(TMP\_258) = 0 TMP\_259 = 2 TMP\_260 = 0 not(TMP\_260) = 1 TMP\_261 = 0 not(TMP\_261) = 1 TMP\_262 = 1 not(TMP\_262) = 0 TMP\_263 = 1 not(TMP\_263) = 0 TMP\_264 = 1 not(TMP\_264) = 0 TMP\_265 = 2 TMP\_266 = 1 not(TMP\_266) = 0 TMP\_267 = 1 not(TMP\_267) = 0 TMP\_268 = 1 not(TMP\_268) = 0 TMP\_269 = 1 not(TMP\_269) = 0 TMP\_270 = 1 not(TMP\_270) = 0 TMP\_271 = 0 not(TMP\_271) = 1 TMP\_272 = 5 TMP\_273 = 0 not(TMP\_273) = 1 TMP\_274 = 0 not(TMP\_274) = 1 TMP\_275 = 0 TMP\_276 = 1 not(TMP\_276) = 0 TMP\_277 = 1 not(TMP\_277) = 0 TMP\_278 = 2 TMP\_279 = 0 not(TMP\_279) = 1 TMP\_280 = 0 not(TMP\_280) = 1 TMP\_281 = 1 not(TMP\_281) = 0 TMP\_282 = 1 not(TMP\_282) = 0 TMP\_283 = 1 not(TMP\_283) = 0 TMP\_284 = 2 TMP\_285 = 0 not(TMP\_285) = 1 TMP\_286 = 1 not(TMP\_286) = 0 TMP\_287 = 1 not(TMP\_287) = 0 TMP\_288 = 1 not(TMP\_288) = 0 TMP\_289 = 1 not(TMP\_289) = 0 TMP\_290 = 0 not(TMP\_290) = 1 TMP\_291 = 4 TMP\_292 = 0 not(TMP\_292) = 1 TMP\_293 = 0 not(TMP\_293) = 1 TMP\_294 = 0 TMP\_295 = 1 not(TMP\_295) = 0 TMP\_296 = 1 not(TMP\_296) = 0 TMP\_297 = 2 TMP\_298 = 0 not(TMP\_298) = 1 TMP\_299 = 0 not(TMP\_299) = 1 TMP\_300 = 1 not(TMP\_300) = 0 TMP\_301 = 1 not(TMP\_301) = 0 TMP\_302 = 1 not(TMP\_302) = 0 TMP\_303 = 2 TMP\_304 = 0 not(TMP\_304) = 1 TMP\_305 = 1 not(TMP\_305) = 0 TMP\_306 = 1 not(TMP\_306) = 0 TMP\_307 = 1 not(TMP\_307) = 0 TMP\_308 = 1 not(TMP\_308) = 0 TMP\_309 = 1 not(TMP\_309) = 0 TMP\_310 = 5 TMP\_311 = 0 not(TMP\_311) = 1 TMP\_312 = 0 not(TMP\_312) = 1 TMP\_313 = 0 TMP\_314 = 1 not(TMP\_314) = 0 TMP\_315 = 1 not(TMP\_315) = 0 TMP\_316 = 2 TMP\_317 = 0 not(TMP\_317) = 1 TMP\_318 = 0 not(TMP\_318) = 1 TMP\_319 = 1 not(TMP\_319) = 0 TMP\_320 = 1 not(TMP\_320) = 0 TMP\_321 = 1 not(TMP\_321) = 0 TMP\_322 = 2 TMP\_323 = 0 not(TMP\_323) = 1 TMP\_324 = 1 not(TMP\_324) = 0 TMP\_325 = 1 not(TMP\_325) = 0 TMP\_326 = 1 not(TMP\_326) = 0 TMP\_327 = 1 not(TMP\_327) = 0 TMP\_328 = 1 not(TMP\_328) = 0 TMP\_329 = 5 TMP\_330 = 0 not(TMP\_330) = 1 TMP\_331 = 0 not(TMP\_331) = 1 TMP\_332 = 0 TMP\_333 = 1 not(TMP\_333) = 0 TMP\_334 = 1 not(TMP\_334) = 0 TMP\_335 = 2 TMP\_336 = 0 not(TMP\_336) = 1 TMP\_337 = 0 not(TMP\_337) = 1 TMP\_338 = 1 not(TMP\_338) = 0 TMP\_339 = 1 not(TMP\_339) = 0 TMP\_340 = 1 not(TMP\_340) = 0 TMP\_341 = 2 TMP\_342 = 0 not(TMP\_342) = 1 TMP\_343 = 1 not(TMP\_343) = 0 TMP\_344 = 1 not(TMP\_344) = 0 TMP\_345 = 1 not(TMP\_345) = 0 TMP\_346 = 0 not(TMP\_346) = 1 TMP\_347 = 1 not(TMP\_347) = 0 TMP\_348 = 4 TMP\_349 = 0 not(TMP\_349) = 1 TMP\_350 = 0 not(TMP\_350) = 1 TMP\_351 = 0 TMP\_352 = 1 not(TMP\_352) = 0 TMP\_353 = 1 not(TMP\_353) = 0 TMP\_354 = 2 TMP\_355 = 0 not(TMP\_355) = 1 TMP\_356 = 0 not(TMP\_356) = 1 TMP\_357 = 1 not(TMP\_357) = 0 TMP\_358 = 1 not(TMP\_358) = 0 TMP\_359 = 1 not(TMP\_359) = 0 TMP\_360 = 2 TMP\_361 = 0 not(TMP\_361) = 1 TMP\_362 = 1 not(TMP\_362) = 0 TMP\_363 = 1 not(TMP\_363) = 0 TMP\_364 = 1 not(TMP\_364) = 0 TMP\_365 = 0 not(TMP\_365) = 1 TMP\_366 = 1 not(TMP\_366) = 0 TMP\_367 = 4 TMP\_368 = 0 not(TMP\_368) = 1 TMP\_369 = 0 not(TMP\_369) = 1 TMP\_370 = 0 TMP\_371 = 1 not(TMP\_371) = 0 TMP\_372 = 1 not(TMP\_372) = 0 TMP\_373 = 2 TMP\_374 = 0 not(TMP\_374) = 1 TMP\_375 = 0 not(TMP\_375) = 1 TMP\_376 = 1 not(TMP\_376) = 0 TMP\_377 = 1 not(TMP\_377) = 0 TMP\_378 = 1 not(TMP\_378) = 0 TMP\_379 = 2 TMP\_380 = 1 not(TMP\_380) = 0 TMP\_381 = 1 not(TMP\_381) = 0 TMP\_382 = 1 not(TMP\_382) = 0 TMP\_383 = 1 not(TMP\_383) = 0 TMP\_384 = 0 not(TMP\_384) = 1 TMP\_385 = 1 not(TMP\_385) = 0 TMP\_386 = 5 TMP\_387 = 0 not(TMP\_387) = 1 TMP\_388 = 0 not(TMP\_388) = 1 TMP\_389 = 0 TMP\_390 = 1 not(TMP\_390) = 0 TMP\_391 = 1 not(TMP\_391) = 0 TMP\_392 = 2 TMP\_393 = 0 not(TMP\_393) = 1 TMP\_394 = 0 not(TMP\_394) = 1 TMP\_395 = 1 not(TMP\_395) = 0 TMP\_396 = 1 not(TMP\_396) = 0 TMP\_397 = 1 not(TMP\_397) = 0 TMP\_398 = 2 TMP\_399 = 0 not(TMP\_399) = 1 TMP\_400 = 1 not(TMP\_400) = 0 TMP\_401 = 1 not(TMP\_401) = 0 TMP\_402 = 1 not(TMP\_402) = 0 TMP\_403 = 0 not(TMP\_403) = 1 TMP\_404 = 1 not(TMP\_404) = 0 TMP\_405 = 4 TMP\_406 = 0 not(TMP\_406) = 1 TMP\_407 = 0 not(TMP\_407) = 1 TMP\_408 = 0 TMP\_409 = 1 not(TMP\_409) = 0 TMP\_410 = 1 not(TMP\_410) = 0 TMP\_411 = 2 TMP\_412 = 0 not(TMP\_412) = 1 TMP\_413 = 0 not(TMP\_413) = 1 TMP\_414 = 1 not(TMP\_414) = 0 TMP\_415 = 1 not(TMP\_415) = 0 TMP\_416 = 1 not(TMP\_416) = 0 TMP\_417 = 2 TMP\_418 = 1 not(TMP\_418) = 0 TMP\_419 = 1 not(TMP\_419) = 0 TMP\_420 = 1 not(TMP\_420) = 0 TMP\_421 = 1 not(TMP\_421) = 0 TMP\_422 = 0 not(TMP\_422) = 1 TMP\_423 = 1 not(TMP\_423) = 0 TMP\_424 = 5 TMP\_425 = 0 not(TMP\_425) = 1 TMP\_426 = 0 not(TMP\_426) = 1 TMP\_427 = 0 TMP\_428 = 1 not(TMP\_428) = 0 TMP\_429 = 1 not(TMP\_429) = 0 TMP\_430 = 2 TMP\_431 = 0 not(TMP\_431) = 1 TMP\_432 = 0 not(TMP\_432) = 1 TMP\_433 = 1 not(TMP\_433) = 0 TMP\_434 = 1 not(TMP\_434) = 0 TMP\_435 = 1 not(TMP\_435) = 0 TMP\_436 = 2 TMP\_437 = 0 not(TMP\_437) = 1 TMP\_438 = 1 not(TMP\_438) = 0 TMP\_439 = 1 not(TMP\_439) = 0 TMP\_440 = 1 not(TMP\_440) = 0 TMP\_441 = 1 not(TMP\_441) = 0 TMP\_442 = 1 not(TMP\_442) = 0 TMP\_443 = 5 TMP\_444 = 0 not(TMP\_444) = 1 TMP\_445 = 0 not(TMP\_445) = 1 TMP\_446 = 0 TMP\_447 = 1 not(TMP\_447) = 0 TMP\_448 = 1 not(TMP\_448) = 0 TMP\_449 = 2 TMP\_450 = 0 not(TMP\_450) = 1 TMP\_451 = 0 not(TMP\_451) = 1 TMP\_452 = 1 not(TMP\_452) = 0 TMP\_453 = 1 not(TMP\_453) = 0 TMP\_454 = 1 not(TMP\_454) = 0 TMP\_455 = 2 TMP\_456 = 0 not(TMP\_456) = 1 TMP\_457 = 1 not(TMP\_457) = 0 TMP\_458 = 1 not(TMP\_458) = 0 TMP\_459 = 1 not(TMP\_459) = 0 TMP\_460 = 1 not(TMP\_460) = 0 TMP\_461 = 1 not(TMP\_461) = 0 TMP\_462 = 5 TMP\_463 = 0 not(TMP\_463) = 1 TMP\_464 = 0 not(TMP\_464) = 1 TMP\_465 = 0 TMP\_466 = 1 not(TMP\_466) = 0 TMP\_467 = 1 not(TMP\_467) = 0 TMP\_468 = 2 TMP\_469 = 0 not(TMP\_469) = 1 TMP\_470 = 0 not(TMP\_470) = 1 TMP\_471 = 1 not(TMP\_471) = 0 TMP\_472 = 1 not(TMP\_472) = 0 TMP\_473 = 1 not(TMP\_473) = 0 TMP\_474 = 2 TMP\_475 = 1 not(TMP\_475) = 0 TMP\_476 = 0 not(TMP\_476) = 1 TMP\_477 = 1 not(TMP\_477) = 0 TMP\_478 = 1 not(TMP\_478) = 0 TMP\_479 = 1 not(TMP\_479) = 0 TMP\_480 = 1 not(TMP\_480) = 0 TMP\_481 = 5 TMP\_482 = 0 not(TMP\_482) = 1 TMP\_483 = 0 not(TMP\_483) = 1 TMP\_484 = 0 TMP\_485 = 1 not(TMP\_485) = 0 TMP\_486 = 1 not(TMP\_486) = 0 TMP\_487 = 2 TMP\_488 = 0 not(TMP\_488) = 1 TMP\_489 = 0 not(TMP\_489) = 1 TMP\_490 = 1 not(TMP\_490) = 0 TMP\_491 = 1 not(TMP\_491) = 0 TMP\_492 = 1 not(TMP\_492) = 0 TMP\_493 = 2 TMP\_494 = 1 not(TMP\_494) = 0 TMP\_495 = 0 not(TMP\_495) = 1 TMP\_496 = 1 not(TMP\_496) = 0 TMP\_497 = 1 not(TMP\_497) = 0 TMP\_498 = 0 not(TMP\_498) = 1 TMP\_499 = 1 not(TMP\_499) = 0 TMP\_500 = 4 TMP\_501 = 0 not(TMP\_501) = 1 TMP\_502 = 0 not(TMP\_502) = 1 TMP\_503 = 0 TMP\_504 = 1 not(TMP\_504) = 0 TMP\_505 = 1 not(TMP\_505) = 0 TMP\_506 = 2 TMP\_507 = 0 not(TMP\_507) = 1 TMP\_508 = 0 not(TMP\_508) = 1 TMP\_509 = 1 not(TMP\_509) = 0 TMP\_510 = 1 not(TMP\_510) = 0 TMP\_511 = 1 not(TMP\_511) = 0 TMP\_512 = 2 TMP\_513 = 1 not(TMP\_513) = 0 TMP\_514 = 0 not(TMP\_514) = 1 TMP\_515 = 1 not(TMP\_515) = 0 TMP\_516 = 1 not(TMP\_516) = 0 TMP\_517 = 0 not(TMP\_517) = 1 TMP\_518 = 1 not(TMP\_518) = 0 TMP\_519 = 4 TMP\_520 = 0 not(TMP\_520) = 1 TMP\_521 = 0 not(TMP\_521) = 1 TMP\_522 = 0 TMP\_523 = 1 not(TMP\_523) = 0 TMP\_524 = 1 not(TMP\_524) = 0 TMP\_525 = 2 TMP\_526 = 0 not(TMP\_526) = 1 TMP\_527 = 0 not(TMP\_527) = 1 TMP\_528 = 1 not(TMP\_528) = 0 TMP\_529 = 1 not(TMP\_529) = 0 TMP\_530 = 1 not(TMP\_530) = 0 TMP\_531 = 2 TMP\_532 = 1 not(TMP\_532) = 0 TMP\_533 = 0 not(TMP\_533) = 1 TMP\_534 = 1 not(TMP\_534) = 0 TMP\_535 = 1 not(TMP\_535) = 0 TMP\_536 = 0 not(TMP\_536) = 1 TMP\_537 = 1 not(TMP\_537) = 0 TMP\_538 = 4 TMP\_539 = 0 not(TMP\_539) = 1 TMP\_540 = 0 not(TMP\_540) = 1 TMP\_541 = 0 TMP\_542 = 1 not(TMP\_542) = 0 TMP\_543 = 1 not(TMP\_543) = 0 TMP\_544 = 2 TMP\_545 = 0 not(TMP\_545) = 1 TMP\_546 = 0 not(TMP\_546) = 1 TMP\_547 = 1 not(TMP\_547) = 0 TMP\_548 = 1 not(TMP\_548) = 0 TMP\_549 = 1 not(TMP\_549) = 0 TMP\_550 = 2 TMP\_551 = 1 not(TMP\_551) = 0 TMP\_552 = 1 not(TMP\_552) = 0 TMP\_553 = 1 not(TMP\_553) = 0 TMP\_554 = 1 not(TMP\_554) = 0 TMP\_555 = 0 not(TMP\_555) = 1 TMP\_556 = 1 not(TMP\_556) = 0 TMP\_557 = 5 TMP\_558 = 0 not(TMP\_558) = 1 TMP\_559 = 0 not(TMP\_559) = 1 TMP\_560 = 0 TMP\_561 = 1 not(TMP\_561) = 0 TMP\_562 = 1 not(TMP\_562) = 0 TMP\_563 = 2 TMP\_564 = 0 not(TMP\_564) = 1 TMP\_565 = 0 not(TMP\_565) = 1 TMP\_566 = 1 not(TMP\_566) = 0 TMP\_567 = 1 not(TMP\_567) = 0 TMP\_568 = 1 not(TMP\_568) = 0 TMP\_569 = 2 TMP\_570 = 1 not(TMP\_570) = 0 TMP\_571 = 0 not(TMP\_571) = 1 TMP\_572 = 1 not(TMP\_572) = 0 TMP\_573 = 1 not(TMP\_573) = 0 TMP\_574 = 0 not(TMP\_574) = 1 TMP\_575 = 1 not(TMP\_575) = 0 TMP\_576 = 4 TMP\_577 = 0 not(TMP\_577) = 1 TMP\_578 = 0 not(TMP\_578) = 1 TMP\_579 = 0 TMP\_580 = 1 not(TMP\_580) = 0 TMP\_581 = 1 not(TMP\_581) = 0 TMP\_582 = 2 TMP\_583 = 0 not(TMP\_583) = 1 TMP\_584 = 0 not(TMP\_584) = 1 TMP\_585 = 1 not(TMP\_585) = 0 TMP\_586 = 1 not(TMP\_586) = 0 TMP\_587 = 1 not(TMP\_587) = 0 TMP\_588 = 2 TMP\_589 = 1 not(TMP\_589) = 0 TMP\_590 = 0 not(TMP\_590) = 1 TMP\_591 = 1 not(TMP\_591) = 0 TMP\_592 = 1 not(TMP\_592) = 0 TMP\_593 = 1 not(TMP\_593) = 0 TMP\_594 = 1 not(TMP\_594) = 0 TMP\_595 = 5 TMP\_596 = 0 not(TMP\_596) = 1 TMP\_597 = 0 not(TMP\_597) = 1 TMP\_598 = 0 TMP\_599 = 1 not(TMP\_599) = 0 TMP\_600 = 1 not(TMP\_600) = 0 TMP\_601 = 2 TMP\_602 = 0 not(TMP\_602) = 1 TMP\_603 = 0 not(TMP\_603) = 1 TMP\_604 = 1 not(TMP\_604) = 0 TMP\_605 = 1 not(TMP\_605) = 0 TMP\_606 = 1 not(TMP\_606) = 0 TMP\_607 = 2 Area\_0 = 60 Distance\_0\_Rule\_0 = 20 Distance\_1\_Rule\_0 = 3 Distance\_2\_Rule\_0 = 1 Area\_1 = 174 Distance\_0\_Rule\_1 = 58 Distance\_1\_Rule\_1 = 3 Distance\_2\_Rule\_1 = 1 Area\_2 = 116 Distance\_0\_Rule\_2 = 58 Distance\_1\_Rule\_2 = 2 Distance\_2\_Rule\_2 = 1 Area\_3 = 58 Distance\_0\_Rule\_3 = 58 Distance\_1\_Rule\_3 = 1 Distance\_2\_Rule\_3 = 1 Area\_4 = 120 Distance\_0\_Rule\_4 = 40 Distance\_1\_Rule\_4 = 3 Distance\_2\_Rule\_4 = 1 Area\_5 = 63 -(Rule\_5\_LB) = 0 Distance\_0\_Rule\_5 = 21 -(Rule\_5\_LB) = 0 Distance\_1\_Rule\_5 = 3 -(Rule\_5\_LB) = 0 Distance\_2\_Rule\_5 = 1 Area\_6 = 3 -(Rule\_6\_LB) = -79 Distance\_0\_Rule\_6 = 1 -(Rule\_6\_LB) = 0 Distance\_1\_Rule\_6 = 3 -(Rule\_6\_LB) = 0 Distance\_2\_Rule\_6 = 1 Area\_7 = 123 -(Rule\_7\_LB) = -79 Distance\_0\_Rule\_7 = 41 -(Rule\_7\_LB) = 0 Distance\_1\_Rule\_7 = 3 -(Rule\_7\_LB) = -1 Distance\_2\_Rule\_7 = 1 Area\_8 = 3 -(Rule\_8\_LB) = -20 Distance\_0\_Rule\_8 = 1 -(Rule\_8\_LB) = 0 Distance\_1\_Rule\_8 = 3 -(Rule\_8\_LB) = -1 Distance\_2\_Rule\_8 = 1 TMP\_608 = 720 .

- Solution #8 found. 8 Solutions, Resolution 1.041s, 2299 Nodes (2,209.1 n/s), 4525 Backtracks, 2261 Fails, 0 Restarts

Rule\_5\_LB = 0 Rule\_5\_UB = 21 Rule\_5\_LB = 0 Rule\_5\_UB = 3 Rule\_5\_LB = 0 Rule\_5\_UB = 1 Rule\_6\_LB = 79 Rule\_6\_UB = 80 Rule\_6\_LB = 0 Rule\_6\_UB = 3 Rule\_6\_LB = 0 Rule\_6\_UB = 1 Rule\_7\_LB = 79 Rule\_7\_UB = 120 Rule\_7\_LB = 0 Rule\_7\_UB = 3 Rule\_7\_LB = 1 Rule\_7\_UB = 2 Rule\_8\_LB = 20 Rule\_8\_UB = 21 Rule\_8\_LB = 0 Rule\_8\_UB = 3 Rule\_8\_LB = 1 Rule\_8\_UB = 2 Overlaps\_0\_0 = 0 Overlaps\_0\_1 = 1 Overlaps\_0\_2 = 0 Overlaps\_0\_3 = 0 Overlaps\_0\_4 = 0 Overlaps\_0\_5 = 0 Overlaps\_0\_6 = 0 Overlaps\_0\_7 = 0 Overlaps\_0\_8 = 0 Overlaps\_1\_0 = 0 Overlaps\_1\_1 = 0 Overlaps\_1\_2 = 0 Overlaps\_1\_3 = 0 Overlaps\_1\_4 = 0 Overlaps\_1\_5 = 0 Overlaps\_1\_6 = 0 Overlaps\_1\_7 = 0 Overlaps\_1\_8 = 0 Overlaps\_2\_0 = 0 Overlaps\_2\_1 = 0 Overlaps\_2\_2 = 0 Overlaps\_2\_3 = 0 Overlaps\_2\_4 = 0 Overlaps\_2\_5 = 0 Overlaps\_2\_6 = 0 Overlaps\_2\_7 = 0 Overlaps\_2\_8 = 0 Overlaps\_3\_0 = 0 Overlaps\_3\_1 = 1 Overlaps\_3\_2 = 0 Overlaps\_3\_3 = 0 Overlaps\_3\_4 = 0 Overlaps\_3\_5 = 0 Overlaps\_3\_6 = 0 Overlaps\_3\_7 = 0 Overlaps\_3\_8 = 0 Overlaps\_4\_0 = 1 Overlaps\_4\_1 = 0 Overlaps\_4\_2 = 0 Overlaps\_4\_3 = 0 Overlaps\_4\_4 = 0 Overlaps\_4\_5 = 0 Overlaps\_4\_6 = 0 Overlaps\_4\_7 = 0 Overlaps\_4\_8 = 0 Overlaps\_5\_0 = 0 Overlaps\_5\_1 = 0 Overlaps\_5\_2 = 0 Overlaps\_5\_3 = 0 Overlaps\_5\_4 = 0 Overlaps\_5\_5 = 0 Overlaps\_5\_6 = 0 Overlaps\_5\_7 = 0 Overlaps\_5\_8 = 0 Overlaps\_6\_0 = 0 Overlaps\_6\_1 = 0 Overlaps\_6\_2 = 0 Overlaps\_6\_3 = 0 Overlaps\_6\_4 = 0 Overlaps\_6\_5 = 0 Overlaps\_6\_6 = 0 Overlaps\_6\_7 = 0 Overlaps\_6\_8 = 0 Overlaps\_7\_0 = 0 Overlaps\_7\_1 = 0 Overlaps\_7\_2 = 0 Overlaps\_7\_3 = 0 Overlaps\_7\_4 = 0 Overlaps\_7\_5 = 0 Overlaps\_7\_6 = 0 Overlaps\_7\_7 = 0 Overlaps\_7\_8 = 0 Overlaps\_8\_0 = 0 Overlaps\_8\_1 = 0 Overlaps\_8\_2 = 0 Overlaps\_8\_3 = 0 Overlaps\_8\_4 = 0 Overlaps\_8\_5 = 0 Overlaps\_8\_6 = 0 Overlaps\_8\_7 = 0 Overlaps\_8\_8 = 0 TMP\_0 = 1 not(TMP\_0) = 0 TMP\_1 = 1 not(TMP\_1) = 0 TMP\_2 = 1 not(TMP\_2) = 0 TMP\_3 = 1 not(TMP\_3) = 0 TMP\_4 = 1 not(TMP\_4) = 0 TMP\_5 = 0 not(TMP\_5) = 1 TMP\_6 = 5 TMP\_7 = 0 not(TMP\_7) = 1 TMP\_8 = 0 not(TMP\_8) = 1 TMP\_9 = 0 TMP\_10 = 1 not(TMP\_10) = 0 TMP\_11 = 1 not(TMP\_11) = 0 TMP\_12 = 2 TMP\_13 = 0 not(TMP\_13) = 1 TMP\_14 = 0 not(TMP\_14) = 1 TMP\_15 = 1 not(TMP\_15) = 0 TMP\_16 = 1 not(TMP\_16) = 0 TMP\_17 = 1 not(TMP\_17) = 0 TMP\_18 = 2 TMP\_19 = 1 not(TMP\_19) = 0 TMP\_20 = 0 not(TMP\_20) = 1 TMP\_21 = 1 not(TMP\_21) = 0 TMP\_22 = 1 not(TMP\_22) = 0 TMP\_23 = 1 not(TMP\_23) = 0 TMP\_24 = 0 not(TMP\_24) = 1 TMP\_25 = 4 TMP\_26 = 0 not(TMP\_26) = 1 TMP\_27 = 0 not(TMP\_27) = 1 TMP\_28 = 0 TMP\_29 = 1 not(TMP\_29) = 0 TMP\_30 = 1 not(TMP\_30) = 0 TMP\_31 = 2 TMP\_32 = 0 not(TMP\_32) = 1 TMP\_33 = 0 not(TMP\_33) = 1 TMP\_34 = 1 not(TMP\_34) = 0 TMP\_35 = 1 not(TMP\_35) = 0 TMP\_36 = 1 not(TMP\_36) = 0 TMP\_37 = 2 TMP\_38 = 1 not(TMP\_38) = 0 TMP\_39 = 0 not(TMP\_39) = 1 TMP\_40 = 1 not(TMP\_40) = 0 TMP\_41 = 1 not(TMP\_41) = 0 TMP\_42 = 1 not(TMP\_42) = 0 TMP\_43 = 1 not(TMP\_43) = 0 TMP\_44 = 5 TMP\_45 = 0 not(TMP\_45) = 1 TMP\_46 = 0 not(TMP\_46) = 1 TMP\_47 = 0 TMP\_48 = 1 not(TMP\_48) = 0 TMP\_49 = 1 not(TMP\_49) = 0 TMP\_50 = 2 TMP\_51 = 0 not(TMP\_51) = 1 TMP\_52 = 0 not(TMP\_52) = 1 TMP\_53 = 1 not(TMP\_53) = 0 TMP\_54 = 1 not(TMP\_54) = 0 TMP\_55 = 1 not(TMP\_55) = 0 TMP\_56 = 2 TMP\_57 = 1 not(TMP\_57) = 0 TMP\_58 = 0 not(TMP\_58) = 1 TMP\_59 = 1 not(TMP\_59) = 0 TMP\_60 = 1 not(TMP\_60) = 0 TMP\_61 = 1 not(TMP\_61) = 0 TMP\_62 = 1 not(TMP\_62) = 0 TMP\_63 = 5 TMP\_64 = 0 not(TMP\_64) = 1 TMP\_65 = 0 not(TMP\_65) = 1 TMP\_66 = 0 TMP\_67 = 1 not(TMP\_67) = 0 TMP\_68 = 1 not(TMP\_68) = 0 TMP\_69 = 2 TMP\_70 = 0 not(TMP\_70) = 1 TMP\_71 = 0 not(TMP\_71) = 1 TMP\_72 = 1 not(TMP\_72) = 0 TMP\_73 = 1 not(TMP\_73) = 0 TMP\_74 = 1 not(TMP\_74) = 0 TMP\_75 = 2 TMP\_76 = 1 not(TMP\_76) = 0 TMP\_77 = 0 not(TMP\_77) = 1 TMP\_78 = 1 not(TMP\_78) = 0 TMP\_79 = 1 not(TMP\_79) = 0 TMP\_80 = 1 not(TMP\_80) = 0 TMP\_81 = 1 not(TMP\_81) = 0 TMP\_82 = 5 TMP\_83 = 0 not(TMP\_83) = 1 TMP\_84 = 0 not(TMP\_84) = 1 TMP\_85 = 0 TMP\_86 = 1 not(TMP\_86) = 0 TMP\_87 = 1 not(TMP\_87) = 0 TMP\_88 = 2 TMP\_89 = 0 not(TMP\_89) = 1 TMP\_90 = 0 not(TMP\_90) = 1 TMP\_91 = 1 not(TMP\_91) = 0 TMP\_92 = 1 not(TMP\_92) = 0 TMP\_93 = 1 not(TMP\_93) = 0 TMP\_94 = 2 TMP\_95 = 1 not(TMP\_95) = 0 TMP\_96 = 0 not(TMP\_96) = 1 TMP\_97 = 1 not(TMP\_97) = 0 TMP\_98 = 1 not(TMP\_98) = 0 TMP\_99 = 1 not(TMP\_99) = 0 TMP\_100 = 1 not(TMP\_100) = 0 TMP\_101 = 5 TMP\_102 = 0 not(TMP\_102) = 1 TMP\_103 = 0 not(TMP\_103) = 1 TMP\_104 = 0 TMP\_105 = 1 not(TMP\_105) = 0 TMP\_106 = 1 not(TMP\_106) = 0 TMP\_107 = 2 TMP\_108 = 0 not(TMP\_108) = 1 TMP\_109 = 0 not(TMP\_109) = 1 TMP\_110 = 1 not(TMP\_110) = 0 TMP\_111 = 1 not(TMP\_111) = 0 TMP\_112 = 1 not(TMP\_112) = 0 TMP\_113 = 2 TMP\_114 = 1 not(TMP\_114) = 0 TMP\_115 = 0 not(TMP\_115) = 1 TMP\_116 = 1 not(TMP\_116) = 0 TMP\_117 = 1 not(TMP\_117) = 0 TMP\_118 = 1 not(TMP\_118) = 0 TMP\_119 = 0 not(TMP\_119) = 1 TMP\_120 = 4 TMP\_121 = 0 not(TMP\_121) = 1 TMP\_122 = 0 not(TMP\_122) = 1 TMP\_123 = 0 TMP\_124 = 1 not(TMP\_124) = 0 TMP\_125 = 1 not(TMP\_125) = 0 TMP\_126 = 2 TMP\_127 = 0 not(TMP\_127) = 1 TMP\_128 = 0 not(TMP\_128) = 1 TMP\_129 = 1 not(TMP\_129) = 0 TMP\_130 = 1 not(TMP\_130) = 0 TMP\_131 = 1 not(TMP\_131) = 0 TMP\_132 = 2 TMP\_133 = 1 not(TMP\_133) = 0 TMP\_134 = 1 not(TMP\_134) = 0 TMP\_135 = 1 not(TMP\_135) = 0 TMP\_136 = 1 not(TMP\_136) = 0 TMP\_137 = 1 not(TMP\_137) = 0 TMP\_138 = 0 not(TMP\_138) = 1 TMP\_139 = 5 TMP\_140 = 0 not(TMP\_140) = 1 TMP\_141 = 0 not(TMP\_141) = 1 TMP\_142 = 0 TMP\_143 = 1 not(TMP\_143) = 0 TMP\_144 = 1 not(TMP\_144) = 0 TMP\_145 = 2 TMP\_146 = 0 not(TMP\_146) = 1 TMP\_147 = 0 not(TMP\_147) = 1 TMP\_148 = 1 not(TMP\_148) = 0 TMP\_149 = 1 not(TMP\_149) = 0 TMP\_150 = 1 not(TMP\_150) = 0 TMP\_151 = 2 TMP\_152 = 0 not(TMP\_152) = 1 TMP\_153 = 1 not(TMP\_153) = 0 TMP\_154 = 1 not(TMP\_154) = 0 TMP\_155 = 1 not(TMP\_155) = 0 TMP\_156 = 1 not(TMP\_156) = 0 TMP\_157 = 0 not(TMP\_157) = 1 TMP\_158 = 4 TMP\_159 = 0 not(TMP\_159) = 1 TMP\_160 = 0 not(TMP\_160) = 1 TMP\_161 = 0 TMP\_162 = 1 not(TMP\_162) = 0 TMP\_163 = 1 not(TMP\_163) = 0 TMP\_164 = 2 TMP\_165 = 0 not(TMP\_165) = 1 TMP\_166 = 0 not(TMP\_166) = 1 TMP\_167 = 1 not(TMP\_167) = 0 TMP\_168 = 1 not(TMP\_168) = 0 TMP\_169 = 1 not(TMP\_169) = 0 TMP\_170 = 2 TMP\_171 = 0 not(TMP\_171) = 1 TMP\_172 = 1 not(TMP\_172) = 0 TMP\_173 = 1 not(TMP\_173) = 0 TMP\_174 = 1 not(TMP\_174) = 0 TMP\_175 = 1 not(TMP\_175) = 0 TMP\_176 = 0 not(TMP\_176) = 1 TMP\_177 = 4 TMP\_178 = 0 not(TMP\_178) = 1 TMP\_179 = 0 not(TMP\_179) = 1 TMP\_180 = 0 TMP\_181 = 1 not(TMP\_181) = 0 TMP\_182 = 1 not(TMP\_182) = 0 TMP\_183 = 2 TMP\_184 = 0 not(TMP\_184) = 1 TMP\_185 = 0 not(TMP\_185) = 1 TMP\_186 = 1 not(TMP\_186) = 0 TMP\_187 = 1 not(TMP\_187) = 0 TMP\_188 = 1 not(TMP\_188) = 0 TMP\_189 = 2 TMP\_190 = 0 not(TMP\_190) = 1 TMP\_191 = 1 not(TMP\_191) = 0 TMP\_192 = 1 not(TMP\_192) = 0 TMP\_193 = 1 not(TMP\_193) = 0 TMP\_194 = 1 not(TMP\_194) = 0 TMP\_195 = 1 not(TMP\_195) = 0 TMP\_196 = 5 TMP\_197 = 0 not(TMP\_197) = 1 TMP\_198 = 0 not(TMP\_198) = 1 TMP\_199 = 0 TMP\_200 = 1 not(TMP\_200) = 0 TMP\_201 = 1 not(TMP\_201) = 0 TMP\_202 = 2 TMP\_203 = 0 not(TMP\_203) = 1 TMP\_204 = 0 not(TMP\_204) = 1 TMP\_205 = 1 not(TMP\_205) = 0 TMP\_206 = 1 not(TMP\_206) = 0 TMP\_207 = 1 not(TMP\_207) = 0 TMP\_208 = 2 TMP\_209 = 0 not(TMP\_209) = 1 TMP\_210 = 1 not(TMP\_210) = 0 TMP\_211 = 1 not(TMP\_211) = 0 TMP\_212 = 1 not(TMP\_212) = 0 TMP\_213 = 1 not(TMP\_213) = 0 TMP\_214 = 1 not(TMP\_214) = 0 TMP\_215 = 5 TMP\_216 = 0 not(TMP\_216) = 1 TMP\_217 = 0 not(TMP\_217) = 1 TMP\_218 = 0 TMP\_219 = 1 not(TMP\_219) = 0 TMP\_220 = 1 not(TMP\_220) = 0 TMP\_221 = 2 TMP\_222 = 0 not(TMP\_222) = 1 TMP\_223 = 0 not(TMP\_223) = 1 TMP\_224 = 1 not(TMP\_224) = 0 TMP\_225 = 1 not(TMP\_225) = 0 TMP\_226 = 1 not(TMP\_226) = 0 TMP\_227 = 2 TMP\_228 = 1 not(TMP\_228) = 0 TMP\_229 = 0 not(TMP\_229) = 1 TMP\_230 = 1 not(TMP\_230) = 0 TMP\_231 = 1 not(TMP\_231) = 0 TMP\_232 = 1 not(TMP\_232) = 0 TMP\_233 = 1 not(TMP\_233) = 0 TMP\_234 = 5 TMP\_235 = 0 not(TMP\_235) = 1 TMP\_236 = 0 not(TMP\_236) = 1 TMP\_237 = 0 TMP\_238 = 1 not(TMP\_238) = 0 TMP\_239 = 1 not(TMP\_239) = 0 TMP\_240 = 2 TMP\_241 = 0 not(TMP\_241) = 1 TMP\_242 = 0 not(TMP\_242) = 1 TMP\_243 = 1 not(TMP\_243) = 0 TMP\_244 = 1 not(TMP\_244) = 0 TMP\_245 = 1 not(TMP\_245) = 0 TMP\_246 = 2 TMP\_247 = 0 not(TMP\_247) = 1 TMP\_248 = 1 not(TMP\_248) = 0 TMP\_249 = 1 not(TMP\_249) = 0 TMP\_250 = 1 not(TMP\_250) = 0 TMP\_251 = 1 not(TMP\_251) = 0 TMP\_252 = 1 not(TMP\_252) = 0 TMP\_253 = 5 TMP\_254 = 0 not(TMP\_254) = 1 TMP\_255 = 0 not(TMP\_255) = 1 TMP\_256 = 0 TMP\_257 = 1 not(TMP\_257) = 0 TMP\_258 = 1 not(TMP\_258) = 0 TMP\_259 = 2 TMP\_260 = 0 not(TMP\_260) = 1 TMP\_261 = 0 not(TMP\_261) = 1 TMP\_262 = 1 not(TMP\_262) = 0 TMP\_263 = 1 not(TMP\_263) = 0 TMP\_264 = 1 not(TMP\_264) = 0 TMP\_265 = 2 TMP\_266 = 1 not(TMP\_266) = 0 TMP\_267 = 1 not(TMP\_267) = 0 TMP\_268 = 1 not(TMP\_268) = 0 TMP\_269 = 1 not(TMP\_269) = 0 TMP\_270 = 1 not(TMP\_270) = 0 TMP\_271 = 0 not(TMP\_271) = 1 TMP\_272 = 5 TMP\_273 = 0 not(TMP\_273) = 1 TMP\_274 = 0 not(TMP\_274) = 1 TMP\_275 = 0 TMP\_276 = 1 not(TMP\_276) = 0 TMP\_277 = 1 not(TMP\_277) = 0 TMP\_278 = 2 TMP\_279 = 0 not(TMP\_279) = 1 TMP\_280 = 0 not(TMP\_280) = 1 TMP\_281 = 1 not(TMP\_281) = 0 TMP\_282 = 1 not(TMP\_282) = 0 TMP\_283 = 1 not(TMP\_283) = 0 TMP\_284 = 2 TMP\_285 = 0 not(TMP\_285) = 1 TMP\_286 = 1 not(TMP\_286) = 0 TMP\_287 = 1 not(TMP\_287) = 0 TMP\_288 = 1 not(TMP\_288) = 0 TMP\_289 = 1 not(TMP\_289) = 0 TMP\_290 = 0 not(TMP\_290) = 1 TMP\_291 = 4 TMP\_292 = 0 not(TMP\_292) = 1 TMP\_293 = 0 not(TMP\_293) = 1 TMP\_294 = 0 TMP\_295 = 1 not(TMP\_295) = 0 TMP\_296 = 1 not(TMP\_296) = 0 TMP\_297 = 2 TMP\_298 = 0 not(TMP\_298) = 1 TMP\_299 = 0 not(TMP\_299) = 1 TMP\_300 = 1 not(TMP\_300) = 0 TMP\_301 = 1 not(TMP\_301) = 0 TMP\_302 = 1 not(TMP\_302) = 0 TMP\_303 = 2 TMP\_304 = 0 not(TMP\_304) = 1 TMP\_305 = 1 not(TMP\_305) = 0 TMP\_306 = 1 not(TMP\_306) = 0 TMP\_307 = 1 not(TMP\_307) = 0 TMP\_308 = 1 not(TMP\_308) = 0 TMP\_309 = 1 not(TMP\_309) = 0 TMP\_310 = 5 TMP\_311 = 0 not(TMP\_311) = 1 TMP\_312 = 0 not(TMP\_312) = 1 TMP\_313 = 0 TMP\_314 = 1 not(TMP\_314) = 0 TMP\_315 = 1 not(TMP\_315) = 0 TMP\_316 = 2 TMP\_317 = 0 not(TMP\_317) = 1 TMP\_318 = 0 not(TMP\_318) = 1 TMP\_319 = 1 not(TMP\_319) = 0 TMP\_320 = 1 not(TMP\_320) = 0 TMP\_321 = 1 not(TMP\_321) = 0 TMP\_322 = 2 TMP\_323 = 0 not(TMP\_323) = 1 TMP\_324 = 1 not(TMP\_324) = 0 TMP\_325 = 1 not(TMP\_325) = 0 TMP\_326 = 1 not(TMP\_326) = 0 TMP\_327 = 1 not(TMP\_327) = 0 TMP\_328 = 1 not(TMP\_328) = 0 TMP\_329 = 5 TMP\_330 = 0 not(TMP\_330) = 1 TMP\_331 = 0 not(TMP\_331) = 1 TMP\_332 = 0 TMP\_333 = 1 not(TMP\_333) = 0 TMP\_334 = 1 not(TMP\_334) = 0 TMP\_335 = 2 TMP\_336 = 0 not(TMP\_336) = 1 TMP\_337 = 0 not(TMP\_337) = 1 TMP\_338 = 1 not(TMP\_338) = 0 TMP\_339 = 1 not(TMP\_339) = 0 TMP\_340 = 1 not(TMP\_340) = 0 TMP\_341 = 2 TMP\_342 = 0 not(TMP\_342) = 1 TMP\_343 = 1 not(TMP\_343) = 0 TMP\_344 = 1 not(TMP\_344) = 0 TMP\_345 = 1 not(TMP\_345) = 0 TMP\_346 = 0 not(TMP\_346) = 1 TMP\_347 = 1 not(TMP\_347) = 0 TMP\_348 = 4 TMP\_349 = 0 not(TMP\_349) = 1 TMP\_350 = 0 not(TMP\_350) = 1 TMP\_351 = 0 TMP\_352 = 1 not(TMP\_352) = 0 TMP\_353 = 1 not(TMP\_353) = 0 TMP\_354 = 2 TMP\_355 = 0 not(TMP\_355) = 1 TMP\_356 = 0 not(TMP\_356) = 1 TMP\_357 = 1 not(TMP\_357) = 0 TMP\_358 = 1 not(TMP\_358) = 0 TMP\_359 = 1 not(TMP\_359) = 0 TMP\_360 = 2 TMP\_361 = 0 not(TMP\_361) = 1 TMP\_362 = 1 not(TMP\_362) = 0 TMP\_363 = 1 not(TMP\_363) = 0 TMP\_364 = 1 not(TMP\_364) = 0 TMP\_365 = 0 not(TMP\_365) = 1 TMP\_366 = 1 not(TMP\_366) = 0 TMP\_367 = 4 TMP\_368 = 0 not(TMP\_368) = 1 TMP\_369 = 0 not(TMP\_369) = 1 TMP\_370 = 0 TMP\_371 = 1 not(TMP\_371) = 0 TMP\_372 = 1 not(TMP\_372) = 0 TMP\_373 = 2 TMP\_374 = 0 not(TMP\_374) = 1 TMP\_375 = 0 not(TMP\_375) = 1 TMP\_376 = 1 not(TMP\_376) = 0 TMP\_377 = 1 not(TMP\_377) = 0 TMP\_378 = 1 not(TMP\_378) = 0 TMP\_379 = 2 TMP\_380 = 1 not(TMP\_380) = 0 TMP\_381 = 1 not(TMP\_381) = 0 TMP\_382 = 1 not(TMP\_382) = 0 TMP\_383 = 1 not(TMP\_383) = 0 TMP\_384 = 0 not(TMP\_384) = 1 TMP\_385 = 1 not(TMP\_385) = 0 TMP\_386 = 5 TMP\_387 = 0 not(TMP\_387) = 1 TMP\_388 = 0 not(TMP\_388) = 1 TMP\_389 = 0 TMP\_390 = 1 not(TMP\_390) = 0 TMP\_391 = 1 not(TMP\_391) = 0 TMP\_392 = 2 TMP\_393 = 0 not(TMP\_393) = 1 TMP\_394 = 0 not(TMP\_394) = 1 TMP\_395 = 1 not(TMP\_395) = 0 TMP\_396 = 1 not(TMP\_396) = 0 TMP\_397 = 1 not(TMP\_397) = 0 TMP\_398 = 2 TMP\_399 = 0 not(TMP\_399) = 1 TMP\_400 = 1 not(TMP\_400) = 0 TMP\_401 = 1 not(TMP\_401) = 0 TMP\_402 = 1 not(TMP\_402) = 0 TMP\_403 = 0 not(TMP\_403) = 1 TMP\_404 = 1 not(TMP\_404) = 0 TMP\_405 = 4 TMP\_406 = 0 not(TMP\_406) = 1 TMP\_407 = 0 not(TMP\_407) = 1 TMP\_408 = 0 TMP\_409 = 1 not(TMP\_409) = 0 TMP\_410 = 1 not(TMP\_410) = 0 TMP\_411 = 2 TMP\_412 = 0 not(TMP\_412) = 1 TMP\_413 = 0 not(TMP\_413) = 1 TMP\_414 = 1 not(TMP\_414) = 0 TMP\_415 = 1 not(TMP\_415) = 0 TMP\_416 = 1 not(TMP\_416) = 0 TMP\_417 = 2 TMP\_418 = 1 not(TMP\_418) = 0 TMP\_419 = 1 not(TMP\_419) = 0 TMP\_420 = 1 not(TMP\_420) = 0 TMP\_421 = 1 not(TMP\_421) = 0 TMP\_422 = 0 not(TMP\_422) = 1 TMP\_423 = 1 not(TMP\_423) = 0 TMP\_424 = 5 TMP\_425 = 0 not(TMP\_425) = 1 TMP\_426 = 0 not(TMP\_426) = 1 TMP\_427 = 0 TMP\_428 = 1 not(TMP\_428) = 0 TMP\_429 = 1 not(TMP\_429) = 0 TMP\_430 = 2 TMP\_431 = 0 not(TMP\_431) = 1 TMP\_432 = 0 not(TMP\_432) = 1 TMP\_433 = 1 not(TMP\_433) = 0 TMP\_434 = 1 not(TMP\_434) = 0 TMP\_435 = 1 not(TMP\_435) = 0 TMP\_436 = 2 TMP\_437 = 0 not(TMP\_437) = 1 TMP\_438 = 1 not(TMP\_438) = 0 TMP\_439 = 1 not(TMP\_439) = 0 TMP\_440 = 1 not(TMP\_440) = 0 TMP\_441 = 1 not(TMP\_441) = 0 TMP\_442 = 1 not(TMP\_442) = 0 TMP\_443 = 5 TMP\_444 = 0 not(TMP\_444) = 1 TMP\_445 = 0 not(TMP\_445) = 1 TMP\_446 = 0 TMP\_447 = 1 not(TMP\_447) = 0 TMP\_448 = 1 not(TMP\_448) = 0 TMP\_449 = 2 TMP\_450 = 0 not(TMP\_450) = 1 TMP\_451 = 0 not(TMP\_451) = 1 TMP\_452 = 1 not(TMP\_452) = 0 TMP\_453 = 1 not(TMP\_453) = 0 TMP\_454 = 1 not(TMP\_454) = 0 TMP\_455 = 2 TMP\_456 = 0 not(TMP\_456) = 1 TMP\_457 = 1 not(TMP\_457) = 0 TMP\_458 = 1 not(TMP\_458) = 0 TMP\_459 = 1 not(TMP\_459) = 0 TMP\_460 = 1 not(TMP\_460) = 0 TMP\_461 = 1 not(TMP\_461) = 0 TMP\_462 = 5 TMP\_463 = 0 not(TMP\_463) = 1 TMP\_464 = 0 not(TMP\_464) = 1 TMP\_465 = 0 TMP\_466 = 1 not(TMP\_466) = 0 TMP\_467 = 1 not(TMP\_467) = 0 TMP\_468 = 2 TMP\_469 = 0 not(TMP\_469) = 1 TMP\_470 = 0 not(TMP\_470) = 1 TMP\_471 = 1 not(TMP\_471) = 0 TMP\_472 = 1 not(TMP\_472) = 0 TMP\_473 = 1 not(TMP\_473) = 0 TMP\_474 = 2 TMP\_475 = 1 not(TMP\_475) = 0 TMP\_476 = 0 not(TMP\_476) = 1 TMP\_477 = 1 not(TMP\_477) = 0 TMP\_478 = 1 not(TMP\_478) = 0 TMP\_479 = 1 not(TMP\_479) = 0 TMP\_480 = 1 not(TMP\_480) = 0 TMP\_481 = 5 TMP\_482 = 0 not(TMP\_482) = 1 TMP\_483 = 0 not(TMP\_483) = 1 TMP\_484 = 0 TMP\_485 = 1 not(TMP\_485) = 0 TMP\_486 = 1 not(TMP\_486) = 0 TMP\_487 = 2 TMP\_488 = 0 not(TMP\_488) = 1 TMP\_489 = 0 not(TMP\_489) = 1 TMP\_490 = 1 not(TMP\_490) = 0 TMP\_491 = 1 not(TMP\_491) = 0 TMP\_492 = 1 not(TMP\_492) = 0 TMP\_493 = 2 TMP\_494 = 1 not(TMP\_494) = 0 TMP\_495 = 0 not(TMP\_495) = 1 TMP\_496 = 1 not(TMP\_496) = 0 TMP\_497 = 1 not(TMP\_497) = 0 TMP\_498 = 0 not(TMP\_498) = 1 TMP\_499 = 1 not(TMP\_499) = 0 TMP\_500 = 4 TMP\_501 = 0 not(TMP\_501) = 1 TMP\_502 = 0 not(TMP\_502) = 1 TMP\_503 = 0 TMP\_504 = 1 not(TMP\_504) = 0 TMP\_505 = 1 not(TMP\_505) = 0 TMP\_506 = 2 TMP\_507 = 0 not(TMP\_507) = 1 TMP\_508 = 0 not(TMP\_508) = 1 TMP\_509 = 1 not(TMP\_509) = 0 TMP\_510 = 1 not(TMP\_510) = 0 TMP\_511 = 1 not(TMP\_511) = 0 TMP\_512 = 2 TMP\_513 = 1 not(TMP\_513) = 0 TMP\_514 = 0 not(TMP\_514) = 1 TMP\_515 = 1 not(TMP\_515) = 0 TMP\_516 = 1 not(TMP\_516) = 0 TMP\_517 = 0 not(TMP\_517) = 1 TMP\_518 = 1 not(TMP\_518) = 0 TMP\_519 = 4 TMP\_520 = 0 not(TMP\_520) = 1 TMP\_521 = 0 not(TMP\_521) = 1 TMP\_522 = 0 TMP\_523 = 1 not(TMP\_523) = 0 TMP\_524 = 1 not(TMP\_524) = 0 TMP\_525 = 2 TMP\_526 = 0 not(TMP\_526) = 1 TMP\_527 = 0 not(TMP\_527) = 1 TMP\_528 = 1 not(TMP\_528) = 0 TMP\_529 = 1 not(TMP\_529) = 0 TMP\_530 = 1 not(TMP\_530) = 0 TMP\_531 = 2 TMP\_532 = 1 not(TMP\_532) = 0 TMP\_533 = 0 not(TMP\_533) = 1 TMP\_534 = 1 not(TMP\_534) = 0 TMP\_535 = 1 not(TMP\_535) = 0 TMP\_536 = 0 not(TMP\_536) = 1 TMP\_537 = 1 not(TMP\_537) = 0 TMP\_538 = 4 TMP\_539 = 0 not(TMP\_539) = 1 TMP\_540 = 0 not(TMP\_540) = 1 TMP\_541 = 0 TMP\_542 = 1 not(TMP\_542) = 0 TMP\_543 = 1 not(TMP\_543) = 0 TMP\_544 = 2 TMP\_545 = 0 not(TMP\_545) = 1 TMP\_546 = 0 not(TMP\_546) = 1 TMP\_547 = 1 not(TMP\_547) = 0 TMP\_548 = 1 not(TMP\_548) = 0 TMP\_549 = 1 not(TMP\_549) = 0 TMP\_550 = 2 TMP\_551 = 1 not(TMP\_551) = 0 TMP\_552 = 1 not(TMP\_552) = 0 TMP\_553 = 1 not(TMP\_553) = 0 TMP\_554 = 1 not(TMP\_554) = 0 TMP\_555 = 0 not(TMP\_555) = 1 TMP\_556 = 1 not(TMP\_556) = 0 TMP\_557 = 5 TMP\_558 = 0 not(TMP\_558) = 1 TMP\_559 = 0 not(TMP\_559) = 1 TMP\_560 = 0 TMP\_561 = 1 not(TMP\_561) = 0 TMP\_562 = 1 not(TMP\_562) = 0 TMP\_563 = 2 TMP\_564 = 0 not(TMP\_564) = 1 TMP\_565 = 0 not(TMP\_565) = 1 TMP\_566 = 1 not(TMP\_566) = 0 TMP\_567 = 1 not(TMP\_567) = 0 TMP\_568 = 1 not(TMP\_568) = 0 TMP\_569 = 2 TMP\_570 = 1 not(TMP\_570) = 0 TMP\_571 = 0 not(TMP\_571) = 1 TMP\_572 = 1 not(TMP\_572) = 0 TMP\_573 = 1 not(TMP\_573) = 0 TMP\_574 = 0 not(TMP\_574) = 1 TMP\_575 = 1 not(TMP\_575) = 0 TMP\_576 = 4 TMP\_577 = 0 not(TMP\_577) = 1 TMP\_578 = 0 not(TMP\_578) = 1 TMP\_579 = 0 TMP\_580 = 1 not(TMP\_580) = 0 TMP\_581 = 1 not(TMP\_581) = 0 TMP\_582 = 2 TMP\_583 = 0 not(TMP\_583) = 1 TMP\_584 = 0 not(TMP\_584) = 1 TMP\_585 = 1 not(TMP\_585) = 0 TMP\_586 = 1 not(TMP\_586) = 0 TMP\_587 = 1 not(TMP\_587) = 0 TMP\_588 = 2 TMP\_589 = 1 not(TMP\_589) = 0 TMP\_590 = 0 not(TMP\_590) = 1 TMP\_591 = 1 not(TMP\_591) = 0 TMP\_592 = 1 not(TMP\_592) = 0 TMP\_593 = 1 not(TMP\_593) = 0 TMP\_594 = 1 not(TMP\_594) = 0 TMP\_595 = 5 TMP\_596 = 0 not(TMP\_596) = 1 TMP\_597 = 0 not(TMP\_597) = 1 TMP\_598 = 0 TMP\_599 = 1 not(TMP\_599) = 0 TMP\_600 = 1 not(TMP\_600) = 0 TMP\_601 = 2 TMP\_602 = 0 not(TMP\_602) = 1 TMP\_603 = 0 not(TMP\_603) = 1 TMP\_604 = 1 not(TMP\_604) = 0 TMP\_605 = 1 not(TMP\_605) = 0 TMP\_606 = 1 not(TMP\_606) = 0 TMP\_607 = 2 Area\_0 = 60 Distance\_0\_Rule\_0 = 20 Distance\_1\_Rule\_0 = 3 Distance\_2\_Rule\_0 = 1 Area\_1 = 174 Distance\_0\_Rule\_1 = 58 Distance\_1\_Rule\_1 = 3 Distance\_2\_Rule\_1 = 1 Area\_2 = 116 Distance\_0\_Rule\_2 = 58 Distance\_1\_Rule\_2 = 2 Distance\_2\_Rule\_2 = 1 Area\_3 = 58 Distance\_0\_Rule\_3 = 58 Distance\_1\_Rule\_3 = 1 Distance\_2\_Rule\_3 = 1 Area\_4 = 120 Distance\_0\_Rule\_4 = 40 Distance\_1\_Rule\_4 = 3 Distance\_2\_Rule\_4 = 1 Area\_5 = 63 -(Rule\_5\_LB) = 0 Distance\_0\_Rule\_5 = 21 -(Rule\_5\_LB) = 0 Distance\_1\_Rule\_5 = 3 -(Rule\_5\_LB) = 0 Distance\_2\_Rule\_5 = 1 Area\_6 = 3 -(Rule\_6\_LB) = -79 Distance\_0\_Rule\_6 = 1 -(Rule\_6\_LB) = 0 Distance\_1\_Rule\_6 = 3 -(Rule\_6\_LB) = 0 Distance\_2\_Rule\_6 = 1 Area\_7 = 123 -(Rule\_7\_LB) = -79 Distance\_0\_Rule\_7 = 41 -(Rule\_7\_LB) = 0 Distance\_1\_Rule\_7 = 3 -(Rule\_7\_LB) = -1 Distance\_2\_Rule\_7 = 1 Area\_8 = 3 -(Rule\_8\_LB) = -20 Distance\_0\_Rule\_8 = 1 -(Rule\_8\_LB) = 0 Distance\_1\_Rule\_8 = 3 -(Rule\_8\_LB) = -1 Distance\_2\_Rule\_8 = 1 TMP\_608 = 720 .

- Solution #9 found. 9 Solutions, Resolution 1.049s, 2303 Nodes (2,195.7 n/s), 4529 Backtracks, 2261 Fails, 0 Restarts

Rule\_5\_LB = 0 Rule\_5\_UB = 21 Rule\_5\_LB = 0 Rule\_5\_UB = 3 Rule\_5\_LB = 0 Rule\_5\_UB = 1 Rule\_6\_LB = 79 Rule\_6\_UB = 80 Rule\_6\_LB = 0 Rule\_6\_UB = 3 Rule\_6\_LB = 0 Rule\_6\_UB = 1 Rule\_7\_LB = 79 Rule\_7\_UB = 120 Rule\_7\_LB = 0 Rule\_7\_UB = 3 Rule\_7\_LB = 1 Rule\_7\_UB = 2 Rule\_8\_LB = 20 Rule\_8\_UB = 21 Rule\_8\_LB = 0 Rule\_8\_UB = 3 Rule\_8\_LB = 1 Rule\_8\_UB = 2 Overlaps\_0\_0 = 0 Overlaps\_0\_1 = 0 Overlaps\_0\_2 = 0 Overlaps\_0\_3 = 0 Overlaps\_0\_4 = 0 Overlaps\_0\_5 = 0 Overlaps\_0\_6 = 0 Overlaps\_0\_7 = 0 Overlaps\_0\_8 = 0 Overlaps\_1\_0 = 0 Overlaps\_1\_1 = 0 Overlaps\_1\_2 = 0 Overlaps\_1\_3 = 0 Overlaps\_1\_4 = 0 Overlaps\_1\_5 = 0 Overlaps\_1\_6 = 0 Overlaps\_1\_7 = 0 Overlaps\_1\_8 = 0 Overlaps\_2\_0 = 0 Overlaps\_2\_1 = 0 Overlaps\_2\_2 = 0 Overlaps\_2\_3 = 0 Overlaps\_2\_4 = 1 Overlaps\_2\_5 = 0 Overlaps\_2\_6 = 0 Overlaps\_2\_7 = 0 Overlaps\_2\_8 = 0 Overlaps\_3\_0 = 0 Overlaps\_3\_1 = 0 Overlaps\_3\_2 = 0 Overlaps\_3\_3 = 0 Overlaps\_3\_4 = 0 Overlaps\_3\_5 = 0 Overlaps\_3\_6 = 0 Overlaps\_3\_7 = 0 Overlaps\_3\_8 = 0 Overlaps\_4\_0 = 0 Overlaps\_4\_1 = 0 Overlaps\_4\_2 = 0 Overlaps\_4\_3 = 0 Overlaps\_4\_4 = 0 Overlaps\_4\_5 = 0 Overlaps\_4\_6 = 0 Overlaps\_4\_7 = 0 Overlaps\_4\_8 = 0 Overlaps\_5\_0 = 0 Overlaps\_5\_1 = 0 Overlaps\_5\_2 = 0 Overlaps\_5\_3 = 0 Overlaps\_5\_4 = 0 Overlaps\_5\_5 = 0 Overlaps\_5\_6 = 0 Overlaps\_5\_7 = 0 Overlaps\_5\_8 = 0 Overlaps\_6\_0 = 0 Overlaps\_6\_1 = 0 Overlaps\_6\_2 = 0 Overlaps\_6\_3 = 0 Overlaps\_6\_4 = 0 Overlaps\_6\_5 = 0 Overlaps\_6\_6 = 0 Overlaps\_6\_7 = 0 Overlaps\_6\_8 = 0 Overlaps\_7\_0 = 0 Overlaps\_7\_1 = 0 Overlaps\_7\_2 = 0 Overlaps\_7\_3 = 0 Overlaps\_7\_4 = 0 Overlaps\_7\_5 = 0 Overlaps\_7\_6 = 0 Overlaps\_7\_7 = 0 Overlaps\_7\_8 = 0 Overlaps\_8\_0 = 0 Overlaps\_8\_1 = 0 Overlaps\_8\_2 = 0 Overlaps\_8\_3 = 0 Overlaps\_8\_4 = 0 Overlaps\_8\_5 = 0 Overlaps\_8\_6 = 0 Overlaps\_8\_7 = 0 Overlaps\_8\_8 = 0 TMP\_0 = 1 not(TMP\_0) = 0 TMP\_1 = 1 not(TMP\_1) = 0 TMP\_2 = 1 not(TMP\_2) = 0 TMP\_3 = 1 not(TMP\_3) = 0 TMP\_4 = 1 not(TMP\_4) = 0 TMP\_5 = 0 not(TMP\_5) = 1 TMP\_6 = 5 TMP\_7 = 0 not(TMP\_7) = 1 TMP\_8 = 0 not(TMP\_8) = 1 TMP\_9 = 0 TMP\_10 = 1 not(TMP\_10) = 0 TMP\_11 = 1 not(TMP\_11) = 0 TMP\_12 = 2 TMP\_13 = 0 not(TMP\_13) = 1 TMP\_14 = 0 not(TMP\_14) = 1 TMP\_15 = 1 not(TMP\_15) = 0 TMP\_16 = 1 not(TMP\_16) = 0 TMP\_17 = 1 not(TMP\_17) = 0 TMP\_18 = 2 TMP\_19 = 1 not(TMP\_19) = 0 TMP\_20 = 0 not(TMP\_20) = 1 TMP\_21 = 1 not(TMP\_21) = 0 TMP\_22 = 1 not(TMP\_22) = 0 TMP\_23 = 1 not(TMP\_23) = 0 TMP\_24 = 0 not(TMP\_24) = 1 TMP\_25 = 4 TMP\_26 = 0 not(TMP\_26) = 1 TMP\_27 = 0 not(TMP\_27) = 1 TMP\_28 = 0 TMP\_29 = 1 not(TMP\_29) = 0 TMP\_30 = 1 not(TMP\_30) = 0 TMP\_31 = 2 TMP\_32 = 0 not(TMP\_32) = 1 TMP\_33 = 0 not(TMP\_33) = 1 TMP\_34 = 1 not(TMP\_34) = 0 TMP\_35 = 1 not(TMP\_35) = 0 TMP\_36 = 1 not(TMP\_36) = 0 TMP\_37 = 2 TMP\_38 = 1 not(TMP\_38) = 0 TMP\_39 = 0 not(TMP\_39) = 1 TMP\_40 = 1 not(TMP\_40) = 0 TMP\_41 = 1 not(TMP\_41) = 0 TMP\_42 = 1 not(TMP\_42) = 0 TMP\_43 = 1 not(TMP\_43) = 0 TMP\_44 = 5 TMP\_45 = 0 not(TMP\_45) = 1 TMP\_46 = 0 not(TMP\_46) = 1 TMP\_47 = 0 TMP\_48 = 1 not(TMP\_48) = 0 TMP\_49 = 1 not(TMP\_49) = 0 TMP\_50 = 2 TMP\_51 = 0 not(TMP\_51) = 1 TMP\_52 = 0 not(TMP\_52) = 1 TMP\_53 = 1 not(TMP\_53) = 0 TMP\_54 = 1 not(TMP\_54) = 0 TMP\_55 = 1 not(TMP\_55) = 0 TMP\_56 = 2 TMP\_57 = 1 not(TMP\_57) = 0 TMP\_58 = 0 not(TMP\_58) = 1 TMP\_59 = 1 not(TMP\_59) = 0 TMP\_60 = 1 not(TMP\_60) = 0 TMP\_61 = 1 not(TMP\_61) = 0 TMP\_62 = 1 not(TMP\_62) = 0 TMP\_63 = 5 TMP\_64 = 0 not(TMP\_64) = 1 TMP\_65 = 0 not(TMP\_65) = 1 TMP\_66 = 0 TMP\_67 = 1 not(TMP\_67) = 0 TMP\_68 = 1 not(TMP\_68) = 0 TMP\_69 = 2 TMP\_70 = 0 not(TMP\_70) = 1 TMP\_71 = 0 not(TMP\_71) = 1 TMP\_72 = 1 not(TMP\_72) = 0 TMP\_73 = 1 not(TMP\_73) = 0 TMP\_74 = 1 not(TMP\_74) = 0 TMP\_75 = 2 TMP\_76 = 1 not(TMP\_76) = 0 TMP\_77 = 0 not(TMP\_77) = 1 TMP\_78 = 1 not(TMP\_78) = 0 TMP\_79 = 1 not(TMP\_79) = 0 TMP\_80 = 1 not(TMP\_80) = 0 TMP\_81 = 1 not(TMP\_81) = 0 TMP\_82 = 5 TMP\_83 = 0 not(TMP\_83) = 1 TMP\_84 = 0 not(TMP\_84) = 1 TMP\_85 = 0 TMP\_86 = 1 not(TMP\_86) = 0 TMP\_87 = 1 not(TMP\_87) = 0 TMP\_88 = 2 TMP\_89 = 0 not(TMP\_89) = 1 TMP\_90 = 0 not(TMP\_90) = 1 TMP\_91 = 1 not(TMP\_91) = 0 TMP\_92 = 1 not(TMP\_92) = 0 TMP\_93 = 1 not(TMP\_93) = 0 TMP\_94 = 2 TMP\_95 = 1 not(TMP\_95) = 0 TMP\_96 = 0 not(TMP\_96) = 1 TMP\_97 = 1 not(TMP\_97) = 0 TMP\_98 = 1 not(TMP\_98) = 0 TMP\_99 = 1 not(TMP\_99) = 0 TMP\_100 = 1 not(TMP\_100) = 0 TMP\_101 = 5 TMP\_102 = 0 not(TMP\_102) = 1 TMP\_103 = 0 not(TMP\_103) = 1 TMP\_104 = 0 TMP\_105 = 1 not(TMP\_105) = 0 TMP\_106 = 1 not(TMP\_106) = 0 TMP\_107 = 2 TMP\_108 = 0 not(TMP\_108) = 1 TMP\_109 = 0 not(TMP\_109) = 1 TMP\_110 = 1 not(TMP\_110) = 0 TMP\_111 = 1 not(TMP\_111) = 0 TMP\_112 = 1 not(TMP\_112) = 0 TMP\_113 = 2 TMP\_114 = 1 not(TMP\_114) = 0 TMP\_115 = 0 not(TMP\_115) = 1 TMP\_116 = 1 not(TMP\_116) = 0 TMP\_117 = 1 not(TMP\_117) = 0 TMP\_118 = 1 not(TMP\_118) = 0 TMP\_119 = 0 not(TMP\_119) = 1 TMP\_120 = 4 TMP\_121 = 0 not(TMP\_121) = 1 TMP\_122 = 0 not(TMP\_122) = 1 TMP\_123 = 0 TMP\_124 = 1 not(TMP\_124) = 0 TMP\_125 = 1 not(TMP\_125) = 0 TMP\_126 = 2 TMP\_127 = 0 not(TMP\_127) = 1 TMP\_128 = 0 not(TMP\_128) = 1 TMP\_129 = 1 not(TMP\_129) = 0 TMP\_130 = 1 not(TMP\_130) = 0 TMP\_131 = 1 not(TMP\_131) = 0 TMP\_132 = 2 TMP\_133 = 1 not(TMP\_133) = 0 TMP\_134 = 1 not(TMP\_134) = 0 TMP\_135 = 1 not(TMP\_135) = 0 TMP\_136 = 1 not(TMP\_136) = 0 TMP\_137 = 1 not(TMP\_137) = 0 TMP\_138 = 0 not(TMP\_138) = 1 TMP\_139 = 5 TMP\_140 = 0 not(TMP\_140) = 1 TMP\_141 = 0 not(TMP\_141) = 1 TMP\_142 = 0 TMP\_143 = 1 not(TMP\_143) = 0 TMP\_144 = 1 not(TMP\_144) = 0 TMP\_145 = 2 TMP\_146 = 0 not(TMP\_146) = 1 TMP\_147 = 0 not(TMP\_147) = 1 TMP\_148 = 1 not(TMP\_148) = 0 TMP\_149 = 1 not(TMP\_149) = 0 TMP\_150 = 1 not(TMP\_150) = 0 TMP\_151 = 2 TMP\_152 = 0 not(TMP\_152) = 1 TMP\_153 = 1 not(TMP\_153) = 0 TMP\_154 = 1 not(TMP\_154) = 0 TMP\_155 = 1 not(TMP\_155) = 0 TMP\_156 = 1 not(TMP\_156) = 0 TMP\_157 = 0 not(TMP\_157) = 1 TMP\_158 = 4 TMP\_159 = 0 not(TMP\_159) = 1 TMP\_160 = 0 not(TMP\_160) = 1 TMP\_161 = 0 TMP\_162 = 1 not(TMP\_162) = 0 TMP\_163 = 1 not(TMP\_163) = 0 TMP\_164 = 2 TMP\_165 = 0 not(TMP\_165) = 1 TMP\_166 = 0 not(TMP\_166) = 1 TMP\_167 = 1 not(TMP\_167) = 0 TMP\_168 = 1 not(TMP\_168) = 0 TMP\_169 = 1 not(TMP\_169) = 0 TMP\_170 = 2 TMP\_171 = 0 not(TMP\_171) = 1 TMP\_172 = 1 not(TMP\_172) = 0 TMP\_173 = 1 not(TMP\_173) = 0 TMP\_174 = 1 not(TMP\_174) = 0 TMP\_175 = 1 not(TMP\_175) = 0 TMP\_176 = 0 not(TMP\_176) = 1 TMP\_177 = 4 TMP\_178 = 0 not(TMP\_178) = 1 TMP\_179 = 0 not(TMP\_179) = 1 TMP\_180 = 0 TMP\_181 = 1 not(TMP\_181) = 0 TMP\_182 = 1 not(TMP\_182) = 0 TMP\_183 = 2 TMP\_184 = 0 not(TMP\_184) = 1 TMP\_185 = 0 not(TMP\_185) = 1 TMP\_186 = 1 not(TMP\_186) = 0 TMP\_187 = 1 not(TMP\_187) = 0 TMP\_188 = 1 not(TMP\_188) = 0 TMP\_189 = 2 TMP\_190 = 0 not(TMP\_190) = 1 TMP\_191 = 1 not(TMP\_191) = 0 TMP\_192 = 1 not(TMP\_192) = 0 TMP\_193 = 1 not(TMP\_193) = 0 TMP\_194 = 1 not(TMP\_194) = 0 TMP\_195 = 1 not(TMP\_195) = 0 TMP\_196 = 5 TMP\_197 = 0 not(TMP\_197) = 1 TMP\_198 = 0 not(TMP\_198) = 1 TMP\_199 = 0 TMP\_200 = 1 not(TMP\_200) = 0 TMP\_201 = 1 not(TMP\_201) = 0 TMP\_202 = 2 TMP\_203 = 0 not(TMP\_203) = 1 TMP\_204 = 0 not(TMP\_204) = 1 TMP\_205 = 1 not(TMP\_205) = 0 TMP\_206 = 1 not(TMP\_206) = 0 TMP\_207 = 1 not(TMP\_207) = 0 TMP\_208 = 2 TMP\_209 = 0 not(TMP\_209) = 1 TMP\_210 = 1 not(TMP\_210) = 0 TMP\_211 = 1 not(TMP\_211) = 0 TMP\_212 = 1 not(TMP\_212) = 0 TMP\_213 = 1 not(TMP\_213) = 0 TMP\_214 = 1 not(TMP\_214) = 0 TMP\_215 = 5 TMP\_216 = 0 not(TMP\_216) = 1 TMP\_217 = 0 not(TMP\_217) = 1 TMP\_218 = 0 TMP\_219 = 1 not(TMP\_219) = 0 TMP\_220 = 1 not(TMP\_220) = 0 TMP\_221 = 2 TMP\_222 = 0 not(TMP\_222) = 1 TMP\_223 = 0 not(TMP\_223) = 1 TMP\_224 = 1 not(TMP\_224) = 0 TMP\_225 = 1 not(TMP\_225) = 0 TMP\_226 = 1 not(TMP\_226) = 0 TMP\_227 = 2 TMP\_228 = 1 not(TMP\_228) = 0 TMP\_229 = 0 not(TMP\_229) = 1 TMP\_230 = 1 not(TMP\_230) = 0 TMP\_231 = 1 not(TMP\_231) = 0 TMP\_232 = 1 not(TMP\_232) = 0 TMP\_233 = 1 not(TMP\_233) = 0 TMP\_234 = 5 TMP\_235 = 0 not(TMP\_235) = 1 TMP\_236 = 0 not(TMP\_236) = 1 TMP\_237 = 0 TMP\_238 = 1 not(TMP\_238) = 0 TMP\_239 = 1 not(TMP\_239) = 0 TMP\_240 = 2 TMP\_241 = 0 not(TMP\_241) = 1 TMP\_242 = 0 not(TMP\_242) = 1 TMP\_243 = 1 not(TMP\_243) = 0 TMP\_244 = 1 not(TMP\_244) = 0 TMP\_245 = 1 not(TMP\_245) = 0 TMP\_246 = 2 TMP\_247 = 0 not(TMP\_247) = 1 TMP\_248 = 1 not(TMP\_248) = 0 TMP\_249 = 1 not(TMP\_249) = 0 TMP\_250 = 1 not(TMP\_250) = 0 TMP\_251 = 1 not(TMP\_251) = 0 TMP\_252 = 1 not(TMP\_252) = 0 TMP\_253 = 5 TMP\_254 = 0 not(TMP\_254) = 1 TMP\_255 = 0 not(TMP\_255) = 1 TMP\_256 = 0 TMP\_257 = 1 not(TMP\_257) = 0 TMP\_258 = 1 not(TMP\_258) = 0 TMP\_259 = 2 TMP\_260 = 0 not(TMP\_260) = 1 TMP\_261 = 0 not(TMP\_261) = 1 TMP\_262 = 1 not(TMP\_262) = 0 TMP\_263 = 1 not(TMP\_263) = 0 TMP\_264 = 1 not(TMP\_264) = 0 TMP\_265 = 2 TMP\_266 = 1 not(TMP\_266) = 0 TMP\_267 = 1 not(TMP\_267) = 0 TMP\_268 = 1 not(TMP\_268) = 0 TMP\_269 = 1 not(TMP\_269) = 0 TMP\_270 = 1 not(TMP\_270) = 0 TMP\_271 = 0 not(TMP\_271) = 1 TMP\_272 = 5 TMP\_273 = 0 not(TMP\_273) = 1 TMP\_274 = 0 not(TMP\_274) = 1 TMP\_275 = 0 TMP\_276 = 1 not(TMP\_276) = 0 TMP\_277 = 1 not(TMP\_277) = 0 TMP\_278 = 2 TMP\_279 = 0 not(TMP\_279) = 1 TMP\_280 = 0 not(TMP\_280) = 1 TMP\_281 = 1 not(TMP\_281) = 0 TMP\_282 = 1 not(TMP\_282) = 0 TMP\_283 = 1 not(TMP\_283) = 0 TMP\_284 = 2 TMP\_285 = 0 not(TMP\_285) = 1 TMP\_286 = 1 not(TMP\_286) = 0 TMP\_287 = 1 not(TMP\_287) = 0 TMP\_288 = 1 not(TMP\_288) = 0 TMP\_289 = 1 not(TMP\_289) = 0 TMP\_290 = 0 not(TMP\_290) = 1 TMP\_291 = 4 TMP\_292 = 0 not(TMP\_292) = 1 TMP\_293 = 0 not(TMP\_293) = 1 TMP\_294 = 0 TMP\_295 = 1 not(TMP\_295) = 0 TMP\_296 = 1 not(TMP\_296) = 0 TMP\_297 = 2 TMP\_298 = 0 not(TMP\_298) = 1 TMP\_299 = 0 not(TMP\_299) = 1 TMP\_300 = 1 not(TMP\_300) = 0 TMP\_301 = 1 not(TMP\_301) = 0 TMP\_302 = 1 not(TMP\_302) = 0 TMP\_303 = 2 TMP\_304 = 0 not(TMP\_304) = 1 TMP\_305 = 1 not(TMP\_305) = 0 TMP\_306 = 1 not(TMP\_306) = 0 TMP\_307 = 1 not(TMP\_307) = 0 TMP\_308 = 1 not(TMP\_308) = 0 TMP\_309 = 1 not(TMP\_309) = 0 TMP\_310 = 5 TMP\_311 = 0 not(TMP\_311) = 1 TMP\_312 = 0 not(TMP\_312) = 1 TMP\_313 = 0 TMP\_314 = 1 not(TMP\_314) = 0 TMP\_315 = 1 not(TMP\_315) = 0 TMP\_316 = 2 TMP\_317 = 0 not(TMP\_317) = 1 TMP\_318 = 0 not(TMP\_318) = 1 TMP\_319 = 1 not(TMP\_319) = 0 TMP\_320 = 1 not(TMP\_320) = 0 TMP\_321 = 1 not(TMP\_321) = 0 TMP\_322 = 2 TMP\_323 = 0 not(TMP\_323) = 1 TMP\_324 = 1 not(TMP\_324) = 0 TMP\_325 = 1 not(TMP\_325) = 0 TMP\_326 = 1 not(TMP\_326) = 0 TMP\_327 = 1 not(TMP\_327) = 0 TMP\_328 = 1 not(TMP\_328) = 0 TMP\_329 = 5 TMP\_330 = 0 not(TMP\_330) = 1 TMP\_331 = 0 not(TMP\_331) = 1 TMP\_332 = 0 TMP\_333 = 1 not(TMP\_333) = 0 TMP\_334 = 1 not(TMP\_334) = 0 TMP\_335 = 2 TMP\_336 = 0 not(TMP\_336) = 1 TMP\_337 = 0 not(TMP\_337) = 1 TMP\_338 = 1 not(TMP\_338) = 0 TMP\_339 = 1 not(TMP\_339) = 0 TMP\_340 = 1 not(TMP\_340) = 0 TMP\_341 = 2 TMP\_342 = 0 not(TMP\_342) = 1 TMP\_343 = 1 not(TMP\_343) = 0 TMP\_344 = 1 not(TMP\_344) = 0 TMP\_345 = 1 not(TMP\_345) = 0 TMP\_346 = 0 not(TMP\_346) = 1 TMP\_347 = 1 not(TMP\_347) = 0 TMP\_348 = 4 TMP\_349 = 0 not(TMP\_349) = 1 TMP\_350 = 0 not(TMP\_350) = 1 TMP\_351 = 0 TMP\_352 = 1 not(TMP\_352) = 0 TMP\_353 = 1 not(TMP\_353) = 0 TMP\_354 = 2 TMP\_355 = 0 not(TMP\_355) = 1 TMP\_356 = 0 not(TMP\_356) = 1 TMP\_357 = 1 not(TMP\_357) = 0 TMP\_358 = 1 not(TMP\_358) = 0 TMP\_359 = 1 not(TMP\_359) = 0 TMP\_360 = 2 TMP\_361 = 0 not(TMP\_361) = 1 TMP\_362 = 1 not(TMP\_362) = 0 TMP\_363 = 1 not(TMP\_363) = 0 TMP\_364 = 1 not(TMP\_364) = 0 TMP\_365 = 0 not(TMP\_365) = 1 TMP\_366 = 1 not(TMP\_366) = 0 TMP\_367 = 4 TMP\_368 = 0 not(TMP\_368) = 1 TMP\_369 = 0 not(TMP\_369) = 1 TMP\_370 = 0 TMP\_371 = 1 not(TMP\_371) = 0 TMP\_372 = 1 not(TMP\_372) = 0 TMP\_373 = 2 TMP\_374 = 0 not(TMP\_374) = 1 TMP\_375 = 0 not(TMP\_375) = 1 TMP\_376 = 1 not(TMP\_376) = 0 TMP\_377 = 1 not(TMP\_377) = 0 TMP\_378 = 1 not(TMP\_378) = 0 TMP\_379 = 2 TMP\_380 = 1 not(TMP\_380) = 0 TMP\_381 = 1 not(TMP\_381) = 0 TMP\_382 = 1 not(TMP\_382) = 0 TMP\_383 = 1 not(TMP\_383) = 0 TMP\_384 = 0 not(TMP\_384) = 1 TMP\_385 = 1 not(TMP\_385) = 0 TMP\_386 = 5 TMP\_387 = 0 not(TMP\_387) = 1 TMP\_388 = 0 not(TMP\_388) = 1 TMP\_389 = 0 TMP\_390 = 1 not(TMP\_390) = 0 TMP\_391 = 1 not(TMP\_391) = 0 TMP\_392 = 2 TMP\_393 = 0 not(TMP\_393) = 1 TMP\_394 = 0 not(TMP\_394) = 1 TMP\_395 = 1 not(TMP\_395) = 0 TMP\_396 = 1 not(TMP\_396) = 0 TMP\_397 = 1 not(TMP\_397) = 0 TMP\_398 = 2 TMP\_399 = 0 not(TMP\_399) = 1 TMP\_400 = 1 not(TMP\_400) = 0 TMP\_401 = 1 not(TMP\_401) = 0 TMP\_402 = 1 not(TMP\_402) = 0 TMP\_403 = 0 not(TMP\_403) = 1 TMP\_404 = 1 not(TMP\_404) = 0 TMP\_405 = 4 TMP\_406 = 0 not(TMP\_406) = 1 TMP\_407 = 0 not(TMP\_407) = 1 TMP\_408 = 0 TMP\_409 = 1 not(TMP\_409) = 0 TMP\_410 = 1 not(TMP\_410) = 0 TMP\_411 = 2 TMP\_412 = 0 not(TMP\_412) = 1 TMP\_413 = 0 not(TMP\_413) = 1 TMP\_414 = 1 not(TMP\_414) = 0 TMP\_415 = 1 not(TMP\_415) = 0 TMP\_416 = 1 not(TMP\_416) = 0 TMP\_417 = 2 TMP\_418 = 1 not(TMP\_418) = 0 TMP\_419 = 1 not(TMP\_419) = 0 TMP\_420 = 1 not(TMP\_420) = 0 TMP\_421 = 1 not(TMP\_421) = 0 TMP\_422 = 0 not(TMP\_422) = 1 TMP\_423 = 1 not(TMP\_423) = 0 TMP\_424 = 5 TMP\_425 = 0 not(TMP\_425) = 1 TMP\_426 = 0 not(TMP\_426) = 1 TMP\_427 = 0 TMP\_428 = 1 not(TMP\_428) = 0 TMP\_429 = 1 not(TMP\_429) = 0 TMP\_430 = 2 TMP\_431 = 0 not(TMP\_431) = 1 TMP\_432 = 0 not(TMP\_432) = 1 TMP\_433 = 1 not(TMP\_433) = 0 TMP\_434 = 1 not(TMP\_434) = 0 TMP\_435 = 1 not(TMP\_435) = 0 TMP\_436 = 2 TMP\_437 = 0 not(TMP\_437) = 1 TMP\_438 = 1 not(TMP\_438) = 0 TMP\_439 = 1 not(TMP\_439) = 0 TMP\_440 = 1 not(TMP\_440) = 0 TMP\_441 = 1 not(TMP\_441) = 0 TMP\_442 = 1 not(TMP\_442) = 0 TMP\_443 = 5 TMP\_444 = 0 not(TMP\_444) = 1 TMP\_445 = 0 not(TMP\_445) = 1 TMP\_446 = 0 TMP\_447 = 1 not(TMP\_447) = 0 TMP\_448 = 1 not(TMP\_448) = 0 TMP\_449 = 2 TMP\_450 = 0 not(TMP\_450) = 1 TMP\_451 = 0 not(TMP\_451) = 1 TMP\_452 = 1 not(TMP\_452) = 0 TMP\_453 = 1 not(TMP\_453) = 0 TMP\_454 = 1 not(TMP\_454) = 0 TMP\_455 = 2 TMP\_456 = 0 not(TMP\_456) = 1 TMP\_457 = 1 not(TMP\_457) = 0 TMP\_458 = 1 not(TMP\_458) = 0 TMP\_459 = 1 not(TMP\_459) = 0 TMP\_460 = 1 not(TMP\_460) = 0 TMP\_461 = 1 not(TMP\_461) = 0 TMP\_462 = 5 TMP\_463 = 0 not(TMP\_463) = 1 TMP\_464 = 0 not(TMP\_464) = 1 TMP\_465 = 0 TMP\_466 = 1 not(TMP\_466) = 0 TMP\_467 = 1 not(TMP\_467) = 0 TMP\_468 = 2 TMP\_469 = 0 not(TMP\_469) = 1 TMP\_470 = 0 not(TMP\_470) = 1 TMP\_471 = 1 not(TMP\_471) = 0 TMP\_472 = 1 not(TMP\_472) = 0 TMP\_473 = 1 not(TMP\_473) = 0 TMP\_474 = 2 TMP\_475 = 1 not(TMP\_475) = 0 TMP\_476 = 0 not(TMP\_476) = 1 TMP\_477 = 1 not(TMP\_477) = 0 TMP\_478 = 1 not(TMP\_478) = 0 TMP\_479 = 1 not(TMP\_479) = 0 TMP\_480 = 1 not(TMP\_480) = 0 TMP\_481 = 5 TMP\_482 = 0 not(TMP\_482) = 1 TMP\_483 = 0 not(TMP\_483) = 1 TMP\_484 = 0 TMP\_485 = 1 not(TMP\_485) = 0 TMP\_486 = 1 not(TMP\_486) = 0 TMP\_487 = 2 TMP\_488 = 0 not(TMP\_488) = 1 TMP\_489 = 0 not(TMP\_489) = 1 TMP\_490 = 1 not(TMP\_490) = 0 TMP\_491 = 1 not(TMP\_491) = 0 TMP\_492 = 1 not(TMP\_492) = 0 TMP\_493 = 2 TMP\_494 = 1 not(TMP\_494) = 0 TMP\_495 = 0 not(TMP\_495) = 1 TMP\_496 = 1 not(TMP\_496) = 0 TMP\_497 = 1 not(TMP\_497) = 0 TMP\_498 = 0 not(TMP\_498) = 1 TMP\_499 = 1 not(TMP\_499) = 0 TMP\_500 = 4 TMP\_501 = 0 not(TMP\_501) = 1 TMP\_502 = 0 not(TMP\_502) = 1 TMP\_503 = 0 TMP\_504 = 1 not(TMP\_504) = 0 TMP\_505 = 1 not(TMP\_505) = 0 TMP\_506 = 2 TMP\_507 = 0 not(TMP\_507) = 1 TMP\_508 = 0 not(TMP\_508) = 1 TMP\_509 = 1 not(TMP\_509) = 0 TMP\_510 = 1 not(TMP\_510) = 0 TMP\_511 = 1 not(TMP\_511) = 0 TMP\_512 = 2 TMP\_513 = 1 not(TMP\_513) = 0 TMP\_514 = 0 not(TMP\_514) = 1 TMP\_515 = 1 not(TMP\_515) = 0 TMP\_516 = 1 not(TMP\_516) = 0 TMP\_517 = 0 not(TMP\_517) = 1 TMP\_518 = 1 not(TMP\_518) = 0 TMP\_519 = 4 TMP\_520 = 0 not(TMP\_520) = 1 TMP\_521 = 0 not(TMP\_521) = 1 TMP\_522 = 0 TMP\_523 = 1 not(TMP\_523) = 0 TMP\_524 = 1 not(TMP\_524) = 0 TMP\_525 = 2 TMP\_526 = 0 not(TMP\_526) = 1 TMP\_527 = 0 not(TMP\_527) = 1 TMP\_528 = 1 not(TMP\_528) = 0 TMP\_529 = 1 not(TMP\_529) = 0 TMP\_530 = 1 not(TMP\_530) = 0 TMP\_531 = 2 TMP\_532 = 1 not(TMP\_532) = 0 TMP\_533 = 0 not(TMP\_533) = 1 TMP\_534 = 1 not(TMP\_534) = 0 TMP\_535 = 1 not(TMP\_535) = 0 TMP\_536 = 0 not(TMP\_536) = 1 TMP\_537 = 1 not(TMP\_537) = 0 TMP\_538 = 4 TMP\_539 = 0 not(TMP\_539) = 1 TMP\_540 = 0 not(TMP\_540) = 1 TMP\_541 = 0 TMP\_542 = 1 not(TMP\_542) = 0 TMP\_543 = 1 not(TMP\_543) = 0 TMP\_544 = 2 TMP\_545 = 0 not(TMP\_545) = 1 TMP\_546 = 0 not(TMP\_546) = 1 TMP\_547 = 1 not(TMP\_547) = 0 TMP\_548 = 1 not(TMP\_548) = 0 TMP\_549 = 1 not(TMP\_549) = 0 TMP\_550 = 2 TMP\_551 = 1 not(TMP\_551) = 0 TMP\_552 = 1 not(TMP\_552) = 0 TMP\_553 = 1 not(TMP\_553) = 0 TMP\_554 = 1 not(TMP\_554) = 0 TMP\_555 = 0 not(TMP\_555) = 1 TMP\_556 = 1 not(TMP\_556) = 0 TMP\_557 = 5 TMP\_558 = 0 not(TMP\_558) = 1 TMP\_559 = 0 not(TMP\_559) = 1 TMP\_560 = 0 TMP\_561 = 1 not(TMP\_561) = 0 TMP\_562 = 1 not(TMP\_562) = 0 TMP\_563 = 2 TMP\_564 = 0 not(TMP\_564) = 1 TMP\_565 = 0 not(TMP\_565) = 1 TMP\_566 = 1 not(TMP\_566) = 0 TMP\_567 = 1 not(TMP\_567) = 0 TMP\_568 = 1 not(TMP\_568) = 0 TMP\_569 = 2 TMP\_570 = 1 not(TMP\_570) = 0 TMP\_571 = 0 not(TMP\_571) = 1 TMP\_572 = 1 not(TMP\_572) = 0 TMP\_573 = 1 not(TMP\_573) = 0 TMP\_574 = 0 not(TMP\_574) = 1 TMP\_575 = 1 not(TMP\_575) = 0 TMP\_576 = 4 TMP\_577 = 0 not(TMP\_577) = 1 TMP\_578 = 0 not(TMP\_578) = 1 TMP\_579 = 0 TMP\_580 = 1 not(TMP\_580) = 0 TMP\_581 = 1 not(TMP\_581) = 0 TMP\_582 = 2 TMP\_583 = 0 not(TMP\_583) = 1 TMP\_584 = 0 not(TMP\_584) = 1 TMP\_585 = 1 not(TMP\_585) = 0 TMP\_586 = 1 not(TMP\_586) = 0 TMP\_587 = 1 not(TMP\_587) = 0 TMP\_588 = 2 TMP\_589 = 1 not(TMP\_589) = 0 TMP\_590 = 0 not(TMP\_590) = 1 TMP\_591 = 1 not(TMP\_591) = 0 TMP\_592 = 1 not(TMP\_592) = 0 TMP\_593 = 1 not(TMP\_593) = 0 TMP\_594 = 1 not(TMP\_594) = 0 TMP\_595 = 5 TMP\_596 = 0 not(TMP\_596) = 1 TMP\_597 = 0 not(TMP\_597) = 1 TMP\_598 = 0 TMP\_599 = 1 not(TMP\_599) = 0 TMP\_600 = 1 not(TMP\_600) = 0 TMP\_601 = 2 TMP\_602 = 0 not(TMP\_602) = 1 TMP\_603 = 0 not(TMP\_603) = 1 TMP\_604 = 1 not(TMP\_604) = 0 TMP\_605 = 1 not(TMP\_605) = 0 TMP\_606 = 1 not(TMP\_606) = 0 TMP\_607 = 2 Area\_0 = 60 Distance\_0\_Rule\_0 = 20 Distance\_1\_Rule\_0 = 3 Distance\_2\_Rule\_0 = 1 Area\_1 = 174 Distance\_0\_Rule\_1 = 58 Distance\_1\_Rule\_1 = 3 Distance\_2\_Rule\_1 = 1 Area\_2 = 116 Distance\_0\_Rule\_2 = 58 Distance\_1\_Rule\_2 = 2 Distance\_2\_Rule\_2 = 1 Area\_3 = 58 Distance\_0\_Rule\_3 = 58 Distance\_1\_Rule\_3 = 1 Distance\_2\_Rule\_3 = 1 Area\_4 = 120 Distance\_0\_Rule\_4 = 40 Distance\_1\_Rule\_4 = 3 Distance\_2\_Rule\_4 = 1 Area\_5 = 63 -(Rule\_5\_LB) = 0 Distance\_0\_Rule\_5 = 21 -(Rule\_5\_LB) = 0 Distance\_1\_Rule\_5 = 3 -(Rule\_5\_LB) = 0 Distance\_2\_Rule\_5 = 1 Area\_6 = 3 -(Rule\_6\_LB) = -79 Distance\_0\_Rule\_6 = 1 -(Rule\_6\_LB) = 0 Distance\_1\_Rule\_6 = 3 -(Rule\_6\_LB) = 0 Distance\_2\_Rule\_6 = 1 Area\_7 = 123 -(Rule\_7\_LB) = -79 Distance\_0\_Rule\_7 = 41 -(Rule\_7\_LB) = 0 Distance\_1\_Rule\_7 = 3 -(Rule\_7\_LB) = -1 Distance\_2\_Rule\_7 = 1 Area\_8 = 3 -(Rule\_8\_LB) = -20 Distance\_0\_Rule\_8 = 1 -(Rule\_8\_LB) = 0 Distance\_1\_Rule\_8 = 3 -(Rule\_8\_LB) = -1 Distance\_2\_Rule\_8 = 1 TMP\_608 = 720 .

- Solution #10 found. 10 Solutions, Resolution 1.073s, 2304 Nodes (2,146.5 n/s), 4530 Backtracks, 2261 Fails, 0 Restarts

Rule\_5\_LB = 0 Rule\_5\_UB = 21 Rule\_5\_LB = 0 Rule\_5\_UB = 3 Rule\_5\_LB = 0 Rule\_5\_UB = 1 Rule\_6\_LB = 79 Rule\_6\_UB = 80 Rule\_6\_LB = 0 Rule\_6\_UB = 3 Rule\_6\_LB = 0 Rule\_6\_UB = 1 Rule\_7\_LB = 79 Rule\_7\_UB = 120 Rule\_7\_LB = 0 Rule\_7\_UB = 3 Rule\_7\_LB = 1 Rule\_7\_UB = 2 Rule\_8\_LB = 20 Rule\_8\_UB = 21 Rule\_8\_LB = 0 Rule\_8\_UB = 3 Rule\_8\_LB = 1 Rule\_8\_UB = 2 Overlaps\_0\_0 = 0 Overlaps\_0\_1 = 0 Overlaps\_0\_2 = 0 Overlaps\_0\_3 = 0 Overlaps\_0\_4 = 0 Overlaps\_0\_5 = 0 Overlaps\_0\_6 = 0 Overlaps\_0\_7 = 0 Overlaps\_0\_8 = 0 Overlaps\_1\_0 = 0 Overlaps\_1\_1 = 0 Overlaps\_1\_2 = 0 Overlaps\_1\_3 = 0 Overlaps\_1\_4 = 0 Overlaps\_1\_5 = 0 Overlaps\_1\_6 = 0 Overlaps\_1\_7 = 0 Overlaps\_1\_8 = 0 Overlaps\_2\_0 = 0 Overlaps\_2\_1 = 0 Overlaps\_2\_2 = 0 Overlaps\_2\_3 = 0 Overlaps\_2\_4 = 1 Overlaps\_2\_5 = 0 Overlaps\_2\_6 = 0 Overlaps\_2\_7 = 0 Overlaps\_2\_8 = 0 Overlaps\_3\_0 = 0 Overlaps\_3\_1 = 0 Overlaps\_3\_2 = 0 Overlaps\_3\_3 = 0 Overlaps\_3\_4 = 0 Overlaps\_3\_5 = 0 Overlaps\_3\_6 = 0 Overlaps\_3\_7 = 0 Overlaps\_3\_8 = 0 Overlaps\_4\_0 = 1 Overlaps\_4\_1 = 0 Overlaps\_4\_2 = 0 Overlaps\_4\_3 = 0 Overlaps\_4\_4 = 0 Overlaps\_4\_5 = 0 Overlaps\_4\_6 = 0 Overlaps\_4\_7 = 0 Overlaps\_4\_8 = 0 Overlaps\_5\_0 = 0 Overlaps\_5\_1 = 0 Overlaps\_5\_2 = 0 Overlaps\_5\_3 = 0 Overlaps\_5\_4 = 0 Overlaps\_5\_5 = 0 Overlaps\_5\_6 = 0 Overlaps\_5\_7 = 0 Overlaps\_5\_8 = 0 Overlaps\_6\_0 = 0 Overlaps\_6\_1 = 0 Overlaps\_6\_2 = 0 Overlaps\_6\_3 = 0 Overlaps\_6\_4 = 0 Overlaps\_6\_5 = 0 Overlaps\_6\_6 = 0 Overlaps\_6\_7 = 0 Overlaps\_6\_8 = 0 Overlaps\_7\_0 = 0 Overlaps\_7\_1 = 0 Overlaps\_7\_2 = 0 Overlaps\_7\_3 = 0 Overlaps\_7\_4 = 0 Overlaps\_7\_5 = 0 Overlaps\_7\_6 = 0 Overlaps\_7\_7 = 0 Overlaps\_7\_8 = 0 Overlaps\_8\_0 = 0 Overlaps\_8\_1 = 0 Overlaps\_8\_2 = 0 Overlaps\_8\_3 = 0 Overlaps\_8\_4 = 0 Overlaps\_8\_5 = 0 Overlaps\_8\_6 = 0 Overlaps\_8\_7 = 0 Overlaps\_8\_8 = 0 TMP\_0 = 1 not(TMP\_0) = 0 TMP\_1 = 1 not(TMP\_1) = 0 TMP\_2 = 1 not(TMP\_2) = 0 TMP\_3 = 1 not(TMP\_3) = 0 TMP\_4 = 1 not(TMP\_4) = 0 TMP\_5 = 0 not(TMP\_5) = 1 TMP\_6 = 5 TMP\_7 = 0 not(TMP\_7) = 1 TMP\_8 = 0 not(TMP\_8) = 1 TMP\_9 = 0 TMP\_10 = 1 not(TMP\_10) = 0 TMP\_11 = 1 not(TMP\_11) = 0 TMP\_12 = 2 TMP\_13 = 0 not(TMP\_13) = 1 TMP\_14 = 0 not(TMP\_14) = 1 TMP\_15 = 1 not(TMP\_15) = 0 TMP\_16 = 1 not(TMP\_16) = 0 TMP\_17 = 1 not(TMP\_17) = 0 TMP\_18 = 2 TMP\_19 = 1 not(TMP\_19) = 0 TMP\_20 = 0 not(TMP\_20) = 1 TMP\_21 = 1 not(TMP\_21) = 0 TMP\_22 = 1 not(TMP\_22) = 0 TMP\_23 = 1 not(TMP\_23) = 0 TMP\_24 = 0 not(TMP\_24) = 1 TMP\_25 = 4 TMP\_26 = 0 not(TMP\_26) = 1 TMP\_27 = 0 not(TMP\_27) = 1 TMP\_28 = 0 TMP\_29 = 1 not(TMP\_29) = 0 TMP\_30 = 1 not(TMP\_30) = 0 TMP\_31 = 2 TMP\_32 = 0 not(TMP\_32) = 1 TMP\_33 = 0 not(TMP\_33) = 1 TMP\_34 = 1 not(TMP\_34) = 0 TMP\_35 = 1 not(TMP\_35) = 0 TMP\_36 = 1 not(TMP\_36) = 0 TMP\_37 = 2 TMP\_38 = 1 not(TMP\_38) = 0 TMP\_39 = 0 not(TMP\_39) = 1 TMP\_40 = 1 not(TMP\_40) = 0 TMP\_41 = 1 not(TMP\_41) = 0 TMP\_42 = 1 not(TMP\_42) = 0 TMP\_43 = 1 not(TMP\_43) = 0 TMP\_44 = 5 TMP\_45 = 0 not(TMP\_45) = 1 TMP\_46 = 0 not(TMP\_46) = 1 TMP\_47 = 0 TMP\_48 = 1 not(TMP\_48) = 0 TMP\_49 = 1 not(TMP\_49) = 0 TMP\_50 = 2 TMP\_51 = 0 not(TMP\_51) = 1 TMP\_52 = 0 not(TMP\_52) = 1 TMP\_53 = 1 not(TMP\_53) = 0 TMP\_54 = 1 not(TMP\_54) = 0 TMP\_55 = 1 not(TMP\_55) = 0 TMP\_56 = 2 TMP\_57 = 1 not(TMP\_57) = 0 TMP\_58 = 0 not(TMP\_58) = 1 TMP\_59 = 1 not(TMP\_59) = 0 TMP\_60 = 1 not(TMP\_60) = 0 TMP\_61 = 1 not(TMP\_61) = 0 TMP\_62 = 1 not(TMP\_62) = 0 TMP\_63 = 5 TMP\_64 = 0 not(TMP\_64) = 1 TMP\_65 = 0 not(TMP\_65) = 1 TMP\_66 = 0 TMP\_67 = 1 not(TMP\_67) = 0 TMP\_68 = 1 not(TMP\_68) = 0 TMP\_69 = 2 TMP\_70 = 0 not(TMP\_70) = 1 TMP\_71 = 0 not(TMP\_71) = 1 TMP\_72 = 1 not(TMP\_72) = 0 TMP\_73 = 1 not(TMP\_73) = 0 TMP\_74 = 1 not(TMP\_74) = 0 TMP\_75 = 2 TMP\_76 = 1 not(TMP\_76) = 0 TMP\_77 = 0 not(TMP\_77) = 1 TMP\_78 = 1 not(TMP\_78) = 0 TMP\_79 = 1 not(TMP\_79) = 0 TMP\_80 = 1 not(TMP\_80) = 0 TMP\_81 = 1 not(TMP\_81) = 0 TMP\_82 = 5 TMP\_83 = 0 not(TMP\_83) = 1 TMP\_84 = 0 not(TMP\_84) = 1 TMP\_85 = 0 TMP\_86 = 1 not(TMP\_86) = 0 TMP\_87 = 1 not(TMP\_87) = 0 TMP\_88 = 2 TMP\_89 = 0 not(TMP\_89) = 1 TMP\_90 = 0 not(TMP\_90) = 1 TMP\_91 = 1 not(TMP\_91) = 0 TMP\_92 = 1 not(TMP\_92) = 0 TMP\_93 = 1 not(TMP\_93) = 0 TMP\_94 = 2 TMP\_95 = 1 not(TMP\_95) = 0 TMP\_96 = 0 not(TMP\_96) = 1 TMP\_97 = 1 not(TMP\_97) = 0 TMP\_98 = 1 not(TMP\_98) = 0 TMP\_99 = 1 not(TMP\_99) = 0 TMP\_100 = 1 not(TMP\_100) = 0 TMP\_101 = 5 TMP\_102 = 0 not(TMP\_102) = 1 TMP\_103 = 0 not(TMP\_103) = 1 TMP\_104 = 0 TMP\_105 = 1 not(TMP\_105) = 0 TMP\_106 = 1 not(TMP\_106) = 0 TMP\_107 = 2 TMP\_108 = 0 not(TMP\_108) = 1 TMP\_109 = 0 not(TMP\_109) = 1 TMP\_110 = 1 not(TMP\_110) = 0 TMP\_111 = 1 not(TMP\_111) = 0 TMP\_112 = 1 not(TMP\_112) = 0 TMP\_113 = 2 TMP\_114 = 1 not(TMP\_114) = 0 TMP\_115 = 0 not(TMP\_115) = 1 TMP\_116 = 1 not(TMP\_116) = 0 TMP\_117 = 1 not(TMP\_117) = 0 TMP\_118 = 1 not(TMP\_118) = 0 TMP\_119 = 0 not(TMP\_119) = 1 TMP\_120 = 4 TMP\_121 = 0 not(TMP\_121) = 1 TMP\_122 = 0 not(TMP\_122) = 1 TMP\_123 = 0 TMP\_124 = 1 not(TMP\_124) = 0 TMP\_125 = 1 not(TMP\_125) = 0 TMP\_126 = 2 TMP\_127 = 0 not(TMP\_127) = 1 TMP\_128 = 0 not(TMP\_128) = 1 TMP\_129 = 1 not(TMP\_129) = 0 TMP\_130 = 1 not(TMP\_130) = 0 TMP\_131 = 1 not(TMP\_131) = 0 TMP\_132 = 2 TMP\_133 = 1 not(TMP\_133) = 0 TMP\_134 = 1 not(TMP\_134) = 0 TMP\_135 = 1 not(TMP\_135) = 0 TMP\_136 = 1 not(TMP\_136) = 0 TMP\_137 = 1 not(TMP\_137) = 0 TMP\_138 = 0 not(TMP\_138) = 1 TMP\_139 = 5 TMP\_140 = 0 not(TMP\_140) = 1 TMP\_141 = 0 not(TMP\_141) = 1 TMP\_142 = 0 TMP\_143 = 1 not(TMP\_143) = 0 TMP\_144 = 1 not(TMP\_144) = 0 TMP\_145 = 2 TMP\_146 = 0 not(TMP\_146) = 1 TMP\_147 = 0 not(TMP\_147) = 1 TMP\_148 = 1 not(TMP\_148) = 0 TMP\_149 = 1 not(TMP\_149) = 0 TMP\_150 = 1 not(TMP\_150) = 0 TMP\_151 = 2 TMP\_152 = 0 not(TMP\_152) = 1 TMP\_153 = 1 not(TMP\_153) = 0 TMP\_154 = 1 not(TMP\_154) = 0 TMP\_155 = 1 not(TMP\_155) = 0 TMP\_156 = 1 not(TMP\_156) = 0 TMP\_157 = 0 not(TMP\_157) = 1 TMP\_158 = 4 TMP\_159 = 0 not(TMP\_159) = 1 TMP\_160 = 0 not(TMP\_160) = 1 TMP\_161 = 0 TMP\_162 = 1 not(TMP\_162) = 0 TMP\_163 = 1 not(TMP\_163) = 0 TMP\_164 = 2 TMP\_165 = 0 not(TMP\_165) = 1 TMP\_166 = 0 not(TMP\_166) = 1 TMP\_167 = 1 not(TMP\_167) = 0 TMP\_168 = 1 not(TMP\_168) = 0 TMP\_169 = 1 not(TMP\_169) = 0 TMP\_170 = 2 TMP\_171 = 0 not(TMP\_171) = 1 TMP\_172 = 1 not(TMP\_172) = 0 TMP\_173 = 1 not(TMP\_173) = 0 TMP\_174 = 1 not(TMP\_174) = 0 TMP\_175 = 1 not(TMP\_175) = 0 TMP\_176 = 0 not(TMP\_176) = 1 TMP\_177 = 4 TMP\_178 = 0 not(TMP\_178) = 1 TMP\_179 = 0 not(TMP\_179) = 1 TMP\_180 = 0 TMP\_181 = 1 not(TMP\_181) = 0 TMP\_182 = 1 not(TMP\_182) = 0 TMP\_183 = 2 TMP\_184 = 0 not(TMP\_184) = 1 TMP\_185 = 0 not(TMP\_185) = 1 TMP\_186 = 1 not(TMP\_186) = 0 TMP\_187 = 1 not(TMP\_187) = 0 TMP\_188 = 1 not(TMP\_188) = 0 TMP\_189 = 2 TMP\_190 = 0 not(TMP\_190) = 1 TMP\_191 = 1 not(TMP\_191) = 0 TMP\_192 = 1 not(TMP\_192) = 0 TMP\_193 = 1 not(TMP\_193) = 0 TMP\_194 = 1 not(TMP\_194) = 0 TMP\_195 = 1 not(TMP\_195) = 0 TMP\_196 = 5 TMP\_197 = 0 not(TMP\_197) = 1 TMP\_198 = 0 not(TMP\_198) = 1 TMP\_199 = 0 TMP\_200 = 1 not(TMP\_200) = 0 TMP\_201 = 1 not(TMP\_201) = 0 TMP\_202 = 2 TMP\_203 = 0 not(TMP\_203) = 1 TMP\_204 = 0 not(TMP\_204) = 1 TMP\_205 = 1 not(TMP\_205) = 0 TMP\_206 = 1 not(TMP\_206) = 0 TMP\_207 = 1 not(TMP\_207) = 0 TMP\_208 = 2 TMP\_209 = 0 not(TMP\_209) = 1 TMP\_210 = 1 not(TMP\_210) = 0 TMP\_211 = 1 not(TMP\_211) = 0 TMP\_212 = 1 not(TMP\_212) = 0 TMP\_213 = 1 not(TMP\_213) = 0 TMP\_214 = 1 not(TMP\_214) = 0 TMP\_215 = 5 TMP\_216 = 0 not(TMP\_216) = 1 TMP\_217 = 0 not(TMP\_217) = 1 TMP\_218 = 0 TMP\_219 = 1 not(TMP\_219) = 0 TMP\_220 = 1 not(TMP\_220) = 0 TMP\_221 = 2 TMP\_222 = 0 not(TMP\_222) = 1 TMP\_223 = 0 not(TMP\_223) = 1 TMP\_224 = 1 not(TMP\_224) = 0 TMP\_225 = 1 not(TMP\_225) = 0 TMP\_226 = 1 not(TMP\_226) = 0 TMP\_227 = 2 TMP\_228 = 1 not(TMP\_228) = 0 TMP\_229 = 0 not(TMP\_229) = 1 TMP\_230 = 1 not(TMP\_230) = 0 TMP\_231 = 1 not(TMP\_231) = 0 TMP\_232 = 1 not(TMP\_232) = 0 TMP\_233 = 1 not(TMP\_233) = 0 TMP\_234 = 5 TMP\_235 = 0 not(TMP\_235) = 1 TMP\_236 = 0 not(TMP\_236) = 1 TMP\_237 = 0 TMP\_238 = 1 not(TMP\_238) = 0 TMP\_239 = 1 not(TMP\_239) = 0 TMP\_240 = 2 TMP\_241 = 0 not(TMP\_241) = 1 TMP\_242 = 0 not(TMP\_242) = 1 TMP\_243 = 1 not(TMP\_243) = 0 TMP\_244 = 1 not(TMP\_244) = 0 TMP\_245 = 1 not(TMP\_245) = 0 TMP\_246 = 2 TMP\_247 = 0 not(TMP\_247) = 1 TMP\_248 = 1 not(TMP\_248) = 0 TMP\_249 = 1 not(TMP\_249) = 0 TMP\_250 = 1 not(TMP\_250) = 0 TMP\_251 = 1 not(TMP\_251) = 0 TMP\_252 = 1 not(TMP\_252) = 0 TMP\_253 = 5 TMP\_254 = 0 not(TMP\_254) = 1 TMP\_255 = 0 not(TMP\_255) = 1 TMP\_256 = 0 TMP\_257 = 1 not(TMP\_257) = 0 TMP\_258 = 1 not(TMP\_258) = 0 TMP\_259 = 2 TMP\_260 = 0 not(TMP\_260) = 1 TMP\_261 = 0 not(TMP\_261) = 1 TMP\_262 = 1 not(TMP\_262) = 0 TMP\_263 = 1 not(TMP\_263) = 0 TMP\_264 = 1 not(TMP\_264) = 0 TMP\_265 = 2 TMP\_266 = 1 not(TMP\_266) = 0 TMP\_267 = 1 not(TMP\_267) = 0 TMP\_268 = 1 not(TMP\_268) = 0 TMP\_269 = 1 not(TMP\_269) = 0 TMP\_270 = 1 not(TMP\_270) = 0 TMP\_271 = 0 not(TMP\_271) = 1 TMP\_272 = 5 TMP\_273 = 0 not(TMP\_273) = 1 TMP\_274 = 0 not(TMP\_274) = 1 TMP\_275 = 0 TMP\_276 = 1 not(TMP\_276) = 0 TMP\_277 = 1 not(TMP\_277) = 0 TMP\_278 = 2 TMP\_279 = 0 not(TMP\_279) = 1 TMP\_280 = 0 not(TMP\_280) = 1 TMP\_281 = 1 not(TMP\_281) = 0 TMP\_282 = 1 not(TMP\_282) = 0 TMP\_283 = 1 not(TMP\_283) = 0 TMP\_284 = 2 TMP\_285 = 0 not(TMP\_285) = 1 TMP\_286 = 1 not(TMP\_286) = 0 TMP\_287 = 1 not(TMP\_287) = 0 TMP\_288 = 1 not(TMP\_288) = 0 TMP\_289 = 1 not(TMP\_289) = 0 TMP\_290 = 0 not(TMP\_290) = 1 TMP\_291 = 4 TMP\_292 = 0 not(TMP\_292) = 1 TMP\_293 = 0 not(TMP\_293) = 1 TMP\_294 = 0 TMP\_295 = 1 not(TMP\_295) = 0 TMP\_296 = 1 not(TMP\_296) = 0 TMP\_297 = 2 TMP\_298 = 0 not(TMP\_298) = 1 TMP\_299 = 0 not(TMP\_299) = 1 TMP\_300 = 1 not(TMP\_300) = 0 TMP\_301 = 1 not(TMP\_301) = 0 TMP\_302 = 1 not(TMP\_302) = 0 TMP\_303 = 2 TMP\_304 = 0 not(TMP\_304) = 1 TMP\_305 = 1 not(TMP\_305) = 0 TMP\_306 = 1 not(TMP\_306) = 0 TMP\_307 = 1 not(TMP\_307) = 0 TMP\_308 = 1 not(TMP\_308) = 0 TMP\_309 = 1 not(TMP\_309) = 0 TMP\_310 = 5 TMP\_311 = 0 not(TMP\_311) = 1 TMP\_312 = 0 not(TMP\_312) = 1 TMP\_313 = 0 TMP\_314 = 1 not(TMP\_314) = 0 TMP\_315 = 1 not(TMP\_315) = 0 TMP\_316 = 2 TMP\_317 = 0 not(TMP\_317) = 1 TMP\_318 = 0 not(TMP\_318) = 1 TMP\_319 = 1 not(TMP\_319) = 0 TMP\_320 = 1 not(TMP\_320) = 0 TMP\_321 = 1 not(TMP\_321) = 0 TMP\_322 = 2 TMP\_323 = 0 not(TMP\_323) = 1 TMP\_324 = 1 not(TMP\_324) = 0 TMP\_325 = 1 not(TMP\_325) = 0 TMP\_326 = 1 not(TMP\_326) = 0 TMP\_327 = 1 not(TMP\_327) = 0 TMP\_328 = 1 not(TMP\_328) = 0 TMP\_329 = 5 TMP\_330 = 0 not(TMP\_330) = 1 TMP\_331 = 0 not(TMP\_331) = 1 TMP\_332 = 0 TMP\_333 = 1 not(TMP\_333) = 0 TMP\_334 = 1 not(TMP\_334) = 0 TMP\_335 = 2 TMP\_336 = 0 not(TMP\_336) = 1 TMP\_337 = 0 not(TMP\_337) = 1 TMP\_338 = 1 not(TMP\_338) = 0 TMP\_339 = 1 not(TMP\_339) = 0 TMP\_340 = 1 not(TMP\_340) = 0 TMP\_341 = 2 TMP\_342 = 0 not(TMP\_342) = 1 TMP\_343 = 1 not(TMP\_343) = 0 TMP\_344 = 1 not(TMP\_344) = 0 TMP\_345 = 1 not(TMP\_345) = 0 TMP\_346 = 0 not(TMP\_346) = 1 TMP\_347 = 1 not(TMP\_347) = 0 TMP\_348 = 4 TMP\_349 = 0 not(TMP\_349) = 1 TMP\_350 = 0 not(TMP\_350) = 1 TMP\_351 = 0 TMP\_352 = 1 not(TMP\_352) = 0 TMP\_353 = 1 not(TMP\_353) = 0 TMP\_354 = 2 TMP\_355 = 0 not(TMP\_355) = 1 TMP\_356 = 0 not(TMP\_356) = 1 TMP\_357 = 1 not(TMP\_357) = 0 TMP\_358 = 1 not(TMP\_358) = 0 TMP\_359 = 1 not(TMP\_359) = 0 TMP\_360 = 2 TMP\_361 = 0 not(TMP\_361) = 1 TMP\_362 = 1 not(TMP\_362) = 0 TMP\_363 = 1 not(TMP\_363) = 0 TMP\_364 = 1 not(TMP\_364) = 0 TMP\_365 = 0 not(TMP\_365) = 1 TMP\_366 = 1 not(TMP\_366) = 0 TMP\_367 = 4 TMP\_368 = 0 not(TMP\_368) = 1 TMP\_369 = 0 not(TMP\_369) = 1 TMP\_370 = 0 TMP\_371 = 1 not(TMP\_371) = 0 TMP\_372 = 1 not(TMP\_372) = 0 TMP\_373 = 2 TMP\_374 = 0 not(TMP\_374) = 1 TMP\_375 = 0 not(TMP\_375) = 1 TMP\_376 = 1 not(TMP\_376) = 0 TMP\_377 = 1 not(TMP\_377) = 0 TMP\_378 = 1 not(TMP\_378) = 0 TMP\_379 = 2 TMP\_380 = 1 not(TMP\_380) = 0 TMP\_381 = 1 not(TMP\_381) = 0 TMP\_382 = 1 not(TMP\_382) = 0 TMP\_383 = 1 not(TMP\_383) = 0 TMP\_384 = 0 not(TMP\_384) = 1 TMP\_385 = 1 not(TMP\_385) = 0 TMP\_386 = 5 TMP\_387 = 0 not(TMP\_387) = 1 TMP\_388 = 0 not(TMP\_388) = 1 TMP\_389 = 0 TMP\_390 = 1 not(TMP\_390) = 0 TMP\_391 = 1 not(TMP\_391) = 0 TMP\_392 = 2 TMP\_393 = 0 not(TMP\_393) = 1 TMP\_394 = 0 not(TMP\_394) = 1 TMP\_395 = 1 not(TMP\_395) = 0 TMP\_396 = 1 not(TMP\_396) = 0 TMP\_397 = 1 not(TMP\_397) = 0 TMP\_398 = 2 TMP\_399 = 0 not(TMP\_399) = 1 TMP\_400 = 1 not(TMP\_400) = 0 TMP\_401 = 1 not(TMP\_401) = 0 TMP\_402 = 1 not(TMP\_402) = 0 TMP\_403 = 0 not(TMP\_403) = 1 TMP\_404 = 1 not(TMP\_404) = 0 TMP\_405 = 4 TMP\_406 = 0 not(TMP\_406) = 1 TMP\_407 = 0 not(TMP\_407) = 1 TMP\_408 = 0 TMP\_409 = 1 not(TMP\_409) = 0 TMP\_410 = 1 not(TMP\_410) = 0 TMP\_411 = 2 TMP\_412 = 0 not(TMP\_412) = 1 TMP\_413 = 0 not(TMP\_413) = 1 TMP\_414 = 1 not(TMP\_414) = 0 TMP\_415 = 1 not(TMP\_415) = 0 TMP\_416 = 1 not(TMP\_416) = 0 TMP\_417 = 2 TMP\_418 = 1 not(TMP\_418) = 0 TMP\_419 = 1 not(TMP\_419) = 0 TMP\_420 = 1 not(TMP\_420) = 0 TMP\_421 = 1 not(TMP\_421) = 0 TMP\_422 = 0 not(TMP\_422) = 1 TMP\_423 = 1 not(TMP\_423) = 0 TMP\_424 = 5 TMP\_425 = 0 not(TMP\_425) = 1 TMP\_426 = 0 not(TMP\_426) = 1 TMP\_427 = 0 TMP\_428 = 1 not(TMP\_428) = 0 TMP\_429 = 1 not(TMP\_429) = 0 TMP\_430 = 2 TMP\_431 = 0 not(TMP\_431) = 1 TMP\_432 = 0 not(TMP\_432) = 1 TMP\_433 = 1 not(TMP\_433) = 0 TMP\_434 = 1 not(TMP\_434) = 0 TMP\_435 = 1 not(TMP\_435) = 0 TMP\_436 = 2 TMP\_437 = 0 not(TMP\_437) = 1 TMP\_438 = 1 not(TMP\_438) = 0 TMP\_439 = 1 not(TMP\_439) = 0 TMP\_440 = 1 not(TMP\_440) = 0 TMP\_441 = 1 not(TMP\_441) = 0 TMP\_442 = 1 not(TMP\_442) = 0 TMP\_443 = 5 TMP\_444 = 0 not(TMP\_444) = 1 TMP\_445 = 0 not(TMP\_445) = 1 TMP\_446 = 0 TMP\_447 = 1 not(TMP\_447) = 0 TMP\_448 = 1 not(TMP\_448) = 0 TMP\_449 = 2 TMP\_450 = 0 not(TMP\_450) = 1 TMP\_451 = 0 not(TMP\_451) = 1 TMP\_452 = 1 not(TMP\_452) = 0 TMP\_453 = 1 not(TMP\_453) = 0 TMP\_454 = 1 not(TMP\_454) = 0 TMP\_455 = 2 TMP\_456 = 0 not(TMP\_456) = 1 TMP\_457 = 1 not(TMP\_457) = 0 TMP\_458 = 1 not(TMP\_458) = 0 TMP\_459 = 1 not(TMP\_459) = 0 TMP\_460 = 1 not(TMP\_460) = 0 TMP\_461 = 1 not(TMP\_461) = 0 TMP\_462 = 5 TMP\_463 = 0 not(TMP\_463) = 1 TMP\_464 = 0 not(TMP\_464) = 1 TMP\_465 = 0 TMP\_466 = 1 not(TMP\_466) = 0 TMP\_467 = 1 not(TMP\_467) = 0 TMP\_468 = 2 TMP\_469 = 0 not(TMP\_469) = 1 TMP\_470 = 0 not(TMP\_470) = 1 TMP\_471 = 1 not(TMP\_471) = 0 TMP\_472 = 1 not(TMP\_472) = 0 TMP\_473 = 1 not(TMP\_473) = 0 TMP\_474 = 2 TMP\_475 = 1 not(TMP\_475) = 0 TMP\_476 = 0 not(TMP\_476) = 1 TMP\_477 = 1 not(TMP\_477) = 0 TMP\_478 = 1 not(TMP\_478) = 0 TMP\_479 = 1 not(TMP\_479) = 0 TMP\_480 = 1 not(TMP\_480) = 0 TMP\_481 = 5 TMP\_482 = 0 not(TMP\_482) = 1 TMP\_483 = 0 not(TMP\_483) = 1 TMP\_484 = 0 TMP\_485 = 1 not(TMP\_485) = 0 TMP\_486 = 1 not(TMP\_486) = 0 TMP\_487 = 2 TMP\_488 = 0 not(TMP\_488) = 1 TMP\_489 = 0 not(TMP\_489) = 1 TMP\_490 = 1 not(TMP\_490) = 0 TMP\_491 = 1 not(TMP\_491) = 0 TMP\_492 = 1 not(TMP\_492) = 0 TMP\_493 = 2 TMP\_494 = 1 not(TMP\_494) = 0 TMP\_495 = 0 not(TMP\_495) = 1 TMP\_496 = 1 not(TMP\_496) = 0 TMP\_497 = 1 not(TMP\_497) = 0 TMP\_498 = 0 not(TMP\_498) = 1 TMP\_499 = 1 not(TMP\_499) = 0 TMP\_500 = 4 TMP\_501 = 0 not(TMP\_501) = 1 TMP\_502 = 0 not(TMP\_502) = 1 TMP\_503 = 0 TMP\_504 = 1 not(TMP\_504) = 0 TMP\_505 = 1 not(TMP\_505) = 0 TMP\_506 = 2 TMP\_507 = 0 not(TMP\_507) = 1 TMP\_508 = 0 not(TMP\_508) = 1 TMP\_509 = 1 not(TMP\_509) = 0 TMP\_510 = 1 not(TMP\_510) = 0 TMP\_511 = 1 not(TMP\_511) = 0 TMP\_512 = 2 TMP\_513 = 1 not(TMP\_513) = 0 TMP\_514 = 0 not(TMP\_514) = 1 TMP\_515 = 1 not(TMP\_515) = 0 TMP\_516 = 1 not(TMP\_516) = 0 TMP\_517 = 0 not(TMP\_517) = 1 TMP\_518 = 1 not(TMP\_518) = 0 TMP\_519 = 4 TMP\_520 = 0 not(TMP\_520) = 1 TMP\_521 = 0 not(TMP\_521) = 1 TMP\_522 = 0 TMP\_523 = 1 not(TMP\_523) = 0 TMP\_524 = 1 not(TMP\_524) = 0 TMP\_525 = 2 TMP\_526 = 0 not(TMP\_526) = 1 TMP\_527 = 0 not(TMP\_527) = 1 TMP\_528 = 1 not(TMP\_528) = 0 TMP\_529 = 1 not(TMP\_529) = 0 TMP\_530 = 1 not(TMP\_530) = 0 TMP\_531 = 2 TMP\_532 = 1 not(TMP\_532) = 0 TMP\_533 = 0 not(TMP\_533) = 1 TMP\_534 = 1 not(TMP\_534) = 0 TMP\_535 = 1 not(TMP\_535) = 0 TMP\_536 = 0 not(TMP\_536) = 1 TMP\_537 = 1 not(TMP\_537) = 0 TMP\_538 = 4 TMP\_539 = 0 not(TMP\_539) = 1 TMP\_540 = 0 not(TMP\_540) = 1 TMP\_541 = 0 TMP\_542 = 1 not(TMP\_542) = 0 TMP\_543 = 1 not(TMP\_543) = 0 TMP\_544 = 2 TMP\_545 = 0 not(TMP\_545) = 1 TMP\_546 = 0 not(TMP\_546) = 1 TMP\_547 = 1 not(TMP\_547) = 0 TMP\_548 = 1 not(TMP\_548) = 0 TMP\_549 = 1 not(TMP\_549) = 0 TMP\_550 = 2 TMP\_551 = 1 not(TMP\_551) = 0 TMP\_552 = 1 not(TMP\_552) = 0 TMP\_553 = 1 not(TMP\_553) = 0 TMP\_554 = 1 not(TMP\_554) = 0 TMP\_555 = 0 not(TMP\_555) = 1 TMP\_556 = 1 not(TMP\_556) = 0 TMP\_557 = 5 TMP\_558 = 0 not(TMP\_558) = 1 TMP\_559 = 0 not(TMP\_559) = 1 TMP\_560 = 0 TMP\_561 = 1 not(TMP\_561) = 0 TMP\_562 = 1 not(TMP\_562) = 0 TMP\_563 = 2 TMP\_564 = 0 not(TMP\_564) = 1 TMP\_565 = 0 not(TMP\_565) = 1 TMP\_566 = 1 not(TMP\_566) = 0 TMP\_567 = 1 not(TMP\_567) = 0 TMP\_568 = 1 not(TMP\_568) = 0 TMP\_569 = 2 TMP\_570 = 1 not(TMP\_570) = 0 TMP\_571 = 0 not(TMP\_571) = 1 TMP\_572 = 1 not(TMP\_572) = 0 TMP\_573 = 1 not(TMP\_573) = 0 TMP\_574 = 0 not(TMP\_574) = 1 TMP\_575 = 1 not(TMP\_575) = 0 TMP\_576 = 4 TMP\_577 = 0 not(TMP\_577) = 1 TMP\_578 = 0 not(TMP\_578) = 1 TMP\_579 = 0 TMP\_580 = 1 not(TMP\_580) = 0 TMP\_581 = 1 not(TMP\_581) = 0 TMP\_582 = 2 TMP\_583 = 0 not(TMP\_583) = 1 TMP\_584 = 0 not(TMP\_584) = 1 TMP\_585 = 1 not(TMP\_585) = 0 TMP\_586 = 1 not(TMP\_586) = 0 TMP\_587 = 1 not(TMP\_587) = 0 TMP\_588 = 2 TMP\_589 = 1 not(TMP\_589) = 0 TMP\_590 = 0 not(TMP\_590) = 1 TMP\_591 = 1 not(TMP\_591) = 0 TMP\_592 = 1 not(TMP\_592) = 0 TMP\_593 = 1 not(TMP\_593) = 0 TMP\_594 = 1 not(TMP\_594) = 0 TMP\_595 = 5 TMP\_596 = 0 not(TMP\_596) = 1 TMP\_597 = 0 not(TMP\_597) = 1 TMP\_598 = 0 TMP\_599 = 1 not(TMP\_599) = 0 TMP\_600 = 1 not(TMP\_600) = 0 TMP\_601 = 2 TMP\_602 = 0 not(TMP\_602) = 1 TMP\_603 = 0 not(TMP\_603) = 1 TMP\_604 = 1 not(TMP\_604) = 0 TMP\_605 = 1 not(TMP\_605) = 0 TMP\_606 = 1 not(TMP\_606) = 0 TMP\_607 = 2 Area\_0 = 60 Distance\_0\_Rule\_0 = 20 Distance\_1\_Rule\_0 = 3 Distance\_2\_Rule\_0 = 1 Area\_1 = 174 Distance\_0\_Rule\_1 = 58 Distance\_1\_Rule\_1 = 3 Distance\_2\_Rule\_1 = 1 Area\_2 = 116 Distance\_0\_Rule\_2 = 58 Distance\_1\_Rule\_2 = 2 Distance\_2\_Rule\_2 = 1 Area\_3 = 58 Distance\_0\_Rule\_3 = 58 Distance\_1\_Rule\_3 = 1 Distance\_2\_Rule\_3 = 1 Area\_4 = 120 Distance\_0\_Rule\_4 = 40 Distance\_1\_Rule\_4 = 3 Distance\_2\_Rule\_4 = 1 Area\_5 = 63 -(Rule\_5\_LB) = 0 Distance\_0\_Rule\_5 = 21 -(Rule\_5\_LB) = 0 Distance\_1\_Rule\_5 = 3 -(Rule\_5\_LB) = 0 Distance\_2\_Rule\_5 = 1 Area\_6 = 3 -(Rule\_6\_LB) = -79 Distance\_0\_Rule\_6 = 1 -(Rule\_6\_LB) = 0 Distance\_1\_Rule\_6 = 3 -(Rule\_6\_LB) = 0 Distance\_2\_Rule\_6 = 1 Area\_7 = 123 -(Rule\_7\_LB) = -79 Distance\_0\_Rule\_7 = 41 -(Rule\_7\_LB) = 0 Distance\_1\_Rule\_7 = 3 -(Rule\_7\_LB) = -1 Distance\_2\_Rule\_7 = 1 Area\_8 = 3 -(Rule\_8\_LB) = -20 Distance\_0\_Rule\_8 = 1 -(Rule\_8\_LB) = 0 Distance\_1\_Rule\_8 = 3 -(Rule\_8\_LB) = -1 Distance\_2\_Rule\_8 = 1 TMP\_608 = 720 .

- Solution #11 found. 11 Solutions, Resolution 1.078s, 2306 Nodes (2,139.4 n/s), 4532 Backtracks, 2261 Fails, 0 Restarts

Rule\_5\_LB = 0 Rule\_5\_UB = 21 Rule\_5\_LB = 0 Rule\_5\_UB = 3 Rule\_5\_LB = 0 Rule\_5\_UB = 1 Rule\_6\_LB = 79 Rule\_6\_UB = 80 Rule\_6\_LB = 0 Rule\_6\_UB = 3 Rule\_6\_LB = 0 Rule\_6\_UB = 1 Rule\_7\_LB = 79 Rule\_7\_UB = 120 Rule\_7\_LB = 0 Rule\_7\_UB = 3 Rule\_7\_LB = 1 Rule\_7\_UB = 2 Rule\_8\_LB = 20 Rule\_8\_UB = 21 Rule\_8\_LB = 0 Rule\_8\_UB = 3 Rule\_8\_LB = 1 Rule\_8\_UB = 2 Overlaps\_0\_0 = 0 Overlaps\_0\_1 = 0 Overlaps\_0\_2 = 0 Overlaps\_0\_3 = 0 Overlaps\_0\_4 = 0 Overlaps\_0\_5 = 0 Overlaps\_0\_6 = 0 Overlaps\_0\_7 = 0 Overlaps\_0\_8 = 0 Overlaps\_1\_0 = 0 Overlaps\_1\_1 = 0 Overlaps\_1\_2 = 0 Overlaps\_1\_3 = 0 Overlaps\_1\_4 = 0 Overlaps\_1\_5 = 0 Overlaps\_1\_6 = 0 Overlaps\_1\_7 = 0 Overlaps\_1\_8 = 0 Overlaps\_2\_0 = 0 Overlaps\_2\_1 = 0 Overlaps\_2\_2 = 0 Overlaps\_2\_3 = 0 Overlaps\_2\_4 = 1 Overlaps\_2\_5 = 0 Overlaps\_2\_6 = 0 Overlaps\_2\_7 = 0 Overlaps\_2\_8 = 0 Overlaps\_3\_0 = 0 Overlaps\_3\_1 = 1 Overlaps\_3\_2 = 0 Overlaps\_3\_3 = 0 Overlaps\_3\_4 = 0 Overlaps\_3\_5 = 0 Overlaps\_3\_6 = 0 Overlaps\_3\_7 = 0 Overlaps\_3\_8 = 0 Overlaps\_4\_0 = 0 Overlaps\_4\_1 = 0 Overlaps\_4\_2 = 0 Overlaps\_4\_3 = 0 Overlaps\_4\_4 = 0 Overlaps\_4\_5 = 0 Overlaps\_4\_6 = 0 Overlaps\_4\_7 = 0 Overlaps\_4\_8 = 0 Overlaps\_5\_0 = 0 Overlaps\_5\_1 = 0 Overlaps\_5\_2 = 0 Overlaps\_5\_3 = 0 Overlaps\_5\_4 = 0 Overlaps\_5\_5 = 0 Overlaps\_5\_6 = 0 Overlaps\_5\_7 = 0 Overlaps\_5\_8 = 0 Overlaps\_6\_0 = 0 Overlaps\_6\_1 = 0 Overlaps\_6\_2 = 0 Overlaps\_6\_3 = 0 Overlaps\_6\_4 = 0 Overlaps\_6\_5 = 0 Overlaps\_6\_6 = 0 Overlaps\_6\_7 = 0 Overlaps\_6\_8 = 0 Overlaps\_7\_0 = 0 Overlaps\_7\_1 = 0 Overlaps\_7\_2 = 0 Overlaps\_7\_3 = 0 Overlaps\_7\_4 = 0 Overlaps\_7\_5 = 0 Overlaps\_7\_6 = 0 Overlaps\_7\_7 = 0 Overlaps\_7\_8 = 0 Overlaps\_8\_0 = 0 Overlaps\_8\_1 = 0 Overlaps\_8\_2 = 0 Overlaps\_8\_3 = 0 Overlaps\_8\_4 = 0 Overlaps\_8\_5 = 0 Overlaps\_8\_6 = 0 Overlaps\_8\_7 = 0 Overlaps\_8\_8 = 0 TMP\_0 = 1 not(TMP\_0) = 0 TMP\_1 = 1 not(TMP\_1) = 0 TMP\_2 = 1 not(TMP\_2) = 0 TMP\_3 = 1 not(TMP\_3) = 0 TMP\_4 = 1 not(TMP\_4) = 0 TMP\_5 = 0 not(TMP\_5) = 1 TMP\_6 = 5 TMP\_7 = 0 not(TMP\_7) = 1 TMP\_8 = 0 not(TMP\_8) = 1 TMP\_9 = 0 TMP\_10 = 1 not(TMP\_10) = 0 TMP\_11 = 1 not(TMP\_11) = 0 TMP\_12 = 2 TMP\_13 = 0 not(TMP\_13) = 1 TMP\_14 = 0 not(TMP\_14) = 1 TMP\_15 = 1 not(TMP\_15) = 0 TMP\_16 = 1 not(TMP\_16) = 0 TMP\_17 = 1 not(TMP\_17) = 0 TMP\_18 = 2 TMP\_19 = 1 not(TMP\_19) = 0 TMP\_20 = 0 not(TMP\_20) = 1 TMP\_21 = 1 not(TMP\_21) = 0 TMP\_22 = 1 not(TMP\_22) = 0 TMP\_23 = 1 not(TMP\_23) = 0 TMP\_24 = 0 not(TMP\_24) = 1 TMP\_25 = 4 TMP\_26 = 0 not(TMP\_26) = 1 TMP\_27 = 0 not(TMP\_27) = 1 TMP\_28 = 0 TMP\_29 = 1 not(TMP\_29) = 0 TMP\_30 = 1 not(TMP\_30) = 0 TMP\_31 = 2 TMP\_32 = 0 not(TMP\_32) = 1 TMP\_33 = 0 not(TMP\_33) = 1 TMP\_34 = 1 not(TMP\_34) = 0 TMP\_35 = 1 not(TMP\_35) = 0 TMP\_36 = 1 not(TMP\_36) = 0 TMP\_37 = 2 TMP\_38 = 1 not(TMP\_38) = 0 TMP\_39 = 0 not(TMP\_39) = 1 TMP\_40 = 1 not(TMP\_40) = 0 TMP\_41 = 1 not(TMP\_41) = 0 TMP\_42 = 1 not(TMP\_42) = 0 TMP\_43 = 1 not(TMP\_43) = 0 TMP\_44 = 5 TMP\_45 = 0 not(TMP\_45) = 1 TMP\_46 = 0 not(TMP\_46) = 1 TMP\_47 = 0 TMP\_48 = 1 not(TMP\_48) = 0 TMP\_49 = 1 not(TMP\_49) = 0 TMP\_50 = 2 TMP\_51 = 0 not(TMP\_51) = 1 TMP\_52 = 0 not(TMP\_52) = 1 TMP\_53 = 1 not(TMP\_53) = 0 TMP\_54 = 1 not(TMP\_54) = 0 TMP\_55 = 1 not(TMP\_55) = 0 TMP\_56 = 2 TMP\_57 = 1 not(TMP\_57) = 0 TMP\_58 = 0 not(TMP\_58) = 1 TMP\_59 = 1 not(TMP\_59) = 0 TMP\_60 = 1 not(TMP\_60) = 0 TMP\_61 = 1 not(TMP\_61) = 0 TMP\_62 = 1 not(TMP\_62) = 0 TMP\_63 = 5 TMP\_64 = 0 not(TMP\_64) = 1 TMP\_65 = 0 not(TMP\_65) = 1 TMP\_66 = 0 TMP\_67 = 1 not(TMP\_67) = 0 TMP\_68 = 1 not(TMP\_68) = 0 TMP\_69 = 2 TMP\_70 = 0 not(TMP\_70) = 1 TMP\_71 = 0 not(TMP\_71) = 1 TMP\_72 = 1 not(TMP\_72) = 0 TMP\_73 = 1 not(TMP\_73) = 0 TMP\_74 = 1 not(TMP\_74) = 0 TMP\_75 = 2 TMP\_76 = 1 not(TMP\_76) = 0 TMP\_77 = 0 not(TMP\_77) = 1 TMP\_78 = 1 not(TMP\_78) = 0 TMP\_79 = 1 not(TMP\_79) = 0 TMP\_80 = 1 not(TMP\_80) = 0 TMP\_81 = 1 not(TMP\_81) = 0 TMP\_82 = 5 TMP\_83 = 0 not(TMP\_83) = 1 TMP\_84 = 0 not(TMP\_84) = 1 TMP\_85 = 0 TMP\_86 = 1 not(TMP\_86) = 0 TMP\_87 = 1 not(TMP\_87) = 0 TMP\_88 = 2 TMP\_89 = 0 not(TMP\_89) = 1 TMP\_90 = 0 not(TMP\_90) = 1 TMP\_91 = 1 not(TMP\_91) = 0 TMP\_92 = 1 not(TMP\_92) = 0 TMP\_93 = 1 not(TMP\_93) = 0 TMP\_94 = 2 TMP\_95 = 1 not(TMP\_95) = 0 TMP\_96 = 0 not(TMP\_96) = 1 TMP\_97 = 1 not(TMP\_97) = 0 TMP\_98 = 1 not(TMP\_98) = 0 TMP\_99 = 1 not(TMP\_99) = 0 TMP\_100 = 1 not(TMP\_100) = 0 TMP\_101 = 5 TMP\_102 = 0 not(TMP\_102) = 1 TMP\_103 = 0 not(TMP\_103) = 1 TMP\_104 = 0 TMP\_105 = 1 not(TMP\_105) = 0 TMP\_106 = 1 not(TMP\_106) = 0 TMP\_107 = 2 TMP\_108 = 0 not(TMP\_108) = 1 TMP\_109 = 0 not(TMP\_109) = 1 TMP\_110 = 1 not(TMP\_110) = 0 TMP\_111 = 1 not(TMP\_111) = 0 TMP\_112 = 1 not(TMP\_112) = 0 TMP\_113 = 2 TMP\_114 = 1 not(TMP\_114) = 0 TMP\_115 = 0 not(TMP\_115) = 1 TMP\_116 = 1 not(TMP\_116) = 0 TMP\_117 = 1 not(TMP\_117) = 0 TMP\_118 = 1 not(TMP\_118) = 0 TMP\_119 = 0 not(TMP\_119) = 1 TMP\_120 = 4 TMP\_121 = 0 not(TMP\_121) = 1 TMP\_122 = 0 not(TMP\_122) = 1 TMP\_123 = 0 TMP\_124 = 1 not(TMP\_124) = 0 TMP\_125 = 1 not(TMP\_125) = 0 TMP\_126 = 2 TMP\_127 = 0 not(TMP\_127) = 1 TMP\_128 = 0 not(TMP\_128) = 1 TMP\_129 = 1 not(TMP\_129) = 0 TMP\_130 = 1 not(TMP\_130) = 0 TMP\_131 = 1 not(TMP\_131) = 0 TMP\_132 = 2 TMP\_133 = 1 not(TMP\_133) = 0 TMP\_134 = 1 not(TMP\_134) = 0 TMP\_135 = 1 not(TMP\_135) = 0 TMP\_136 = 1 not(TMP\_136) = 0 TMP\_137 = 1 not(TMP\_137) = 0 TMP\_138 = 0 not(TMP\_138) = 1 TMP\_139 = 5 TMP\_140 = 0 not(TMP\_140) = 1 TMP\_141 = 0 not(TMP\_141) = 1 TMP\_142 = 0 TMP\_143 = 1 not(TMP\_143) = 0 TMP\_144 = 1 not(TMP\_144) = 0 TMP\_145 = 2 TMP\_146 = 0 not(TMP\_146) = 1 TMP\_147 = 0 not(TMP\_147) = 1 TMP\_148 = 1 not(TMP\_148) = 0 TMP\_149 = 1 not(TMP\_149) = 0 TMP\_150 = 1 not(TMP\_150) = 0 TMP\_151 = 2 TMP\_152 = 0 not(TMP\_152) = 1 TMP\_153 = 1 not(TMP\_153) = 0 TMP\_154 = 1 not(TMP\_154) = 0 TMP\_155 = 1 not(TMP\_155) = 0 TMP\_156 = 1 not(TMP\_156) = 0 TMP\_157 = 0 not(TMP\_157) = 1 TMP\_158 = 4 TMP\_159 = 0 not(TMP\_159) = 1 TMP\_160 = 0 not(TMP\_160) = 1 TMP\_161 = 0 TMP\_162 = 1 not(TMP\_162) = 0 TMP\_163 = 1 not(TMP\_163) = 0 TMP\_164 = 2 TMP\_165 = 0 not(TMP\_165) = 1 TMP\_166 = 0 not(TMP\_166) = 1 TMP\_167 = 1 not(TMP\_167) = 0 TMP\_168 = 1 not(TMP\_168) = 0 TMP\_169 = 1 not(TMP\_169) = 0 TMP\_170 = 2 TMP\_171 = 0 not(TMP\_171) = 1 TMP\_172 = 1 not(TMP\_172) = 0 TMP\_173 = 1 not(TMP\_173) = 0 TMP\_174 = 1 not(TMP\_174) = 0 TMP\_175 = 1 not(TMP\_175) = 0 TMP\_176 = 0 not(TMP\_176) = 1 TMP\_177 = 4 TMP\_178 = 0 not(TMP\_178) = 1 TMP\_179 = 0 not(TMP\_179) = 1 TMP\_180 = 0 TMP\_181 = 1 not(TMP\_181) = 0 TMP\_182 = 1 not(TMP\_182) = 0 TMP\_183 = 2 TMP\_184 = 0 not(TMP\_184) = 1 TMP\_185 = 0 not(TMP\_185) = 1 TMP\_186 = 1 not(TMP\_186) = 0 TMP\_187 = 1 not(TMP\_187) = 0 TMP\_188 = 1 not(TMP\_188) = 0 TMP\_189 = 2 TMP\_190 = 0 not(TMP\_190) = 1 TMP\_191 = 1 not(TMP\_191) = 0 TMP\_192 = 1 not(TMP\_192) = 0 TMP\_193 = 1 not(TMP\_193) = 0 TMP\_194 = 1 not(TMP\_194) = 0 TMP\_195 = 1 not(TMP\_195) = 0 TMP\_196 = 5 TMP\_197 = 0 not(TMP\_197) = 1 TMP\_198 = 0 not(TMP\_198) = 1 TMP\_199 = 0 TMP\_200 = 1 not(TMP\_200) = 0 TMP\_201 = 1 not(TMP\_201) = 0 TMP\_202 = 2 TMP\_203 = 0 not(TMP\_203) = 1 TMP\_204 = 0 not(TMP\_204) = 1 TMP\_205 = 1 not(TMP\_205) = 0 TMP\_206 = 1 not(TMP\_206) = 0 TMP\_207 = 1 not(TMP\_207) = 0 TMP\_208 = 2 TMP\_209 = 0 not(TMP\_209) = 1 TMP\_210 = 1 not(TMP\_210) = 0 TMP\_211 = 1 not(TMP\_211) = 0 TMP\_212 = 1 not(TMP\_212) = 0 TMP\_213 = 1 not(TMP\_213) = 0 TMP\_214 = 1 not(TMP\_214) = 0 TMP\_215 = 5 TMP\_216 = 0 not(TMP\_216) = 1 TMP\_217 = 0 not(TMP\_217) = 1 TMP\_218 = 0 TMP\_219 = 1 not(TMP\_219) = 0 TMP\_220 = 1 not(TMP\_220) = 0 TMP\_221 = 2 TMP\_222 = 0 not(TMP\_222) = 1 TMP\_223 = 0 not(TMP\_223) = 1 TMP\_224 = 1 not(TMP\_224) = 0 TMP\_225 = 1 not(TMP\_225) = 0 TMP\_226 = 1 not(TMP\_226) = 0 TMP\_227 = 2 TMP\_228 = 1 not(TMP\_228) = 0 TMP\_229 = 0 not(TMP\_229) = 1 TMP\_230 = 1 not(TMP\_230) = 0 TMP\_231 = 1 not(TMP\_231) = 0 TMP\_232 = 1 not(TMP\_232) = 0 TMP\_233 = 1 not(TMP\_233) = 0 TMP\_234 = 5 TMP\_235 = 0 not(TMP\_235) = 1 TMP\_236 = 0 not(TMP\_236) = 1 TMP\_237 = 0 TMP\_238 = 1 not(TMP\_238) = 0 TMP\_239 = 1 not(TMP\_239) = 0 TMP\_240 = 2 TMP\_241 = 0 not(TMP\_241) = 1 TMP\_242 = 0 not(TMP\_242) = 1 TMP\_243 = 1 not(TMP\_243) = 0 TMP\_244 = 1 not(TMP\_244) = 0 TMP\_245 = 1 not(TMP\_245) = 0 TMP\_246 = 2 TMP\_247 = 0 not(TMP\_247) = 1 TMP\_248 = 1 not(TMP\_248) = 0 TMP\_249 = 1 not(TMP\_249) = 0 TMP\_250 = 1 not(TMP\_250) = 0 TMP\_251 = 1 not(TMP\_251) = 0 TMP\_252 = 1 not(TMP\_252) = 0 TMP\_253 = 5 TMP\_254 = 0 not(TMP\_254) = 1 TMP\_255 = 0 not(TMP\_255) = 1 TMP\_256 = 0 TMP\_257 = 1 not(TMP\_257) = 0 TMP\_258 = 1 not(TMP\_258) = 0 TMP\_259 = 2 TMP\_260 = 0 not(TMP\_260) = 1 TMP\_261 = 0 not(TMP\_261) = 1 TMP\_262 = 1 not(TMP\_262) = 0 TMP\_263 = 1 not(TMP\_263) = 0 TMP\_264 = 1 not(TMP\_264) = 0 TMP\_265 = 2 TMP\_266 = 1 not(TMP\_266) = 0 TMP\_267 = 1 not(TMP\_267) = 0 TMP\_268 = 1 not(TMP\_268) = 0 TMP\_269 = 1 not(TMP\_269) = 0 TMP\_270 = 1 not(TMP\_270) = 0 TMP\_271 = 0 not(TMP\_271) = 1 TMP\_272 = 5 TMP\_273 = 0 not(TMP\_273) = 1 TMP\_274 = 0 not(TMP\_274) = 1 TMP\_275 = 0 TMP\_276 = 1 not(TMP\_276) = 0 TMP\_277 = 1 not(TMP\_277) = 0 TMP\_278 = 2 TMP\_279 = 0 not(TMP\_279) = 1 TMP\_280 = 0 not(TMP\_280) = 1 TMP\_281 = 1 not(TMP\_281) = 0 TMP\_282 = 1 not(TMP\_282) = 0 TMP\_283 = 1 not(TMP\_283) = 0 TMP\_284 = 2 TMP\_285 = 0 not(TMP\_285) = 1 TMP\_286 = 1 not(TMP\_286) = 0 TMP\_287 = 1 not(TMP\_287) = 0 TMP\_288 = 1 not(TMP\_288) = 0 TMP\_289 = 1 not(TMP\_289) = 0 TMP\_290 = 0 not(TMP\_290) = 1 TMP\_291 = 4 TMP\_292 = 0 not(TMP\_292) = 1 TMP\_293 = 0 not(TMP\_293) = 1 TMP\_294 = 0 TMP\_295 = 1 not(TMP\_295) = 0 TMP\_296 = 1 not(TMP\_296) = 0 TMP\_297 = 2 TMP\_298 = 0 not(TMP\_298) = 1 TMP\_299 = 0 not(TMP\_299) = 1 TMP\_300 = 1 not(TMP\_300) = 0 TMP\_301 = 1 not(TMP\_301) = 0 TMP\_302 = 1 not(TMP\_302) = 0 TMP\_303 = 2 TMP\_304 = 0 not(TMP\_304) = 1 TMP\_305 = 1 not(TMP\_305) = 0 TMP\_306 = 1 not(TMP\_306) = 0 TMP\_307 = 1 not(TMP\_307) = 0 TMP\_308 = 1 not(TMP\_308) = 0 TMP\_309 = 1 not(TMP\_309) = 0 TMP\_310 = 5 TMP\_311 = 0 not(TMP\_311) = 1 TMP\_312 = 0 not(TMP\_312) = 1 TMP\_313 = 0 TMP\_314 = 1 not(TMP\_314) = 0 TMP\_315 = 1 not(TMP\_315) = 0 TMP\_316 = 2 TMP\_317 = 0 not(TMP\_317) = 1 TMP\_318 = 0 not(TMP\_318) = 1 TMP\_319 = 1 not(TMP\_319) = 0 TMP\_320 = 1 not(TMP\_320) = 0 TMP\_321 = 1 not(TMP\_321) = 0 TMP\_322 = 2 TMP\_323 = 0 not(TMP\_323) = 1 TMP\_324 = 1 not(TMP\_324) = 0 TMP\_325 = 1 not(TMP\_325) = 0 TMP\_326 = 1 not(TMP\_326) = 0 TMP\_327 = 1 not(TMP\_327) = 0 TMP\_328 = 1 not(TMP\_328) = 0 TMP\_329 = 5 TMP\_330 = 0 not(TMP\_330) = 1 TMP\_331 = 0 not(TMP\_331) = 1 TMP\_332 = 0 TMP\_333 = 1 not(TMP\_333) = 0 TMP\_334 = 1 not(TMP\_334) = 0 TMP\_335 = 2 TMP\_336 = 0 not(TMP\_336) = 1 TMP\_337 = 0 not(TMP\_337) = 1 TMP\_338 = 1 not(TMP\_338) = 0 TMP\_339 = 1 not(TMP\_339) = 0 TMP\_340 = 1 not(TMP\_340) = 0 TMP\_341 = 2 TMP\_342 = 0 not(TMP\_342) = 1 TMP\_343 = 1 not(TMP\_343) = 0 TMP\_344 = 1 not(TMP\_344) = 0 TMP\_345 = 1 not(TMP\_345) = 0 TMP\_346 = 0 not(TMP\_346) = 1 TMP\_347 = 1 not(TMP\_347) = 0 TMP\_348 = 4 TMP\_349 = 0 not(TMP\_349) = 1 TMP\_350 = 0 not(TMP\_350) = 1 TMP\_351 = 0 TMP\_352 = 1 not(TMP\_352) = 0 TMP\_353 = 1 not(TMP\_353) = 0 TMP\_354 = 2 TMP\_355 = 0 not(TMP\_355) = 1 TMP\_356 = 0 not(TMP\_356) = 1 TMP\_357 = 1 not(TMP\_357) = 0 TMP\_358 = 1 not(TMP\_358) = 0 TMP\_359 = 1 not(TMP\_359) = 0 TMP\_360 = 2 TMP\_361 = 0 not(TMP\_361) = 1 TMP\_362 = 1 not(TMP\_362) = 0 TMP\_363 = 1 not(TMP\_363) = 0 TMP\_364 = 1 not(TMP\_364) = 0 TMP\_365 = 0 not(TMP\_365) = 1 TMP\_366 = 1 not(TMP\_366) = 0 TMP\_367 = 4 TMP\_368 = 0 not(TMP\_368) = 1 TMP\_369 = 0 not(TMP\_369) = 1 TMP\_370 = 0 TMP\_371 = 1 not(TMP\_371) = 0 TMP\_372 = 1 not(TMP\_372) = 0 TMP\_373 = 2 TMP\_374 = 0 not(TMP\_374) = 1 TMP\_375 = 0 not(TMP\_375) = 1 TMP\_376 = 1 not(TMP\_376) = 0 TMP\_377 = 1 not(TMP\_377) = 0 TMP\_378 = 1 not(TMP\_378) = 0 TMP\_379 = 2 TMP\_380 = 1 not(TMP\_380) = 0 TMP\_381 = 1 not(TMP\_381) = 0 TMP\_382 = 1 not(TMP\_382) = 0 TMP\_383 = 1 not(TMP\_383) = 0 TMP\_384 = 0 not(TMP\_384) = 1 TMP\_385 = 1 not(TMP\_385) = 0 TMP\_386 = 5 TMP\_387 = 0 not(TMP\_387) = 1 TMP\_388 = 0 not(TMP\_388) = 1 TMP\_389 = 0 TMP\_390 = 1 not(TMP\_390) = 0 TMP\_391 = 1 not(TMP\_391) = 0 TMP\_392 = 2 TMP\_393 = 0 not(TMP\_393) = 1 TMP\_394 = 0 not(TMP\_394) = 1 TMP\_395 = 1 not(TMP\_395) = 0 TMP\_396 = 1 not(TMP\_396) = 0 TMP\_397 = 1 not(TMP\_397) = 0 TMP\_398 = 2 TMP\_399 = 0 not(TMP\_399) = 1 TMP\_400 = 1 not(TMP\_400) = 0 TMP\_401 = 1 not(TMP\_401) = 0 TMP\_402 = 1 not(TMP\_402) = 0 TMP\_403 = 0 not(TMP\_403) = 1 TMP\_404 = 1 not(TMP\_404) = 0 TMP\_405 = 4 TMP\_406 = 0 not(TMP\_406) = 1 TMP\_407 = 0 not(TMP\_407) = 1 TMP\_408 = 0 TMP\_409 = 1 not(TMP\_409) = 0 TMP\_410 = 1 not(TMP\_410) = 0 TMP\_411 = 2 TMP\_412 = 0 not(TMP\_412) = 1 TMP\_413 = 0 not(TMP\_413) = 1 TMP\_414 = 1 not(TMP\_414) = 0 TMP\_415 = 1 not(TMP\_415) = 0 TMP\_416 = 1 not(TMP\_416) = 0 TMP\_417 = 2 TMP\_418 = 1 not(TMP\_418) = 0 TMP\_419 = 1 not(TMP\_419) = 0 TMP\_420 = 1 not(TMP\_420) = 0 TMP\_421 = 1 not(TMP\_421) = 0 TMP\_422 = 0 not(TMP\_422) = 1 TMP\_423 = 1 not(TMP\_423) = 0 TMP\_424 = 5 TMP\_425 = 0 not(TMP\_425) = 1 TMP\_426 = 0 not(TMP\_426) = 1 TMP\_427 = 0 TMP\_428 = 1 not(TMP\_428) = 0 TMP\_429 = 1 not(TMP\_429) = 0 TMP\_430 = 2 TMP\_431 = 0 not(TMP\_431) = 1 TMP\_432 = 0 not(TMP\_432) = 1 TMP\_433 = 1 not(TMP\_433) = 0 TMP\_434 = 1 not(TMP\_434) = 0 TMP\_435 = 1 not(TMP\_435) = 0 TMP\_436 = 2 TMP\_437 = 0 not(TMP\_437) = 1 TMP\_438 = 1 not(TMP\_438) = 0 TMP\_439 = 1 not(TMP\_439) = 0 TMP\_440 = 1 not(TMP\_440) = 0 TMP\_441 = 1 not(TMP\_441) = 0 TMP\_442 = 1 not(TMP\_442) = 0 TMP\_443 = 5 TMP\_444 = 0 not(TMP\_444) = 1 TMP\_445 = 0 not(TMP\_445) = 1 TMP\_446 = 0 TMP\_447 = 1 not(TMP\_447) = 0 TMP\_448 = 1 not(TMP\_448) = 0 TMP\_449 = 2 TMP\_450 = 0 not(TMP\_450) = 1 TMP\_451 = 0 not(TMP\_451) = 1 TMP\_452 = 1 not(TMP\_452) = 0 TMP\_453 = 1 not(TMP\_453) = 0 TMP\_454 = 1 not(TMP\_454) = 0 TMP\_455 = 2 TMP\_456 = 0 not(TMP\_456) = 1 TMP\_457 = 1 not(TMP\_457) = 0 TMP\_458 = 1 not(TMP\_458) = 0 TMP\_459 = 1 not(TMP\_459) = 0 TMP\_460 = 1 not(TMP\_460) = 0 TMP\_461 = 1 not(TMP\_461) = 0 TMP\_462 = 5 TMP\_463 = 0 not(TMP\_463) = 1 TMP\_464 = 0 not(TMP\_464) = 1 TMP\_465 = 0 TMP\_466 = 1 not(TMP\_466) = 0 TMP\_467 = 1 not(TMP\_467) = 0 TMP\_468 = 2 TMP\_469 = 0 not(TMP\_469) = 1 TMP\_470 = 0 not(TMP\_470) = 1 TMP\_471 = 1 not(TMP\_471) = 0 TMP\_472 = 1 not(TMP\_472) = 0 TMP\_473 = 1 not(TMP\_473) = 0 TMP\_474 = 2 TMP\_475 = 1 not(TMP\_475) = 0 TMP\_476 = 0 not(TMP\_476) = 1 TMP\_477 = 1 not(TMP\_477) = 0 TMP\_478 = 1 not(TMP\_478) = 0 TMP\_479 = 1 not(TMP\_479) = 0 TMP\_480 = 1 not(TMP\_480) = 0 TMP\_481 = 5 TMP\_482 = 0 not(TMP\_482) = 1 TMP\_483 = 0 not(TMP\_483) = 1 TMP\_484 = 0 TMP\_485 = 1 not(TMP\_485) = 0 TMP\_486 = 1 not(TMP\_486) = 0 TMP\_487 = 2 TMP\_488 = 0 not(TMP\_488) = 1 TMP\_489 = 0 not(TMP\_489) = 1 TMP\_490 = 1 not(TMP\_490) = 0 TMP\_491 = 1 not(TMP\_491) = 0 TMP\_492 = 1 not(TMP\_492) = 0 TMP\_493 = 2 TMP\_494 = 1 not(TMP\_494) = 0 TMP\_495 = 0 not(TMP\_495) = 1 TMP\_496 = 1 not(TMP\_496) = 0 TMP\_497 = 1 not(TMP\_497) = 0 TMP\_498 = 0 not(TMP\_498) = 1 TMP\_499 = 1 not(TMP\_499) = 0 TMP\_500 = 4 TMP\_501 = 0 not(TMP\_501) = 1 TMP\_502 = 0 not(TMP\_502) = 1 TMP\_503 = 0 TMP\_504 = 1 not(TMP\_504) = 0 TMP\_505 = 1 not(TMP\_505) = 0 TMP\_506 = 2 TMP\_507 = 0 not(TMP\_507) = 1 TMP\_508 = 0 not(TMP\_508) = 1 TMP\_509 = 1 not(TMP\_509) = 0 TMP\_510 = 1 not(TMP\_510) = 0 TMP\_511 = 1 not(TMP\_511) = 0 TMP\_512 = 2 TMP\_513 = 1 not(TMP\_513) = 0 TMP\_514 = 0 not(TMP\_514) = 1 TMP\_515 = 1 not(TMP\_515) = 0 TMP\_516 = 1 not(TMP\_516) = 0 TMP\_517 = 0 not(TMP\_517) = 1 TMP\_518 = 1 not(TMP\_518) = 0 TMP\_519 = 4 TMP\_520 = 0 not(TMP\_520) = 1 TMP\_521 = 0 not(TMP\_521) = 1 TMP\_522 = 0 TMP\_523 = 1 not(TMP\_523) = 0 TMP\_524 = 1 not(TMP\_524) = 0 TMP\_525 = 2 TMP\_526 = 0 not(TMP\_526) = 1 TMP\_527 = 0 not(TMP\_527) = 1 TMP\_528 = 1 not(TMP\_528) = 0 TMP\_529 = 1 not(TMP\_529) = 0 TMP\_530 = 1 not(TMP\_530) = 0 TMP\_531 = 2 TMP\_532 = 1 not(TMP\_532) = 0 TMP\_533 = 0 not(TMP\_533) = 1 TMP\_534 = 1 not(TMP\_534) = 0 TMP\_535 = 1 not(TMP\_535) = 0 TMP\_536 = 0 not(TMP\_536) = 1 TMP\_537 = 1 not(TMP\_537) = 0 TMP\_538 = 4 TMP\_539 = 0 not(TMP\_539) = 1 TMP\_540 = 0 not(TMP\_540) = 1 TMP\_541 = 0 TMP\_542 = 1 not(TMP\_542) = 0 TMP\_543 = 1 not(TMP\_543) = 0 TMP\_544 = 2 TMP\_545 = 0 not(TMP\_545) = 1 TMP\_546 = 0 not(TMP\_546) = 1 TMP\_547 = 1 not(TMP\_547) = 0 TMP\_548 = 1 not(TMP\_548) = 0 TMP\_549 = 1 not(TMP\_549) = 0 TMP\_550 = 2 TMP\_551 = 1 not(TMP\_551) = 0 TMP\_552 = 1 not(TMP\_552) = 0 TMP\_553 = 1 not(TMP\_553) = 0 TMP\_554 = 1 not(TMP\_554) = 0 TMP\_555 = 0 not(TMP\_555) = 1 TMP\_556 = 1 not(TMP\_556) = 0 TMP\_557 = 5 TMP\_558 = 0 not(TMP\_558) = 1 TMP\_559 = 0 not(TMP\_559) = 1 TMP\_560 = 0 TMP\_561 = 1 not(TMP\_561) = 0 TMP\_562 = 1 not(TMP\_562) = 0 TMP\_563 = 2 TMP\_564 = 0 not(TMP\_564) = 1 TMP\_565 = 0 not(TMP\_565) = 1 TMP\_566 = 1 not(TMP\_566) = 0 TMP\_567 = 1 not(TMP\_567) = 0 TMP\_568 = 1 not(TMP\_568) = 0 TMP\_569 = 2 TMP\_570 = 1 not(TMP\_570) = 0 TMP\_571 = 0 not(TMP\_571) = 1 TMP\_572 = 1 not(TMP\_572) = 0 TMP\_573 = 1 not(TMP\_573) = 0 TMP\_574 = 0 not(TMP\_574) = 1 TMP\_575 = 1 not(TMP\_575) = 0 TMP\_576 = 4 TMP\_577 = 0 not(TMP\_577) = 1 TMP\_578 = 0 not(TMP\_578) = 1 TMP\_579 = 0 TMP\_580 = 1 not(TMP\_580) = 0 TMP\_581 = 1 not(TMP\_581) = 0 TMP\_582 = 2 TMP\_583 = 0 not(TMP\_583) = 1 TMP\_584 = 0 not(TMP\_584) = 1 TMP\_585 = 1 not(TMP\_585) = 0 TMP\_586 = 1 not(TMP\_586) = 0 TMP\_587 = 1 not(TMP\_587) = 0 TMP\_588 = 2 TMP\_589 = 1 not(TMP\_589) = 0 TMP\_590 = 0 not(TMP\_590) = 1 TMP\_591 = 1 not(TMP\_591) = 0 TMP\_592 = 1 not(TMP\_592) = 0 TMP\_593 = 1 not(TMP\_593) = 0 TMP\_594 = 1 not(TMP\_594) = 0 TMP\_595 = 5 TMP\_596 = 0 not(TMP\_596) = 1 TMP\_597 = 0 not(TMP\_597) = 1 TMP\_598 = 0 TMP\_599 = 1 not(TMP\_599) = 0 TMP\_600 = 1 not(TMP\_600) = 0 TMP\_601 = 2 TMP\_602 = 0 not(TMP\_602) = 1 TMP\_603 = 0 not(TMP\_603) = 1 TMP\_604 = 1 not(TMP\_604) = 0 TMP\_605 = 1 not(TMP\_605) = 0 TMP\_606 = 1 not(TMP\_606) = 0 TMP\_607 = 2 Area\_0 = 60 Distance\_0\_Rule\_0 = 20 Distance\_1\_Rule\_0 = 3 Distance\_2\_Rule\_0 = 1 Area\_1 = 174 Distance\_0\_Rule\_1 = 58 Distance\_1\_Rule\_1 = 3 Distance\_2\_Rule\_1 = 1 Area\_2 = 116 Distance\_0\_Rule\_2 = 58 Distance\_1\_Rule\_2 = 2 Distance\_2\_Rule\_2 = 1 Area\_3 = 58 Distance\_0\_Rule\_3 = 58 Distance\_1\_Rule\_3 = 1 Distance\_2\_Rule\_3 = 1 Area\_4 = 120 Distance\_0\_Rule\_4 = 40 Distance\_1\_Rule\_4 = 3 Distance\_2\_Rule\_4 = 1 Area\_5 = 63 -(Rule\_5\_LB) = 0 Distance\_0\_Rule\_5 = 21 -(Rule\_5\_LB) = 0 Distance\_1\_Rule\_5 = 3 -(Rule\_5\_LB) = 0 Distance\_2\_Rule\_5 = 1 Area\_6 = 3 -(Rule\_6\_LB) = -79 Distance\_0\_Rule\_6 = 1 -(Rule\_6\_LB) = 0 Distance\_1\_Rule\_6 = 3 -(Rule\_6\_LB) = 0 Distance\_2\_Rule\_6 = 1 Area\_7 = 123 -(Rule\_7\_LB) = -79 Distance\_0\_Rule\_7 = 41 -(Rule\_7\_LB) = 0 Distance\_1\_Rule\_7 = 3 -(Rule\_7\_LB) = -1 Distance\_2\_Rule\_7 = 1 Area\_8 = 3 -(Rule\_8\_LB) = -20 Distance\_0\_Rule\_8 = 1 -(Rule\_8\_LB) = 0 Distance\_1\_Rule\_8 = 3 -(Rule\_8\_LB) = -1 Distance\_2\_Rule\_8 = 1 TMP\_608 = 720 .

- Solution #12 found. 12 Solutions, Resolution 1.081s, 2307 Nodes (2,133.3 n/s), 4533 Backtracks, 2261 Fails, 0 Restarts

Rule\_5\_LB = 0 Rule\_5\_UB = 21 Rule\_5\_LB = 0 Rule\_5\_UB = 3 Rule\_5\_LB = 0 Rule\_5\_UB = 1 Rule\_6\_LB = 79 Rule\_6\_UB = 80 Rule\_6\_LB = 0 Rule\_6\_UB = 3 Rule\_6\_LB = 0 Rule\_6\_UB = 1 Rule\_7\_LB = 79 Rule\_7\_UB = 120 Rule\_7\_LB = 0 Rule\_7\_UB = 3 Rule\_7\_LB = 1 Rule\_7\_UB = 2 Rule\_8\_LB = 20 Rule\_8\_UB = 21 Rule\_8\_LB = 0 Rule\_8\_UB = 3 Rule\_8\_LB = 1 Rule\_8\_UB = 2 Overlaps\_0\_0 = 0 Overlaps\_0\_1 = 0 Overlaps\_0\_2 = 0 Overlaps\_0\_3 = 0 Overlaps\_0\_4 = 0 Overlaps\_0\_5 = 0 Overlaps\_0\_6 = 0 Overlaps\_0\_7 = 0 Overlaps\_0\_8 = 0 Overlaps\_1\_0 = 0 Overlaps\_1\_1 = 0 Overlaps\_1\_2 = 0 Overlaps\_1\_3 = 0 Overlaps\_1\_4 = 0 Overlaps\_1\_5 = 0 Overlaps\_1\_6 = 0 Overlaps\_1\_7 = 0 Overlaps\_1\_8 = 0 Overlaps\_2\_0 = 0 Overlaps\_2\_1 = 0 Overlaps\_2\_2 = 0 Overlaps\_2\_3 = 0 Overlaps\_2\_4 = 1 Overlaps\_2\_5 = 0 Overlaps\_2\_6 = 0 Overlaps\_2\_7 = 0 Overlaps\_2\_8 = 0 Overlaps\_3\_0 = 0 Overlaps\_3\_1 = 1 Overlaps\_3\_2 = 0 Overlaps\_3\_3 = 0 Overlaps\_3\_4 = 0 Overlaps\_3\_5 = 0 Overlaps\_3\_6 = 0 Overlaps\_3\_7 = 0 Overlaps\_3\_8 = 0 Overlaps\_4\_0 = 1 Overlaps\_4\_1 = 0 Overlaps\_4\_2 = 0 Overlaps\_4\_3 = 0 Overlaps\_4\_4 = 0 Overlaps\_4\_5 = 0 Overlaps\_4\_6 = 0 Overlaps\_4\_7 = 0 Overlaps\_4\_8 = 0 Overlaps\_5\_0 = 0 Overlaps\_5\_1 = 0 Overlaps\_5\_2 = 0 Overlaps\_5\_3 = 0 Overlaps\_5\_4 = 0 Overlaps\_5\_5 = 0 Overlaps\_5\_6 = 0 Overlaps\_5\_7 = 0 Overlaps\_5\_8 = 0 Overlaps\_6\_0 = 0 Overlaps\_6\_1 = 0 Overlaps\_6\_2 = 0 Overlaps\_6\_3 = 0 Overlaps\_6\_4 = 0 Overlaps\_6\_5 = 0 Overlaps\_6\_6 = 0 Overlaps\_6\_7 = 0 Overlaps\_6\_8 = 0 Overlaps\_7\_0 = 0 Overlaps\_7\_1 = 0 Overlaps\_7\_2 = 0 Overlaps\_7\_3 = 0 Overlaps\_7\_4 = 0 Overlaps\_7\_5 = 0 Overlaps\_7\_6 = 0 Overlaps\_7\_7 = 0 Overlaps\_7\_8 = 0 Overlaps\_8\_0 = 0 Overlaps\_8\_1 = 0 Overlaps\_8\_2 = 0 Overlaps\_8\_3 = 0 Overlaps\_8\_4 = 0 Overlaps\_8\_5 = 0 Overlaps\_8\_6 = 0 Overlaps\_8\_7 = 0 Overlaps\_8\_8 = 0 TMP\_0 = 1 not(TMP\_0) = 0 TMP\_1 = 1 not(TMP\_1) = 0 TMP\_2 = 1 not(TMP\_2) = 0 TMP\_3 = 1 not(TMP\_3) = 0 TMP\_4 = 1 not(TMP\_4) = 0 TMP\_5 = 0 not(TMP\_5) = 1 TMP\_6 = 5 TMP\_7 = 0 not(TMP\_7) = 1 TMP\_8 = 0 not(TMP\_8) = 1 TMP\_9 = 0 TMP\_10 = 1 not(TMP\_10) = 0 TMP\_11 = 1 not(TMP\_11) = 0 TMP\_12 = 2 TMP\_13 = 0 not(TMP\_13) = 1 TMP\_14 = 0 not(TMP\_14) = 1 TMP\_15 = 1 not(TMP\_15) = 0 TMP\_16 = 1 not(TMP\_16) = 0 TMP\_17 = 1 not(TMP\_17) = 0 TMP\_18 = 2 TMP\_19 = 1 not(TMP\_19) = 0 TMP\_20 = 0 not(TMP\_20) = 1 TMP\_21 = 1 not(TMP\_21) = 0 TMP\_22 = 1 not(TMP\_22) = 0 TMP\_23 = 1 not(TMP\_23) = 0 TMP\_24 = 0 not(TMP\_24) = 1 TMP\_25 = 4 TMP\_26 = 0 not(TMP\_26) = 1 TMP\_27 = 0 not(TMP\_27) = 1 TMP\_28 = 0 TMP\_29 = 1 not(TMP\_29) = 0 TMP\_30 = 1 not(TMP\_30) = 0 TMP\_31 = 2 TMP\_32 = 0 not(TMP\_32) = 1 TMP\_33 = 0 not(TMP\_33) = 1 TMP\_34 = 1 not(TMP\_34) = 0 TMP\_35 = 1 not(TMP\_35) = 0 TMP\_36 = 1 not(TMP\_36) = 0 TMP\_37 = 2 TMP\_38 = 1 not(TMP\_38) = 0 TMP\_39 = 0 not(TMP\_39) = 1 TMP\_40 = 1 not(TMP\_40) = 0 TMP\_41 = 1 not(TMP\_41) = 0 TMP\_42 = 1 not(TMP\_42) = 0 TMP\_43 = 1 not(TMP\_43) = 0 TMP\_44 = 5 TMP\_45 = 0 not(TMP\_45) = 1 TMP\_46 = 0 not(TMP\_46) = 1 TMP\_47 = 0 TMP\_48 = 1 not(TMP\_48) = 0 TMP\_49 = 1 not(TMP\_49) = 0 TMP\_50 = 2 TMP\_51 = 0 not(TMP\_51) = 1 TMP\_52 = 0 not(TMP\_52) = 1 TMP\_53 = 1 not(TMP\_53) = 0 TMP\_54 = 1 not(TMP\_54) = 0 TMP\_55 = 1 not(TMP\_55) = 0 TMP\_56 = 2 TMP\_57 = 1 not(TMP\_57) = 0 TMP\_58 = 0 not(TMP\_58) = 1 TMP\_59 = 1 not(TMP\_59) = 0 TMP\_60 = 1 not(TMP\_60) = 0 TMP\_61 = 1 not(TMP\_61) = 0 TMP\_62 = 1 not(TMP\_62) = 0 TMP\_63 = 5 TMP\_64 = 0 not(TMP\_64) = 1 TMP\_65 = 0 not(TMP\_65) = 1 TMP\_66 = 0 TMP\_67 = 1 not(TMP\_67) = 0 TMP\_68 = 1 not(TMP\_68) = 0 TMP\_69 = 2 TMP\_70 = 0 not(TMP\_70) = 1 TMP\_71 = 0 not(TMP\_71) = 1 TMP\_72 = 1 not(TMP\_72) = 0 TMP\_73 = 1 not(TMP\_73) = 0 TMP\_74 = 1 not(TMP\_74) = 0 TMP\_75 = 2 TMP\_76 = 1 not(TMP\_76) = 0 TMP\_77 = 0 not(TMP\_77) = 1 TMP\_78 = 1 not(TMP\_78) = 0 TMP\_79 = 1 not(TMP\_79) = 0 TMP\_80 = 1 not(TMP\_80) = 0 TMP\_81 = 1 not(TMP\_81) = 0 TMP\_82 = 5 TMP\_83 = 0 not(TMP\_83) = 1 TMP\_84 = 0 not(TMP\_84) = 1 TMP\_85 = 0 TMP\_86 = 1 not(TMP\_86) = 0 TMP\_87 = 1 not(TMP\_87) = 0 TMP\_88 = 2 TMP\_89 = 0 not(TMP\_89) = 1 TMP\_90 = 0 not(TMP\_90) = 1 TMP\_91 = 1 not(TMP\_91) = 0 TMP\_92 = 1 not(TMP\_92) = 0 TMP\_93 = 1 not(TMP\_93) = 0 TMP\_94 = 2 TMP\_95 = 1 not(TMP\_95) = 0 TMP\_96 = 0 not(TMP\_96) = 1 TMP\_97 = 1 not(TMP\_97) = 0 TMP\_98 = 1 not(TMP\_98) = 0 TMP\_99 = 1 not(TMP\_99) = 0 TMP\_100 = 1 not(TMP\_100) = 0 TMP\_101 = 5 TMP\_102 = 0 not(TMP\_102) = 1 TMP\_103 = 0 not(TMP\_103) = 1 TMP\_104 = 0 TMP\_105 = 1 not(TMP\_105) = 0 TMP\_106 = 1 not(TMP\_106) = 0 TMP\_107 = 2 TMP\_108 = 0 not(TMP\_108) = 1 TMP\_109 = 0 not(TMP\_109) = 1 TMP\_110 = 1 not(TMP\_110) = 0 TMP\_111 = 1 not(TMP\_111) = 0 TMP\_112 = 1 not(TMP\_112) = 0 TMP\_113 = 2 TMP\_114 = 1 not(TMP\_114) = 0 TMP\_115 = 0 not(TMP\_115) = 1 TMP\_116 = 1 not(TMP\_116) = 0 TMP\_117 = 1 not(TMP\_117) = 0 TMP\_118 = 1 not(TMP\_118) = 0 TMP\_119 = 0 not(TMP\_119) = 1 TMP\_120 = 4 TMP\_121 = 0 not(TMP\_121) = 1 TMP\_122 = 0 not(TMP\_122) = 1 TMP\_123 = 0 TMP\_124 = 1 not(TMP\_124) = 0 TMP\_125 = 1 not(TMP\_125) = 0 TMP\_126 = 2 TMP\_127 = 0 not(TMP\_127) = 1 TMP\_128 = 0 not(TMP\_128) = 1 TMP\_129 = 1 not(TMP\_129) = 0 TMP\_130 = 1 not(TMP\_130) = 0 TMP\_131 = 1 not(TMP\_131) = 0 TMP\_132 = 2 TMP\_133 = 1 not(TMP\_133) = 0 TMP\_134 = 1 not(TMP\_134) = 0 TMP\_135 = 1 not(TMP\_135) = 0 TMP\_136 = 1 not(TMP\_136) = 0 TMP\_137 = 1 not(TMP\_137) = 0 TMP\_138 = 0 not(TMP\_138) = 1 TMP\_139 = 5 TMP\_140 = 0 not(TMP\_140) = 1 TMP\_141 = 0 not(TMP\_141) = 1 TMP\_142 = 0 TMP\_143 = 1 not(TMP\_143) = 0 TMP\_144 = 1 not(TMP\_144) = 0 TMP\_145 = 2 TMP\_146 = 0 not(TMP\_146) = 1 TMP\_147 = 0 not(TMP\_147) = 1 TMP\_148 = 1 not(TMP\_148) = 0 TMP\_149 = 1 not(TMP\_149) = 0 TMP\_150 = 1 not(TMP\_150) = 0 TMP\_151 = 2 TMP\_152 = 0 not(TMP\_152) = 1 TMP\_153 = 1 not(TMP\_153) = 0 TMP\_154 = 1 not(TMP\_154) = 0 TMP\_155 = 1 not(TMP\_155) = 0 TMP\_156 = 1 not(TMP\_156) = 0 TMP\_157 = 0 not(TMP\_157) = 1 TMP\_158 = 4 TMP\_159 = 0 not(TMP\_159) = 1 TMP\_160 = 0 not(TMP\_160) = 1 TMP\_161 = 0 TMP\_162 = 1 not(TMP\_162) = 0 TMP\_163 = 1 not(TMP\_163) = 0 TMP\_164 = 2 TMP\_165 = 0 not(TMP\_165) = 1 TMP\_166 = 0 not(TMP\_166) = 1 TMP\_167 = 1 not(TMP\_167) = 0 TMP\_168 = 1 not(TMP\_168) = 0 TMP\_169 = 1 not(TMP\_169) = 0 TMP\_170 = 2 TMP\_171 = 0 not(TMP\_171) = 1 TMP\_172 = 1 not(TMP\_172) = 0 TMP\_173 = 1 not(TMP\_173) = 0 TMP\_174 = 1 not(TMP\_174) = 0 TMP\_175 = 1 not(TMP\_175) = 0 TMP\_176 = 0 not(TMP\_176) = 1 TMP\_177 = 4 TMP\_178 = 0 not(TMP\_178) = 1 TMP\_179 = 0 not(TMP\_179) = 1 TMP\_180 = 0 TMP\_181 = 1 not(TMP\_181) = 0 TMP\_182 = 1 not(TMP\_182) = 0 TMP\_183 = 2 TMP\_184 = 0 not(TMP\_184) = 1 TMP\_185 = 0 not(TMP\_185) = 1 TMP\_186 = 1 not(TMP\_186) = 0 TMP\_187 = 1 not(TMP\_187) = 0 TMP\_188 = 1 not(TMP\_188) = 0 TMP\_189 = 2 TMP\_190 = 0 not(TMP\_190) = 1 TMP\_191 = 1 not(TMP\_191) = 0 TMP\_192 = 1 not(TMP\_192) = 0 TMP\_193 = 1 not(TMP\_193) = 0 TMP\_194 = 1 not(TMP\_194) = 0 TMP\_195 = 1 not(TMP\_195) = 0 TMP\_196 = 5 TMP\_197 = 0 not(TMP\_197) = 1 TMP\_198 = 0 not(TMP\_198) = 1 TMP\_199 = 0 TMP\_200 = 1 not(TMP\_200) = 0 TMP\_201 = 1 not(TMP\_201) = 0 TMP\_202 = 2 TMP\_203 = 0 not(TMP\_203) = 1 TMP\_204 = 0 not(TMP\_204) = 1 TMP\_205 = 1 not(TMP\_205) = 0 TMP\_206 = 1 not(TMP\_206) = 0 TMP\_207 = 1 not(TMP\_207) = 0 TMP\_208 = 2 TMP\_209 = 0 not(TMP\_209) = 1 TMP\_210 = 1 not(TMP\_210) = 0 TMP\_211 = 1 not(TMP\_211) = 0 TMP\_212 = 1 not(TMP\_212) = 0 TMP\_213 = 1 not(TMP\_213) = 0 TMP\_214 = 1 not(TMP\_214) = 0 TMP\_215 = 5 TMP\_216 = 0 not(TMP\_216) = 1 TMP\_217 = 0 not(TMP\_217) = 1 TMP\_218 = 0 TMP\_219 = 1 not(TMP\_219) = 0 TMP\_220 = 1 not(TMP\_220) = 0 TMP\_221 = 2 TMP\_222 = 0 not(TMP\_222) = 1 TMP\_223 = 0 not(TMP\_223) = 1 TMP\_224 = 1 not(TMP\_224) = 0 TMP\_225 = 1 not(TMP\_225) = 0 TMP\_226 = 1 not(TMP\_226) = 0 TMP\_227 = 2 TMP\_228 = 1 not(TMP\_228) = 0 TMP\_229 = 0 not(TMP\_229) = 1 TMP\_230 = 1 not(TMP\_230) = 0 TMP\_231 = 1 not(TMP\_231) = 0 TMP\_232 = 1 not(TMP\_232) = 0 TMP\_233 = 1 not(TMP\_233) = 0 TMP\_234 = 5 TMP\_235 = 0 not(TMP\_235) = 1 TMP\_236 = 0 not(TMP\_236) = 1 TMP\_237 = 0 TMP\_238 = 1 not(TMP\_238) = 0 TMP\_239 = 1 not(TMP\_239) = 0 TMP\_240 = 2 TMP\_241 = 0 not(TMP\_241) = 1 TMP\_242 = 0 not(TMP\_242) = 1 TMP\_243 = 1 not(TMP\_243) = 0 TMP\_244 = 1 not(TMP\_244) = 0 TMP\_245 = 1 not(TMP\_245) = 0 TMP\_246 = 2 TMP\_247 = 0 not(TMP\_247) = 1 TMP\_248 = 1 not(TMP\_248) = 0 TMP\_249 = 1 not(TMP\_249) = 0 TMP\_250 = 1 not(TMP\_250) = 0 TMP\_251 = 1 not(TMP\_251) = 0 TMP\_252 = 1 not(TMP\_252) = 0 TMP\_253 = 5 TMP\_254 = 0 not(TMP\_254) = 1 TMP\_255 = 0 not(TMP\_255) = 1 TMP\_256 = 0 TMP\_257 = 1 not(TMP\_257) = 0 TMP\_258 = 1 not(TMP\_258) = 0 TMP\_259 = 2 TMP\_260 = 0 not(TMP\_260) = 1 TMP\_261 = 0 not(TMP\_261) = 1 TMP\_262 = 1 not(TMP\_262) = 0 TMP\_263 = 1 not(TMP\_263) = 0 TMP\_264 = 1 not(TMP\_264) = 0 TMP\_265 = 2 TMP\_266 = 1 not(TMP\_266) = 0 TMP\_267 = 1 not(TMP\_267) = 0 TMP\_268 = 1 not(TMP\_268) = 0 TMP\_269 = 1 not(TMP\_269) = 0 TMP\_270 = 1 not(TMP\_270) = 0 TMP\_271 = 0 not(TMP\_271) = 1 TMP\_272 = 5 TMP\_273 = 0 not(TMP\_273) = 1 TMP\_274 = 0 not(TMP\_274) = 1 TMP\_275 = 0 TMP\_276 = 1 not(TMP\_276) = 0 TMP\_277 = 1 not(TMP\_277) = 0 TMP\_278 = 2 TMP\_279 = 0 not(TMP\_279) = 1 TMP\_280 = 0 not(TMP\_280) = 1 TMP\_281 = 1 not(TMP\_281) = 0 TMP\_282 = 1 not(TMP\_282) = 0 TMP\_283 = 1 not(TMP\_283) = 0 TMP\_284 = 2 TMP\_285 = 0 not(TMP\_285) = 1 TMP\_286 = 1 not(TMP\_286) = 0 TMP\_287 = 1 not(TMP\_287) = 0 TMP\_288 = 1 not(TMP\_288) = 0 TMP\_289 = 1 not(TMP\_289) = 0 TMP\_290 = 0 not(TMP\_290) = 1 TMP\_291 = 4 TMP\_292 = 0 not(TMP\_292) = 1 TMP\_293 = 0 not(TMP\_293) = 1 TMP\_294 = 0 TMP\_295 = 1 not(TMP\_295) = 0 TMP\_296 = 1 not(TMP\_296) = 0 TMP\_297 = 2 TMP\_298 = 0 not(TMP\_298) = 1 TMP\_299 = 0 not(TMP\_299) = 1 TMP\_300 = 1 not(TMP\_300) = 0 TMP\_301 = 1 not(TMP\_301) = 0 TMP\_302 = 1 not(TMP\_302) = 0 TMP\_303 = 2 TMP\_304 = 0 not(TMP\_304) = 1 TMP\_305 = 1 not(TMP\_305) = 0 TMP\_306 = 1 not(TMP\_306) = 0 TMP\_307 = 1 not(TMP\_307) = 0 TMP\_308 = 1 not(TMP\_308) = 0 TMP\_309 = 1 not(TMP\_309) = 0 TMP\_310 = 5 TMP\_311 = 0 not(TMP\_311) = 1 TMP\_312 = 0 not(TMP\_312) = 1 TMP\_313 = 0 TMP\_314 = 1 not(TMP\_314) = 0 TMP\_315 = 1 not(TMP\_315) = 0 TMP\_316 = 2 TMP\_317 = 0 not(TMP\_317) = 1 TMP\_318 = 0 not(TMP\_318) = 1 TMP\_319 = 1 not(TMP\_319) = 0 TMP\_320 = 1 not(TMP\_320) = 0 TMP\_321 = 1 not(TMP\_321) = 0 TMP\_322 = 2 TMP\_323 = 0 not(TMP\_323) = 1 TMP\_324 = 1 not(TMP\_324) = 0 TMP\_325 = 1 not(TMP\_325) = 0 TMP\_326 = 1 not(TMP\_326) = 0 TMP\_327 = 1 not(TMP\_327) = 0 TMP\_328 = 1 not(TMP\_328) = 0 TMP\_329 = 5 TMP\_330 = 0 not(TMP\_330) = 1 TMP\_331 = 0 not(TMP\_331) = 1 TMP\_332 = 0 TMP\_333 = 1 not(TMP\_333) = 0 TMP\_334 = 1 not(TMP\_334) = 0 TMP\_335 = 2 TMP\_336 = 0 not(TMP\_336) = 1 TMP\_337 = 0 not(TMP\_337) = 1 TMP\_338 = 1 not(TMP\_338) = 0 TMP\_339 = 1 not(TMP\_339) = 0 TMP\_340 = 1 not(TMP\_340) = 0 TMP\_341 = 2 TMP\_342 = 0 not(TMP\_342) = 1 TMP\_343 = 1 not(TMP\_343) = 0 TMP\_344 = 1 not(TMP\_344) = 0 TMP\_345 = 1 not(TMP\_345) = 0 TMP\_346 = 0 not(TMP\_346) = 1 TMP\_347 = 1 not(TMP\_347) = 0 TMP\_348 = 4 TMP\_349 = 0 not(TMP\_349) = 1 TMP\_350 = 0 not(TMP\_350) = 1 TMP\_351 = 0 TMP\_352 = 1 not(TMP\_352) = 0 TMP\_353 = 1 not(TMP\_353) = 0 TMP\_354 = 2 TMP\_355 = 0 not(TMP\_355) = 1 TMP\_356 = 0 not(TMP\_356) = 1 TMP\_357 = 1 not(TMP\_357) = 0 TMP\_358 = 1 not(TMP\_358) = 0 TMP\_359 = 1 not(TMP\_359) = 0 TMP\_360 = 2 TMP\_361 = 0 not(TMP\_361) = 1 TMP\_362 = 1 not(TMP\_362) = 0 TMP\_363 = 1 not(TMP\_363) = 0 TMP\_364 = 1 not(TMP\_364) = 0 TMP\_365 = 0 not(TMP\_365) = 1 TMP\_366 = 1 not(TMP\_366) = 0 TMP\_367 = 4 TMP\_368 = 0 not(TMP\_368) = 1 TMP\_369 = 0 not(TMP\_369) = 1 TMP\_370 = 0 TMP\_371 = 1 not(TMP\_371) = 0 TMP\_372 = 1 not(TMP\_372) = 0 TMP\_373 = 2 TMP\_374 = 0 not(TMP\_374) = 1 TMP\_375 = 0 not(TMP\_375) = 1 TMP\_376 = 1 not(TMP\_376) = 0 TMP\_377 = 1 not(TMP\_377) = 0 TMP\_378 = 1 not(TMP\_378) = 0 TMP\_379 = 2 TMP\_380 = 1 not(TMP\_380) = 0 TMP\_381 = 1 not(TMP\_381) = 0 TMP\_382 = 1 not(TMP\_382) = 0 TMP\_383 = 1 not(TMP\_383) = 0 TMP\_384 = 0 not(TMP\_384) = 1 TMP\_385 = 1 not(TMP\_385) = 0 TMP\_386 = 5 TMP\_387 = 0 not(TMP\_387) = 1 TMP\_388 = 0 not(TMP\_388) = 1 TMP\_389 = 0 TMP\_390 = 1 not(TMP\_390) = 0 TMP\_391 = 1 not(TMP\_391) = 0 TMP\_392 = 2 TMP\_393 = 0 not(TMP\_393) = 1 TMP\_394 = 0 not(TMP\_394) = 1 TMP\_395 = 1 not(TMP\_395) = 0 TMP\_396 = 1 not(TMP\_396) = 0 TMP\_397 = 1 not(TMP\_397) = 0 TMP\_398 = 2 TMP\_399 = 0 not(TMP\_399) = 1 TMP\_400 = 1 not(TMP\_400) = 0 TMP\_401 = 1 not(TMP\_401) = 0 TMP\_402 = 1 not(TMP\_402) = 0 TMP\_403 = 0 not(TMP\_403) = 1 TMP\_404 = 1 not(TMP\_404) = 0 TMP\_405 = 4 TMP\_406 = 0 not(TMP\_406) = 1 TMP\_407 = 0 not(TMP\_407) = 1 TMP\_408 = 0 TMP\_409 = 1 not(TMP\_409) = 0 TMP\_410 = 1 not(TMP\_410) = 0 TMP\_411 = 2 TMP\_412 = 0 not(TMP\_412) = 1 TMP\_413 = 0 not(TMP\_413) = 1 TMP\_414 = 1 not(TMP\_414) = 0 TMP\_415 = 1 not(TMP\_415) = 0 TMP\_416 = 1 not(TMP\_416) = 0 TMP\_417 = 2 TMP\_418 = 1 not(TMP\_418) = 0 TMP\_419 = 1 not(TMP\_419) = 0 TMP\_420 = 1 not(TMP\_420) = 0 TMP\_421 = 1 not(TMP\_421) = 0 TMP\_422 = 0 not(TMP\_422) = 1 TMP\_423 = 1 not(TMP\_423) = 0 TMP\_424 = 5 TMP\_425 = 0 not(TMP\_425) = 1 TMP\_426 = 0 not(TMP\_426) = 1 TMP\_427 = 0 TMP\_428 = 1 not(TMP\_428) = 0 TMP\_429 = 1 not(TMP\_429) = 0 TMP\_430 = 2 TMP\_431 = 0 not(TMP\_431) = 1 TMP\_432 = 0 not(TMP\_432) = 1 TMP\_433 = 1 not(TMP\_433) = 0 TMP\_434 = 1 not(TMP\_434) = 0 TMP\_435 = 1 not(TMP\_435) = 0 TMP\_436 = 2 TMP\_437 = 0 not(TMP\_437) = 1 TMP\_438 = 1 not(TMP\_438) = 0 TMP\_439 = 1 not(TMP\_439) = 0 TMP\_440 = 1 not(TMP\_440) = 0 TMP\_441 = 1 not(TMP\_441) = 0 TMP\_442 = 1 not(TMP\_442) = 0 TMP\_443 = 5 TMP\_444 = 0 not(TMP\_444) = 1 TMP\_445 = 0 not(TMP\_445) = 1 TMP\_446 = 0 TMP\_447 = 1 not(TMP\_447) = 0 TMP\_448 = 1 not(TMP\_448) = 0 TMP\_449 = 2 TMP\_450 = 0 not(TMP\_450) = 1 TMP\_451 = 0 not(TMP\_451) = 1 TMP\_452 = 1 not(TMP\_452) = 0 TMP\_453 = 1 not(TMP\_453) = 0 TMP\_454 = 1 not(TMP\_454) = 0 TMP\_455 = 2 TMP\_456 = 0 not(TMP\_456) = 1 TMP\_457 = 1 not(TMP\_457) = 0 TMP\_458 = 1 not(TMP\_458) = 0 TMP\_459 = 1 not(TMP\_459) = 0 TMP\_460 = 1 not(TMP\_460) = 0 TMP\_461 = 1 not(TMP\_461) = 0 TMP\_462 = 5 TMP\_463 = 0 not(TMP\_463) = 1 TMP\_464 = 0 not(TMP\_464) = 1 TMP\_465 = 0 TMP\_466 = 1 not(TMP\_466) = 0 TMP\_467 = 1 not(TMP\_467) = 0 TMP\_468 = 2 TMP\_469 = 0 not(TMP\_469) = 1 TMP\_470 = 0 not(TMP\_470) = 1 TMP\_471 = 1 not(TMP\_471) = 0 TMP\_472 = 1 not(TMP\_472) = 0 TMP\_473 = 1 not(TMP\_473) = 0 TMP\_474 = 2 TMP\_475 = 1 not(TMP\_475) = 0 TMP\_476 = 0 not(TMP\_476) = 1 TMP\_477 = 1 not(TMP\_477) = 0 TMP\_478 = 1 not(TMP\_478) = 0 TMP\_479 = 1 not(TMP\_479) = 0 TMP\_480 = 1 not(TMP\_480) = 0 TMP\_481 = 5 TMP\_482 = 0 not(TMP\_482) = 1 TMP\_483 = 0 not(TMP\_483) = 1 TMP\_484 = 0 TMP\_485 = 1 not(TMP\_485) = 0 TMP\_486 = 1 not(TMP\_486) = 0 TMP\_487 = 2 TMP\_488 = 0 not(TMP\_488) = 1 TMP\_489 = 0 not(TMP\_489) = 1 TMP\_490 = 1 not(TMP\_490) = 0 TMP\_491 = 1 not(TMP\_491) = 0 TMP\_492 = 1 not(TMP\_492) = 0 TMP\_493 = 2 TMP\_494 = 1 not(TMP\_494) = 0 TMP\_495 = 0 not(TMP\_495) = 1 TMP\_496 = 1 not(TMP\_496) = 0 TMP\_497 = 1 not(TMP\_497) = 0 TMP\_498 = 0 not(TMP\_498) = 1 TMP\_499 = 1 not(TMP\_499) = 0 TMP\_500 = 4 TMP\_501 = 0 not(TMP\_501) = 1 TMP\_502 = 0 not(TMP\_502) = 1 TMP\_503 = 0 TMP\_504 = 1 not(TMP\_504) = 0 TMP\_505 = 1 not(TMP\_505) = 0 TMP\_506 = 2 TMP\_507 = 0 not(TMP\_507) = 1 TMP\_508 = 0 not(TMP\_508) = 1 TMP\_509 = 1 not(TMP\_509) = 0 TMP\_510 = 1 not(TMP\_510) = 0 TMP\_511 = 1 not(TMP\_511) = 0 TMP\_512 = 2 TMP\_513 = 1 not(TMP\_513) = 0 TMP\_514 = 0 not(TMP\_514) = 1 TMP\_515 = 1 not(TMP\_515) = 0 TMP\_516 = 1 not(TMP\_516) = 0 TMP\_517 = 0 not(TMP\_517) = 1 TMP\_518 = 1 not(TMP\_518) = 0 TMP\_519 = 4 TMP\_520 = 0 not(TMP\_520) = 1 TMP\_521 = 0 not(TMP\_521) = 1 TMP\_522 = 0 TMP\_523 = 1 not(TMP\_523) = 0 TMP\_524 = 1 not(TMP\_524) = 0 TMP\_525 = 2 TMP\_526 = 0 not(TMP\_526) = 1 TMP\_527 = 0 not(TMP\_527) = 1 TMP\_528 = 1 not(TMP\_528) = 0 TMP\_529 = 1 not(TMP\_529) = 0 TMP\_530 = 1 not(TMP\_530) = 0 TMP\_531 = 2 TMP\_532 = 1 not(TMP\_532) = 0 TMP\_533 = 0 not(TMP\_533) = 1 TMP\_534 = 1 not(TMP\_534) = 0 TMP\_535 = 1 not(TMP\_535) = 0 TMP\_536 = 0 not(TMP\_536) = 1 TMP\_537 = 1 not(TMP\_537) = 0 TMP\_538 = 4 TMP\_539 = 0 not(TMP\_539) = 1 TMP\_540 = 0 not(TMP\_540) = 1 TMP\_541 = 0 TMP\_542 = 1 not(TMP\_542) = 0 TMP\_543 = 1 not(TMP\_543) = 0 TMP\_544 = 2 TMP\_545 = 0 not(TMP\_545) = 1 TMP\_546 = 0 not(TMP\_546) = 1 TMP\_547 = 1 not(TMP\_547) = 0 TMP\_548 = 1 not(TMP\_548) = 0 TMP\_549 = 1 not(TMP\_549) = 0 TMP\_550 = 2 TMP\_551 = 1 not(TMP\_551) = 0 TMP\_552 = 1 not(TMP\_552) = 0 TMP\_553 = 1 not(TMP\_553) = 0 TMP\_554 = 1 not(TMP\_554) = 0 TMP\_555 = 0 not(TMP\_555) = 1 TMP\_556 = 1 not(TMP\_556) = 0 TMP\_557 = 5 TMP\_558 = 0 not(TMP\_558) = 1 TMP\_559 = 0 not(TMP\_559) = 1 TMP\_560 = 0 TMP\_561 = 1 not(TMP\_561) = 0 TMP\_562 = 1 not(TMP\_562) = 0 TMP\_563 = 2 TMP\_564 = 0 not(TMP\_564) = 1 TMP\_565 = 0 not(TMP\_565) = 1 TMP\_566 = 1 not(TMP\_566) = 0 TMP\_567 = 1 not(TMP\_567) = 0 TMP\_568 = 1 not(TMP\_568) = 0 TMP\_569 = 2 TMP\_570 = 1 not(TMP\_570) = 0 TMP\_571 = 0 not(TMP\_571) = 1 TMP\_572 = 1 not(TMP\_572) = 0 TMP\_573 = 1 not(TMP\_573) = 0 TMP\_574 = 0 not(TMP\_574) = 1 TMP\_575 = 1 not(TMP\_575) = 0 TMP\_576 = 4 TMP\_577 = 0 not(TMP\_577) = 1 TMP\_578 = 0 not(TMP\_578) = 1 TMP\_579 = 0 TMP\_580 = 1 not(TMP\_580) = 0 TMP\_581 = 1 not(TMP\_581) = 0 TMP\_582 = 2 TMP\_583 = 0 not(TMP\_583) = 1 TMP\_584 = 0 not(TMP\_584) = 1 TMP\_585 = 1 not(TMP\_585) = 0 TMP\_586 = 1 not(TMP\_586) = 0 TMP\_587 = 1 not(TMP\_587) = 0 TMP\_588 = 2 TMP\_589 = 1 not(TMP\_589) = 0 TMP\_590 = 0 not(TMP\_590) = 1 TMP\_591 = 1 not(TMP\_591) = 0 TMP\_592 = 1 not(TMP\_592) = 0 TMP\_593 = 1 not(TMP\_593) = 0 TMP\_594 = 1 not(TMP\_594) = 0 TMP\_595 = 5 TMP\_596 = 0 not(TMP\_596) = 1 TMP\_597 = 0 not(TMP\_597) = 1 TMP\_598 = 0 TMP\_599 = 1 not(TMP\_599) = 0 TMP\_600 = 1 not(TMP\_600) = 0 TMP\_601 = 2 TMP\_602 = 0 not(TMP\_602) = 1 TMP\_603 = 0 not(TMP\_603) = 1 TMP\_604 = 1 not(TMP\_604) = 0 TMP\_605 = 1 not(TMP\_605) = 0 TMP\_606 = 1 not(TMP\_606) = 0 TMP\_607 = 2 Area\_0 = 60 Distance\_0\_Rule\_0 = 20 Distance\_1\_Rule\_0 = 3 Distance\_2\_Rule\_0 = 1 Area\_1 = 174 Distance\_0\_Rule\_1 = 58 Distance\_1\_Rule\_1 = 3 Distance\_2\_Rule\_1 = 1 Area\_2 = 116 Distance\_0\_Rule\_2 = 58 Distance\_1\_Rule\_2 = 2 Distance\_2\_Rule\_2 = 1 Area\_3 = 58 Distance\_0\_Rule\_3 = 58 Distance\_1\_Rule\_3 = 1 Distance\_2\_Rule\_3 = 1 Area\_4 = 120 Distance\_0\_Rule\_4 = 40 Distance\_1\_Rule\_4 = 3 Distance\_2\_Rule\_4 = 1 Area\_5 = 63 -(Rule\_5\_LB) = 0 Distance\_0\_Rule\_5 = 21 -(Rule\_5\_LB) = 0 Distance\_1\_Rule\_5 = 3 -(Rule\_5\_LB) = 0 Distance\_2\_Rule\_5 = 1 Area\_6 = 3 -(Rule\_6\_LB) = -79 Distance\_0\_Rule\_6 = 1 -(Rule\_6\_LB) = 0 Distance\_1\_Rule\_6 = 3 -(Rule\_6\_LB) = 0 Distance\_2\_Rule\_6 = 1 Area\_7 = 123 -(Rule\_7\_LB) = -79 Distance\_0\_Rule\_7 = 41 -(Rule\_7\_LB) = 0 Distance\_1\_Rule\_7 = 3 -(Rule\_7\_LB) = -1 Distance\_2\_Rule\_7 = 1 Area\_8 = 3 -(Rule\_8\_LB) = -20 Distance\_0\_Rule\_8 = 1 -(Rule\_8\_LB) = 0 Distance\_1\_Rule\_8 = 3 -(Rule\_8\_LB) = -1 Distance\_2\_Rule\_8 = 1 TMP\_608 = 720 .

- Solution #13 found. 13 Solutions, Resolution 1.088s, 2310 Nodes (2,123.3 n/s), 4536 Backtracks, 2261 Fails, 0 Restarts

Rule\_5\_LB = 0 Rule\_5\_UB = 21 Rule\_5\_LB = 0 Rule\_5\_UB = 3 Rule\_5\_LB = 0 Rule\_5\_UB = 1 Rule\_6\_LB = 79 Rule\_6\_UB = 80 Rule\_6\_LB = 0 Rule\_6\_UB = 3 Rule\_6\_LB = 0 Rule\_6\_UB = 1 Rule\_7\_LB = 79 Rule\_7\_UB = 120 Rule\_7\_LB = 0 Rule\_7\_UB = 3 Rule\_7\_LB = 1 Rule\_7\_UB = 2 Rule\_8\_LB = 20 Rule\_8\_UB = 21 Rule\_8\_LB = 0 Rule\_8\_UB = 3 Rule\_8\_LB = 1 Rule\_8\_UB = 2 Overlaps\_0\_0 = 0 Overlaps\_0\_1 = 1 Overlaps\_0\_2 = 0 Overlaps\_0\_3 = 0 Overlaps\_0\_4 = 0 Overlaps\_0\_5 = 0 Overlaps\_0\_6 = 0 Overlaps\_0\_7 = 0 Overlaps\_0\_8 = 0 Overlaps\_1\_0 = 0 Overlaps\_1\_1 = 0 Overlaps\_1\_2 = 0 Overlaps\_1\_3 = 0 Overlaps\_1\_4 = 0 Overlaps\_1\_5 = 0 Overlaps\_1\_6 = 0 Overlaps\_1\_7 = 0 Overlaps\_1\_8 = 0 Overlaps\_2\_0 = 0 Overlaps\_2\_1 = 0 Overlaps\_2\_2 = 0 Overlaps\_2\_3 = 0 Overlaps\_2\_4 = 1 Overlaps\_2\_5 = 0 Overlaps\_2\_6 = 0 Overlaps\_2\_7 = 0 Overlaps\_2\_8 = 0 Overlaps\_3\_0 = 0 Overlaps\_3\_1 = 0 Overlaps\_3\_2 = 0 Overlaps\_3\_3 = 0 Overlaps\_3\_4 = 0 Overlaps\_3\_5 = 0 Overlaps\_3\_6 = 0 Overlaps\_3\_7 = 0 Overlaps\_3\_8 = 0 Overlaps\_4\_0 = 0 Overlaps\_4\_1 = 0 Overlaps\_4\_2 = 0 Overlaps\_4\_3 = 0 Overlaps\_4\_4 = 0 Overlaps\_4\_5 = 0 Overlaps\_4\_6 = 0 Overlaps\_4\_7 = 0 Overlaps\_4\_8 = 0 Overlaps\_5\_0 = 0 Overlaps\_5\_1 = 0 Overlaps\_5\_2 = 0 Overlaps\_5\_3 = 0 Overlaps\_5\_4 = 0 Overlaps\_5\_5 = 0 Overlaps\_5\_6 = 0 Overlaps\_5\_7 = 0 Overlaps\_5\_8 = 0 Overlaps\_6\_0 = 0 Overlaps\_6\_1 = 0 Overlaps\_6\_2 = 0 Overlaps\_6\_3 = 0 Overlaps\_6\_4 = 0 Overlaps\_6\_5 = 0 Overlaps\_6\_6 = 0 Overlaps\_6\_7 = 0 Overlaps\_6\_8 = 0 Overlaps\_7\_0 = 0 Overlaps\_7\_1 = 0 Overlaps\_7\_2 = 0 Overlaps\_7\_3 = 0 Overlaps\_7\_4 = 0 Overlaps\_7\_5 = 0 Overlaps\_7\_6 = 0 Overlaps\_7\_7 = 0 Overlaps\_7\_8 = 0 Overlaps\_8\_0 = 0 Overlaps\_8\_1 = 0 Overlaps\_8\_2 = 0 Overlaps\_8\_3 = 0 Overlaps\_8\_4 = 0 Overlaps\_8\_5 = 0 Overlaps\_8\_6 = 0 Overlaps\_8\_7 = 0 Overlaps\_8\_8 = 0 TMP\_0 = 1 not(TMP\_0) = 0 TMP\_1 = 1 not(TMP\_1) = 0 TMP\_2 = 1 not(TMP\_2) = 0 TMP\_3 = 1 not(TMP\_3) = 0 TMP\_4 = 1 not(TMP\_4) = 0 TMP\_5 = 0 not(TMP\_5) = 1 TMP\_6 = 5 TMP\_7 = 0 not(TMP\_7) = 1 TMP\_8 = 0 not(TMP\_8) = 1 TMP\_9 = 0 TMP\_10 = 1 not(TMP\_10) = 0 TMP\_11 = 1 not(TMP\_11) = 0 TMP\_12 = 2 TMP\_13 = 0 not(TMP\_13) = 1 TMP\_14 = 0 not(TMP\_14) = 1 TMP\_15 = 1 not(TMP\_15) = 0 TMP\_16 = 1 not(TMP\_16) = 0 TMP\_17 = 1 not(TMP\_17) = 0 TMP\_18 = 2 TMP\_19 = 1 not(TMP\_19) = 0 TMP\_20 = 0 not(TMP\_20) = 1 TMP\_21 = 1 not(TMP\_21) = 0 TMP\_22 = 1 not(TMP\_22) = 0 TMP\_23 = 1 not(TMP\_23) = 0 TMP\_24 = 0 not(TMP\_24) = 1 TMP\_25 = 4 TMP\_26 = 0 not(TMP\_26) = 1 TMP\_27 = 0 not(TMP\_27) = 1 TMP\_28 = 0 TMP\_29 = 1 not(TMP\_29) = 0 TMP\_30 = 1 not(TMP\_30) = 0 TMP\_31 = 2 TMP\_32 = 0 not(TMP\_32) = 1 TMP\_33 = 0 not(TMP\_33) = 1 TMP\_34 = 1 not(TMP\_34) = 0 TMP\_35 = 1 not(TMP\_35) = 0 TMP\_36 = 1 not(TMP\_36) = 0 TMP\_37 = 2 TMP\_38 = 1 not(TMP\_38) = 0 TMP\_39 = 0 not(TMP\_39) = 1 TMP\_40 = 1 not(TMP\_40) = 0 TMP\_41 = 1 not(TMP\_41) = 0 TMP\_42 = 1 not(TMP\_42) = 0 TMP\_43 = 1 not(TMP\_43) = 0 TMP\_44 = 5 TMP\_45 = 0 not(TMP\_45) = 1 TMP\_46 = 0 not(TMP\_46) = 1 TMP\_47 = 0 TMP\_48 = 1 not(TMP\_48) = 0 TMP\_49 = 1 not(TMP\_49) = 0 TMP\_50 = 2 TMP\_51 = 0 not(TMP\_51) = 1 TMP\_52 = 0 not(TMP\_52) = 1 TMP\_53 = 1 not(TMP\_53) = 0 TMP\_54 = 1 not(TMP\_54) = 0 TMP\_55 = 1 not(TMP\_55) = 0 TMP\_56 = 2 TMP\_57 = 1 not(TMP\_57) = 0 TMP\_58 = 0 not(TMP\_58) = 1 TMP\_59 = 1 not(TMP\_59) = 0 TMP\_60 = 1 not(TMP\_60) = 0 TMP\_61 = 1 not(TMP\_61) = 0 TMP\_62 = 1 not(TMP\_62) = 0 TMP\_63 = 5 TMP\_64 = 0 not(TMP\_64) = 1 TMP\_65 = 0 not(TMP\_65) = 1 TMP\_66 = 0 TMP\_67 = 1 not(TMP\_67) = 0 TMP\_68 = 1 not(TMP\_68) = 0 TMP\_69 = 2 TMP\_70 = 0 not(TMP\_70) = 1 TMP\_71 = 0 not(TMP\_71) = 1 TMP\_72 = 1 not(TMP\_72) = 0 TMP\_73 = 1 not(TMP\_73) = 0 TMP\_74 = 1 not(TMP\_74) = 0 TMP\_75 = 2 TMP\_76 = 1 not(TMP\_76) = 0 TMP\_77 = 0 not(TMP\_77) = 1 TMP\_78 = 1 not(TMP\_78) = 0 TMP\_79 = 1 not(TMP\_79) = 0 TMP\_80 = 1 not(TMP\_80) = 0 TMP\_81 = 1 not(TMP\_81) = 0 TMP\_82 = 5 TMP\_83 = 0 not(TMP\_83) = 1 TMP\_84 = 0 not(TMP\_84) = 1 TMP\_85 = 0 TMP\_86 = 1 not(TMP\_86) = 0 TMP\_87 = 1 not(TMP\_87) = 0 TMP\_88 = 2 TMP\_89 = 0 not(TMP\_89) = 1 TMP\_90 = 0 not(TMP\_90) = 1 TMP\_91 = 1 not(TMP\_91) = 0 TMP\_92 = 1 not(TMP\_92) = 0 TMP\_93 = 1 not(TMP\_93) = 0 TMP\_94 = 2 TMP\_95 = 1 not(TMP\_95) = 0 TMP\_96 = 0 not(TMP\_96) = 1 TMP\_97 = 1 not(TMP\_97) = 0 TMP\_98 = 1 not(TMP\_98) = 0 TMP\_99 = 1 not(TMP\_99) = 0 TMP\_100 = 1 not(TMP\_100) = 0 TMP\_101 = 5 TMP\_102 = 0 not(TMP\_102) = 1 TMP\_103 = 0 not(TMP\_103) = 1 TMP\_104 = 0 TMP\_105 = 1 not(TMP\_105) = 0 TMP\_106 = 1 not(TMP\_106) = 0 TMP\_107 = 2 TMP\_108 = 0 not(TMP\_108) = 1 TMP\_109 = 0 not(TMP\_109) = 1 TMP\_110 = 1 not(TMP\_110) = 0 TMP\_111 = 1 not(TMP\_111) = 0 TMP\_112 = 1 not(TMP\_112) = 0 TMP\_113 = 2 TMP\_114 = 1 not(TMP\_114) = 0 TMP\_115 = 0 not(TMP\_115) = 1 TMP\_116 = 1 not(TMP\_116) = 0 TMP\_117 = 1 not(TMP\_117) = 0 TMP\_118 = 1 not(TMP\_118) = 0 TMP\_119 = 0 not(TMP\_119) = 1 TMP\_120 = 4 TMP\_121 = 0 not(TMP\_121) = 1 TMP\_122 = 0 not(TMP\_122) = 1 TMP\_123 = 0 TMP\_124 = 1 not(TMP\_124) = 0 TMP\_125 = 1 not(TMP\_125) = 0 TMP\_126 = 2 TMP\_127 = 0 not(TMP\_127) = 1 TMP\_128 = 0 not(TMP\_128) = 1 TMP\_129 = 1 not(TMP\_129) = 0 TMP\_130 = 1 not(TMP\_130) = 0 TMP\_131 = 1 not(TMP\_131) = 0 TMP\_132 = 2 TMP\_133 = 1 not(TMP\_133) = 0 TMP\_134 = 1 not(TMP\_134) = 0 TMP\_135 = 1 not(TMP\_135) = 0 TMP\_136 = 1 not(TMP\_136) = 0 TMP\_137 = 1 not(TMP\_137) = 0 TMP\_138 = 0 not(TMP\_138) = 1 TMP\_139 = 5 TMP\_140 = 0 not(TMP\_140) = 1 TMP\_141 = 0 not(TMP\_141) = 1 TMP\_142 = 0 TMP\_143 = 1 not(TMP\_143) = 0 TMP\_144 = 1 not(TMP\_144) = 0 TMP\_145 = 2 TMP\_146 = 0 not(TMP\_146) = 1 TMP\_147 = 0 not(TMP\_147) = 1 TMP\_148 = 1 not(TMP\_148) = 0 TMP\_149 = 1 not(TMP\_149) = 0 TMP\_150 = 1 not(TMP\_150) = 0 TMP\_151 = 2 TMP\_152 = 0 not(TMP\_152) = 1 TMP\_153 = 1 not(TMP\_153) = 0 TMP\_154 = 1 not(TMP\_154) = 0 TMP\_155 = 1 not(TMP\_155) = 0 TMP\_156 = 1 not(TMP\_156) = 0 TMP\_157 = 0 not(TMP\_157) = 1 TMP\_158 = 4 TMP\_159 = 0 not(TMP\_159) = 1 TMP\_160 = 0 not(TMP\_160) = 1 TMP\_161 = 0 TMP\_162 = 1 not(TMP\_162) = 0 TMP\_163 = 1 not(TMP\_163) = 0 TMP\_164 = 2 TMP\_165 = 0 not(TMP\_165) = 1 TMP\_166 = 0 not(TMP\_166) = 1 TMP\_167 = 1 not(TMP\_167) = 0 TMP\_168 = 1 not(TMP\_168) = 0 TMP\_169 = 1 not(TMP\_169) = 0 TMP\_170 = 2 TMP\_171 = 0 not(TMP\_171) = 1 TMP\_172 = 1 not(TMP\_172) = 0 TMP\_173 = 1 not(TMP\_173) = 0 TMP\_174 = 1 not(TMP\_174) = 0 TMP\_175 = 1 not(TMP\_175) = 0 TMP\_176 = 0 not(TMP\_176) = 1 TMP\_177 = 4 TMP\_178 = 0 not(TMP\_178) = 1 TMP\_179 = 0 not(TMP\_179) = 1 TMP\_180 = 0 TMP\_181 = 1 not(TMP\_181) = 0 TMP\_182 = 1 not(TMP\_182) = 0 TMP\_183 = 2 TMP\_184 = 0 not(TMP\_184) = 1 TMP\_185 = 0 not(TMP\_185) = 1 TMP\_186 = 1 not(TMP\_186) = 0 TMP\_187 = 1 not(TMP\_187) = 0 TMP\_188 = 1 not(TMP\_188) = 0 TMP\_189 = 2 TMP\_190 = 0 not(TMP\_190) = 1 TMP\_191 = 1 not(TMP\_191) = 0 TMP\_192 = 1 not(TMP\_192) = 0 TMP\_193 = 1 not(TMP\_193) = 0 TMP\_194 = 1 not(TMP\_194) = 0 TMP\_195 = 1 not(TMP\_195) = 0 TMP\_196 = 5 TMP\_197 = 0 not(TMP\_197) = 1 TMP\_198 = 0 not(TMP\_198) = 1 TMP\_199 = 0 TMP\_200 = 1 not(TMP\_200) = 0 TMP\_201 = 1 not(TMP\_201) = 0 TMP\_202 = 2 TMP\_203 = 0 not(TMP\_203) = 1 TMP\_204 = 0 not(TMP\_204) = 1 TMP\_205 = 1 not(TMP\_205) = 0 TMP\_206 = 1 not(TMP\_206) = 0 TMP\_207 = 1 not(TMP\_207) = 0 TMP\_208 = 2 TMP\_209 = 0 not(TMP\_209) = 1 TMP\_210 = 1 not(TMP\_210) = 0 TMP\_211 = 1 not(TMP\_211) = 0 TMP\_212 = 1 not(TMP\_212) = 0 TMP\_213 = 1 not(TMP\_213) = 0 TMP\_214 = 1 not(TMP\_214) = 0 TMP\_215 = 5 TMP\_216 = 0 not(TMP\_216) = 1 TMP\_217 = 0 not(TMP\_217) = 1 TMP\_218 = 0 TMP\_219 = 1 not(TMP\_219) = 0 TMP\_220 = 1 not(TMP\_220) = 0 TMP\_221 = 2 TMP\_222 = 0 not(TMP\_222) = 1 TMP\_223 = 0 not(TMP\_223) = 1 TMP\_224 = 1 not(TMP\_224) = 0 TMP\_225 = 1 not(TMP\_225) = 0 TMP\_226 = 1 not(TMP\_226) = 0 TMP\_227 = 2 TMP\_228 = 1 not(TMP\_228) = 0 TMP\_229 = 0 not(TMP\_229) = 1 TMP\_230 = 1 not(TMP\_230) = 0 TMP\_231 = 1 not(TMP\_231) = 0 TMP\_232 = 1 not(TMP\_232) = 0 TMP\_233 = 1 not(TMP\_233) = 0 TMP\_234 = 5 TMP\_235 = 0 not(TMP\_235) = 1 TMP\_236 = 0 not(TMP\_236) = 1 TMP\_237 = 0 TMP\_238 = 1 not(TMP\_238) = 0 TMP\_239 = 1 not(TMP\_239) = 0 TMP\_240 = 2 TMP\_241 = 0 not(TMP\_241) = 1 TMP\_242 = 0 not(TMP\_242) = 1 TMP\_243 = 1 not(TMP\_243) = 0 TMP\_244 = 1 not(TMP\_244) = 0 TMP\_245 = 1 not(TMP\_245) = 0 TMP\_246 = 2 TMP\_247 = 0 not(TMP\_247) = 1 TMP\_248 = 1 not(TMP\_248) = 0 TMP\_249 = 1 not(TMP\_249) = 0 TMP\_250 = 1 not(TMP\_250) = 0 TMP\_251 = 1 not(TMP\_251) = 0 TMP\_252 = 1 not(TMP\_252) = 0 TMP\_253 = 5 TMP\_254 = 0 not(TMP\_254) = 1 TMP\_255 = 0 not(TMP\_255) = 1 TMP\_256 = 0 TMP\_257 = 1 not(TMP\_257) = 0 TMP\_258 = 1 not(TMP\_258) = 0 TMP\_259 = 2 TMP\_260 = 0 not(TMP\_260) = 1 TMP\_261 = 0 not(TMP\_261) = 1 TMP\_262 = 1 not(TMP\_262) = 0 TMP\_263 = 1 not(TMP\_263) = 0 TMP\_264 = 1 not(TMP\_264) = 0 TMP\_265 = 2 TMP\_266 = 1 not(TMP\_266) = 0 TMP\_267 = 1 not(TMP\_267) = 0 TMP\_268 = 1 not(TMP\_268) = 0 TMP\_269 = 1 not(TMP\_269) = 0 TMP\_270 = 1 not(TMP\_270) = 0 TMP\_271 = 0 not(TMP\_271) = 1 TMP\_272 = 5 TMP\_273 = 0 not(TMP\_273) = 1 TMP\_274 = 0 not(TMP\_274) = 1 TMP\_275 = 0 TMP\_276 = 1 not(TMP\_276) = 0 TMP\_277 = 1 not(TMP\_277) = 0 TMP\_278 = 2 TMP\_279 = 0 not(TMP\_279) = 1 TMP\_280 = 0 not(TMP\_280) = 1 TMP\_281 = 1 not(TMP\_281) = 0 TMP\_282 = 1 not(TMP\_282) = 0 TMP\_283 = 1 not(TMP\_283) = 0 TMP\_284 = 2 TMP\_285 = 0 not(TMP\_285) = 1 TMP\_286 = 1 not(TMP\_286) = 0 TMP\_287 = 1 not(TMP\_287) = 0 TMP\_288 = 1 not(TMP\_288) = 0 TMP\_289 = 1 not(TMP\_289) = 0 TMP\_290 = 0 not(TMP\_290) = 1 TMP\_291 = 4 TMP\_292 = 0 not(TMP\_292) = 1 TMP\_293 = 0 not(TMP\_293) = 1 TMP\_294 = 0 TMP\_295 = 1 not(TMP\_295) = 0 TMP\_296 = 1 not(TMP\_296) = 0 TMP\_297 = 2 TMP\_298 = 0 not(TMP\_298) = 1 TMP\_299 = 0 not(TMP\_299) = 1 TMP\_300 = 1 not(TMP\_300) = 0 TMP\_301 = 1 not(TMP\_301) = 0 TMP\_302 = 1 not(TMP\_302) = 0 TMP\_303 = 2 TMP\_304 = 0 not(TMP\_304) = 1 TMP\_305 = 1 not(TMP\_305) = 0 TMP\_306 = 1 not(TMP\_306) = 0 TMP\_307 = 1 not(TMP\_307) = 0 TMP\_308 = 1 not(TMP\_308) = 0 TMP\_309 = 1 not(TMP\_309) = 0 TMP\_310 = 5 TMP\_311 = 0 not(TMP\_311) = 1 TMP\_312 = 0 not(TMP\_312) = 1 TMP\_313 = 0 TMP\_314 = 1 not(TMP\_314) = 0 TMP\_315 = 1 not(TMP\_315) = 0 TMP\_316 = 2 TMP\_317 = 0 not(TMP\_317) = 1 TMP\_318 = 0 not(TMP\_318) = 1 TMP\_319 = 1 not(TMP\_319) = 0 TMP\_320 = 1 not(TMP\_320) = 0 TMP\_321 = 1 not(TMP\_321) = 0 TMP\_322 = 2 TMP\_323 = 0 not(TMP\_323) = 1 TMP\_324 = 1 not(TMP\_324) = 0 TMP\_325 = 1 not(TMP\_325) = 0 TMP\_326 = 1 not(TMP\_326) = 0 TMP\_327 = 1 not(TMP\_327) = 0 TMP\_328 = 1 not(TMP\_328) = 0 TMP\_329 = 5 TMP\_330 = 0 not(TMP\_330) = 1 TMP\_331 = 0 not(TMP\_331) = 1 TMP\_332 = 0 TMP\_333 = 1 not(TMP\_333) = 0 TMP\_334 = 1 not(TMP\_334) = 0 TMP\_335 = 2 TMP\_336 = 0 not(TMP\_336) = 1 TMP\_337 = 0 not(TMP\_337) = 1 TMP\_338 = 1 not(TMP\_338) = 0 TMP\_339 = 1 not(TMP\_339) = 0 TMP\_340 = 1 not(TMP\_340) = 0 TMP\_341 = 2 TMP\_342 = 0 not(TMP\_342) = 1 TMP\_343 = 1 not(TMP\_343) = 0 TMP\_344 = 1 not(TMP\_344) = 0 TMP\_345 = 1 not(TMP\_345) = 0 TMP\_346 = 0 not(TMP\_346) = 1 TMP\_347 = 1 not(TMP\_347) = 0 TMP\_348 = 4 TMP\_349 = 0 not(TMP\_349) = 1 TMP\_350 = 0 not(TMP\_350) = 1 TMP\_351 = 0 TMP\_352 = 1 not(TMP\_352) = 0 TMP\_353 = 1 not(TMP\_353) = 0 TMP\_354 = 2 TMP\_355 = 0 not(TMP\_355) = 1 TMP\_356 = 0 not(TMP\_356) = 1 TMP\_357 = 1 not(TMP\_357) = 0 TMP\_358 = 1 not(TMP\_358) = 0 TMP\_359 = 1 not(TMP\_359) = 0 TMP\_360 = 2 TMP\_361 = 0 not(TMP\_361) = 1 TMP\_362 = 1 not(TMP\_362) = 0 TMP\_363 = 1 not(TMP\_363) = 0 TMP\_364 = 1 not(TMP\_364) = 0 TMP\_365 = 0 not(TMP\_365) = 1 TMP\_366 = 1 not(TMP\_366) = 0 TMP\_367 = 4 TMP\_368 = 0 not(TMP\_368) = 1 TMP\_369 = 0 not(TMP\_369) = 1 TMP\_370 = 0 TMP\_371 = 1 not(TMP\_371) = 0 TMP\_372 = 1 not(TMP\_372) = 0 TMP\_373 = 2 TMP\_374 = 0 not(TMP\_374) = 1 TMP\_375 = 0 not(TMP\_375) = 1 TMP\_376 = 1 not(TMP\_376) = 0 TMP\_377 = 1 not(TMP\_377) = 0 TMP\_378 = 1 not(TMP\_378) = 0 TMP\_379 = 2 TMP\_380 = 1 not(TMP\_380) = 0 TMP\_381 = 1 not(TMP\_381) = 0 TMP\_382 = 1 not(TMP\_382) = 0 TMP\_383 = 1 not(TMP\_383) = 0 TMP\_384 = 0 not(TMP\_384) = 1 TMP\_385 = 1 not(TMP\_385) = 0 TMP\_386 = 5 TMP\_387 = 0 not(TMP\_387) = 1 TMP\_388 = 0 not(TMP\_388) = 1 TMP\_389 = 0 TMP\_390 = 1 not(TMP\_390) = 0 TMP\_391 = 1 not(TMP\_391) = 0 TMP\_392 = 2 TMP\_393 = 0 not(TMP\_393) = 1 TMP\_394 = 0 not(TMP\_394) = 1 TMP\_395 = 1 not(TMP\_395) = 0 TMP\_396 = 1 not(TMP\_396) = 0 TMP\_397 = 1 not(TMP\_397) = 0 TMP\_398 = 2 TMP\_399 = 0 not(TMP\_399) = 1 TMP\_400 = 1 not(TMP\_400) = 0 TMP\_401 = 1 not(TMP\_401) = 0 TMP\_402 = 1 not(TMP\_402) = 0 TMP\_403 = 0 not(TMP\_403) = 1 TMP\_404 = 1 not(TMP\_404) = 0 TMP\_405 = 4 TMP\_406 = 0 not(TMP\_406) = 1 TMP\_407 = 0 not(TMP\_407) = 1 TMP\_408 = 0 TMP\_409 = 1 not(TMP\_409) = 0 TMP\_410 = 1 not(TMP\_410) = 0 TMP\_411 = 2 TMP\_412 = 0 not(TMP\_412) = 1 TMP\_413 = 0 not(TMP\_413) = 1 TMP\_414 = 1 not(TMP\_414) = 0 TMP\_415 = 1 not(TMP\_415) = 0 TMP\_416 = 1 not(TMP\_416) = 0 TMP\_417 = 2 TMP\_418 = 1 not(TMP\_418) = 0 TMP\_419 = 1 not(TMP\_419) = 0 TMP\_420 = 1 not(TMP\_420) = 0 TMP\_421 = 1 not(TMP\_421) = 0 TMP\_422 = 0 not(TMP\_422) = 1 TMP\_423 = 1 not(TMP\_423) = 0 TMP\_424 = 5 TMP\_425 = 0 not(TMP\_425) = 1 TMP\_426 = 0 not(TMP\_426) = 1 TMP\_427 = 0 TMP\_428 = 1 not(TMP\_428) = 0 TMP\_429 = 1 not(TMP\_429) = 0 TMP\_430 = 2 TMP\_431 = 0 not(TMP\_431) = 1 TMP\_432 = 0 not(TMP\_432) = 1 TMP\_433 = 1 not(TMP\_433) = 0 TMP\_434 = 1 not(TMP\_434) = 0 TMP\_435 = 1 not(TMP\_435) = 0 TMP\_436 = 2 TMP\_437 = 0 not(TMP\_437) = 1 TMP\_438 = 1 not(TMP\_438) = 0 TMP\_439 = 1 not(TMP\_439) = 0 TMP\_440 = 1 not(TMP\_440) = 0 TMP\_441 = 1 not(TMP\_441) = 0 TMP\_442 = 1 not(TMP\_442) = 0 TMP\_443 = 5 TMP\_444 = 0 not(TMP\_444) = 1 TMP\_445 = 0 not(TMP\_445) = 1 TMP\_446 = 0 TMP\_447 = 1 not(TMP\_447) = 0 TMP\_448 = 1 not(TMP\_448) = 0 TMP\_449 = 2 TMP\_450 = 0 not(TMP\_450) = 1 TMP\_451 = 0 not(TMP\_451) = 1 TMP\_452 = 1 not(TMP\_452) = 0 TMP\_453 = 1 not(TMP\_453) = 0 TMP\_454 = 1 not(TMP\_454) = 0 TMP\_455 = 2 TMP\_456 = 0 not(TMP\_456) = 1 TMP\_457 = 1 not(TMP\_457) = 0 TMP\_458 = 1 not(TMP\_458) = 0 TMP\_459 = 1 not(TMP\_459) = 0 TMP\_460 = 1 not(TMP\_460) = 0 TMP\_461 = 1 not(TMP\_461) = 0 TMP\_462 = 5 TMP\_463 = 0 not(TMP\_463) = 1 TMP\_464 = 0 not(TMP\_464) = 1 TMP\_465 = 0 TMP\_466 = 1 not(TMP\_466) = 0 TMP\_467 = 1 not(TMP\_467) = 0 TMP\_468 = 2 TMP\_469 = 0 not(TMP\_469) = 1 TMP\_470 = 0 not(TMP\_470) = 1 TMP\_471 = 1 not(TMP\_471) = 0 TMP\_472 = 1 not(TMP\_472) = 0 TMP\_473 = 1 not(TMP\_473) = 0 TMP\_474 = 2 TMP\_475 = 1 not(TMP\_475) = 0 TMP\_476 = 0 not(TMP\_476) = 1 TMP\_477 = 1 not(TMP\_477) = 0 TMP\_478 = 1 not(TMP\_478) = 0 TMP\_479 = 1 not(TMP\_479) = 0 TMP\_480 = 1 not(TMP\_480) = 0 TMP\_481 = 5 TMP\_482 = 0 not(TMP\_482) = 1 TMP\_483 = 0 not(TMP\_483) = 1 TMP\_484 = 0 TMP\_485 = 1 not(TMP\_485) = 0 TMP\_486 = 1 not(TMP\_486) = 0 TMP\_487 = 2 TMP\_488 = 0 not(TMP\_488) = 1 TMP\_489 = 0 not(TMP\_489) = 1 TMP\_490 = 1 not(TMP\_490) = 0 TMP\_491 = 1 not(TMP\_491) = 0 TMP\_492 = 1 not(TMP\_492) = 0 TMP\_493 = 2 TMP\_494 = 1 not(TMP\_494) = 0 TMP\_495 = 0 not(TMP\_495) = 1 TMP\_496 = 1 not(TMP\_496) = 0 TMP\_497 = 1 not(TMP\_497) = 0 TMP\_498 = 0 not(TMP\_498) = 1 TMP\_499 = 1 not(TMP\_499) = 0 TMP\_500 = 4 TMP\_501 = 0 not(TMP\_501) = 1 TMP\_502 = 0 not(TMP\_502) = 1 TMP\_503 = 0 TMP\_504 = 1 not(TMP\_504) = 0 TMP\_505 = 1 not(TMP\_505) = 0 TMP\_506 = 2 TMP\_507 = 0 not(TMP\_507) = 1 TMP\_508 = 0 not(TMP\_508) = 1 TMP\_509 = 1 not(TMP\_509) = 0 TMP\_510 = 1 not(TMP\_510) = 0 TMP\_511 = 1 not(TMP\_511) = 0 TMP\_512 = 2 TMP\_513 = 1 not(TMP\_513) = 0 TMP\_514 = 0 not(TMP\_514) = 1 TMP\_515 = 1 not(TMP\_515) = 0 TMP\_516 = 1 not(TMP\_516) = 0 TMP\_517 = 0 not(TMP\_517) = 1 TMP\_518 = 1 not(TMP\_518) = 0 TMP\_519 = 4 TMP\_520 = 0 not(TMP\_520) = 1 TMP\_521 = 0 not(TMP\_521) = 1 TMP\_522 = 0 TMP\_523 = 1 not(TMP\_523) = 0 TMP\_524 = 1 not(TMP\_524) = 0 TMP\_525 = 2 TMP\_526 = 0 not(TMP\_526) = 1 TMP\_527 = 0 not(TMP\_527) = 1 TMP\_528 = 1 not(TMP\_528) = 0 TMP\_529 = 1 not(TMP\_529) = 0 TMP\_530 = 1 not(TMP\_530) = 0 TMP\_531 = 2 TMP\_532 = 1 not(TMP\_532) = 0 TMP\_533 = 0 not(TMP\_533) = 1 TMP\_534 = 1 not(TMP\_534) = 0 TMP\_535 = 1 not(TMP\_535) = 0 TMP\_536 = 0 not(TMP\_536) = 1 TMP\_537 = 1 not(TMP\_537) = 0 TMP\_538 = 4 TMP\_539 = 0 not(TMP\_539) = 1 TMP\_540 = 0 not(TMP\_540) = 1 TMP\_541 = 0 TMP\_542 = 1 not(TMP\_542) = 0 TMP\_543 = 1 not(TMP\_543) = 0 TMP\_544 = 2 TMP\_545 = 0 not(TMP\_545) = 1 TMP\_546 = 0 not(TMP\_546) = 1 TMP\_547 = 1 not(TMP\_547) = 0 TMP\_548 = 1 not(TMP\_548) = 0 TMP\_549 = 1 not(TMP\_549) = 0 TMP\_550 = 2 TMP\_551 = 1 not(TMP\_551) = 0 TMP\_552 = 1 not(TMP\_552) = 0 TMP\_553 = 1 not(TMP\_553) = 0 TMP\_554 = 1 not(TMP\_554) = 0 TMP\_555 = 0 not(TMP\_555) = 1 TMP\_556 = 1 not(TMP\_556) = 0 TMP\_557 = 5 TMP\_558 = 0 not(TMP\_558) = 1 TMP\_559 = 0 not(TMP\_559) = 1 TMP\_560 = 0 TMP\_561 = 1 not(TMP\_561) = 0 TMP\_562 = 1 not(TMP\_562) = 0 TMP\_563 = 2 TMP\_564 = 0 not(TMP\_564) = 1 TMP\_565 = 0 not(TMP\_565) = 1 TMP\_566 = 1 not(TMP\_566) = 0 TMP\_567 = 1 not(TMP\_567) = 0 TMP\_568 = 1 not(TMP\_568) = 0 TMP\_569 = 2 TMP\_570 = 1 not(TMP\_570) = 0 TMP\_571 = 0 not(TMP\_571) = 1 TMP\_572 = 1 not(TMP\_572) = 0 TMP\_573 = 1 not(TMP\_573) = 0 TMP\_574 = 0 not(TMP\_574) = 1 TMP\_575 = 1 not(TMP\_575) = 0 TMP\_576 = 4 TMP\_577 = 0 not(TMP\_577) = 1 TMP\_578 = 0 not(TMP\_578) = 1 TMP\_579 = 0 TMP\_580 = 1 not(TMP\_580) = 0 TMP\_581 = 1 not(TMP\_581) = 0 TMP\_582 = 2 TMP\_583 = 0 not(TMP\_583) = 1 TMP\_584 = 0 not(TMP\_584) = 1 TMP\_585 = 1 not(TMP\_585) = 0 TMP\_586 = 1 not(TMP\_586) = 0 TMP\_587 = 1 not(TMP\_587) = 0 TMP\_588 = 2 TMP\_589 = 1 not(TMP\_589) = 0 TMP\_590 = 0 not(TMP\_590) = 1 TMP\_591 = 1 not(TMP\_591) = 0 TMP\_592 = 1 not(TMP\_592) = 0 TMP\_593 = 1 not(TMP\_593) = 0 TMP\_594 = 1 not(TMP\_594) = 0 TMP\_595 = 5 TMP\_596 = 0 not(TMP\_596) = 1 TMP\_597 = 0 not(TMP\_597) = 1 TMP\_598 = 0 TMP\_599 = 1 not(TMP\_599) = 0 TMP\_600 = 1 not(TMP\_600) = 0 TMP\_601 = 2 TMP\_602 = 0 not(TMP\_602) = 1 TMP\_603 = 0 not(TMP\_603) = 1 TMP\_604 = 1 not(TMP\_604) = 0 TMP\_605 = 1 not(TMP\_605) = 0 TMP\_606 = 1 not(TMP\_606) = 0 TMP\_607 = 2 Area\_0 = 60 Distance\_0\_Rule\_0 = 20 Distance\_1\_Rule\_0 = 3 Distance\_2\_Rule\_0 = 1 Area\_1 = 174 Distance\_0\_Rule\_1 = 58 Distance\_1\_Rule\_1 = 3 Distance\_2\_Rule\_1 = 1 Area\_2 = 116 Distance\_0\_Rule\_2 = 58 Distance\_1\_Rule\_2 = 2 Distance\_2\_Rule\_2 = 1 Area\_3 = 58 Distance\_0\_Rule\_3 = 58 Distance\_1\_Rule\_3 = 1 Distance\_2\_Rule\_3 = 1 Area\_4 = 120 Distance\_0\_Rule\_4 = 40 Distance\_1\_Rule\_4 = 3 Distance\_2\_Rule\_4 = 1 Area\_5 = 63 -(Rule\_5\_LB) = 0 Distance\_0\_Rule\_5 = 21 -(Rule\_5\_LB) = 0 Distance\_1\_Rule\_5 = 3 -(Rule\_5\_LB) = 0 Distance\_2\_Rule\_5 = 1 Area\_6 = 3 -(Rule\_6\_LB) = -79 Distance\_0\_Rule\_6 = 1 -(Rule\_6\_LB) = 0 Distance\_1\_Rule\_6 = 3 -(Rule\_6\_LB) = 0 Distance\_2\_Rule\_6 = 1 Area\_7 = 123 -(Rule\_7\_LB) = -79 Distance\_0\_Rule\_7 = 41 -(Rule\_7\_LB) = 0 Distance\_1\_Rule\_7 = 3 -(Rule\_7\_LB) = -1 Distance\_2\_Rule\_7 = 1 Area\_8 = 3 -(Rule\_8\_LB) = -20 Distance\_0\_Rule\_8 = 1 -(Rule\_8\_LB) = 0 Distance\_1\_Rule\_8 = 3 -(Rule\_8\_LB) = -1 Distance\_2\_Rule\_8 = 1 TMP\_608 = 720 .

- Solution #14 found. 14 Solutions, Resolution 1.092s, 2311 Nodes (2,116.7 n/s), 4537 Backtracks, 2261 Fails, 0 Restarts

Rule\_5\_LB = 0 Rule\_5\_UB = 21 Rule\_5\_LB = 0 Rule\_5\_UB = 3 Rule\_5\_LB = 0 Rule\_5\_UB = 1 Rule\_6\_LB = 79 Rule\_6\_UB = 80 Rule\_6\_LB = 0 Rule\_6\_UB = 3 Rule\_6\_LB = 0 Rule\_6\_UB = 1 Rule\_7\_LB = 79 Rule\_7\_UB = 120 Rule\_7\_LB = 0 Rule\_7\_UB = 3 Rule\_7\_LB = 1 Rule\_7\_UB = 2 Rule\_8\_LB = 20 Rule\_8\_UB = 21 Rule\_8\_LB = 0 Rule\_8\_UB = 3 Rule\_8\_LB = 1 Rule\_8\_UB = 2 Overlaps\_0\_0 = 0 Overlaps\_0\_1 = 1 Overlaps\_0\_2 = 0 Overlaps\_0\_3 = 0 Overlaps\_0\_4 = 0 Overlaps\_0\_5 = 0 Overlaps\_0\_6 = 0 Overlaps\_0\_7 = 0 Overlaps\_0\_8 = 0 Overlaps\_1\_0 = 0 Overlaps\_1\_1 = 0 Overlaps\_1\_2 = 0 Overlaps\_1\_3 = 0 Overlaps\_1\_4 = 0 Overlaps\_1\_5 = 0 Overlaps\_1\_6 = 0 Overlaps\_1\_7 = 0 Overlaps\_1\_8 = 0 Overlaps\_2\_0 = 0 Overlaps\_2\_1 = 0 Overlaps\_2\_2 = 0 Overlaps\_2\_3 = 0 Overlaps\_2\_4 = 1 Overlaps\_2\_5 = 0 Overlaps\_2\_6 = 0 Overlaps\_2\_7 = 0 Overlaps\_2\_8 = 0 Overlaps\_3\_0 = 0 Overlaps\_3\_1 = 0 Overlaps\_3\_2 = 0 Overlaps\_3\_3 = 0 Overlaps\_3\_4 = 0 Overlaps\_3\_5 = 0 Overlaps\_3\_6 = 0 Overlaps\_3\_7 = 0 Overlaps\_3\_8 = 0 Overlaps\_4\_0 = 1 Overlaps\_4\_1 = 0 Overlaps\_4\_2 = 0 Overlaps\_4\_3 = 0 Overlaps\_4\_4 = 0 Overlaps\_4\_5 = 0 Overlaps\_4\_6 = 0 Overlaps\_4\_7 = 0 Overlaps\_4\_8 = 0 Overlaps\_5\_0 = 0 Overlaps\_5\_1 = 0 Overlaps\_5\_2 = 0 Overlaps\_5\_3 = 0 Overlaps\_5\_4 = 0 Overlaps\_5\_5 = 0 Overlaps\_5\_6 = 0 Overlaps\_5\_7 = 0 Overlaps\_5\_8 = 0 Overlaps\_6\_0 = 0 Overlaps\_6\_1 = 0 Overlaps\_6\_2 = 0 Overlaps\_6\_3 = 0 Overlaps\_6\_4 = 0 Overlaps\_6\_5 = 0 Overlaps\_6\_6 = 0 Overlaps\_6\_7 = 0 Overlaps\_6\_8 = 0 Overlaps\_7\_0 = 0 Overlaps\_7\_1 = 0 Overlaps\_7\_2 = 0 Overlaps\_7\_3 = 0 Overlaps\_7\_4 = 0 Overlaps\_7\_5 = 0 Overlaps\_7\_6 = 0 Overlaps\_7\_7 = 0 Overlaps\_7\_8 = 0 Overlaps\_8\_0 = 0 Overlaps\_8\_1 = 0 Overlaps\_8\_2 = 0 Overlaps\_8\_3 = 0 Overlaps\_8\_4 = 0 Overlaps\_8\_5 = 0 Overlaps\_8\_6 = 0 Overlaps\_8\_7 = 0 Overlaps\_8\_8 = 0 TMP\_0 = 1 not(TMP\_0) = 0 TMP\_1 = 1 not(TMP\_1) = 0 TMP\_2 = 1 not(TMP\_2) = 0 TMP\_3 = 1 not(TMP\_3) = 0 TMP\_4 = 1 not(TMP\_4) = 0 TMP\_5 = 0 not(TMP\_5) = 1 TMP\_6 = 5 TMP\_7 = 0 not(TMP\_7) = 1 TMP\_8 = 0 not(TMP\_8) = 1 TMP\_9 = 0 TMP\_10 = 1 not(TMP\_10) = 0 TMP\_11 = 1 not(TMP\_11) = 0 TMP\_12 = 2 TMP\_13 = 0 not(TMP\_13) = 1 TMP\_14 = 0 not(TMP\_14) = 1 TMP\_15 = 1 not(TMP\_15) = 0 TMP\_16 = 1 not(TMP\_16) = 0 TMP\_17 = 1 not(TMP\_17) = 0 TMP\_18 = 2 TMP\_19 = 1 not(TMP\_19) = 0 TMP\_20 = 0 not(TMP\_20) = 1 TMP\_21 = 1 not(TMP\_21) = 0 TMP\_22 = 1 not(TMP\_22) = 0 TMP\_23 = 1 not(TMP\_23) = 0 TMP\_24 = 0 not(TMP\_24) = 1 TMP\_25 = 4 TMP\_26 = 0 not(TMP\_26) = 1 TMP\_27 = 0 not(TMP\_27) = 1 TMP\_28 = 0 TMP\_29 = 1 not(TMP\_29) = 0 TMP\_30 = 1 not(TMP\_30) = 0 TMP\_31 = 2 TMP\_32 = 0 not(TMP\_32) = 1 TMP\_33 = 0 not(TMP\_33) = 1 TMP\_34 = 1 not(TMP\_34) = 0 TMP\_35 = 1 not(TMP\_35) = 0 TMP\_36 = 1 not(TMP\_36) = 0 TMP\_37 = 2 TMP\_38 = 1 not(TMP\_38) = 0 TMP\_39 = 0 not(TMP\_39) = 1 TMP\_40 = 1 not(TMP\_40) = 0 TMP\_41 = 1 not(TMP\_41) = 0 TMP\_42 = 1 not(TMP\_42) = 0 TMP\_43 = 1 not(TMP\_43) = 0 TMP\_44 = 5 TMP\_45 = 0 not(TMP\_45) = 1 TMP\_46 = 0 not(TMP\_46) = 1 TMP\_47 = 0 TMP\_48 = 1 not(TMP\_48) = 0 TMP\_49 = 1 not(TMP\_49) = 0 TMP\_50 = 2 TMP\_51 = 0 not(TMP\_51) = 1 TMP\_52 = 0 not(TMP\_52) = 1 TMP\_53 = 1 not(TMP\_53) = 0 TMP\_54 = 1 not(TMP\_54) = 0 TMP\_55 = 1 not(TMP\_55) = 0 TMP\_56 = 2 TMP\_57 = 1 not(TMP\_57) = 0 TMP\_58 = 0 not(TMP\_58) = 1 TMP\_59 = 1 not(TMP\_59) = 0 TMP\_60 = 1 not(TMP\_60) = 0 TMP\_61 = 1 not(TMP\_61) = 0 TMP\_62 = 1 not(TMP\_62) = 0 TMP\_63 = 5 TMP\_64 = 0 not(TMP\_64) = 1 TMP\_65 = 0 not(TMP\_65) = 1 TMP\_66 = 0 TMP\_67 = 1 not(TMP\_67) = 0 TMP\_68 = 1 not(TMP\_68) = 0 TMP\_69 = 2 TMP\_70 = 0 not(TMP\_70) = 1 TMP\_71 = 0 not(TMP\_71) = 1 TMP\_72 = 1 not(TMP\_72) = 0 TMP\_73 = 1 not(TMP\_73) = 0 TMP\_74 = 1 not(TMP\_74) = 0 TMP\_75 = 2 TMP\_76 = 1 not(TMP\_76) = 0 TMP\_77 = 0 not(TMP\_77) = 1 TMP\_78 = 1 not(TMP\_78) = 0 TMP\_79 = 1 not(TMP\_79) = 0 TMP\_80 = 1 not(TMP\_80) = 0 TMP\_81 = 1 not(TMP\_81) = 0 TMP\_82 = 5 TMP\_83 = 0 not(TMP\_83) = 1 TMP\_84 = 0 not(TMP\_84) = 1 TMP\_85 = 0 TMP\_86 = 1 not(TMP\_86) = 0 TMP\_87 = 1 not(TMP\_87) = 0 TMP\_88 = 2 TMP\_89 = 0 not(TMP\_89) = 1 TMP\_90 = 0 not(TMP\_90) = 1 TMP\_91 = 1 not(TMP\_91) = 0 TMP\_92 = 1 not(TMP\_92) = 0 TMP\_93 = 1 not(TMP\_93) = 0 TMP\_94 = 2 TMP\_95 = 1 not(TMP\_95) = 0 TMP\_96 = 0 not(TMP\_96) = 1 TMP\_97 = 1 not(TMP\_97) = 0 TMP\_98 = 1 not(TMP\_98) = 0 TMP\_99 = 1 not(TMP\_99) = 0 TMP\_100 = 1 not(TMP\_100) = 0 TMP\_101 = 5 TMP\_102 = 0 not(TMP\_102) = 1 TMP\_103 = 0 not(TMP\_103) = 1 TMP\_104 = 0 TMP\_105 = 1 not(TMP\_105) = 0 TMP\_106 = 1 not(TMP\_106) = 0 TMP\_107 = 2 TMP\_108 = 0 not(TMP\_108) = 1 TMP\_109 = 0 not(TMP\_109) = 1 TMP\_110 = 1 not(TMP\_110) = 0 TMP\_111 = 1 not(TMP\_111) = 0 TMP\_112 = 1 not(TMP\_112) = 0 TMP\_113 = 2 TMP\_114 = 1 not(TMP\_114) = 0 TMP\_115 = 0 not(TMP\_115) = 1 TMP\_116 = 1 not(TMP\_116) = 0 TMP\_117 = 1 not(TMP\_117) = 0 TMP\_118 = 1 not(TMP\_118) = 0 TMP\_119 = 0 not(TMP\_119) = 1 TMP\_120 = 4 TMP\_121 = 0 not(TMP\_121) = 1 TMP\_122 = 0 not(TMP\_122) = 1 TMP\_123 = 0 TMP\_124 = 1 not(TMP\_124) = 0 TMP\_125 = 1 not(TMP\_125) = 0 TMP\_126 = 2 TMP\_127 = 0 not(TMP\_127) = 1 TMP\_128 = 0 not(TMP\_128) = 1 TMP\_129 = 1 not(TMP\_129) = 0 TMP\_130 = 1 not(TMP\_130) = 0 TMP\_131 = 1 not(TMP\_131) = 0 TMP\_132 = 2 TMP\_133 = 1 not(TMP\_133) = 0 TMP\_134 = 1 not(TMP\_134) = 0 TMP\_135 = 1 not(TMP\_135) = 0 TMP\_136 = 1 not(TMP\_136) = 0 TMP\_137 = 1 not(TMP\_137) = 0 TMP\_138 = 0 not(TMP\_138) = 1 TMP\_139 = 5 TMP\_140 = 0 not(TMP\_140) = 1 TMP\_141 = 0 not(TMP\_141) = 1 TMP\_142 = 0 TMP\_143 = 1 not(TMP\_143) = 0 TMP\_144 = 1 not(TMP\_144) = 0 TMP\_145 = 2 TMP\_146 = 0 not(TMP\_146) = 1 TMP\_147 = 0 not(TMP\_147) = 1 TMP\_148 = 1 not(TMP\_148) = 0 TMP\_149 = 1 not(TMP\_149) = 0 TMP\_150 = 1 not(TMP\_150) = 0 TMP\_151 = 2 TMP\_152 = 0 not(TMP\_152) = 1 TMP\_153 = 1 not(TMP\_153) = 0 TMP\_154 = 1 not(TMP\_154) = 0 TMP\_155 = 1 not(TMP\_155) = 0 TMP\_156 = 1 not(TMP\_156) = 0 TMP\_157 = 0 not(TMP\_157) = 1 TMP\_158 = 4 TMP\_159 = 0 not(TMP\_159) = 1 TMP\_160 = 0 not(TMP\_160) = 1 TMP\_161 = 0 TMP\_162 = 1 not(TMP\_162) = 0 TMP\_163 = 1 not(TMP\_163) = 0 TMP\_164 = 2 TMP\_165 = 0 not(TMP\_165) = 1 TMP\_166 = 0 not(TMP\_166) = 1 TMP\_167 = 1 not(TMP\_167) = 0 TMP\_168 = 1 not(TMP\_168) = 0 TMP\_169 = 1 not(TMP\_169) = 0 TMP\_170 = 2 TMP\_171 = 0 not(TMP\_171) = 1 TMP\_172 = 1 not(TMP\_172) = 0 TMP\_173 = 1 not(TMP\_173) = 0 TMP\_174 = 1 not(TMP\_174) = 0 TMP\_175 = 1 not(TMP\_175) = 0 TMP\_176 = 0 not(TMP\_176) = 1 TMP\_177 = 4 TMP\_178 = 0 not(TMP\_178) = 1 TMP\_179 = 0 not(TMP\_179) = 1 TMP\_180 = 0 TMP\_181 = 1 not(TMP\_181) = 0 TMP\_182 = 1 not(TMP\_182) = 0 TMP\_183 = 2 TMP\_184 = 0 not(TMP\_184) = 1 TMP\_185 = 0 not(TMP\_185) = 1 TMP\_186 = 1 not(TMP\_186) = 0 TMP\_187 = 1 not(TMP\_187) = 0 TMP\_188 = 1 not(TMP\_188) = 0 TMP\_189 = 2 TMP\_190 = 0 not(TMP\_190) = 1 TMP\_191 = 1 not(TMP\_191) = 0 TMP\_192 = 1 not(TMP\_192) = 0 TMP\_193 = 1 not(TMP\_193) = 0 TMP\_194 = 1 not(TMP\_194) = 0 TMP\_195 = 1 not(TMP\_195) = 0 TMP\_196 = 5 TMP\_197 = 0 not(TMP\_197) = 1 TMP\_198 = 0 not(TMP\_198) = 1 TMP\_199 = 0 TMP\_200 = 1 not(TMP\_200) = 0 TMP\_201 = 1 not(TMP\_201) = 0 TMP\_202 = 2 TMP\_203 = 0 not(TMP\_203) = 1 TMP\_204 = 0 not(TMP\_204) = 1 TMP\_205 = 1 not(TMP\_205) = 0 TMP\_206 = 1 not(TMP\_206) = 0 TMP\_207 = 1 not(TMP\_207) = 0 TMP\_208 = 2 TMP\_209 = 0 not(TMP\_209) = 1 TMP\_210 = 1 not(TMP\_210) = 0 TMP\_211 = 1 not(TMP\_211) = 0 TMP\_212 = 1 not(TMP\_212) = 0 TMP\_213 = 1 not(TMP\_213) = 0 TMP\_214 = 1 not(TMP\_214) = 0 TMP\_215 = 5 TMP\_216 = 0 not(TMP\_216) = 1 TMP\_217 = 0 not(TMP\_217) = 1 TMP\_218 = 0 TMP\_219 = 1 not(TMP\_219) = 0 TMP\_220 = 1 not(TMP\_220) = 0 TMP\_221 = 2 TMP\_222 = 0 not(TMP\_222) = 1 TMP\_223 = 0 not(TMP\_223) = 1 TMP\_224 = 1 not(TMP\_224) = 0 TMP\_225 = 1 not(TMP\_225) = 0 TMP\_226 = 1 not(TMP\_226) = 0 TMP\_227 = 2 TMP\_228 = 1 not(TMP\_228) = 0 TMP\_229 = 0 not(TMP\_229) = 1 TMP\_230 = 1 not(TMP\_230) = 0 TMP\_231 = 1 not(TMP\_231) = 0 TMP\_232 = 1 not(TMP\_232) = 0 TMP\_233 = 1 not(TMP\_233) = 0 TMP\_234 = 5 TMP\_235 = 0 not(TMP\_235) = 1 TMP\_236 = 0 not(TMP\_236) = 1 TMP\_237 = 0 TMP\_238 = 1 not(TMP\_238) = 0 TMP\_239 = 1 not(TMP\_239) = 0 TMP\_240 = 2 TMP\_241 = 0 not(TMP\_241) = 1 TMP\_242 = 0 not(TMP\_242) = 1 TMP\_243 = 1 not(TMP\_243) = 0 TMP\_244 = 1 not(TMP\_244) = 0 TMP\_245 = 1 not(TMP\_245) = 0 TMP\_246 = 2 TMP\_247 = 0 not(TMP\_247) = 1 TMP\_248 = 1 not(TMP\_248) = 0 TMP\_249 = 1 not(TMP\_249) = 0 TMP\_250 = 1 not(TMP\_250) = 0 TMP\_251 = 1 not(TMP\_251) = 0 TMP\_252 = 1 not(TMP\_252) = 0 TMP\_253 = 5 TMP\_254 = 0 not(TMP\_254) = 1 TMP\_255 = 0 not(TMP\_255) = 1 TMP\_256 = 0 TMP\_257 = 1 not(TMP\_257) = 0 TMP\_258 = 1 not(TMP\_258) = 0 TMP\_259 = 2 TMP\_260 = 0 not(TMP\_260) = 1 TMP\_261 = 0 not(TMP\_261) = 1 TMP\_262 = 1 not(TMP\_262) = 0 TMP\_263 = 1 not(TMP\_263) = 0 TMP\_264 = 1 not(TMP\_264) = 0 TMP\_265 = 2 TMP\_266 = 1 not(TMP\_266) = 0 TMP\_267 = 1 not(TMP\_267) = 0 TMP\_268 = 1 not(TMP\_268) = 0 TMP\_269 = 1 not(TMP\_269) = 0 TMP\_270 = 1 not(TMP\_270) = 0 TMP\_271 = 0 not(TMP\_271) = 1 TMP\_272 = 5 TMP\_273 = 0 not(TMP\_273) = 1 TMP\_274 = 0 not(TMP\_274) = 1 TMP\_275 = 0 TMP\_276 = 1 not(TMP\_276) = 0 TMP\_277 = 1 not(TMP\_277) = 0 TMP\_278 = 2 TMP\_279 = 0 not(TMP\_279) = 1 TMP\_280 = 0 not(TMP\_280) = 1 TMP\_281 = 1 not(TMP\_281) = 0 TMP\_282 = 1 not(TMP\_282) = 0 TMP\_283 = 1 not(TMP\_283) = 0 TMP\_284 = 2 TMP\_285 = 0 not(TMP\_285) = 1 TMP\_286 = 1 not(TMP\_286) = 0 TMP\_287 = 1 not(TMP\_287) = 0 TMP\_288 = 1 not(TMP\_288) = 0 TMP\_289 = 1 not(TMP\_289) = 0 TMP\_290 = 0 not(TMP\_290) = 1 TMP\_291 = 4 TMP\_292 = 0 not(TMP\_292) = 1 TMP\_293 = 0 not(TMP\_293) = 1 TMP\_294 = 0 TMP\_295 = 1 not(TMP\_295) = 0 TMP\_296 = 1 not(TMP\_296) = 0 TMP\_297 = 2 TMP\_298 = 0 not(TMP\_298) = 1 TMP\_299 = 0 not(TMP\_299) = 1 TMP\_300 = 1 not(TMP\_300) = 0 TMP\_301 = 1 not(TMP\_301) = 0 TMP\_302 = 1 not(TMP\_302) = 0 TMP\_303 = 2 TMP\_304 = 0 not(TMP\_304) = 1 TMP\_305 = 1 not(TMP\_305) = 0 TMP\_306 = 1 not(TMP\_306) = 0 TMP\_307 = 1 not(TMP\_307) = 0 TMP\_308 = 1 not(TMP\_308) = 0 TMP\_309 = 1 not(TMP\_309) = 0 TMP\_310 = 5 TMP\_311 = 0 not(TMP\_311) = 1 TMP\_312 = 0 not(TMP\_312) = 1 TMP\_313 = 0 TMP\_314 = 1 not(TMP\_314) = 0 TMP\_315 = 1 not(TMP\_315) = 0 TMP\_316 = 2 TMP\_317 = 0 not(TMP\_317) = 1 TMP\_318 = 0 not(TMP\_318) = 1 TMP\_319 = 1 not(TMP\_319) = 0 TMP\_320 = 1 not(TMP\_320) = 0 TMP\_321 = 1 not(TMP\_321) = 0 TMP\_322 = 2 TMP\_323 = 0 not(TMP\_323) = 1 TMP\_324 = 1 not(TMP\_324) = 0 TMP\_325 = 1 not(TMP\_325) = 0 TMP\_326 = 1 not(TMP\_326) = 0 TMP\_327 = 1 not(TMP\_327) = 0 TMP\_328 = 1 not(TMP\_328) = 0 TMP\_329 = 5 TMP\_330 = 0 not(TMP\_330) = 1 TMP\_331 = 0 not(TMP\_331) = 1 TMP\_332 = 0 TMP\_333 = 1 not(TMP\_333) = 0 TMP\_334 = 1 not(TMP\_334) = 0 TMP\_335 = 2 TMP\_336 = 0 not(TMP\_336) = 1 TMP\_337 = 0 not(TMP\_337) = 1 TMP\_338 = 1 not(TMP\_338) = 0 TMP\_339 = 1 not(TMP\_339) = 0 TMP\_340 = 1 not(TMP\_340) = 0 TMP\_341 = 2 TMP\_342 = 0 not(TMP\_342) = 1 TMP\_343 = 1 not(TMP\_343) = 0 TMP\_344 = 1 not(TMP\_344) = 0 TMP\_345 = 1 not(TMP\_345) = 0 TMP\_346 = 0 not(TMP\_346) = 1 TMP\_347 = 1 not(TMP\_347) = 0 TMP\_348 = 4 TMP\_349 = 0 not(TMP\_349) = 1 TMP\_350 = 0 not(TMP\_350) = 1 TMP\_351 = 0 TMP\_352 = 1 not(TMP\_352) = 0 TMP\_353 = 1 not(TMP\_353) = 0 TMP\_354 = 2 TMP\_355 = 0 not(TMP\_355) = 1 TMP\_356 = 0 not(TMP\_356) = 1 TMP\_357 = 1 not(TMP\_357) = 0 TMP\_358 = 1 not(TMP\_358) = 0 TMP\_359 = 1 not(TMP\_359) = 0 TMP\_360 = 2 TMP\_361 = 0 not(TMP\_361) = 1 TMP\_362 = 1 not(TMP\_362) = 0 TMP\_363 = 1 not(TMP\_363) = 0 TMP\_364 = 1 not(TMP\_364) = 0 TMP\_365 = 0 not(TMP\_365) = 1 TMP\_366 = 1 not(TMP\_366) = 0 TMP\_367 = 4 TMP\_368 = 0 not(TMP\_368) = 1 TMP\_369 = 0 not(TMP\_369) = 1 TMP\_370 = 0 TMP\_371 = 1 not(TMP\_371) = 0 TMP\_372 = 1 not(TMP\_372) = 0 TMP\_373 = 2 TMP\_374 = 0 not(TMP\_374) = 1 TMP\_375 = 0 not(TMP\_375) = 1 TMP\_376 = 1 not(TMP\_376) = 0 TMP\_377 = 1 not(TMP\_377) = 0 TMP\_378 = 1 not(TMP\_378) = 0 TMP\_379 = 2 TMP\_380 = 1 not(TMP\_380) = 0 TMP\_381 = 1 not(TMP\_381) = 0 TMP\_382 = 1 not(TMP\_382) = 0 TMP\_383 = 1 not(TMP\_383) = 0 TMP\_384 = 0 not(TMP\_384) = 1 TMP\_385 = 1 not(TMP\_385) = 0 TMP\_386 = 5 TMP\_387 = 0 not(TMP\_387) = 1 TMP\_388 = 0 not(TMP\_388) = 1 TMP\_389 = 0 TMP\_390 = 1 not(TMP\_390) = 0 TMP\_391 = 1 not(TMP\_391) = 0 TMP\_392 = 2 TMP\_393 = 0 not(TMP\_393) = 1 TMP\_394 = 0 not(TMP\_394) = 1 TMP\_395 = 1 not(TMP\_395) = 0 TMP\_396 = 1 not(TMP\_396) = 0 TMP\_397 = 1 not(TMP\_397) = 0 TMP\_398 = 2 TMP\_399 = 0 not(TMP\_399) = 1 TMP\_400 = 1 not(TMP\_400) = 0 TMP\_401 = 1 not(TMP\_401) = 0 TMP\_402 = 1 not(TMP\_402) = 0 TMP\_403 = 0 not(TMP\_403) = 1 TMP\_404 = 1 not(TMP\_404) = 0 TMP\_405 = 4 TMP\_406 = 0 not(TMP\_406) = 1 TMP\_407 = 0 not(TMP\_407) = 1 TMP\_408 = 0 TMP\_409 = 1 not(TMP\_409) = 0 TMP\_410 = 1 not(TMP\_410) = 0 TMP\_411 = 2 TMP\_412 = 0 not(TMP\_412) = 1 TMP\_413 = 0 not(TMP\_413) = 1 TMP\_414 = 1 not(TMP\_414) = 0 TMP\_415 = 1 not(TMP\_415) = 0 TMP\_416 = 1 not(TMP\_416) = 0 TMP\_417 = 2 TMP\_418 = 1 not(TMP\_418) = 0 TMP\_419 = 1 not(TMP\_419) = 0 TMP\_420 = 1 not(TMP\_420) = 0 TMP\_421 = 1 not(TMP\_421) = 0 TMP\_422 = 0 not(TMP\_422) = 1 TMP\_423 = 1 not(TMP\_423) = 0 TMP\_424 = 5 TMP\_425 = 0 not(TMP\_425) = 1 TMP\_426 = 0 not(TMP\_426) = 1 TMP\_427 = 0 TMP\_428 = 1 not(TMP\_428) = 0 TMP\_429 = 1 not(TMP\_429) = 0 TMP\_430 = 2 TMP\_431 = 0 not(TMP\_431) = 1 TMP\_432 = 0 not(TMP\_432) = 1 TMP\_433 = 1 not(TMP\_433) = 0 TMP\_434 = 1 not(TMP\_434) = 0 TMP\_435 = 1 not(TMP\_435) = 0 TMP\_436 = 2 TMP\_437 = 0 not(TMP\_437) = 1 TMP\_438 = 1 not(TMP\_438) = 0 TMP\_439 = 1 not(TMP\_439) = 0 TMP\_440 = 1 not(TMP\_440) = 0 TMP\_441 = 1 not(TMP\_441) = 0 TMP\_442 = 1 not(TMP\_442) = 0 TMP\_443 = 5 TMP\_444 = 0 not(TMP\_444) = 1 TMP\_445 = 0 not(TMP\_445) = 1 TMP\_446 = 0 TMP\_447 = 1 not(TMP\_447) = 0 TMP\_448 = 1 not(TMP\_448) = 0 TMP\_449 = 2 TMP\_450 = 0 not(TMP\_450) = 1 TMP\_451 = 0 not(TMP\_451) = 1 TMP\_452 = 1 not(TMP\_452) = 0 TMP\_453 = 1 not(TMP\_453) = 0 TMP\_454 = 1 not(TMP\_454) = 0 TMP\_455 = 2 TMP\_456 = 0 not(TMP\_456) = 1 TMP\_457 = 1 not(TMP\_457) = 0 TMP\_458 = 1 not(TMP\_458) = 0 TMP\_459 = 1 not(TMP\_459) = 0 TMP\_460 = 1 not(TMP\_460) = 0 TMP\_461 = 1 not(TMP\_461) = 0 TMP\_462 = 5 TMP\_463 = 0 not(TMP\_463) = 1 TMP\_464 = 0 not(TMP\_464) = 1 TMP\_465 = 0 TMP\_466 = 1 not(TMP\_466) = 0 TMP\_467 = 1 not(TMP\_467) = 0 TMP\_468 = 2 TMP\_469 = 0 not(TMP\_469) = 1 TMP\_470 = 0 not(TMP\_470) = 1 TMP\_471 = 1 not(TMP\_471) = 0 TMP\_472 = 1 not(TMP\_472) = 0 TMP\_473 = 1 not(TMP\_473) = 0 TMP\_474 = 2 TMP\_475 = 1 not(TMP\_475) = 0 TMP\_476 = 0 not(TMP\_476) = 1 TMP\_477 = 1 not(TMP\_477) = 0 TMP\_478 = 1 not(TMP\_478) = 0 TMP\_479 = 1 not(TMP\_479) = 0 TMP\_480 = 1 not(TMP\_480) = 0 TMP\_481 = 5 TMP\_482 = 0 not(TMP\_482) = 1 TMP\_483 = 0 not(TMP\_483) = 1 TMP\_484 = 0 TMP\_485 = 1 not(TMP\_485) = 0 TMP\_486 = 1 not(TMP\_486) = 0 TMP\_487 = 2 TMP\_488 = 0 not(TMP\_488) = 1 TMP\_489 = 0 not(TMP\_489) = 1 TMP\_490 = 1 not(TMP\_490) = 0 TMP\_491 = 1 not(TMP\_491) = 0 TMP\_492 = 1 not(TMP\_492) = 0 TMP\_493 = 2 TMP\_494 = 1 not(TMP\_494) = 0 TMP\_495 = 0 not(TMP\_495) = 1 TMP\_496 = 1 not(TMP\_496) = 0 TMP\_497 = 1 not(TMP\_497) = 0 TMP\_498 = 0 not(TMP\_498) = 1 TMP\_499 = 1 not(TMP\_499) = 0 TMP\_500 = 4 TMP\_501 = 0 not(TMP\_501) = 1 TMP\_502 = 0 not(TMP\_502) = 1 TMP\_503 = 0 TMP\_504 = 1 not(TMP\_504) = 0 TMP\_505 = 1 not(TMP\_505) = 0 TMP\_506 = 2 TMP\_507 = 0 not(TMP\_507) = 1 TMP\_508 = 0 not(TMP\_508) = 1 TMP\_509 = 1 not(TMP\_509) = 0 TMP\_510 = 1 not(TMP\_510) = 0 TMP\_511 = 1 not(TMP\_511) = 0 TMP\_512 = 2 TMP\_513 = 1 not(TMP\_513) = 0 TMP\_514 = 0 not(TMP\_514) = 1 TMP\_515 = 1 not(TMP\_515) = 0 TMP\_516 = 1 not(TMP\_516) = 0 TMP\_517 = 0 not(TMP\_517) = 1 TMP\_518 = 1 not(TMP\_518) = 0 TMP\_519 = 4 TMP\_520 = 0 not(TMP\_520) = 1 TMP\_521 = 0 not(TMP\_521) = 1 TMP\_522 = 0 TMP\_523 = 1 not(TMP\_523) = 0 TMP\_524 = 1 not(TMP\_524) = 0 TMP\_525 = 2 TMP\_526 = 0 not(TMP\_526) = 1 TMP\_527 = 0 not(TMP\_527) = 1 TMP\_528 = 1 not(TMP\_528) = 0 TMP\_529 = 1 not(TMP\_529) = 0 TMP\_530 = 1 not(TMP\_530) = 0 TMP\_531 = 2 TMP\_532 = 1 not(TMP\_532) = 0 TMP\_533 = 0 not(TMP\_533) = 1 TMP\_534 = 1 not(TMP\_534) = 0 TMP\_535 = 1 not(TMP\_535) = 0 TMP\_536 = 0 not(TMP\_536) = 1 TMP\_537 = 1 not(TMP\_537) = 0 TMP\_538 = 4 TMP\_539 = 0 not(TMP\_539) = 1 TMP\_540 = 0 not(TMP\_540) = 1 TMP\_541 = 0 TMP\_542 = 1 not(TMP\_542) = 0 TMP\_543 = 1 not(TMP\_543) = 0 TMP\_544 = 2 TMP\_545 = 0 not(TMP\_545) = 1 TMP\_546 = 0 not(TMP\_546) = 1 TMP\_547 = 1 not(TMP\_547) = 0 TMP\_548 = 1 not(TMP\_548) = 0 TMP\_549 = 1 not(TMP\_549) = 0 TMP\_550 = 2 TMP\_551 = 1 not(TMP\_551) = 0 TMP\_552 = 1 not(TMP\_552) = 0 TMP\_553 = 1 not(TMP\_553) = 0 TMP\_554 = 1 not(TMP\_554) = 0 TMP\_555 = 0 not(TMP\_555) = 1 TMP\_556 = 1 not(TMP\_556) = 0 TMP\_557 = 5 TMP\_558 = 0 not(TMP\_558) = 1 TMP\_559 = 0 not(TMP\_559) = 1 TMP\_560 = 0 TMP\_561 = 1 not(TMP\_561) = 0 TMP\_562 = 1 not(TMP\_562) = 0 TMP\_563 = 2 TMP\_564 = 0 not(TMP\_564) = 1 TMP\_565 = 0 not(TMP\_565) = 1 TMP\_566 = 1 not(TMP\_566) = 0 TMP\_567 = 1 not(TMP\_567) = 0 TMP\_568 = 1 not(TMP\_568) = 0 TMP\_569 = 2 TMP\_570 = 1 not(TMP\_570) = 0 TMP\_571 = 0 not(TMP\_571) = 1 TMP\_572 = 1 not(TMP\_572) = 0 TMP\_573 = 1 not(TMP\_573) = 0 TMP\_574 = 0 not(TMP\_574) = 1 TMP\_575 = 1 not(TMP\_575) = 0 TMP\_576 = 4 TMP\_577 = 0 not(TMP\_577) = 1 TMP\_578 = 0 not(TMP\_578) = 1 TMP\_579 = 0 TMP\_580 = 1 not(TMP\_580) = 0 TMP\_581 = 1 not(TMP\_581) = 0 TMP\_582 = 2 TMP\_583 = 0 not(TMP\_583) = 1 TMP\_584 = 0 not(TMP\_584) = 1 TMP\_585 = 1 not(TMP\_585) = 0 TMP\_586 = 1 not(TMP\_586) = 0 TMP\_587 = 1 not(TMP\_587) = 0 TMP\_588 = 2 TMP\_589 = 1 not(TMP\_589) = 0 TMP\_590 = 0 not(TMP\_590) = 1 TMP\_591 = 1 not(TMP\_591) = 0 TMP\_592 = 1 not(TMP\_592) = 0 TMP\_593 = 1 not(TMP\_593) = 0 TMP\_594 = 1 not(TMP\_594) = 0 TMP\_595 = 5 TMP\_596 = 0 not(TMP\_596) = 1 TMP\_597 = 0 not(TMP\_597) = 1 TMP\_598 = 0 TMP\_599 = 1 not(TMP\_599) = 0 TMP\_600 = 1 not(TMP\_600) = 0 TMP\_601 = 2 TMP\_602 = 0 not(TMP\_602) = 1 TMP\_603 = 0 not(TMP\_603) = 1 TMP\_604 = 1 not(TMP\_604) = 0 TMP\_605 = 1 not(TMP\_605) = 0 TMP\_606 = 1 not(TMP\_606) = 0 TMP\_607 = 2 Area\_0 = 60 Distance\_0\_Rule\_0 = 20 Distance\_1\_Rule\_0 = 3 Distance\_2\_Rule\_0 = 1 Area\_1 = 174 Distance\_0\_Rule\_1 = 58 Distance\_1\_Rule\_1 = 3 Distance\_2\_Rule\_1 = 1 Area\_2 = 116 Distance\_0\_Rule\_2 = 58 Distance\_1\_Rule\_2 = 2 Distance\_2\_Rule\_2 = 1 Area\_3 = 58 Distance\_0\_Rule\_3 = 58 Distance\_1\_Rule\_3 = 1 Distance\_2\_Rule\_3 = 1 Area\_4 = 120 Distance\_0\_Rule\_4 = 40 Distance\_1\_Rule\_4 = 3 Distance\_2\_Rule\_4 = 1 Area\_5 = 63 -(Rule\_5\_LB) = 0 Distance\_0\_Rule\_5 = 21 -(Rule\_5\_LB) = 0 Distance\_1\_Rule\_5 = 3 -(Rule\_5\_LB) = 0 Distance\_2\_Rule\_5 = 1 Area\_6 = 3 -(Rule\_6\_LB) = -79 Distance\_0\_Rule\_6 = 1 -(Rule\_6\_LB) = 0 Distance\_1\_Rule\_6 = 3 -(Rule\_6\_LB) = 0 Distance\_2\_Rule\_6 = 1 Area\_7 = 123 -(Rule\_7\_LB) = -79 Distance\_0\_Rule\_7 = 41 -(Rule\_7\_LB) = 0 Distance\_1\_Rule\_7 = 3 -(Rule\_7\_LB) = -1 Distance\_2\_Rule\_7 = 1 Area\_8 = 3 -(Rule\_8\_LB) = -20 Distance\_0\_Rule\_8 = 1 -(Rule\_8\_LB) = 0 Distance\_1\_Rule\_8 = 3 -(Rule\_8\_LB) = -1 Distance\_2\_Rule\_8 = 1 TMP\_608 = 720 .

- Solution #15 found. 15 Solutions, Resolution 1.106s, 2313 Nodes (2,091.8 n/s), 4539 Backtracks, 2261 Fails, 0 Restarts

Rule\_5\_LB = 0 Rule\_5\_UB = 21 Rule\_5\_LB = 0 Rule\_5\_UB = 3 Rule\_5\_LB = 0 Rule\_5\_UB = 1 Rule\_6\_LB = 79 Rule\_6\_UB = 80 Rule\_6\_LB = 0 Rule\_6\_UB = 3 Rule\_6\_LB = 0 Rule\_6\_UB = 1 Rule\_7\_LB = 79 Rule\_7\_UB = 120 Rule\_7\_LB = 0 Rule\_7\_UB = 3 Rule\_7\_LB = 1 Rule\_7\_UB = 2 Rule\_8\_LB = 20 Rule\_8\_UB = 21 Rule\_8\_LB = 0 Rule\_8\_UB = 3 Rule\_8\_LB = 1 Rule\_8\_UB = 2 Overlaps\_0\_0 = 0 Overlaps\_0\_1 = 1 Overlaps\_0\_2 = 0 Overlaps\_0\_3 = 0 Overlaps\_0\_4 = 0 Overlaps\_0\_5 = 0 Overlaps\_0\_6 = 0 Overlaps\_0\_7 = 0 Overlaps\_0\_8 = 0 Overlaps\_1\_0 = 0 Overlaps\_1\_1 = 0 Overlaps\_1\_2 = 0 Overlaps\_1\_3 = 0 Overlaps\_1\_4 = 0 Overlaps\_1\_5 = 0 Overlaps\_1\_6 = 0 Overlaps\_1\_7 = 0 Overlaps\_1\_8 = 0 Overlaps\_2\_0 = 0 Overlaps\_2\_1 = 0 Overlaps\_2\_2 = 0 Overlaps\_2\_3 = 0 Overlaps\_2\_4 = 1 Overlaps\_2\_5 = 0 Overlaps\_2\_6 = 0 Overlaps\_2\_7 = 0 Overlaps\_2\_8 = 0 Overlaps\_3\_0 = 0 Overlaps\_3\_1 = 1 Overlaps\_3\_2 = 0 Overlaps\_3\_3 = 0 Overlaps\_3\_4 = 0 Overlaps\_3\_5 = 0 Overlaps\_3\_6 = 0 Overlaps\_3\_7 = 0 Overlaps\_3\_8 = 0 Overlaps\_4\_0 = 0 Overlaps\_4\_1 = 0 Overlaps\_4\_2 = 0 Overlaps\_4\_3 = 0 Overlaps\_4\_4 = 0 Overlaps\_4\_5 = 0 Overlaps\_4\_6 = 0 Overlaps\_4\_7 = 0 Overlaps\_4\_8 = 0 Overlaps\_5\_0 = 0 Overlaps\_5\_1 = 0 Overlaps\_5\_2 = 0 Overlaps\_5\_3 = 0 Overlaps\_5\_4 = 0 Overlaps\_5\_5 = 0 Overlaps\_5\_6 = 0 Overlaps\_5\_7 = 0 Overlaps\_5\_8 = 0 Overlaps\_6\_0 = 0 Overlaps\_6\_1 = 0 Overlaps\_6\_2 = 0 Overlaps\_6\_3 = 0 Overlaps\_6\_4 = 0 Overlaps\_6\_5 = 0 Overlaps\_6\_6 = 0 Overlaps\_6\_7 = 0 Overlaps\_6\_8 = 0 Overlaps\_7\_0 = 0 Overlaps\_7\_1 = 0 Overlaps\_7\_2 = 0 Overlaps\_7\_3 = 0 Overlaps\_7\_4 = 0 Overlaps\_7\_5 = 0 Overlaps\_7\_6 = 0 Overlaps\_7\_7 = 0 Overlaps\_7\_8 = 0 Overlaps\_8\_0 = 0 Overlaps\_8\_1 = 0 Overlaps\_8\_2 = 0 Overlaps\_8\_3 = 0 Overlaps\_8\_4 = 0 Overlaps\_8\_5 = 0 Overlaps\_8\_6 = 0 Overlaps\_8\_7 = 0 Overlaps\_8\_8 = 0 TMP\_0 = 1 not(TMP\_0) = 0 TMP\_1 = 1 not(TMP\_1) = 0 TMP\_2 = 1 not(TMP\_2) = 0 TMP\_3 = 1 not(TMP\_3) = 0 TMP\_4 = 1 not(TMP\_4) = 0 TMP\_5 = 0 not(TMP\_5) = 1 TMP\_6 = 5 TMP\_7 = 0 not(TMP\_7) = 1 TMP\_8 = 0 not(TMP\_8) = 1 TMP\_9 = 0 TMP\_10 = 1 not(TMP\_10) = 0 TMP\_11 = 1 not(TMP\_11) = 0 TMP\_12 = 2 TMP\_13 = 0 not(TMP\_13) = 1 TMP\_14 = 0 not(TMP\_14) = 1 TMP\_15 = 1 not(TMP\_15) = 0 TMP\_16 = 1 not(TMP\_16) = 0 TMP\_17 = 1 not(TMP\_17) = 0 TMP\_18 = 2 TMP\_19 = 1 not(TMP\_19) = 0 TMP\_20 = 0 not(TMP\_20) = 1 TMP\_21 = 1 not(TMP\_21) = 0 TMP\_22 = 1 not(TMP\_22) = 0 TMP\_23 = 1 not(TMP\_23) = 0 TMP\_24 = 0 not(TMP\_24) = 1 TMP\_25 = 4 TMP\_26 = 0 not(TMP\_26) = 1 TMP\_27 = 0 not(TMP\_27) = 1 TMP\_28 = 0 TMP\_29 = 1 not(TMP\_29) = 0 TMP\_30 = 1 not(TMP\_30) = 0 TMP\_31 = 2 TMP\_32 = 0 not(TMP\_32) = 1 TMP\_33 = 0 not(TMP\_33) = 1 TMP\_34 = 1 not(TMP\_34) = 0 TMP\_35 = 1 not(TMP\_35) = 0 TMP\_36 = 1 not(TMP\_36) = 0 TMP\_37 = 2 TMP\_38 = 1 not(TMP\_38) = 0 TMP\_39 = 0 not(TMP\_39) = 1 TMP\_40 = 1 not(TMP\_40) = 0 TMP\_41 = 1 not(TMP\_41) = 0 TMP\_42 = 1 not(TMP\_42) = 0 TMP\_43 = 1 not(TMP\_43) = 0 TMP\_44 = 5 TMP\_45 = 0 not(TMP\_45) = 1 TMP\_46 = 0 not(TMP\_46) = 1 TMP\_47 = 0 TMP\_48 = 1 not(TMP\_48) = 0 TMP\_49 = 1 not(TMP\_49) = 0 TMP\_50 = 2 TMP\_51 = 0 not(TMP\_51) = 1 TMP\_52 = 0 not(TMP\_52) = 1 TMP\_53 = 1 not(TMP\_53) = 0 TMP\_54 = 1 not(TMP\_54) = 0 TMP\_55 = 1 not(TMP\_55) = 0 TMP\_56 = 2 TMP\_57 = 1 not(TMP\_57) = 0 TMP\_58 = 0 not(TMP\_58) = 1 TMP\_59 = 1 not(TMP\_59) = 0 TMP\_60 = 1 not(TMP\_60) = 0 TMP\_61 = 1 not(TMP\_61) = 0 TMP\_62 = 1 not(TMP\_62) = 0 TMP\_63 = 5 TMP\_64 = 0 not(TMP\_64) = 1 TMP\_65 = 0 not(TMP\_65) = 1 TMP\_66 = 0 TMP\_67 = 1 not(TMP\_67) = 0 TMP\_68 = 1 not(TMP\_68) = 0 TMP\_69 = 2 TMP\_70 = 0 not(TMP\_70) = 1 TMP\_71 = 0 not(TMP\_71) = 1 TMP\_72 = 1 not(TMP\_72) = 0 TMP\_73 = 1 not(TMP\_73) = 0 TMP\_74 = 1 not(TMP\_74) = 0 TMP\_75 = 2 TMP\_76 = 1 not(TMP\_76) = 0 TMP\_77 = 0 not(TMP\_77) = 1 TMP\_78 = 1 not(TMP\_78) = 0 TMP\_79 = 1 not(TMP\_79) = 0 TMP\_80 = 1 not(TMP\_80) = 0 TMP\_81 = 1 not(TMP\_81) = 0 TMP\_82 = 5 TMP\_83 = 0 not(TMP\_83) = 1 TMP\_84 = 0 not(TMP\_84) = 1 TMP\_85 = 0 TMP\_86 = 1 not(TMP\_86) = 0 TMP\_87 = 1 not(TMP\_87) = 0 TMP\_88 = 2 TMP\_89 = 0 not(TMP\_89) = 1 TMP\_90 = 0 not(TMP\_90) = 1 TMP\_91 = 1 not(TMP\_91) = 0 TMP\_92 = 1 not(TMP\_92) = 0 TMP\_93 = 1 not(TMP\_93) = 0 TMP\_94 = 2 TMP\_95 = 1 not(TMP\_95) = 0 TMP\_96 = 0 not(TMP\_96) = 1 TMP\_97 = 1 not(TMP\_97) = 0 TMP\_98 = 1 not(TMP\_98) = 0 TMP\_99 = 1 not(TMP\_99) = 0 TMP\_100 = 1 not(TMP\_100) = 0 TMP\_101 = 5 TMP\_102 = 0 not(TMP\_102) = 1 TMP\_103 = 0 not(TMP\_103) = 1 TMP\_104 = 0 TMP\_105 = 1 not(TMP\_105) = 0 TMP\_106 = 1 not(TMP\_106) = 0 TMP\_107 = 2 TMP\_108 = 0 not(TMP\_108) = 1 TMP\_109 = 0 not(TMP\_109) = 1 TMP\_110 = 1 not(TMP\_110) = 0 TMP\_111 = 1 not(TMP\_111) = 0 TMP\_112 = 1 not(TMP\_112) = 0 TMP\_113 = 2 TMP\_114 = 1 not(TMP\_114) = 0 TMP\_115 = 0 not(TMP\_115) = 1 TMP\_116 = 1 not(TMP\_116) = 0 TMP\_117 = 1 not(TMP\_117) = 0 TMP\_118 = 1 not(TMP\_118) = 0 TMP\_119 = 0 not(TMP\_119) = 1 TMP\_120 = 4 TMP\_121 = 0 not(TMP\_121) = 1 TMP\_122 = 0 not(TMP\_122) = 1 TMP\_123 = 0 TMP\_124 = 1 not(TMP\_124) = 0 TMP\_125 = 1 not(TMP\_125) = 0 TMP\_126 = 2 TMP\_127 = 0 not(TMP\_127) = 1 TMP\_128 = 0 not(TMP\_128) = 1 TMP\_129 = 1 not(TMP\_129) = 0 TMP\_130 = 1 not(TMP\_130) = 0 TMP\_131 = 1 not(TMP\_131) = 0 TMP\_132 = 2 TMP\_133 = 1 not(TMP\_133) = 0 TMP\_134 = 1 not(TMP\_134) = 0 TMP\_135 = 1 not(TMP\_135) = 0 TMP\_136 = 1 not(TMP\_136) = 0 TMP\_137 = 1 not(TMP\_137) = 0 TMP\_138 = 0 not(TMP\_138) = 1 TMP\_139 = 5 TMP\_140 = 0 not(TMP\_140) = 1 TMP\_141 = 0 not(TMP\_141) = 1 TMP\_142 = 0 TMP\_143 = 1 not(TMP\_143) = 0 TMP\_144 = 1 not(TMP\_144) = 0 TMP\_145 = 2 TMP\_146 = 0 not(TMP\_146) = 1 TMP\_147 = 0 not(TMP\_147) = 1 TMP\_148 = 1 not(TMP\_148) = 0 TMP\_149 = 1 not(TMP\_149) = 0 TMP\_150 = 1 not(TMP\_150) = 0 TMP\_151 = 2 TMP\_152 = 0 not(TMP\_152) = 1 TMP\_153 = 1 not(TMP\_153) = 0 TMP\_154 = 1 not(TMP\_154) = 0 TMP\_155 = 1 not(TMP\_155) = 0 TMP\_156 = 1 not(TMP\_156) = 0 TMP\_157 = 0 not(TMP\_157) = 1 TMP\_158 = 4 TMP\_159 = 0 not(TMP\_159) = 1 TMP\_160 = 0 not(TMP\_160) = 1 TMP\_161 = 0 TMP\_162 = 1 not(TMP\_162) = 0 TMP\_163 = 1 not(TMP\_163) = 0 TMP\_164 = 2 TMP\_165 = 0 not(TMP\_165) = 1 TMP\_166 = 0 not(TMP\_166) = 1 TMP\_167 = 1 not(TMP\_167) = 0 TMP\_168 = 1 not(TMP\_168) = 0 TMP\_169 = 1 not(TMP\_169) = 0 TMP\_170 = 2 TMP\_171 = 0 not(TMP\_171) = 1 TMP\_172 = 1 not(TMP\_172) = 0 TMP\_173 = 1 not(TMP\_173) = 0 TMP\_174 = 1 not(TMP\_174) = 0 TMP\_175 = 1 not(TMP\_175) = 0 TMP\_176 = 0 not(TMP\_176) = 1 TMP\_177 = 4 TMP\_178 = 0 not(TMP\_178) = 1 TMP\_179 = 0 not(TMP\_179) = 1 TMP\_180 = 0 TMP\_181 = 1 not(TMP\_181) = 0 TMP\_182 = 1 not(TMP\_182) = 0 TMP\_183 = 2 TMP\_184 = 0 not(TMP\_184) = 1 TMP\_185 = 0 not(TMP\_185) = 1 TMP\_186 = 1 not(TMP\_186) = 0 TMP\_187 = 1 not(TMP\_187) = 0 TMP\_188 = 1 not(TMP\_188) = 0 TMP\_189 = 2 TMP\_190 = 0 not(TMP\_190) = 1 TMP\_191 = 1 not(TMP\_191) = 0 TMP\_192 = 1 not(TMP\_192) = 0 TMP\_193 = 1 not(TMP\_193) = 0 TMP\_194 = 1 not(TMP\_194) = 0 TMP\_195 = 1 not(TMP\_195) = 0 TMP\_196 = 5 TMP\_197 = 0 not(TMP\_197) = 1 TMP\_198 = 0 not(TMP\_198) = 1 TMP\_199 = 0 TMP\_200 = 1 not(TMP\_200) = 0 TMP\_201 = 1 not(TMP\_201) = 0 TMP\_202 = 2 TMP\_203 = 0 not(TMP\_203) = 1 TMP\_204 = 0 not(TMP\_204) = 1 TMP\_205 = 1 not(TMP\_205) = 0 TMP\_206 = 1 not(TMP\_206) = 0 TMP\_207 = 1 not(TMP\_207) = 0 TMP\_208 = 2 TMP\_209 = 0 not(TMP\_209) = 1 TMP\_210 = 1 not(TMP\_210) = 0 TMP\_211 = 1 not(TMP\_211) = 0 TMP\_212 = 1 not(TMP\_212) = 0 TMP\_213 = 1 not(TMP\_213) = 0 TMP\_214 = 1 not(TMP\_214) = 0 TMP\_215 = 5 TMP\_216 = 0 not(TMP\_216) = 1 TMP\_217 = 0 not(TMP\_217) = 1 TMP\_218 = 0 TMP\_219 = 1 not(TMP\_219) = 0 TMP\_220 = 1 not(TMP\_220) = 0 TMP\_221 = 2 TMP\_222 = 0 not(TMP\_222) = 1 TMP\_223 = 0 not(TMP\_223) = 1 TMP\_224 = 1 not(TMP\_224) = 0 TMP\_225 = 1 not(TMP\_225) = 0 TMP\_226 = 1 not(TMP\_226) = 0 TMP\_227 = 2 TMP\_228 = 1 not(TMP\_228) = 0 TMP\_229 = 0 not(TMP\_229) = 1 TMP\_230 = 1 not(TMP\_230) = 0 TMP\_231 = 1 not(TMP\_231) = 0 TMP\_232 = 1 not(TMP\_232) = 0 TMP\_233 = 1 not(TMP\_233) = 0 TMP\_234 = 5 TMP\_235 = 0 not(TMP\_235) = 1 TMP\_236 = 0 not(TMP\_236) = 1 TMP\_237 = 0 TMP\_238 = 1 not(TMP\_238) = 0 TMP\_239 = 1 not(TMP\_239) = 0 TMP\_240 = 2 TMP\_241 = 0 not(TMP\_241) = 1 TMP\_242 = 0 not(TMP\_242) = 1 TMP\_243 = 1 not(TMP\_243) = 0 TMP\_244 = 1 not(TMP\_244) = 0 TMP\_245 = 1 not(TMP\_245) = 0 TMP\_246 = 2 TMP\_247 = 0 not(TMP\_247) = 1 TMP\_248 = 1 not(TMP\_248) = 0 TMP\_249 = 1 not(TMP\_249) = 0 TMP\_250 = 1 not(TMP\_250) = 0 TMP\_251 = 1 not(TMP\_251) = 0 TMP\_252 = 1 not(TMP\_252) = 0 TMP\_253 = 5 TMP\_254 = 0 not(TMP\_254) = 1 TMP\_255 = 0 not(TMP\_255) = 1 TMP\_256 = 0 TMP\_257 = 1 not(TMP\_257) = 0 TMP\_258 = 1 not(TMP\_258) = 0 TMP\_259 = 2 TMP\_260 = 0 not(TMP\_260) = 1 TMP\_261 = 0 not(TMP\_261) = 1 TMP\_262 = 1 not(TMP\_262) = 0 TMP\_263 = 1 not(TMP\_263) = 0 TMP\_264 = 1 not(TMP\_264) = 0 TMP\_265 = 2 TMP\_266 = 1 not(TMP\_266) = 0 TMP\_267 = 1 not(TMP\_267) = 0 TMP\_268 = 1 not(TMP\_268) = 0 TMP\_269 = 1 not(TMP\_269) = 0 TMP\_270 = 1 not(TMP\_270) = 0 TMP\_271 = 0 not(TMP\_271) = 1 TMP\_272 = 5 TMP\_273 = 0 not(TMP\_273) = 1 TMP\_274 = 0 not(TMP\_274) = 1 TMP\_275 = 0 TMP\_276 = 1 not(TMP\_276) = 0 TMP\_277 = 1 not(TMP\_277) = 0 TMP\_278 = 2 TMP\_279 = 0 not(TMP\_279) = 1 TMP\_280 = 0 not(TMP\_280) = 1 TMP\_281 = 1 not(TMP\_281) = 0 TMP\_282 = 1 not(TMP\_282) = 0 TMP\_283 = 1 not(TMP\_283) = 0 TMP\_284 = 2 TMP\_285 = 0 not(TMP\_285) = 1 TMP\_286 = 1 not(TMP\_286) = 0 TMP\_287 = 1 not(TMP\_287) = 0 TMP\_288 = 1 not(TMP\_288) = 0 TMP\_289 = 1 not(TMP\_289) = 0 TMP\_290 = 0 not(TMP\_290) = 1 TMP\_291 = 4 TMP\_292 = 0 not(TMP\_292) = 1 TMP\_293 = 0 not(TMP\_293) = 1 TMP\_294 = 0 TMP\_295 = 1 not(TMP\_295) = 0 TMP\_296 = 1 not(TMP\_296) = 0 TMP\_297 = 2 TMP\_298 = 0 not(TMP\_298) = 1 TMP\_299 = 0 not(TMP\_299) = 1 TMP\_300 = 1 not(TMP\_300) = 0 TMP\_301 = 1 not(TMP\_301) = 0 TMP\_302 = 1 not(TMP\_302) = 0 TMP\_303 = 2 TMP\_304 = 0 not(TMP\_304) = 1 TMP\_305 = 1 not(TMP\_305) = 0 TMP\_306 = 1 not(TMP\_306) = 0 TMP\_307 = 1 not(TMP\_307) = 0 TMP\_308 = 1 not(TMP\_308) = 0 TMP\_309 = 1 not(TMP\_309) = 0 TMP\_310 = 5 TMP\_311 = 0 not(TMP\_311) = 1 TMP\_312 = 0 not(TMP\_312) = 1 TMP\_313 = 0 TMP\_314 = 1 not(TMP\_314) = 0 TMP\_315 = 1 not(TMP\_315) = 0 TMP\_316 = 2 TMP\_317 = 0 not(TMP\_317) = 1 TMP\_318 = 0 not(TMP\_318) = 1 TMP\_319 = 1 not(TMP\_319) = 0 TMP\_320 = 1 not(TMP\_320) = 0 TMP\_321 = 1 not(TMP\_321) = 0 TMP\_322 = 2 TMP\_323 = 0 not(TMP\_323) = 1 TMP\_324 = 1 not(TMP\_324) = 0 TMP\_325 = 1 not(TMP\_325) = 0 TMP\_326 = 1 not(TMP\_326) = 0 TMP\_327 = 1 not(TMP\_327) = 0 TMP\_328 = 1 not(TMP\_328) = 0 TMP\_329 = 5 TMP\_330 = 0 not(TMP\_330) = 1 TMP\_331 = 0 not(TMP\_331) = 1 TMP\_332 = 0 TMP\_333 = 1 not(TMP\_333) = 0 TMP\_334 = 1 not(TMP\_334) = 0 TMP\_335 = 2 TMP\_336 = 0 not(TMP\_336) = 1 TMP\_337 = 0 not(TMP\_337) = 1 TMP\_338 = 1 not(TMP\_338) = 0 TMP\_339 = 1 not(TMP\_339) = 0 TMP\_340 = 1 not(TMP\_340) = 0 TMP\_341 = 2 TMP\_342 = 0 not(TMP\_342) = 1 TMP\_343 = 1 not(TMP\_343) = 0 TMP\_344 = 1 not(TMP\_344) = 0 TMP\_345 = 1 not(TMP\_345) = 0 TMP\_346 = 0 not(TMP\_346) = 1 TMP\_347 = 1 not(TMP\_347) = 0 TMP\_348 = 4 TMP\_349 = 0 not(TMP\_349) = 1 TMP\_350 = 0 not(TMP\_350) = 1 TMP\_351 = 0 TMP\_352 = 1 not(TMP\_352) = 0 TMP\_353 = 1 not(TMP\_353) = 0 TMP\_354 = 2 TMP\_355 = 0 not(TMP\_355) = 1 TMP\_356 = 0 not(TMP\_356) = 1 TMP\_357 = 1 not(TMP\_357) = 0 TMP\_358 = 1 not(TMP\_358) = 0 TMP\_359 = 1 not(TMP\_359) = 0 TMP\_360 = 2 TMP\_361 = 0 not(TMP\_361) = 1 TMP\_362 = 1 not(TMP\_362) = 0 TMP\_363 = 1 not(TMP\_363) = 0 TMP\_364 = 1 not(TMP\_364) = 0 TMP\_365 = 0 not(TMP\_365) = 1 TMP\_366 = 1 not(TMP\_366) = 0 TMP\_367 = 4 TMP\_368 = 0 not(TMP\_368) = 1 TMP\_369 = 0 not(TMP\_369) = 1 TMP\_370 = 0 TMP\_371 = 1 not(TMP\_371) = 0 TMP\_372 = 1 not(TMP\_372) = 0 TMP\_373 = 2 TMP\_374 = 0 not(TMP\_374) = 1 TMP\_375 = 0 not(TMP\_375) = 1 TMP\_376 = 1 not(TMP\_376) = 0 TMP\_377 = 1 not(TMP\_377) = 0 TMP\_378 = 1 not(TMP\_378) = 0 TMP\_379 = 2 TMP\_380 = 1 not(TMP\_380) = 0 TMP\_381 = 1 not(TMP\_381) = 0 TMP\_382 = 1 not(TMP\_382) = 0 TMP\_383 = 1 not(TMP\_383) = 0 TMP\_384 = 0 not(TMP\_384) = 1 TMP\_385 = 1 not(TMP\_385) = 0 TMP\_386 = 5 TMP\_387 = 0 not(TMP\_387) = 1 TMP\_388 = 0 not(TMP\_388) = 1 TMP\_389 = 0 TMP\_390 = 1 not(TMP\_390) = 0 TMP\_391 = 1 not(TMP\_391) = 0 TMP\_392 = 2 TMP\_393 = 0 not(TMP\_393) = 1 TMP\_394 = 0 not(TMP\_394) = 1 TMP\_395 = 1 not(TMP\_395) = 0 TMP\_396 = 1 not(TMP\_396) = 0 TMP\_397 = 1 not(TMP\_397) = 0 TMP\_398 = 2 TMP\_399 = 0 not(TMP\_399) = 1 TMP\_400 = 1 not(TMP\_400) = 0 TMP\_401 = 1 not(TMP\_401) = 0 TMP\_402 = 1 not(TMP\_402) = 0 TMP\_403 = 0 not(TMP\_403) = 1 TMP\_404 = 1 not(TMP\_404) = 0 TMP\_405 = 4 TMP\_406 = 0 not(TMP\_406) = 1 TMP\_407 = 0 not(TMP\_407) = 1 TMP\_408 = 0 TMP\_409 = 1 not(TMP\_409) = 0 TMP\_410 = 1 not(TMP\_410) = 0 TMP\_411 = 2 TMP\_412 = 0 not(TMP\_412) = 1 TMP\_413 = 0 not(TMP\_413) = 1 TMP\_414 = 1 not(TMP\_414) = 0 TMP\_415 = 1 not(TMP\_415) = 0 TMP\_416 = 1 not(TMP\_416) = 0 TMP\_417 = 2 TMP\_418 = 1 not(TMP\_418) = 0 TMP\_419 = 1 not(TMP\_419) = 0 TMP\_420 = 1 not(TMP\_420) = 0 TMP\_421 = 1 not(TMP\_421) = 0 TMP\_422 = 0 not(TMP\_422) = 1 TMP\_423 = 1 not(TMP\_423) = 0 TMP\_424 = 5 TMP\_425 = 0 not(TMP\_425) = 1 TMP\_426 = 0 not(TMP\_426) = 1 TMP\_427 = 0 TMP\_428 = 1 not(TMP\_428) = 0 TMP\_429 = 1 not(TMP\_429) = 0 TMP\_430 = 2 TMP\_431 = 0 not(TMP\_431) = 1 TMP\_432 = 0 not(TMP\_432) = 1 TMP\_433 = 1 not(TMP\_433) = 0 TMP\_434 = 1 not(TMP\_434) = 0 TMP\_435 = 1 not(TMP\_435) = 0 TMP\_436 = 2 TMP\_437 = 0 not(TMP\_437) = 1 TMP\_438 = 1 not(TMP\_438) = 0 TMP\_439 = 1 not(TMP\_439) = 0 TMP\_440 = 1 not(TMP\_440) = 0 TMP\_441 = 1 not(TMP\_441) = 0 TMP\_442 = 1 not(TMP\_442) = 0 TMP\_443 = 5 TMP\_444 = 0 not(TMP\_444) = 1 TMP\_445 = 0 not(TMP\_445) = 1 TMP\_446 = 0 TMP\_447 = 1 not(TMP\_447) = 0 TMP\_448 = 1 not(TMP\_448) = 0 TMP\_449 = 2 TMP\_450 = 0 not(TMP\_450) = 1 TMP\_451 = 0 not(TMP\_451) = 1 TMP\_452 = 1 not(TMP\_452) = 0 TMP\_453 = 1 not(TMP\_453) = 0 TMP\_454 = 1 not(TMP\_454) = 0 TMP\_455 = 2 TMP\_456 = 0 not(TMP\_456) = 1 TMP\_457 = 1 not(TMP\_457) = 0 TMP\_458 = 1 not(TMP\_458) = 0 TMP\_459 = 1 not(TMP\_459) = 0 TMP\_460 = 1 not(TMP\_460) = 0 TMP\_461 = 1 not(TMP\_461) = 0 TMP\_462 = 5 TMP\_463 = 0 not(TMP\_463) = 1 TMP\_464 = 0 not(TMP\_464) = 1 TMP\_465 = 0 TMP\_466 = 1 not(TMP\_466) = 0 TMP\_467 = 1 not(TMP\_467) = 0 TMP\_468 = 2 TMP\_469 = 0 not(TMP\_469) = 1 TMP\_470 = 0 not(TMP\_470) = 1 TMP\_471 = 1 not(TMP\_471) = 0 TMP\_472 = 1 not(TMP\_472) = 0 TMP\_473 = 1 not(TMP\_473) = 0 TMP\_474 = 2 TMP\_475 = 1 not(TMP\_475) = 0 TMP\_476 = 0 not(TMP\_476) = 1 TMP\_477 = 1 not(TMP\_477) = 0 TMP\_478 = 1 not(TMP\_478) = 0 TMP\_479 = 1 not(TMP\_479) = 0 TMP\_480 = 1 not(TMP\_480) = 0 TMP\_481 = 5 TMP\_482 = 0 not(TMP\_482) = 1 TMP\_483 = 0 not(TMP\_483) = 1 TMP\_484 = 0 TMP\_485 = 1 not(TMP\_485) = 0 TMP\_486 = 1 not(TMP\_486) = 0 TMP\_487 = 2 TMP\_488 = 0 not(TMP\_488) = 1 TMP\_489 = 0 not(TMP\_489) = 1 TMP\_490 = 1 not(TMP\_490) = 0 TMP\_491 = 1 not(TMP\_491) = 0 TMP\_492 = 1 not(TMP\_492) = 0 TMP\_493 = 2 TMP\_494 = 1 not(TMP\_494) = 0 TMP\_495 = 0 not(TMP\_495) = 1 TMP\_496 = 1 not(TMP\_496) = 0 TMP\_497 = 1 not(TMP\_497) = 0 TMP\_498 = 0 not(TMP\_498) = 1 TMP\_499 = 1 not(TMP\_499) = 0 TMP\_500 = 4 TMP\_501 = 0 not(TMP\_501) = 1 TMP\_502 = 0 not(TMP\_502) = 1 TMP\_503 = 0 TMP\_504 = 1 not(TMP\_504) = 0 TMP\_505 = 1 not(TMP\_505) = 0 TMP\_506 = 2 TMP\_507 = 0 not(TMP\_507) = 1 TMP\_508 = 0 not(TMP\_508) = 1 TMP\_509 = 1 not(TMP\_509) = 0 TMP\_510 = 1 not(TMP\_510) = 0 TMP\_511 = 1 not(TMP\_511) = 0 TMP\_512 = 2 TMP\_513 = 1 not(TMP\_513) = 0 TMP\_514 = 0 not(TMP\_514) = 1 TMP\_515 = 1 not(TMP\_515) = 0 TMP\_516 = 1 not(TMP\_516) = 0 TMP\_517 = 0 not(TMP\_517) = 1 TMP\_518 = 1 not(TMP\_518) = 0 TMP\_519 = 4 TMP\_520 = 0 not(TMP\_520) = 1 TMP\_521 = 0 not(TMP\_521) = 1 TMP\_522 = 0 TMP\_523 = 1 not(TMP\_523) = 0 TMP\_524 = 1 not(TMP\_524) = 0 TMP\_525 = 2 TMP\_526 = 0 not(TMP\_526) = 1 TMP\_527 = 0 not(TMP\_527) = 1 TMP\_528 = 1 not(TMP\_528) = 0 TMP\_529 = 1 not(TMP\_529) = 0 TMP\_530 = 1 not(TMP\_530) = 0 TMP\_531 = 2 TMP\_532 = 1 not(TMP\_532) = 0 TMP\_533 = 0 not(TMP\_533) = 1 TMP\_534 = 1 not(TMP\_534) = 0 TMP\_535 = 1 not(TMP\_535) = 0 TMP\_536 = 0 not(TMP\_536) = 1 TMP\_537 = 1 not(TMP\_537) = 0 TMP\_538 = 4 TMP\_539 = 0 not(TMP\_539) = 1 TMP\_540 = 0 not(TMP\_540) = 1 TMP\_541 = 0 TMP\_542 = 1 not(TMP\_542) = 0 TMP\_543 = 1 not(TMP\_543) = 0 TMP\_544 = 2 TMP\_545 = 0 not(TMP\_545) = 1 TMP\_546 = 0 not(TMP\_546) = 1 TMP\_547 = 1 not(TMP\_547) = 0 TMP\_548 = 1 not(TMP\_548) = 0 TMP\_549 = 1 not(TMP\_549) = 0 TMP\_550 = 2 TMP\_551 = 1 not(TMP\_551) = 0 TMP\_552 = 1 not(TMP\_552) = 0 TMP\_553 = 1 not(TMP\_553) = 0 TMP\_554 = 1 not(TMP\_554) = 0 TMP\_555 = 0 not(TMP\_555) = 1 TMP\_556 = 1 not(TMP\_556) = 0 TMP\_557 = 5 TMP\_558 = 0 not(TMP\_558) = 1 TMP\_559 = 0 not(TMP\_559) = 1 TMP\_560 = 0 TMP\_561 = 1 not(TMP\_561) = 0 TMP\_562 = 1 not(TMP\_562) = 0 TMP\_563 = 2 TMP\_564 = 0 not(TMP\_564) = 1 TMP\_565 = 0 not(TMP\_565) = 1 TMP\_566 = 1 not(TMP\_566) = 0 TMP\_567 = 1 not(TMP\_567) = 0 TMP\_568 = 1 not(TMP\_568) = 0 TMP\_569 = 2 TMP\_570 = 1 not(TMP\_570) = 0 TMP\_571 = 0 not(TMP\_571) = 1 TMP\_572 = 1 not(TMP\_572) = 0 TMP\_573 = 1 not(TMP\_573) = 0 TMP\_574 = 0 not(TMP\_574) = 1 TMP\_575 = 1 not(TMP\_575) = 0 TMP\_576 = 4 TMP\_577 = 0 not(TMP\_577) = 1 TMP\_578 = 0 not(TMP\_578) = 1 TMP\_579 = 0 TMP\_580 = 1 not(TMP\_580) = 0 TMP\_581 = 1 not(TMP\_581) = 0 TMP\_582 = 2 TMP\_583 = 0 not(TMP\_583) = 1 TMP\_584 = 0 not(TMP\_584) = 1 TMP\_585 = 1 not(TMP\_585) = 0 TMP\_586 = 1 not(TMP\_586) = 0 TMP\_587 = 1 not(TMP\_587) = 0 TMP\_588 = 2 TMP\_589 = 1 not(TMP\_589) = 0 TMP\_590 = 0 not(TMP\_590) = 1 TMP\_591 = 1 not(TMP\_591) = 0 TMP\_592 = 1 not(TMP\_592) = 0 TMP\_593 = 1 not(TMP\_593) = 0 TMP\_594 = 1 not(TMP\_594) = 0 TMP\_595 = 5 TMP\_596 = 0 not(TMP\_596) = 1 TMP\_597 = 0 not(TMP\_597) = 1 TMP\_598 = 0 TMP\_599 = 1 not(TMP\_599) = 0 TMP\_600 = 1 not(TMP\_600) = 0 TMP\_601 = 2 TMP\_602 = 0 not(TMP\_602) = 1 TMP\_603 = 0 not(TMP\_603) = 1 TMP\_604 = 1 not(TMP\_604) = 0 TMP\_605 = 1 not(TMP\_605) = 0 TMP\_606 = 1 not(TMP\_606) = 0 TMP\_607 = 2 Area\_0 = 60 Distance\_0\_Rule\_0 = 20 Distance\_1\_Rule\_0 = 3 Distance\_2\_Rule\_0 = 1 Area\_1 = 174 Distance\_0\_Rule\_1 = 58 Distance\_1\_Rule\_1 = 3 Distance\_2\_Rule\_1 = 1 Area\_2 = 116 Distance\_0\_Rule\_2 = 58 Distance\_1\_Rule\_2 = 2 Distance\_2\_Rule\_2 = 1 Area\_3 = 58 Distance\_0\_Rule\_3 = 58 Distance\_1\_Rule\_3 = 1 Distance\_2\_Rule\_3 = 1 Area\_4 = 120 Distance\_0\_Rule\_4 = 40 Distance\_1\_Rule\_4 = 3 Distance\_2\_Rule\_4 = 1 Area\_5 = 63 -(Rule\_5\_LB) = 0 Distance\_0\_Rule\_5 = 21 -(Rule\_5\_LB) = 0 Distance\_1\_Rule\_5 = 3 -(Rule\_5\_LB) = 0 Distance\_2\_Rule\_5 = 1 Area\_6 = 3 -(Rule\_6\_LB) = -79 Distance\_0\_Rule\_6 = 1 -(Rule\_6\_LB) = 0 Distance\_1\_Rule\_6 = 3 -(Rule\_6\_LB) = 0 Distance\_2\_Rule\_6 = 1 Area\_7 = 123 -(Rule\_7\_LB) = -79 Distance\_0\_Rule\_7 = 41 -(Rule\_7\_LB) = 0 Distance\_1\_Rule\_7 = 3 -(Rule\_7\_LB) = -1 Distance\_2\_Rule\_7 = 1 Area\_8 = 3 -(Rule\_8\_LB) = -20 Distance\_0\_Rule\_8 = 1 -(Rule\_8\_LB) = 0 Distance\_1\_Rule\_8 = 3 -(Rule\_8\_LB) = -1 Distance\_2\_Rule\_8 = 1 TMP\_608 = 720 .

- Solution #16 found. 16 Solutions, Resolution 1.110s, 2314 Nodes (2,084.6 n/s), 4540 Backtracks, 2261 Fails, 0 Restarts

Rule\_5\_LB = 0 Rule\_5\_UB = 21 Rule\_5\_LB = 0 Rule\_5\_UB = 3 Rule\_5\_LB = 0 Rule\_5\_UB = 1 Rule\_6\_LB = 79 Rule\_6\_UB = 80 Rule\_6\_LB = 0 Rule\_6\_UB = 3 Rule\_6\_LB = 0 Rule\_6\_UB = 1 Rule\_7\_LB = 79 Rule\_7\_UB = 120 Rule\_7\_LB = 0 Rule\_7\_UB = 3 Rule\_7\_LB = 1 Rule\_7\_UB = 2 Rule\_8\_LB = 20 Rule\_8\_UB = 21 Rule\_8\_LB = 0 Rule\_8\_UB = 3 Rule\_8\_LB = 1 Rule\_8\_UB = 2 Overlaps\_0\_0 = 0 Overlaps\_0\_1 = 1 Overlaps\_0\_2 = 0 Overlaps\_0\_3 = 0 Overlaps\_0\_4 = 0 Overlaps\_0\_5 = 0 Overlaps\_0\_6 = 0 Overlaps\_0\_7 = 0 Overlaps\_0\_8 = 0 Overlaps\_1\_0 = 0 Overlaps\_1\_1 = 0 Overlaps\_1\_2 = 0 Overlaps\_1\_3 = 0 Overlaps\_1\_4 = 0 Overlaps\_1\_5 = 0 Overlaps\_1\_6 = 0 Overlaps\_1\_7 = 0 Overlaps\_1\_8 = 0 Overlaps\_2\_0 = 0 Overlaps\_2\_1 = 0 Overlaps\_2\_2 = 0 Overlaps\_2\_3 = 0 Overlaps\_2\_4 = 1 Overlaps\_2\_5 = 0 Overlaps\_2\_6 = 0 Overlaps\_2\_7 = 0 Overlaps\_2\_8 = 0 Overlaps\_3\_0 = 0 Overlaps\_3\_1 = 1 Overlaps\_3\_2 = 0 Overlaps\_3\_3 = 0 Overlaps\_3\_4 = 0 Overlaps\_3\_5 = 0 Overlaps\_3\_6 = 0 Overlaps\_3\_7 = 0 Overlaps\_3\_8 = 0 Overlaps\_4\_0 = 1 Overlaps\_4\_1 = 0 Overlaps\_4\_2 = 0 Overlaps\_4\_3 = 0 Overlaps\_4\_4 = 0 Overlaps\_4\_5 = 0 Overlaps\_4\_6 = 0 Overlaps\_4\_7 = 0 Overlaps\_4\_8 = 0 Overlaps\_5\_0 = 0 Overlaps\_5\_1 = 0 Overlaps\_5\_2 = 0 Overlaps\_5\_3 = 0 Overlaps\_5\_4 = 0 Overlaps\_5\_5 = 0 Overlaps\_5\_6 = 0 Overlaps\_5\_7 = 0 Overlaps\_5\_8 = 0 Overlaps\_6\_0 = 0 Overlaps\_6\_1 = 0 Overlaps\_6\_2 = 0 Overlaps\_6\_3 = 0 Overlaps\_6\_4 = 0 Overlaps\_6\_5 = 0 Overlaps\_6\_6 = 0 Overlaps\_6\_7 = 0 Overlaps\_6\_8 = 0 Overlaps\_7\_0 = 0 Overlaps\_7\_1 = 0 Overlaps\_7\_2 = 0 Overlaps\_7\_3 = 0 Overlaps\_7\_4 = 0 Overlaps\_7\_5 = 0 Overlaps\_7\_6 = 0 Overlaps\_7\_7 = 0 Overlaps\_7\_8 = 0 Overlaps\_8\_0 = 0 Overlaps\_8\_1 = 0 Overlaps\_8\_2 = 0 Overlaps\_8\_3 = 0 Overlaps\_8\_4 = 0 Overlaps\_8\_5 = 0 Overlaps\_8\_6 = 0 Overlaps\_8\_7 = 0 Overlaps\_8\_8 = 0 TMP\_0 = 1 not(TMP\_0) = 0 TMP\_1 = 1 not(TMP\_1) = 0 TMP\_2 = 1 not(TMP\_2) = 0 TMP\_3 = 1 not(TMP\_3) = 0 TMP\_4 = 1 not(TMP\_4) = 0 TMP\_5 = 0 not(TMP\_5) = 1 TMP\_6 = 5 TMP\_7 = 0 not(TMP\_7) = 1 TMP\_8 = 0 not(TMP\_8) = 1 TMP\_9 = 0 TMP\_10 = 1 not(TMP\_10) = 0 TMP\_11 = 1 not(TMP\_11) = 0 TMP\_12 = 2 TMP\_13 = 0 not(TMP\_13) = 1 TMP\_14 = 0 not(TMP\_14) = 1 TMP\_15 = 1 not(TMP\_15) = 0 TMP\_16 = 1 not(TMP\_16) = 0 TMP\_17 = 1 not(TMP\_17) = 0 TMP\_18 = 2 TMP\_19 = 1 not(TMP\_19) = 0 TMP\_20 = 0 not(TMP\_20) = 1 TMP\_21 = 1 not(TMP\_21) = 0 TMP\_22 = 1 not(TMP\_22) = 0 TMP\_23 = 1 not(TMP\_23) = 0 TMP\_24 = 0 not(TMP\_24) = 1 TMP\_25 = 4 TMP\_26 = 0 not(TMP\_26) = 1 TMP\_27 = 0 not(TMP\_27) = 1 TMP\_28 = 0 TMP\_29 = 1 not(TMP\_29) = 0 TMP\_30 = 1 not(TMP\_30) = 0 TMP\_31 = 2 TMP\_32 = 0 not(TMP\_32) = 1 TMP\_33 = 0 not(TMP\_33) = 1 TMP\_34 = 1 not(TMP\_34) = 0 TMP\_35 = 1 not(TMP\_35) = 0 TMP\_36 = 1 not(TMP\_36) = 0 TMP\_37 = 2 TMP\_38 = 1 not(TMP\_38) = 0 TMP\_39 = 0 not(TMP\_39) = 1 TMP\_40 = 1 not(TMP\_40) = 0 TMP\_41 = 1 not(TMP\_41) = 0 TMP\_42 = 1 not(TMP\_42) = 0 TMP\_43 = 1 not(TMP\_43) = 0 TMP\_44 = 5 TMP\_45 = 0 not(TMP\_45) = 1 TMP\_46 = 0 not(TMP\_46) = 1 TMP\_47 = 0 TMP\_48 = 1 not(TMP\_48) = 0 TMP\_49 = 1 not(TMP\_49) = 0 TMP\_50 = 2 TMP\_51 = 0 not(TMP\_51) = 1 TMP\_52 = 0 not(TMP\_52) = 1 TMP\_53 = 1 not(TMP\_53) = 0 TMP\_54 = 1 not(TMP\_54) = 0 TMP\_55 = 1 not(TMP\_55) = 0 TMP\_56 = 2 TMP\_57 = 1 not(TMP\_57) = 0 TMP\_58 = 0 not(TMP\_58) = 1 TMP\_59 = 1 not(TMP\_59) = 0 TMP\_60 = 1 not(TMP\_60) = 0 TMP\_61 = 1 not(TMP\_61) = 0 TMP\_62 = 1 not(TMP\_62) = 0 TMP\_63 = 5 TMP\_64 = 0 not(TMP\_64) = 1 TMP\_65 = 0 not(TMP\_65) = 1 TMP\_66 = 0 TMP\_67 = 1 not(TMP\_67) = 0 TMP\_68 = 1 not(TMP\_68) = 0 TMP\_69 = 2 TMP\_70 = 0 not(TMP\_70) = 1 TMP\_71 = 0 not(TMP\_71) = 1 TMP\_72 = 1 not(TMP\_72) = 0 TMP\_73 = 1 not(TMP\_73) = 0 TMP\_74 = 1 not(TMP\_74) = 0 TMP\_75 = 2 TMP\_76 = 1 not(TMP\_76) = 0 TMP\_77 = 0 not(TMP\_77) = 1 TMP\_78 = 1 not(TMP\_78) = 0 TMP\_79 = 1 not(TMP\_79) = 0 TMP\_80 = 1 not(TMP\_80) = 0 TMP\_81 = 1 not(TMP\_81) = 0 TMP\_82 = 5 TMP\_83 = 0 not(TMP\_83) = 1 TMP\_84 = 0 not(TMP\_84) = 1 TMP\_85 = 0 TMP\_86 = 1 not(TMP\_86) = 0 TMP\_87 = 1 not(TMP\_87) = 0 TMP\_88 = 2 TMP\_89 = 0 not(TMP\_89) = 1 TMP\_90 = 0 not(TMP\_90) = 1 TMP\_91 = 1 not(TMP\_91) = 0 TMP\_92 = 1 not(TMP\_92) = 0 TMP\_93 = 1 not(TMP\_93) = 0 TMP\_94 = 2 TMP\_95 = 1 not(TMP\_95) = 0 TMP\_96 = 0 not(TMP\_96) = 1 TMP\_97 = 1 not(TMP\_97) = 0 TMP\_98 = 1 not(TMP\_98) = 0 TMP\_99 = 1 not(TMP\_99) = 0 TMP\_100 = 1 not(TMP\_100) = 0 TMP\_101 = 5 TMP\_102 = 0 not(TMP\_102) = 1 TMP\_103 = 0 not(TMP\_103) = 1 TMP\_104 = 0 TMP\_105 = 1 not(TMP\_105) = 0 TMP\_106 = 1 not(TMP\_106) = 0 TMP\_107 = 2 TMP\_108 = 0 not(TMP\_108) = 1 TMP\_109 = 0 not(TMP\_109) = 1 TMP\_110 = 1 not(TMP\_110) = 0 TMP\_111 = 1 not(TMP\_111) = 0 TMP\_112 = 1 not(TMP\_112) = 0 TMP\_113 = 2 TMP\_114 = 1 not(TMP\_114) = 0 TMP\_115 = 0 not(TMP\_115) = 1 TMP\_116 = 1 not(TMP\_116) = 0 TMP\_117 = 1 not(TMP\_117) = 0 TMP\_118 = 1 not(TMP\_118) = 0 TMP\_119 = 0 not(TMP\_119) = 1 TMP\_120 = 4 TMP\_121 = 0 not(TMP\_121) = 1 TMP\_122 = 0 not(TMP\_122) = 1 TMP\_123 = 0 TMP\_124 = 1 not(TMP\_124) = 0 TMP\_125 = 1 not(TMP\_125) = 0 TMP\_126 = 2 TMP\_127 = 0 not(TMP\_127) = 1 TMP\_128 = 0 not(TMP\_128) = 1 TMP\_129 = 1 not(TMP\_129) = 0 TMP\_130 = 1 not(TMP\_130) = 0 TMP\_131 = 1 not(TMP\_131) = 0 TMP\_132 = 2 TMP\_133 = 1 not(TMP\_133) = 0 TMP\_134 = 1 not(TMP\_134) = 0 TMP\_135 = 1 not(TMP\_135) = 0 TMP\_136 = 1 not(TMP\_136) = 0 TMP\_137 = 1 not(TMP\_137) = 0 TMP\_138 = 0 not(TMP\_138) = 1 TMP\_139 = 5 TMP\_140 = 0 not(TMP\_140) = 1 TMP\_141 = 0 not(TMP\_141) = 1 TMP\_142 = 0 TMP\_143 = 1 not(TMP\_143) = 0 TMP\_144 = 1 not(TMP\_144) = 0 TMP\_145 = 2 TMP\_146 = 0 not(TMP\_146) = 1 TMP\_147 = 0 not(TMP\_147) = 1 TMP\_148 = 1 not(TMP\_148) = 0 TMP\_149 = 1 not(TMP\_149) = 0 TMP\_150 = 1 not(TMP\_150) = 0 TMP\_151 = 2 TMP\_152 = 0 not(TMP\_152) = 1 TMP\_153 = 1 not(TMP\_153) = 0 TMP\_154 = 1 not(TMP\_154) = 0 TMP\_155 = 1 not(TMP\_155) = 0 TMP\_156 = 1 not(TMP\_156) = 0 TMP\_157 = 0 not(TMP\_157) = 1 TMP\_158 = 4 TMP\_159 = 0 not(TMP\_159) = 1 TMP\_160 = 0 not(TMP\_160) = 1 TMP\_161 = 0 TMP\_162 = 1 not(TMP\_162) = 0 TMP\_163 = 1 not(TMP\_163) = 0 TMP\_164 = 2 TMP\_165 = 0 not(TMP\_165) = 1 TMP\_166 = 0 not(TMP\_166) = 1 TMP\_167 = 1 not(TMP\_167) = 0 TMP\_168 = 1 not(TMP\_168) = 0 TMP\_169 = 1 not(TMP\_169) = 0 TMP\_170 = 2 TMP\_171 = 0 not(TMP\_171) = 1 TMP\_172 = 1 not(TMP\_172) = 0 TMP\_173 = 1 not(TMP\_173) = 0 TMP\_174 = 1 not(TMP\_174) = 0 TMP\_175 = 1 not(TMP\_175) = 0 TMP\_176 = 0 not(TMP\_176) = 1 TMP\_177 = 4 TMP\_178 = 0 not(TMP\_178) = 1 TMP\_179 = 0 not(TMP\_179) = 1 TMP\_180 = 0 TMP\_181 = 1 not(TMP\_181) = 0 TMP\_182 = 1 not(TMP\_182) = 0 TMP\_183 = 2 TMP\_184 = 0 not(TMP\_184) = 1 TMP\_185 = 0 not(TMP\_185) = 1 TMP\_186 = 1 not(TMP\_186) = 0 TMP\_187 = 1 not(TMP\_187) = 0 TMP\_188 = 1 not(TMP\_188) = 0 TMP\_189 = 2 TMP\_190 = 0 not(TMP\_190) = 1 TMP\_191 = 1 not(TMP\_191) = 0 TMP\_192 = 1 not(TMP\_192) = 0 TMP\_193 = 1 not(TMP\_193) = 0 TMP\_194 = 1 not(TMP\_194) = 0 TMP\_195 = 1 not(TMP\_195) = 0 TMP\_196 = 5 TMP\_197 = 0 not(TMP\_197) = 1 TMP\_198 = 0 not(TMP\_198) = 1 TMP\_199 = 0 TMP\_200 = 1 not(TMP\_200) = 0 TMP\_201 = 1 not(TMP\_201) = 0 TMP\_202 = 2 TMP\_203 = 0 not(TMP\_203) = 1 TMP\_204 = 0 not(TMP\_204) = 1 TMP\_205 = 1 not(TMP\_205) = 0 TMP\_206 = 1 not(TMP\_206) = 0 TMP\_207 = 1 not(TMP\_207) = 0 TMP\_208 = 2 TMP\_209 = 0 not(TMP\_209) = 1 TMP\_210 = 1 not(TMP\_210) = 0 TMP\_211 = 1 not(TMP\_211) = 0 TMP\_212 = 1 not(TMP\_212) = 0 TMP\_213 = 1 not(TMP\_213) = 0 TMP\_214 = 1 not(TMP\_214) = 0 TMP\_215 = 5 TMP\_216 = 0 not(TMP\_216) = 1 TMP\_217 = 0 not(TMP\_217) = 1 TMP\_218 = 0 TMP\_219 = 1 not(TMP\_219) = 0 TMP\_220 = 1 not(TMP\_220) = 0 TMP\_221 = 2 TMP\_222 = 0 not(TMP\_222) = 1 TMP\_223 = 0 not(TMP\_223) = 1 TMP\_224 = 1 not(TMP\_224) = 0 TMP\_225 = 1 not(TMP\_225) = 0 TMP\_226 = 1 not(TMP\_226) = 0 TMP\_227 = 2 TMP\_228 = 1 not(TMP\_228) = 0 TMP\_229 = 0 not(TMP\_229) = 1 TMP\_230 = 1 not(TMP\_230) = 0 TMP\_231 = 1 not(TMP\_231) = 0 TMP\_232 = 1 not(TMP\_232) = 0 TMP\_233 = 1 not(TMP\_233) = 0 TMP\_234 = 5 TMP\_235 = 0 not(TMP\_235) = 1 TMP\_236 = 0 not(TMP\_236) = 1 TMP\_237 = 0 TMP\_238 = 1 not(TMP\_238) = 0 TMP\_239 = 1 not(TMP\_239) = 0 TMP\_240 = 2 TMP\_241 = 0 not(TMP\_241) = 1 TMP\_242 = 0 not(TMP\_242) = 1 TMP\_243 = 1 not(TMP\_243) = 0 TMP\_244 = 1 not(TMP\_244) = 0 TMP\_245 = 1 not(TMP\_245) = 0 TMP\_246 = 2 TMP\_247 = 0 not(TMP\_247) = 1 TMP\_248 = 1 not(TMP\_248) = 0 TMP\_249 = 1 not(TMP\_249) = 0 TMP\_250 = 1 not(TMP\_250) = 0 TMP\_251 = 1 not(TMP\_251) = 0 TMP\_252 = 1 not(TMP\_252) = 0 TMP\_253 = 5 TMP\_254 = 0 not(TMP\_254) = 1 TMP\_255 = 0 not(TMP\_255) = 1 TMP\_256 = 0 TMP\_257 = 1 not(TMP\_257) = 0 TMP\_258 = 1 not(TMP\_258) = 0 TMP\_259 = 2 TMP\_260 = 0 not(TMP\_260) = 1 TMP\_261 = 0 not(TMP\_261) = 1 TMP\_262 = 1 not(TMP\_262) = 0 TMP\_263 = 1 not(TMP\_263) = 0 TMP\_264 = 1 not(TMP\_264) = 0 TMP\_265 = 2 TMP\_266 = 1 not(TMP\_266) = 0 TMP\_267 = 1 not(TMP\_267) = 0 TMP\_268 = 1 not(TMP\_268) = 0 TMP\_269 = 1 not(TMP\_269) = 0 TMP\_270 = 1 not(TMP\_270) = 0 TMP\_271 = 0 not(TMP\_271) = 1 TMP\_272 = 5 TMP\_273 = 0 not(TMP\_273) = 1 TMP\_274 = 0 not(TMP\_274) = 1 TMP\_275 = 0 TMP\_276 = 1 not(TMP\_276) = 0 TMP\_277 = 1 not(TMP\_277) = 0 TMP\_278 = 2 TMP\_279 = 0 not(TMP\_279) = 1 TMP\_280 = 0 not(TMP\_280) = 1 TMP\_281 = 1 not(TMP\_281) = 0 TMP\_282 = 1 not(TMP\_282) = 0 TMP\_283 = 1 not(TMP\_283) = 0 TMP\_284 = 2 TMP\_285 = 0 not(TMP\_285) = 1 TMP\_286 = 1 not(TMP\_286) = 0 TMP\_287 = 1 not(TMP\_287) = 0 TMP\_288 = 1 not(TMP\_288) = 0 TMP\_289 = 1 not(TMP\_289) = 0 TMP\_290 = 0 not(TMP\_290) = 1 TMP\_291 = 4 TMP\_292 = 0 not(TMP\_292) = 1 TMP\_293 = 0 not(TMP\_293) = 1 TMP\_294 = 0 TMP\_295 = 1 not(TMP\_295) = 0 TMP\_296 = 1 not(TMP\_296) = 0 TMP\_297 = 2 TMP\_298 = 0 not(TMP\_298) = 1 TMP\_299 = 0 not(TMP\_299) = 1 TMP\_300 = 1 not(TMP\_300) = 0 TMP\_301 = 1 not(TMP\_301) = 0 TMP\_302 = 1 not(TMP\_302) = 0 TMP\_303 = 2 TMP\_304 = 0 not(TMP\_304) = 1 TMP\_305 = 1 not(TMP\_305) = 0 TMP\_306 = 1 not(TMP\_306) = 0 TMP\_307 = 1 not(TMP\_307) = 0 TMP\_308 = 1 not(TMP\_308) = 0 TMP\_309 = 1 not(TMP\_309) = 0 TMP\_310 = 5 TMP\_311 = 0 not(TMP\_311) = 1 TMP\_312 = 0 not(TMP\_312) = 1 TMP\_313 = 0 TMP\_314 = 1 not(TMP\_314) = 0 TMP\_315 = 1 not(TMP\_315) = 0 TMP\_316 = 2 TMP\_317 = 0 not(TMP\_317) = 1 TMP\_318 = 0 not(TMP\_318) = 1 TMP\_319 = 1 not(TMP\_319) = 0 TMP\_320 = 1 not(TMP\_320) = 0 TMP\_321 = 1 not(TMP\_321) = 0 TMP\_322 = 2 TMP\_323 = 0 not(TMP\_323) = 1 TMP\_324 = 1 not(TMP\_324) = 0 TMP\_325 = 1 not(TMP\_325) = 0 TMP\_326 = 1 not(TMP\_326) = 0 TMP\_327 = 1 not(TMP\_327) = 0 TMP\_328 = 1 not(TMP\_328) = 0 TMP\_329 = 5 TMP\_330 = 0 not(TMP\_330) = 1 TMP\_331 = 0 not(TMP\_331) = 1 TMP\_332 = 0 TMP\_333 = 1 not(TMP\_333) = 0 TMP\_334 = 1 not(TMP\_334) = 0 TMP\_335 = 2 TMP\_336 = 0 not(TMP\_336) = 1 TMP\_337 = 0 not(TMP\_337) = 1 TMP\_338 = 1 not(TMP\_338) = 0 TMP\_339 = 1 not(TMP\_339) = 0 TMP\_340 = 1 not(TMP\_340) = 0 TMP\_341 = 2 TMP\_342 = 0 not(TMP\_342) = 1 TMP\_343 = 1 not(TMP\_343) = 0 TMP\_344 = 1 not(TMP\_344) = 0 TMP\_345 = 1 not(TMP\_345) = 0 TMP\_346 = 0 not(TMP\_346) = 1 TMP\_347 = 1 not(TMP\_347) = 0 TMP\_348 = 4 TMP\_349 = 0 not(TMP\_349) = 1 TMP\_350 = 0 not(TMP\_350) = 1 TMP\_351 = 0 TMP\_352 = 1 not(TMP\_352) = 0 TMP\_353 = 1 not(TMP\_353) = 0 TMP\_354 = 2 TMP\_355 = 0 not(TMP\_355) = 1 TMP\_356 = 0 not(TMP\_356) = 1 TMP\_357 = 1 not(TMP\_357) = 0 TMP\_358 = 1 not(TMP\_358) = 0 TMP\_359 = 1 not(TMP\_359) = 0 TMP\_360 = 2 TMP\_361 = 0 not(TMP\_361) = 1 TMP\_362 = 1 not(TMP\_362) = 0 TMP\_363 = 1 not(TMP\_363) = 0 TMP\_364 = 1 not(TMP\_364) = 0 TMP\_365 = 0 not(TMP\_365) = 1 TMP\_366 = 1 not(TMP\_366) = 0 TMP\_367 = 4 TMP\_368 = 0 not(TMP\_368) = 1 TMP\_369 = 0 not(TMP\_369) = 1 TMP\_370 = 0 TMP\_371 = 1 not(TMP\_371) = 0 TMP\_372 = 1 not(TMP\_372) = 0 TMP\_373 = 2 TMP\_374 = 0 not(TMP\_374) = 1 TMP\_375 = 0 not(TMP\_375) = 1 TMP\_376 = 1 not(TMP\_376) = 0 TMP\_377 = 1 not(TMP\_377) = 0 TMP\_378 = 1 not(TMP\_378) = 0 TMP\_379 = 2 TMP\_380 = 1 not(TMP\_380) = 0 TMP\_381 = 1 not(TMP\_381) = 0 TMP\_382 = 1 not(TMP\_382) = 0 TMP\_383 = 1 not(TMP\_383) = 0 TMP\_384 = 0 not(TMP\_384) = 1 TMP\_385 = 1 not(TMP\_385) = 0 TMP\_386 = 5 TMP\_387 = 0 not(TMP\_387) = 1 TMP\_388 = 0 not(TMP\_388) = 1 TMP\_389 = 0 TMP\_390 = 1 not(TMP\_390) = 0 TMP\_391 = 1 not(TMP\_391) = 0 TMP\_392 = 2 TMP\_393 = 0 not(TMP\_393) = 1 TMP\_394 = 0 not(TMP\_394) = 1 TMP\_395 = 1 not(TMP\_395) = 0 TMP\_396 = 1 not(TMP\_396) = 0 TMP\_397 = 1 not(TMP\_397) = 0 TMP\_398 = 2 TMP\_399 = 0 not(TMP\_399) = 1 TMP\_400 = 1 not(TMP\_400) = 0 TMP\_401 = 1 not(TMP\_401) = 0 TMP\_402 = 1 not(TMP\_402) = 0 TMP\_403 = 0 not(TMP\_403) = 1 TMP\_404 = 1 not(TMP\_404) = 0 TMP\_405 = 4 TMP\_406 = 0 not(TMP\_406) = 1 TMP\_407 = 0 not(TMP\_407) = 1 TMP\_408 = 0 TMP\_409 = 1 not(TMP\_409) = 0 TMP\_410 = 1 not(TMP\_410) = 0 TMP\_411 = 2 TMP\_412 = 0 not(TMP\_412) = 1 TMP\_413 = 0 not(TMP\_413) = 1 TMP\_414 = 1 not(TMP\_414) = 0 TMP\_415 = 1 not(TMP\_415) = 0 TMP\_416 = 1 not(TMP\_416) = 0 TMP\_417 = 2 TMP\_418 = 1 not(TMP\_418) = 0 TMP\_419 = 1 not(TMP\_419) = 0 TMP\_420 = 1 not(TMP\_420) = 0 TMP\_421 = 1 not(TMP\_421) = 0 TMP\_422 = 0 not(TMP\_422) = 1 TMP\_423 = 1 not(TMP\_423) = 0 TMP\_424 = 5 TMP\_425 = 0 not(TMP\_425) = 1 TMP\_426 = 0 not(TMP\_426) = 1 TMP\_427 = 0 TMP\_428 = 1 not(TMP\_428) = 0 TMP\_429 = 1 not(TMP\_429) = 0 TMP\_430 = 2 TMP\_431 = 0 not(TMP\_431) = 1 TMP\_432 = 0 not(TMP\_432) = 1 TMP\_433 = 1 not(TMP\_433) = 0 TMP\_434 = 1 not(TMP\_434) = 0 TMP\_435 = 1 not(TMP\_435) = 0 TMP\_436 = 2 TMP\_437 = 0 not(TMP\_437) = 1 TMP\_438 = 1 not(TMP\_438) = 0 TMP\_439 = 1 not(TMP\_439) = 0 TMP\_440 = 1 not(TMP\_440) = 0 TMP\_441 = 1 not(TMP\_441) = 0 TMP\_442 = 1 not(TMP\_442) = 0 TMP\_443 = 5 TMP\_444 = 0 not(TMP\_444) = 1 TMP\_445 = 0 not(TMP\_445) = 1 TMP\_446 = 0 TMP\_447 = 1 not(TMP\_447) = 0 TMP\_448 = 1 not(TMP\_448) = 0 TMP\_449 = 2 TMP\_450 = 0 not(TMP\_450) = 1 TMP\_451 = 0 not(TMP\_451) = 1 TMP\_452 = 1 not(TMP\_452) = 0 TMP\_453 = 1 not(TMP\_453) = 0 TMP\_454 = 1 not(TMP\_454) = 0 TMP\_455 = 2 TMP\_456 = 0 not(TMP\_456) = 1 TMP\_457 = 1 not(TMP\_457) = 0 TMP\_458 = 1 not(TMP\_458) = 0 TMP\_459 = 1 not(TMP\_459) = 0 TMP\_460 = 1 not(TMP\_460) = 0 TMP\_461 = 1 not(TMP\_461) = 0 TMP\_462 = 5 TMP\_463 = 0 not(TMP\_463) = 1 TMP\_464 = 0 not(TMP\_464) = 1 TMP\_465 = 0 TMP\_466 = 1 not(TMP\_466) = 0 TMP\_467 = 1 not(TMP\_467) = 0 TMP\_468 = 2 TMP\_469 = 0 not(TMP\_469) = 1 TMP\_470 = 0 not(TMP\_470) = 1 TMP\_471 = 1 not(TMP\_471) = 0 TMP\_472 = 1 not(TMP\_472) = 0 TMP\_473 = 1 not(TMP\_473) = 0 TMP\_474 = 2 TMP\_475 = 1 not(TMP\_475) = 0 TMP\_476 = 0 not(TMP\_476) = 1 TMP\_477 = 1 not(TMP\_477) = 0 TMP\_478 = 1 not(TMP\_478) = 0 TMP\_479 = 1 not(TMP\_479) = 0 TMP\_480 = 1 not(TMP\_480) = 0 TMP\_481 = 5 TMP\_482 = 0 not(TMP\_482) = 1 TMP\_483 = 0 not(TMP\_483) = 1 TMP\_484 = 0 TMP\_485 = 1 not(TMP\_485) = 0 TMP\_486 = 1 not(TMP\_486) = 0 TMP\_487 = 2 TMP\_488 = 0 not(TMP\_488) = 1 TMP\_489 = 0 not(TMP\_489) = 1 TMP\_490 = 1 not(TMP\_490) = 0 TMP\_491 = 1 not(TMP\_491) = 0 TMP\_492 = 1 not(TMP\_492) = 0 TMP\_493 = 2 TMP\_494 = 1 not(TMP\_494) = 0 TMP\_495 = 0 not(TMP\_495) = 1 TMP\_496 = 1 not(TMP\_496) = 0 TMP\_497 = 1 not(TMP\_497) = 0 TMP\_498 = 0 not(TMP\_498) = 1 TMP\_499 = 1 not(TMP\_499) = 0 TMP\_500 = 4 TMP\_501 = 0 not(TMP\_501) = 1 TMP\_502 = 0 not(TMP\_502) = 1 TMP\_503 = 0 TMP\_504 = 1 not(TMP\_504) = 0 TMP\_505 = 1 not(TMP\_505) = 0 TMP\_506 = 2 TMP\_507 = 0 not(TMP\_507) = 1 TMP\_508 = 0 not(TMP\_508) = 1 TMP\_509 = 1 not(TMP\_509) = 0 TMP\_510 = 1 not(TMP\_510) = 0 TMP\_511 = 1 not(TMP\_511) = 0 TMP\_512 = 2 TMP\_513 = 1 not(TMP\_513) = 0 TMP\_514 = 0 not(TMP\_514) = 1 TMP\_515 = 1 not(TMP\_515) = 0 TMP\_516 = 1 not(TMP\_516) = 0 TMP\_517 = 0 not(TMP\_517) = 1 TMP\_518 = 1 not(TMP\_518) = 0 TMP\_519 = 4 TMP\_520 = 0 not(TMP\_520) = 1 TMP\_521 = 0 not(TMP\_521) = 1 TMP\_522 = 0 TMP\_523 = 1 not(TMP\_523) = 0 TMP\_524 = 1 not(TMP\_524) = 0 TMP\_525 = 2 TMP\_526 = 0 not(TMP\_526) = 1 TMP\_527 = 0 not(TMP\_527) = 1 TMP\_528 = 1 not(TMP\_528) = 0 TMP\_529 = 1 not(TMP\_529) = 0 TMP\_530 = 1 not(TMP\_530) = 0 TMP\_531 = 2 TMP\_532 = 1 not(TMP\_532) = 0 TMP\_533 = 0 not(TMP\_533) = 1 TMP\_534 = 1 not(TMP\_534) = 0 TMP\_535 = 1 not(TMP\_535) = 0 TMP\_536 = 0 not(TMP\_536) = 1 TMP\_537 = 1 not(TMP\_537) = 0 TMP\_538 = 4 TMP\_539 = 0 not(TMP\_539) = 1 TMP\_540 = 0 not(TMP\_540) = 1 TMP\_541 = 0 TMP\_542 = 1 not(TMP\_542) = 0 TMP\_543 = 1 not(TMP\_543) = 0 TMP\_544 = 2 TMP\_545 = 0 not(TMP\_545) = 1 TMP\_546 = 0 not(TMP\_546) = 1 TMP\_547 = 1 not(TMP\_547) = 0 TMP\_548 = 1 not(TMP\_548) = 0 TMP\_549 = 1 not(TMP\_549) = 0 TMP\_550 = 2 TMP\_551 = 1 not(TMP\_551) = 0 TMP\_552 = 1 not(TMP\_552) = 0 TMP\_553 = 1 not(TMP\_553) = 0 TMP\_554 = 1 not(TMP\_554) = 0 TMP\_555 = 0 not(TMP\_555) = 1 TMP\_556 = 1 not(TMP\_556) = 0 TMP\_557 = 5 TMP\_558 = 0 not(TMP\_558) = 1 TMP\_559 = 0 not(TMP\_559) = 1 TMP\_560 = 0 TMP\_561 = 1 not(TMP\_561) = 0 TMP\_562 = 1 not(TMP\_562) = 0 TMP\_563 = 2 TMP\_564 = 0 not(TMP\_564) = 1 TMP\_565 = 0 not(TMP\_565) = 1 TMP\_566 = 1 not(TMP\_566) = 0 TMP\_567 = 1 not(TMP\_567) = 0 TMP\_568 = 1 not(TMP\_568) = 0 TMP\_569 = 2 TMP\_570 = 1 not(TMP\_570) = 0 TMP\_571 = 0 not(TMP\_571) = 1 TMP\_572 = 1 not(TMP\_572) = 0 TMP\_573 = 1 not(TMP\_573) = 0 TMP\_574 = 0 not(TMP\_574) = 1 TMP\_575 = 1 not(TMP\_575) = 0 TMP\_576 = 4 TMP\_577 = 0 not(TMP\_577) = 1 TMP\_578 = 0 not(TMP\_578) = 1 TMP\_579 = 0 TMP\_580 = 1 not(TMP\_580) = 0 TMP\_581 = 1 not(TMP\_581) = 0 TMP\_582 = 2 TMP\_583 = 0 not(TMP\_583) = 1 TMP\_584 = 0 not(TMP\_584) = 1 TMP\_585 = 1 not(TMP\_585) = 0 TMP\_586 = 1 not(TMP\_586) = 0 TMP\_587 = 1 not(TMP\_587) = 0 TMP\_588 = 2 TMP\_589 = 1 not(TMP\_589) = 0 TMP\_590 = 0 not(TMP\_590) = 1 TMP\_591 = 1 not(TMP\_591) = 0 TMP\_592 = 1 not(TMP\_592) = 0 TMP\_593 = 1 not(TMP\_593) = 0 TMP\_594 = 1 not(TMP\_594) = 0 TMP\_595 = 5 TMP\_596 = 0 not(TMP\_596) = 1 TMP\_597 = 0 not(TMP\_597) = 1 TMP\_598 = 0 TMP\_599 = 1 not(TMP\_599) = 0 TMP\_600 = 1 not(TMP\_600) = 0 TMP\_601 = 2 TMP\_602 = 0 not(TMP\_602) = 1 TMP\_603 = 0 not(TMP\_603) = 1 TMP\_604 = 1 not(TMP\_604) = 0 TMP\_605 = 1 not(TMP\_605) = 0 TMP\_606 = 1 not(TMP\_606) = 0 TMP\_607 = 2 Area\_0 = 60 Distance\_0\_Rule\_0 = 20 Distance\_1\_Rule\_0 = 3 Distance\_2\_Rule\_0 = 1 Area\_1 = 174 Distance\_0\_Rule\_1 = 58 Distance\_1\_Rule\_1 = 3 Distance\_2\_Rule\_1 = 1 Area\_2 = 116 Distance\_0\_Rule\_2 = 58 Distance\_1\_Rule\_2 = 2 Distance\_2\_Rule\_2 = 1 Area\_3 = 58 Distance\_0\_Rule\_3 = 58 Distance\_1\_Rule\_3 = 1 Distance\_2\_Rule\_3 = 1 Area\_4 = 120 Distance\_0\_Rule\_4 = 40 Distance\_1\_Rule\_4 = 3 Distance\_2\_Rule\_4 = 1 Area\_5 = 63 -(Rule\_5\_LB) = 0 Distance\_0\_Rule\_5 = 21 -(Rule\_5\_LB) = 0 Distance\_1\_Rule\_5 = 3 -(Rule\_5\_LB) = 0 Distance\_2\_Rule\_5 = 1 Area\_6 = 3 -(Rule\_6\_LB) = -79 Distance\_0\_Rule\_6 = 1 -(Rule\_6\_LB) = 0 Distance\_1\_Rule\_6 = 3 -(Rule\_6\_LB) = 0 Distance\_2\_Rule\_6 = 1 Area\_7 = 123 -(Rule\_7\_LB) = -79 Distance\_0\_Rule\_7 = 41 -(Rule\_7\_LB) = 0 Distance\_1\_Rule\_7 = 3 -(Rule\_7\_LB) = -1 Distance\_2\_Rule\_7 = 1 Area\_8 = 3 -(Rule\_8\_LB) = -20 Distance\_0\_Rule\_8 = 1 -(Rule\_8\_LB) = 0 Distance\_1\_Rule\_8 = 3 -(Rule\_8\_LB) = -1 Distance\_2\_Rule\_8 = 1 TMP\_608 = 720 .

- Solution #17 found. 17 Solutions, Resolution 1.117s, 2319 Nodes (2,077.0 n/s), 4545 Backtracks, 2261 Fails, 0 Restarts

Rule\_5\_LB = 0 Rule\_5\_UB = 21 Rule\_5\_LB = 0 Rule\_5\_UB = 3 Rule\_5\_LB = 0 Rule\_5\_UB = 1 Rule\_6\_LB = 79 Rule\_6\_UB = 80 Rule\_6\_LB = 0 Rule\_6\_UB = 3 Rule\_6\_LB = 0 Rule\_6\_UB = 1 Rule\_7\_LB = 79 Rule\_7\_UB = 120 Rule\_7\_LB = 0 Rule\_7\_UB = 3 Rule\_7\_LB = 1 Rule\_7\_UB = 2 Rule\_8\_LB = 20 Rule\_8\_UB = 21 Rule\_8\_LB = 0 Rule\_8\_UB = 3 Rule\_8\_LB = 1 Rule\_8\_UB = 2 Overlaps\_0\_0 = 0 Overlaps\_0\_1 = 0 Overlaps\_0\_2 = 0 Overlaps\_0\_3 = 0 Overlaps\_0\_4 = 0 Overlaps\_0\_5 = 0 Overlaps\_0\_6 = 0 Overlaps\_0\_7 = 0 Overlaps\_0\_8 = 0 Overlaps\_1\_0 = 0 Overlaps\_1\_1 = 0 Overlaps\_1\_2 = 1 Overlaps\_1\_3 = 0 Overlaps\_1\_4 = 0 Overlaps\_1\_5 = 0 Overlaps\_1\_6 = 0 Overlaps\_1\_7 = 0 Overlaps\_1\_8 = 0 Overlaps\_2\_0 = 0 Overlaps\_2\_1 = 0 Overlaps\_2\_2 = 0 Overlaps\_2\_3 = 0 Overlaps\_2\_4 = 0 Overlaps\_2\_5 = 0 Overlaps\_2\_6 = 0 Overlaps\_2\_7 = 0 Overlaps\_2\_8 = 0 Overlaps\_3\_0 = 0 Overlaps\_3\_1 = 0 Overlaps\_3\_2 = 0 Overlaps\_3\_3 = 0 Overlaps\_3\_4 = 0 Overlaps\_3\_5 = 0 Overlaps\_3\_6 = 0 Overlaps\_3\_7 = 0 Overlaps\_3\_8 = 0 Overlaps\_4\_0 = 0 Overlaps\_4\_1 = 0 Overlaps\_4\_2 = 0 Overlaps\_4\_3 = 0 Overlaps\_4\_4 = 0 Overlaps\_4\_5 = 0 Overlaps\_4\_6 = 0 Overlaps\_4\_7 = 0 Overlaps\_4\_8 = 0 Overlaps\_5\_0 = 0 Overlaps\_5\_1 = 0 Overlaps\_5\_2 = 0 Overlaps\_5\_3 = 0 Overlaps\_5\_4 = 0 Overlaps\_5\_5 = 0 Overlaps\_5\_6 = 0 Overlaps\_5\_7 = 0 Overlaps\_5\_8 = 0 Overlaps\_6\_0 = 0 Overlaps\_6\_1 = 0 Overlaps\_6\_2 = 0 Overlaps\_6\_3 = 0 Overlaps\_6\_4 = 0 Overlaps\_6\_5 = 0 Overlaps\_6\_6 = 0 Overlaps\_6\_7 = 0 Overlaps\_6\_8 = 0 Overlaps\_7\_0 = 0 Overlaps\_7\_1 = 0 Overlaps\_7\_2 = 0 Overlaps\_7\_3 = 0 Overlaps\_7\_4 = 0 Overlaps\_7\_5 = 0 Overlaps\_7\_6 = 0 Overlaps\_7\_7 = 0 Overlaps\_7\_8 = 0 Overlaps\_8\_0 = 0 Overlaps\_8\_1 = 0 Overlaps\_8\_2 = 0 Overlaps\_8\_3 = 0 Overlaps\_8\_4 = 0 Overlaps\_8\_5 = 0 Overlaps\_8\_6 = 0 Overlaps\_8\_7 = 0 Overlaps\_8\_8 = 0 TMP\_0 = 1 not(TMP\_0) = 0 TMP\_1 = 1 not(TMP\_1) = 0 TMP\_2 = 1 not(TMP\_2) = 0 TMP\_3 = 1 not(TMP\_3) = 0 TMP\_4 = 1 not(TMP\_4) = 0 TMP\_5 = 0 not(TMP\_5) = 1 TMP\_6 = 5 TMP\_7 = 0 not(TMP\_7) = 1 TMP\_8 = 0 not(TMP\_8) = 1 TMP\_9 = 0 TMP\_10 = 1 not(TMP\_10) = 0 TMP\_11 = 1 not(TMP\_11) = 0 TMP\_12 = 2 TMP\_13 = 0 not(TMP\_13) = 1 TMP\_14 = 0 not(TMP\_14) = 1 TMP\_15 = 1 not(TMP\_15) = 0 TMP\_16 = 1 not(TMP\_16) = 0 TMP\_17 = 1 not(TMP\_17) = 0 TMP\_18 = 2 TMP\_19 = 1 not(TMP\_19) = 0 TMP\_20 = 0 not(TMP\_20) = 1 TMP\_21 = 1 not(TMP\_21) = 0 TMP\_22 = 1 not(TMP\_22) = 0 TMP\_23 = 1 not(TMP\_23) = 0 TMP\_24 = 0 not(TMP\_24) = 1 TMP\_25 = 4 TMP\_26 = 0 not(TMP\_26) = 1 TMP\_27 = 0 not(TMP\_27) = 1 TMP\_28 = 0 TMP\_29 = 1 not(TMP\_29) = 0 TMP\_30 = 1 not(TMP\_30) = 0 TMP\_31 = 2 TMP\_32 = 0 not(TMP\_32) = 1 TMP\_33 = 0 not(TMP\_33) = 1 TMP\_34 = 1 not(TMP\_34) = 0 TMP\_35 = 1 not(TMP\_35) = 0 TMP\_36 = 1 not(TMP\_36) = 0 TMP\_37 = 2 TMP\_38 = 1 not(TMP\_38) = 0 TMP\_39 = 0 not(TMP\_39) = 1 TMP\_40 = 1 not(TMP\_40) = 0 TMP\_41 = 1 not(TMP\_41) = 0 TMP\_42 = 1 not(TMP\_42) = 0 TMP\_43 = 1 not(TMP\_43) = 0 TMP\_44 = 5 TMP\_45 = 0 not(TMP\_45) = 1 TMP\_46 = 0 not(TMP\_46) = 1 TMP\_47 = 0 TMP\_48 = 1 not(TMP\_48) = 0 TMP\_49 = 1 not(TMP\_49) = 0 TMP\_50 = 2 TMP\_51 = 0 not(TMP\_51) = 1 TMP\_52 = 0 not(TMP\_52) = 1 TMP\_53 = 1 not(TMP\_53) = 0 TMP\_54 = 1 not(TMP\_54) = 0 TMP\_55 = 1 not(TMP\_55) = 0 TMP\_56 = 2 TMP\_57 = 1 not(TMP\_57) = 0 TMP\_58 = 0 not(TMP\_58) = 1 TMP\_59 = 1 not(TMP\_59) = 0 TMP\_60 = 1 not(TMP\_60) = 0 TMP\_61 = 1 not(TMP\_61) = 0 TMP\_62 = 1 not(TMP\_62) = 0 TMP\_63 = 5 TMP\_64 = 0 not(TMP\_64) = 1 TMP\_65 = 0 not(TMP\_65) = 1 TMP\_66 = 0 TMP\_67 = 1 not(TMP\_67) = 0 TMP\_68 = 1 not(TMP\_68) = 0 TMP\_69 = 2 TMP\_70 = 0 not(TMP\_70) = 1 TMP\_71 = 0 not(TMP\_71) = 1 TMP\_72 = 1 not(TMP\_72) = 0 TMP\_73 = 1 not(TMP\_73) = 0 TMP\_74 = 1 not(TMP\_74) = 0 TMP\_75 = 2 TMP\_76 = 1 not(TMP\_76) = 0 TMP\_77 = 0 not(TMP\_77) = 1 TMP\_78 = 1 not(TMP\_78) = 0 TMP\_79 = 1 not(TMP\_79) = 0 TMP\_80 = 1 not(TMP\_80) = 0 TMP\_81 = 1 not(TMP\_81) = 0 TMP\_82 = 5 TMP\_83 = 0 not(TMP\_83) = 1 TMP\_84 = 0 not(TMP\_84) = 1 TMP\_85 = 0 TMP\_86 = 1 not(TMP\_86) = 0 TMP\_87 = 1 not(TMP\_87) = 0 TMP\_88 = 2 TMP\_89 = 0 not(TMP\_89) = 1 TMP\_90 = 0 not(TMP\_90) = 1 TMP\_91 = 1 not(TMP\_91) = 0 TMP\_92 = 1 not(TMP\_92) = 0 TMP\_93 = 1 not(TMP\_93) = 0 TMP\_94 = 2 TMP\_95 = 1 not(TMP\_95) = 0 TMP\_96 = 0 not(TMP\_96) = 1 TMP\_97 = 1 not(TMP\_97) = 0 TMP\_98 = 1 not(TMP\_98) = 0 TMP\_99 = 1 not(TMP\_99) = 0 TMP\_100 = 1 not(TMP\_100) = 0 TMP\_101 = 5 TMP\_102 = 0 not(TMP\_102) = 1 TMP\_103 = 0 not(TMP\_103) = 1 TMP\_104 = 0 TMP\_105 = 1 not(TMP\_105) = 0 TMP\_106 = 1 not(TMP\_106) = 0 TMP\_107 = 2 TMP\_108 = 0 not(TMP\_108) = 1 TMP\_109 = 0 not(TMP\_109) = 1 TMP\_110 = 1 not(TMP\_110) = 0 TMP\_111 = 1 not(TMP\_111) = 0 TMP\_112 = 1 not(TMP\_112) = 0 TMP\_113 = 2 TMP\_114 = 1 not(TMP\_114) = 0 TMP\_115 = 0 not(TMP\_115) = 1 TMP\_116 = 1 not(TMP\_116) = 0 TMP\_117 = 1 not(TMP\_117) = 0 TMP\_118 = 1 not(TMP\_118) = 0 TMP\_119 = 0 not(TMP\_119) = 1 TMP\_120 = 4 TMP\_121 = 0 not(TMP\_121) = 1 TMP\_122 = 0 not(TMP\_122) = 1 TMP\_123 = 0 TMP\_124 = 1 not(TMP\_124) = 0 TMP\_125 = 1 not(TMP\_125) = 0 TMP\_126 = 2 TMP\_127 = 0 not(TMP\_127) = 1 TMP\_128 = 0 not(TMP\_128) = 1 TMP\_129 = 1 not(TMP\_129) = 0 TMP\_130 = 1 not(TMP\_130) = 0 TMP\_131 = 1 not(TMP\_131) = 0 TMP\_132 = 2 TMP\_133 = 1 not(TMP\_133) = 0 TMP\_134 = 1 not(TMP\_134) = 0 TMP\_135 = 1 not(TMP\_135) = 0 TMP\_136 = 1 not(TMP\_136) = 0 TMP\_137 = 1 not(TMP\_137) = 0 TMP\_138 = 0 not(TMP\_138) = 1 TMP\_139 = 5 TMP\_140 = 0 not(TMP\_140) = 1 TMP\_141 = 0 not(TMP\_141) = 1 TMP\_142 = 0 TMP\_143 = 1 not(TMP\_143) = 0 TMP\_144 = 1 not(TMP\_144) = 0 TMP\_145 = 2 TMP\_146 = 0 not(TMP\_146) = 1 TMP\_147 = 0 not(TMP\_147) = 1 TMP\_148 = 1 not(TMP\_148) = 0 TMP\_149 = 1 not(TMP\_149) = 0 TMP\_150 = 1 not(TMP\_150) = 0 TMP\_151 = 2 TMP\_152 = 0 not(TMP\_152) = 1 TMP\_153 = 1 not(TMP\_153) = 0 TMP\_154 = 1 not(TMP\_154) = 0 TMP\_155 = 1 not(TMP\_155) = 0 TMP\_156 = 1 not(TMP\_156) = 0 TMP\_157 = 0 not(TMP\_157) = 1 TMP\_158 = 4 TMP\_159 = 0 not(TMP\_159) = 1 TMP\_160 = 0 not(TMP\_160) = 1 TMP\_161 = 0 TMP\_162 = 1 not(TMP\_162) = 0 TMP\_163 = 1 not(TMP\_163) = 0 TMP\_164 = 2 TMP\_165 = 0 not(TMP\_165) = 1 TMP\_166 = 0 not(TMP\_166) = 1 TMP\_167 = 1 not(TMP\_167) = 0 TMP\_168 = 1 not(TMP\_168) = 0 TMP\_169 = 1 not(TMP\_169) = 0 TMP\_170 = 2 TMP\_171 = 0 not(TMP\_171) = 1 TMP\_172 = 1 not(TMP\_172) = 0 TMP\_173 = 1 not(TMP\_173) = 0 TMP\_174 = 1 not(TMP\_174) = 0 TMP\_175 = 1 not(TMP\_175) = 0 TMP\_176 = 0 not(TMP\_176) = 1 TMP\_177 = 4 TMP\_178 = 0 not(TMP\_178) = 1 TMP\_179 = 0 not(TMP\_179) = 1 TMP\_180 = 0 TMP\_181 = 1 not(TMP\_181) = 0 TMP\_182 = 1 not(TMP\_182) = 0 TMP\_183 = 2 TMP\_184 = 0 not(TMP\_184) = 1 TMP\_185 = 0 not(TMP\_185) = 1 TMP\_186 = 1 not(TMP\_186) = 0 TMP\_187 = 1 not(TMP\_187) = 0 TMP\_188 = 1 not(TMP\_188) = 0 TMP\_189 = 2 TMP\_190 = 0 not(TMP\_190) = 1 TMP\_191 = 1 not(TMP\_191) = 0 TMP\_192 = 1 not(TMP\_192) = 0 TMP\_193 = 1 not(TMP\_193) = 0 TMP\_194 = 1 not(TMP\_194) = 0 TMP\_195 = 1 not(TMP\_195) = 0 TMP\_196 = 5 TMP\_197 = 0 not(TMP\_197) = 1 TMP\_198 = 0 not(TMP\_198) = 1 TMP\_199 = 0 TMP\_200 = 1 not(TMP\_200) = 0 TMP\_201 = 1 not(TMP\_201) = 0 TMP\_202 = 2 TMP\_203 = 0 not(TMP\_203) = 1 TMP\_204 = 0 not(TMP\_204) = 1 TMP\_205 = 1 not(TMP\_205) = 0 TMP\_206 = 1 not(TMP\_206) = 0 TMP\_207 = 1 not(TMP\_207) = 0 TMP\_208 = 2 TMP\_209 = 0 not(TMP\_209) = 1 TMP\_210 = 1 not(TMP\_210) = 0 TMP\_211 = 1 not(TMP\_211) = 0 TMP\_212 = 1 not(TMP\_212) = 0 TMP\_213 = 1 not(TMP\_213) = 0 TMP\_214 = 1 not(TMP\_214) = 0 TMP\_215 = 5 TMP\_216 = 0 not(TMP\_216) = 1 TMP\_217 = 0 not(TMP\_217) = 1 TMP\_218 = 0 TMP\_219 = 1 not(TMP\_219) = 0 TMP\_220 = 1 not(TMP\_220) = 0 TMP\_221 = 2 TMP\_222 = 0 not(TMP\_222) = 1 TMP\_223 = 0 not(TMP\_223) = 1 TMP\_224 = 1 not(TMP\_224) = 0 TMP\_225 = 1 not(TMP\_225) = 0 TMP\_226 = 1 not(TMP\_226) = 0 TMP\_227 = 2 TMP\_228 = 1 not(TMP\_228) = 0 TMP\_229 = 0 not(TMP\_229) = 1 TMP\_230 = 1 not(TMP\_230) = 0 TMP\_231 = 1 not(TMP\_231) = 0 TMP\_232 = 1 not(TMP\_232) = 0 TMP\_233 = 1 not(TMP\_233) = 0 TMP\_234 = 5 TMP\_235 = 0 not(TMP\_235) = 1 TMP\_236 = 0 not(TMP\_236) = 1 TMP\_237 = 0 TMP\_238 = 1 not(TMP\_238) = 0 TMP\_239 = 1 not(TMP\_239) = 0 TMP\_240 = 2 TMP\_241 = 0 not(TMP\_241) = 1 TMP\_242 = 0 not(TMP\_242) = 1 TMP\_243 = 1 not(TMP\_243) = 0 TMP\_244 = 1 not(TMP\_244) = 0 TMP\_245 = 1 not(TMP\_245) = 0 TMP\_246 = 2 TMP\_247 = 0 not(TMP\_247) = 1 TMP\_248 = 1 not(TMP\_248) = 0 TMP\_249 = 1 not(TMP\_249) = 0 TMP\_250 = 1 not(TMP\_250) = 0 TMP\_251 = 1 not(TMP\_251) = 0 TMP\_252 = 1 not(TMP\_252) = 0 TMP\_253 = 5 TMP\_254 = 0 not(TMP\_254) = 1 TMP\_255 = 0 not(TMP\_255) = 1 TMP\_256 = 0 TMP\_257 = 1 not(TMP\_257) = 0 TMP\_258 = 1 not(TMP\_258) = 0 TMP\_259 = 2 TMP\_260 = 0 not(TMP\_260) = 1 TMP\_261 = 0 not(TMP\_261) = 1 TMP\_262 = 1 not(TMP\_262) = 0 TMP\_263 = 1 not(TMP\_263) = 0 TMP\_264 = 1 not(TMP\_264) = 0 TMP\_265 = 2 TMP\_266 = 1 not(TMP\_266) = 0 TMP\_267 = 1 not(TMP\_267) = 0 TMP\_268 = 1 not(TMP\_268) = 0 TMP\_269 = 1 not(TMP\_269) = 0 TMP\_270 = 1 not(TMP\_270) = 0 TMP\_271 = 0 not(TMP\_271) = 1 TMP\_272 = 5 TMP\_273 = 0 not(TMP\_273) = 1 TMP\_274 = 0 not(TMP\_274) = 1 TMP\_275 = 0 TMP\_276 = 1 not(TMP\_276) = 0 TMP\_277 = 1 not(TMP\_277) = 0 TMP\_278 = 2 TMP\_279 = 0 not(TMP\_279) = 1 TMP\_280 = 0 not(TMP\_280) = 1 TMP\_281 = 1 not(TMP\_281) = 0 TMP\_282 = 1 not(TMP\_282) = 0 TMP\_283 = 1 not(TMP\_283) = 0 TMP\_284 = 2 TMP\_285 = 0 not(TMP\_285) = 1 TMP\_286 = 1 not(TMP\_286) = 0 TMP\_287 = 1 not(TMP\_287) = 0 TMP\_288 = 1 not(TMP\_288) = 0 TMP\_289 = 1 not(TMP\_289) = 0 TMP\_290 = 0 not(TMP\_290) = 1 TMP\_291 = 4 TMP\_292 = 0 not(TMP\_292) = 1 TMP\_293 = 0 not(TMP\_293) = 1 TMP\_294 = 0 TMP\_295 = 1 not(TMP\_295) = 0 TMP\_296 = 1 not(TMP\_296) = 0 TMP\_297 = 2 TMP\_298 = 0 not(TMP\_298) = 1 TMP\_299 = 0 not(TMP\_299) = 1 TMP\_300 = 1 not(TMP\_300) = 0 TMP\_301 = 1 not(TMP\_301) = 0 TMP\_302 = 1 not(TMP\_302) = 0 TMP\_303 = 2 TMP\_304 = 0 not(TMP\_304) = 1 TMP\_305 = 1 not(TMP\_305) = 0 TMP\_306 = 1 not(TMP\_306) = 0 TMP\_307 = 1 not(TMP\_307) = 0 TMP\_308 = 1 not(TMP\_308) = 0 TMP\_309 = 1 not(TMP\_309) = 0 TMP\_310 = 5 TMP\_311 = 0 not(TMP\_311) = 1 TMP\_312 = 0 not(TMP\_312) = 1 TMP\_313 = 0 TMP\_314 = 1 not(TMP\_314) = 0 TMP\_315 = 1 not(TMP\_315) = 0 TMP\_316 = 2 TMP\_317 = 0 not(TMP\_317) = 1 TMP\_318 = 0 not(TMP\_318) = 1 TMP\_319 = 1 not(TMP\_319) = 0 TMP\_320 = 1 not(TMP\_320) = 0 TMP\_321 = 1 not(TMP\_321) = 0 TMP\_322 = 2 TMP\_323 = 0 not(TMP\_323) = 1 TMP\_324 = 1 not(TMP\_324) = 0 TMP\_325 = 1 not(TMP\_325) = 0 TMP\_326 = 1 not(TMP\_326) = 0 TMP\_327 = 1 not(TMP\_327) = 0 TMP\_328 = 1 not(TMP\_328) = 0 TMP\_329 = 5 TMP\_330 = 0 not(TMP\_330) = 1 TMP\_331 = 0 not(TMP\_331) = 1 TMP\_332 = 0 TMP\_333 = 1 not(TMP\_333) = 0 TMP\_334 = 1 not(TMP\_334) = 0 TMP\_335 = 2 TMP\_336 = 0 not(TMP\_336) = 1 TMP\_337 = 0 not(TMP\_337) = 1 TMP\_338 = 1 not(TMP\_338) = 0 TMP\_339 = 1 not(TMP\_339) = 0 TMP\_340 = 1 not(TMP\_340) = 0 TMP\_341 = 2 TMP\_342 = 0 not(TMP\_342) = 1 TMP\_343 = 1 not(TMP\_343) = 0 TMP\_344 = 1 not(TMP\_344) = 0 TMP\_345 = 1 not(TMP\_345) = 0 TMP\_346 = 0 not(TMP\_346) = 1 TMP\_347 = 1 not(TMP\_347) = 0 TMP\_348 = 4 TMP\_349 = 0 not(TMP\_349) = 1 TMP\_350 = 0 not(TMP\_350) = 1 TMP\_351 = 0 TMP\_352 = 1 not(TMP\_352) = 0 TMP\_353 = 1 not(TMP\_353) = 0 TMP\_354 = 2 TMP\_355 = 0 not(TMP\_355) = 1 TMP\_356 = 0 not(TMP\_356) = 1 TMP\_357 = 1 not(TMP\_357) = 0 TMP\_358 = 1 not(TMP\_358) = 0 TMP\_359 = 1 not(TMP\_359) = 0 TMP\_360 = 2 TMP\_361 = 0 not(TMP\_361) = 1 TMP\_362 = 1 not(TMP\_362) = 0 TMP\_363 = 1 not(TMP\_363) = 0 TMP\_364 = 1 not(TMP\_364) = 0 TMP\_365 = 0 not(TMP\_365) = 1 TMP\_366 = 1 not(TMP\_366) = 0 TMP\_367 = 4 TMP\_368 = 0 not(TMP\_368) = 1 TMP\_369 = 0 not(TMP\_369) = 1 TMP\_370 = 0 TMP\_371 = 1 not(TMP\_371) = 0 TMP\_372 = 1 not(TMP\_372) = 0 TMP\_373 = 2 TMP\_374 = 0 not(TMP\_374) = 1 TMP\_375 = 0 not(TMP\_375) = 1 TMP\_376 = 1 not(TMP\_376) = 0 TMP\_377 = 1 not(TMP\_377) = 0 TMP\_378 = 1 not(TMP\_378) = 0 TMP\_379 = 2 TMP\_380 = 1 not(TMP\_380) = 0 TMP\_381 = 1 not(TMP\_381) = 0 TMP\_382 = 1 not(TMP\_382) = 0 TMP\_383 = 1 not(TMP\_383) = 0 TMP\_384 = 0 not(TMP\_384) = 1 TMP\_385 = 1 not(TMP\_385) = 0 TMP\_386 = 5 TMP\_387 = 0 not(TMP\_387) = 1 TMP\_388 = 0 not(TMP\_388) = 1 TMP\_389 = 0 TMP\_390 = 1 not(TMP\_390) = 0 TMP\_391 = 1 not(TMP\_391) = 0 TMP\_392 = 2 TMP\_393 = 0 not(TMP\_393) = 1 TMP\_394 = 0 not(TMP\_394) = 1 TMP\_395 = 1 not(TMP\_395) = 0 TMP\_396 = 1 not(TMP\_396) = 0 TMP\_397 = 1 not(TMP\_397) = 0 TMP\_398 = 2 TMP\_399 = 0 not(TMP\_399) = 1 TMP\_400 = 1 not(TMP\_400) = 0 TMP\_401 = 1 not(TMP\_401) = 0 TMP\_402 = 1 not(TMP\_402) = 0 TMP\_403 = 0 not(TMP\_403) = 1 TMP\_404 = 1 not(TMP\_404) = 0 TMP\_405 = 4 TMP\_406 = 0 not(TMP\_406) = 1 TMP\_407 = 0 not(TMP\_407) = 1 TMP\_408 = 0 TMP\_409 = 1 not(TMP\_409) = 0 TMP\_410 = 1 not(TMP\_410) = 0 TMP\_411 = 2 TMP\_412 = 0 not(TMP\_412) = 1 TMP\_413 = 0 not(TMP\_413) = 1 TMP\_414 = 1 not(TMP\_414) = 0 TMP\_415 = 1 not(TMP\_415) = 0 TMP\_416 = 1 not(TMP\_416) = 0 TMP\_417 = 2 TMP\_418 = 1 not(TMP\_418) = 0 TMP\_419 = 1 not(TMP\_419) = 0 TMP\_420 = 1 not(TMP\_420) = 0 TMP\_421 = 1 not(TMP\_421) = 0 TMP\_422 = 0 not(TMP\_422) = 1 TMP\_423 = 1 not(TMP\_423) = 0 TMP\_424 = 5 TMP\_425 = 0 not(TMP\_425) = 1 TMP\_426 = 0 not(TMP\_426) = 1 TMP\_427 = 0 TMP\_428 = 1 not(TMP\_428) = 0 TMP\_429 = 1 not(TMP\_429) = 0 TMP\_430 = 2 TMP\_431 = 0 not(TMP\_431) = 1 TMP\_432 = 0 not(TMP\_432) = 1 TMP\_433 = 1 not(TMP\_433) = 0 TMP\_434 = 1 not(TMP\_434) = 0 TMP\_435 = 1 not(TMP\_435) = 0 TMP\_436 = 2 TMP\_437 = 0 not(TMP\_437) = 1 TMP\_438 = 1 not(TMP\_438) = 0 TMP\_439 = 1 not(TMP\_439) = 0 TMP\_440 = 1 not(TMP\_440) = 0 TMP\_441 = 1 not(TMP\_441) = 0 TMP\_442 = 1 not(TMP\_442) = 0 TMP\_443 = 5 TMP\_444 = 0 not(TMP\_444) = 1 TMP\_445 = 0 not(TMP\_445) = 1 TMP\_446 = 0 TMP\_447 = 1 not(TMP\_447) = 0 TMP\_448 = 1 not(TMP\_448) = 0 TMP\_449 = 2 TMP\_450 = 0 not(TMP\_450) = 1 TMP\_451 = 0 not(TMP\_451) = 1 TMP\_452 = 1 not(TMP\_452) = 0 TMP\_453 = 1 not(TMP\_453) = 0 TMP\_454 = 1 not(TMP\_454) = 0 TMP\_455 = 2 TMP\_456 = 0 not(TMP\_456) = 1 TMP\_457 = 1 not(TMP\_457) = 0 TMP\_458 = 1 not(TMP\_458) = 0 TMP\_459 = 1 not(TMP\_459) = 0 TMP\_460 = 1 not(TMP\_460) = 0 TMP\_461 = 1 not(TMP\_461) = 0 TMP\_462 = 5 TMP\_463 = 0 not(TMP\_463) = 1 TMP\_464 = 0 not(TMP\_464) = 1 TMP\_465 = 0 TMP\_466 = 1 not(TMP\_466) = 0 TMP\_467 = 1 not(TMP\_467) = 0 TMP\_468 = 2 TMP\_469 = 0 not(TMP\_469) = 1 TMP\_470 = 0 not(TMP\_470) = 1 TMP\_471 = 1 not(TMP\_471) = 0 TMP\_472 = 1 not(TMP\_472) = 0 TMP\_473 = 1 not(TMP\_473) = 0 TMP\_474 = 2 TMP\_475 = 1 not(TMP\_475) = 0 TMP\_476 = 0 not(TMP\_476) = 1 TMP\_477 = 1 not(TMP\_477) = 0 TMP\_478 = 1 not(TMP\_478) = 0 TMP\_479 = 1 not(TMP\_479) = 0 TMP\_480 = 1 not(TMP\_480) = 0 TMP\_481 = 5 TMP\_482 = 0 not(TMP\_482) = 1 TMP\_483 = 0 not(TMP\_483) = 1 TMP\_484 = 0 TMP\_485 = 1 not(TMP\_485) = 0 TMP\_486 = 1 not(TMP\_486) = 0 TMP\_487 = 2 TMP\_488 = 0 not(TMP\_488) = 1 TMP\_489 = 0 not(TMP\_489) = 1 TMP\_490 = 1 not(TMP\_490) = 0 TMP\_491 = 1 not(TMP\_491) = 0 TMP\_492 = 1 not(TMP\_492) = 0 TMP\_493 = 2 TMP\_494 = 1 not(TMP\_494) = 0 TMP\_495 = 0 not(TMP\_495) = 1 TMP\_496 = 1 not(TMP\_496) = 0 TMP\_497 = 1 not(TMP\_497) = 0 TMP\_498 = 0 not(TMP\_498) = 1 TMP\_499 = 1 not(TMP\_499) = 0 TMP\_500 = 4 TMP\_501 = 0 not(TMP\_501) = 1 TMP\_502 = 0 not(TMP\_502) = 1 TMP\_503 = 0 TMP\_504 = 1 not(TMP\_504) = 0 TMP\_505 = 1 not(TMP\_505) = 0 TMP\_506 = 2 TMP\_507 = 0 not(TMP\_507) = 1 TMP\_508 = 0 not(TMP\_508) = 1 TMP\_509 = 1 not(TMP\_509) = 0 TMP\_510 = 1 not(TMP\_510) = 0 TMP\_511 = 1 not(TMP\_511) = 0 TMP\_512 = 2 TMP\_513 = 1 not(TMP\_513) = 0 TMP\_514 = 0 not(TMP\_514) = 1 TMP\_515 = 1 not(TMP\_515) = 0 TMP\_516 = 1 not(TMP\_516) = 0 TMP\_517 = 0 not(TMP\_517) = 1 TMP\_518 = 1 not(TMP\_518) = 0 TMP\_519 = 4 TMP\_520 = 0 not(TMP\_520) = 1 TMP\_521 = 0 not(TMP\_521) = 1 TMP\_522 = 0 TMP\_523 = 1 not(TMP\_523) = 0 TMP\_524 = 1 not(TMP\_524) = 0 TMP\_525 = 2 TMP\_526 = 0 not(TMP\_526) = 1 TMP\_527 = 0 not(TMP\_527) = 1 TMP\_528 = 1 not(TMP\_528) = 0 TMP\_529 = 1 not(TMP\_529) = 0 TMP\_530 = 1 not(TMP\_530) = 0 TMP\_531 = 2 TMP\_532 = 1 not(TMP\_532) = 0 TMP\_533 = 0 not(TMP\_533) = 1 TMP\_534 = 1 not(TMP\_534) = 0 TMP\_535 = 1 not(TMP\_535) = 0 TMP\_536 = 0 not(TMP\_536) = 1 TMP\_537 = 1 not(TMP\_537) = 0 TMP\_538 = 4 TMP\_539 = 0 not(TMP\_539) = 1 TMP\_540 = 0 not(TMP\_540) = 1 TMP\_541 = 0 TMP\_542 = 1 not(TMP\_542) = 0 TMP\_543 = 1 not(TMP\_543) = 0 TMP\_544 = 2 TMP\_545 = 0 not(TMP\_545) = 1 TMP\_546 = 0 not(TMP\_546) = 1 TMP\_547 = 1 not(TMP\_547) = 0 TMP\_548 = 1 not(TMP\_548) = 0 TMP\_549 = 1 not(TMP\_549) = 0 TMP\_550 = 2 TMP\_551 = 1 not(TMP\_551) = 0 TMP\_552 = 1 not(TMP\_552) = 0 TMP\_553 = 1 not(TMP\_553) = 0 TMP\_554 = 1 not(TMP\_554) = 0 TMP\_555 = 0 not(TMP\_555) = 1 TMP\_556 = 1 not(TMP\_556) = 0 TMP\_557 = 5 TMP\_558 = 0 not(TMP\_558) = 1 TMP\_559 = 0 not(TMP\_559) = 1 TMP\_560 = 0 TMP\_561 = 1 not(TMP\_561) = 0 TMP\_562 = 1 not(TMP\_562) = 0 TMP\_563 = 2 TMP\_564 = 0 not(TMP\_564) = 1 TMP\_565 = 0 not(TMP\_565) = 1 TMP\_566 = 1 not(TMP\_566) = 0 TMP\_567 = 1 not(TMP\_567) = 0 TMP\_568 = 1 not(TMP\_568) = 0 TMP\_569 = 2 TMP\_570 = 1 not(TMP\_570) = 0 TMP\_571 = 0 not(TMP\_571) = 1 TMP\_572 = 1 not(TMP\_572) = 0 TMP\_573 = 1 not(TMP\_573) = 0 TMP\_574 = 0 not(TMP\_574) = 1 TMP\_575 = 1 not(TMP\_575) = 0 TMP\_576 = 4 TMP\_577 = 0 not(TMP\_577) = 1 TMP\_578 = 0 not(TMP\_578) = 1 TMP\_579 = 0 TMP\_580 = 1 not(TMP\_580) = 0 TMP\_581 = 1 not(TMP\_581) = 0 TMP\_582 = 2 TMP\_583 = 0 not(TMP\_583) = 1 TMP\_584 = 0 not(TMP\_584) = 1 TMP\_585 = 1 not(TMP\_585) = 0 TMP\_586 = 1 not(TMP\_586) = 0 TMP\_587 = 1 not(TMP\_587) = 0 TMP\_588 = 2 TMP\_589 = 1 not(TMP\_589) = 0 TMP\_590 = 0 not(TMP\_590) = 1 TMP\_591 = 1 not(TMP\_591) = 0 TMP\_592 = 1 not(TMP\_592) = 0 TMP\_593 = 1 not(TMP\_593) = 0 TMP\_594 = 1 not(TMP\_594) = 0 TMP\_595 = 5 TMP\_596 = 0 not(TMP\_596) = 1 TMP\_597 = 0 not(TMP\_597) = 1 TMP\_598 = 0 TMP\_599 = 1 not(TMP\_599) = 0 TMP\_600 = 1 not(TMP\_600) = 0 TMP\_601 = 2 TMP\_602 = 0 not(TMP\_602) = 1 TMP\_603 = 0 not(TMP\_603) = 1 TMP\_604 = 1 not(TMP\_604) = 0 TMP\_605 = 1 not(TMP\_605) = 0 TMP\_606 = 1 not(TMP\_606) = 0 TMP\_607 = 2 Area\_0 = 60 Distance\_0\_Rule\_0 = 20 Distance\_1\_Rule\_0 = 3 Distance\_2\_Rule\_0 = 1 Area\_1 = 174 Distance\_0\_Rule\_1 = 58 Distance\_1\_Rule\_1 = 3 Distance\_2\_Rule\_1 = 1 Area\_2 = 116 Distance\_0\_Rule\_2 = 58 Distance\_1\_Rule\_2 = 2 Distance\_2\_Rule\_2 = 1 Area\_3 = 58 Distance\_0\_Rule\_3 = 58 Distance\_1\_Rule\_3 = 1 Distance\_2\_Rule\_3 = 1 Area\_4 = 120 Distance\_0\_Rule\_4 = 40 Distance\_1\_Rule\_4 = 3 Distance\_2\_Rule\_4 = 1 Area\_5 = 63 -(Rule\_5\_LB) = 0 Distance\_0\_Rule\_5 = 21 -(Rule\_5\_LB) = 0 Distance\_1\_Rule\_5 = 3 -(Rule\_5\_LB) = 0 Distance\_2\_Rule\_5 = 1 Area\_6 = 3 -(Rule\_6\_LB) = -79 Distance\_0\_Rule\_6 = 1 -(Rule\_6\_LB) = 0 Distance\_1\_Rule\_6 = 3 -(Rule\_6\_LB) = 0 Distance\_2\_Rule\_6 = 1 Area\_7 = 123 -(Rule\_7\_LB) = -79 Distance\_0\_Rule\_7 = 41 -(Rule\_7\_LB) = 0 Distance\_1\_Rule\_7 = 3 -(Rule\_7\_LB) = -1 Distance\_2\_Rule\_7 = 1 Area\_8 = 3 -(Rule\_8\_LB) = -20 Distance\_0\_Rule\_8 = 1 -(Rule\_8\_LB) = 0 Distance\_1\_Rule\_8 = 3 -(Rule\_8\_LB) = -1 Distance\_2\_Rule\_8 = 1 TMP\_608 = 720 .

- Solution #18 found. 18 Solutions, Resolution 1.127s, 2320 Nodes (2,059.1 n/s), 4546 Backtracks, 2261 Fails, 0 Restarts

Rule\_5\_LB = 0 Rule\_5\_UB = 21 Rule\_5\_LB = 0 Rule\_5\_UB = 3 Rule\_5\_LB = 0 Rule\_5\_UB = 1 Rule\_6\_LB = 79 Rule\_6\_UB = 80 Rule\_6\_LB = 0 Rule\_6\_UB = 3 Rule\_6\_LB = 0 Rule\_6\_UB = 1 Rule\_7\_LB = 79 Rule\_7\_UB = 120 Rule\_7\_LB = 0 Rule\_7\_UB = 3 Rule\_7\_LB = 1 Rule\_7\_UB = 2 Rule\_8\_LB = 20 Rule\_8\_UB = 21 Rule\_8\_LB = 0 Rule\_8\_UB = 3 Rule\_8\_LB = 1 Rule\_8\_UB = 2 Overlaps\_0\_0 = 0 Overlaps\_0\_1 = 1 Overlaps\_0\_2 = 0 Overlaps\_0\_3 = 0 Overlaps\_0\_4 = 0 Overlaps\_0\_5 = 0 Overlaps\_0\_6 = 0 Overlaps\_0\_7 = 0 Overlaps\_0\_8 = 0 Overlaps\_1\_0 = 0 Overlaps\_1\_1 = 0 Overlaps\_1\_2 = 1 Overlaps\_1\_3 = 0 Overlaps\_1\_4 = 0 Overlaps\_1\_5 = 0 Overlaps\_1\_6 = 0 Overlaps\_1\_7 = 0 Overlaps\_1\_8 = 0 Overlaps\_2\_0 = 0 Overlaps\_2\_1 = 0 Overlaps\_2\_2 = 0 Overlaps\_2\_3 = 0 Overlaps\_2\_4 = 0 Overlaps\_2\_5 = 0 Overlaps\_2\_6 = 0 Overlaps\_2\_7 = 0 Overlaps\_2\_8 = 0 Overlaps\_3\_0 = 0 Overlaps\_3\_1 = 0 Overlaps\_3\_2 = 0 Overlaps\_3\_3 = 0 Overlaps\_3\_4 = 0 Overlaps\_3\_5 = 0 Overlaps\_3\_6 = 0 Overlaps\_3\_7 = 0 Overlaps\_3\_8 = 0 Overlaps\_4\_0 = 0 Overlaps\_4\_1 = 0 Overlaps\_4\_2 = 0 Overlaps\_4\_3 = 0 Overlaps\_4\_4 = 0 Overlaps\_4\_5 = 0 Overlaps\_4\_6 = 0 Overlaps\_4\_7 = 0 Overlaps\_4\_8 = 0 Overlaps\_5\_0 = 0 Overlaps\_5\_1 = 0 Overlaps\_5\_2 = 0 Overlaps\_5\_3 = 0 Overlaps\_5\_4 = 0 Overlaps\_5\_5 = 0 Overlaps\_5\_6 = 0 Overlaps\_5\_7 = 0 Overlaps\_5\_8 = 0 Overlaps\_6\_0 = 0 Overlaps\_6\_1 = 0 Overlaps\_6\_2 = 0 Overlaps\_6\_3 = 0 Overlaps\_6\_4 = 0 Overlaps\_6\_5 = 0 Overlaps\_6\_6 = 0 Overlaps\_6\_7 = 0 Overlaps\_6\_8 = 0 Overlaps\_7\_0 = 0 Overlaps\_7\_1 = 0 Overlaps\_7\_2 = 0 Overlaps\_7\_3 = 0 Overlaps\_7\_4 = 0 Overlaps\_7\_5 = 0 Overlaps\_7\_6 = 0 Overlaps\_7\_7 = 0 Overlaps\_7\_8 = 0 Overlaps\_8\_0 = 0 Overlaps\_8\_1 = 0 Overlaps\_8\_2 = 0 Overlaps\_8\_3 = 0 Overlaps\_8\_4 = 0 Overlaps\_8\_5 = 0 Overlaps\_8\_6 = 0 Overlaps\_8\_7 = 0 Overlaps\_8\_8 = 0 TMP\_0 = 1 not(TMP\_0) = 0 TMP\_1 = 1 not(TMP\_1) = 0 TMP\_2 = 1 not(TMP\_2) = 0 TMP\_3 = 1 not(TMP\_3) = 0 TMP\_4 = 1 not(TMP\_4) = 0 TMP\_5 = 0 not(TMP\_5) = 1 TMP\_6 = 5 TMP\_7 = 0 not(TMP\_7) = 1 TMP\_8 = 0 not(TMP\_8) = 1 TMP\_9 = 0 TMP\_10 = 1 not(TMP\_10) = 0 TMP\_11 = 1 not(TMP\_11) = 0 TMP\_12 = 2 TMP\_13 = 0 not(TMP\_13) = 1 TMP\_14 = 0 not(TMP\_14) = 1 TMP\_15 = 1 not(TMP\_15) = 0 TMP\_16 = 1 not(TMP\_16) = 0 TMP\_17 = 1 not(TMP\_17) = 0 TMP\_18 = 2 TMP\_19 = 1 not(TMP\_19) = 0 TMP\_20 = 0 not(TMP\_20) = 1 TMP\_21 = 1 not(TMP\_21) = 0 TMP\_22 = 1 not(TMP\_22) = 0 TMP\_23 = 1 not(TMP\_23) = 0 TMP\_24 = 0 not(TMP\_24) = 1 TMP\_25 = 4 TMP\_26 = 0 not(TMP\_26) = 1 TMP\_27 = 0 not(TMP\_27) = 1 TMP\_28 = 0 TMP\_29 = 1 not(TMP\_29) = 0 TMP\_30 = 1 not(TMP\_30) = 0 TMP\_31 = 2 TMP\_32 = 0 not(TMP\_32) = 1 TMP\_33 = 0 not(TMP\_33) = 1 TMP\_34 = 1 not(TMP\_34) = 0 TMP\_35 = 1 not(TMP\_35) = 0 TMP\_36 = 1 not(TMP\_36) = 0 TMP\_37 = 2 TMP\_38 = 1 not(TMP\_38) = 0 TMP\_39 = 0 not(TMP\_39) = 1 TMP\_40 = 1 not(TMP\_40) = 0 TMP\_41 = 1 not(TMP\_41) = 0 TMP\_42 = 1 not(TMP\_42) = 0 TMP\_43 = 1 not(TMP\_43) = 0 TMP\_44 = 5 TMP\_45 = 0 not(TMP\_45) = 1 TMP\_46 = 0 not(TMP\_46) = 1 TMP\_47 = 0 TMP\_48 = 1 not(TMP\_48) = 0 TMP\_49 = 1 not(TMP\_49) = 0 TMP\_50 = 2 TMP\_51 = 0 not(TMP\_51) = 1 TMP\_52 = 0 not(TMP\_52) = 1 TMP\_53 = 1 not(TMP\_53) = 0 TMP\_54 = 1 not(TMP\_54) = 0 TMP\_55 = 1 not(TMP\_55) = 0 TMP\_56 = 2 TMP\_57 = 1 not(TMP\_57) = 0 TMP\_58 = 0 not(TMP\_58) = 1 TMP\_59 = 1 not(TMP\_59) = 0 TMP\_60 = 1 not(TMP\_60) = 0 TMP\_61 = 1 not(TMP\_61) = 0 TMP\_62 = 1 not(TMP\_62) = 0 TMP\_63 = 5 TMP\_64 = 0 not(TMP\_64) = 1 TMP\_65 = 0 not(TMP\_65) = 1 TMP\_66 = 0 TMP\_67 = 1 not(TMP\_67) = 0 TMP\_68 = 1 not(TMP\_68) = 0 TMP\_69 = 2 TMP\_70 = 0 not(TMP\_70) = 1 TMP\_71 = 0 not(TMP\_71) = 1 TMP\_72 = 1 not(TMP\_72) = 0 TMP\_73 = 1 not(TMP\_73) = 0 TMP\_74 = 1 not(TMP\_74) = 0 TMP\_75 = 2 TMP\_76 = 1 not(TMP\_76) = 0 TMP\_77 = 0 not(TMP\_77) = 1 TMP\_78 = 1 not(TMP\_78) = 0 TMP\_79 = 1 not(TMP\_79) = 0 TMP\_80 = 1 not(TMP\_80) = 0 TMP\_81 = 1 not(TMP\_81) = 0 TMP\_82 = 5 TMP\_83 = 0 not(TMP\_83) = 1 TMP\_84 = 0 not(TMP\_84) = 1 TMP\_85 = 0 TMP\_86 = 1 not(TMP\_86) = 0 TMP\_87 = 1 not(TMP\_87) = 0 TMP\_88 = 2 TMP\_89 = 0 not(TMP\_89) = 1 TMP\_90 = 0 not(TMP\_90) = 1 TMP\_91 = 1 not(TMP\_91) = 0 TMP\_92 = 1 not(TMP\_92) = 0 TMP\_93 = 1 not(TMP\_93) = 0 TMP\_94 = 2 TMP\_95 = 1 not(TMP\_95) = 0 TMP\_96 = 0 not(TMP\_96) = 1 TMP\_97 = 1 not(TMP\_97) = 0 TMP\_98 = 1 not(TMP\_98) = 0 TMP\_99 = 1 not(TMP\_99) = 0 TMP\_100 = 1 not(TMP\_100) = 0 TMP\_101 = 5 TMP\_102 = 0 not(TMP\_102) = 1 TMP\_103 = 0 not(TMP\_103) = 1 TMP\_104 = 0 TMP\_105 = 1 not(TMP\_105) = 0 TMP\_106 = 1 not(TMP\_106) = 0 TMP\_107 = 2 TMP\_108 = 0 not(TMP\_108) = 1 TMP\_109 = 0 not(TMP\_109) = 1 TMP\_110 = 1 not(TMP\_110) = 0 TMP\_111 = 1 not(TMP\_111) = 0 TMP\_112 = 1 not(TMP\_112) = 0 TMP\_113 = 2 TMP\_114 = 1 not(TMP\_114) = 0 TMP\_115 = 0 not(TMP\_115) = 1 TMP\_116 = 1 not(TMP\_116) = 0 TMP\_117 = 1 not(TMP\_117) = 0 TMP\_118 = 1 not(TMP\_118) = 0 TMP\_119 = 0 not(TMP\_119) = 1 TMP\_120 = 4 TMP\_121 = 0 not(TMP\_121) = 1 TMP\_122 = 0 not(TMP\_122) = 1 TMP\_123 = 0 TMP\_124 = 1 not(TMP\_124) = 0 TMP\_125 = 1 not(TMP\_125) = 0 TMP\_126 = 2 TMP\_127 = 0 not(TMP\_127) = 1 TMP\_128 = 0 not(TMP\_128) = 1 TMP\_129 = 1 not(TMP\_129) = 0 TMP\_130 = 1 not(TMP\_130) = 0 TMP\_131 = 1 not(TMP\_131) = 0 TMP\_132 = 2 TMP\_133 = 1 not(TMP\_133) = 0 TMP\_134 = 1 not(TMP\_134) = 0 TMP\_135 = 1 not(TMP\_135) = 0 TMP\_136 = 1 not(TMP\_136) = 0 TMP\_137 = 1 not(TMP\_137) = 0 TMP\_138 = 0 not(TMP\_138) = 1 TMP\_139 = 5 TMP\_140 = 0 not(TMP\_140) = 1 TMP\_141 = 0 not(TMP\_141) = 1 TMP\_142 = 0 TMP\_143 = 1 not(TMP\_143) = 0 TMP\_144 = 1 not(TMP\_144) = 0 TMP\_145 = 2 TMP\_146 = 0 not(TMP\_146) = 1 TMP\_147 = 0 not(TMP\_147) = 1 TMP\_148 = 1 not(TMP\_148) = 0 TMP\_149 = 1 not(TMP\_149) = 0 TMP\_150 = 1 not(TMP\_150) = 0 TMP\_151 = 2 TMP\_152 = 0 not(TMP\_152) = 1 TMP\_153 = 1 not(TMP\_153) = 0 TMP\_154 = 1 not(TMP\_154) = 0 TMP\_155 = 1 not(TMP\_155) = 0 TMP\_156 = 1 not(TMP\_156) = 0 TMP\_157 = 0 not(TMP\_157) = 1 TMP\_158 = 4 TMP\_159 = 0 not(TMP\_159) = 1 TMP\_160 = 0 not(TMP\_160) = 1 TMP\_161 = 0 TMP\_162 = 1 not(TMP\_162) = 0 TMP\_163 = 1 not(TMP\_163) = 0 TMP\_164 = 2 TMP\_165 = 0 not(TMP\_165) = 1 TMP\_166 = 0 not(TMP\_166) = 1 TMP\_167 = 1 not(TMP\_167) = 0 TMP\_168 = 1 not(TMP\_168) = 0 TMP\_169 = 1 not(TMP\_169) = 0 TMP\_170 = 2 TMP\_171 = 0 not(TMP\_171) = 1 TMP\_172 = 1 not(TMP\_172) = 0 TMP\_173 = 1 not(TMP\_173) = 0 TMP\_174 = 1 not(TMP\_174) = 0 TMP\_175 = 1 not(TMP\_175) = 0 TMP\_176 = 0 not(TMP\_176) = 1 TMP\_177 = 4 TMP\_178 = 0 not(TMP\_178) = 1 TMP\_179 = 0 not(TMP\_179) = 1 TMP\_180 = 0 TMP\_181 = 1 not(TMP\_181) = 0 TMP\_182 = 1 not(TMP\_182) = 0 TMP\_183 = 2 TMP\_184 = 0 not(TMP\_184) = 1 TMP\_185 = 0 not(TMP\_185) = 1 TMP\_186 = 1 not(TMP\_186) = 0 TMP\_187 = 1 not(TMP\_187) = 0 TMP\_188 = 1 not(TMP\_188) = 0 TMP\_189 = 2 TMP\_190 = 0 not(TMP\_190) = 1 TMP\_191 = 1 not(TMP\_191) = 0 TMP\_192 = 1 not(TMP\_192) = 0 TMP\_193 = 1 not(TMP\_193) = 0 TMP\_194 = 1 not(TMP\_194) = 0 TMP\_195 = 1 not(TMP\_195) = 0 TMP\_196 = 5 TMP\_197 = 0 not(TMP\_197) = 1 TMP\_198 = 0 not(TMP\_198) = 1 TMP\_199 = 0 TMP\_200 = 1 not(TMP\_200) = 0 TMP\_201 = 1 not(TMP\_201) = 0 TMP\_202 = 2 TMP\_203 = 0 not(TMP\_203) = 1 TMP\_204 = 0 not(TMP\_204) = 1 TMP\_205 = 1 not(TMP\_205) = 0 TMP\_206 = 1 not(TMP\_206) = 0 TMP\_207 = 1 not(TMP\_207) = 0 TMP\_208 = 2 TMP\_209 = 0 not(TMP\_209) = 1 TMP\_210 = 1 not(TMP\_210) = 0 TMP\_211 = 1 not(TMP\_211) = 0 TMP\_212 = 1 not(TMP\_212) = 0 TMP\_213 = 1 not(TMP\_213) = 0 TMP\_214 = 1 not(TMP\_214) = 0 TMP\_215 = 5 TMP\_216 = 0 not(TMP\_216) = 1 TMP\_217 = 0 not(TMP\_217) = 1 TMP\_218 = 0 TMP\_219 = 1 not(TMP\_219) = 0 TMP\_220 = 1 not(TMP\_220) = 0 TMP\_221 = 2 TMP\_222 = 0 not(TMP\_222) = 1 TMP\_223 = 0 not(TMP\_223) = 1 TMP\_224 = 1 not(TMP\_224) = 0 TMP\_225 = 1 not(TMP\_225) = 0 TMP\_226 = 1 not(TMP\_226) = 0 TMP\_227 = 2 TMP\_228 = 1 not(TMP\_228) = 0 TMP\_229 = 0 not(TMP\_229) = 1 TMP\_230 = 1 not(TMP\_230) = 0 TMP\_231 = 1 not(TMP\_231) = 0 TMP\_232 = 1 not(TMP\_232) = 0 TMP\_233 = 1 not(TMP\_233) = 0 TMP\_234 = 5 TMP\_235 = 0 not(TMP\_235) = 1 TMP\_236 = 0 not(TMP\_236) = 1 TMP\_237 = 0 TMP\_238 = 1 not(TMP\_238) = 0 TMP\_239 = 1 not(TMP\_239) = 0 TMP\_240 = 2 TMP\_241 = 0 not(TMP\_241) = 1 TMP\_242 = 0 not(TMP\_242) = 1 TMP\_243 = 1 not(TMP\_243) = 0 TMP\_244 = 1 not(TMP\_244) = 0 TMP\_245 = 1 not(TMP\_245) = 0 TMP\_246 = 2 TMP\_247 = 0 not(TMP\_247) = 1 TMP\_248 = 1 not(TMP\_248) = 0 TMP\_249 = 1 not(TMP\_249) = 0 TMP\_250 = 1 not(TMP\_250) = 0 TMP\_251 = 1 not(TMP\_251) = 0 TMP\_252 = 1 not(TMP\_252) = 0 TMP\_253 = 5 TMP\_254 = 0 not(TMP\_254) = 1 TMP\_255 = 0 not(TMP\_255) = 1 TMP\_256 = 0 TMP\_257 = 1 not(TMP\_257) = 0 TMP\_258 = 1 not(TMP\_258) = 0 TMP\_259 = 2 TMP\_260 = 0 not(TMP\_260) = 1 TMP\_261 = 0 not(TMP\_261) = 1 TMP\_262 = 1 not(TMP\_262) = 0 TMP\_263 = 1 not(TMP\_263) = 0 TMP\_264 = 1 not(TMP\_264) = 0 TMP\_265 = 2 TMP\_266 = 1 not(TMP\_266) = 0 TMP\_267 = 1 not(TMP\_267) = 0 TMP\_268 = 1 not(TMP\_268) = 0 TMP\_269 = 1 not(TMP\_269) = 0 TMP\_270 = 1 not(TMP\_270) = 0 TMP\_271 = 0 not(TMP\_271) = 1 TMP\_272 = 5 TMP\_273 = 0 not(TMP\_273) = 1 TMP\_274 = 0 not(TMP\_274) = 1 TMP\_275 = 0 TMP\_276 = 1 not(TMP\_276) = 0 TMP\_277 = 1 not(TMP\_277) = 0 TMP\_278 = 2 TMP\_279 = 0 not(TMP\_279) = 1 TMP\_280 = 0 not(TMP\_280) = 1 TMP\_281 = 1 not(TMP\_281) = 0 TMP\_282 = 1 not(TMP\_282) = 0 TMP\_283 = 1 not(TMP\_283) = 0 TMP\_284 = 2 TMP\_285 = 0 not(TMP\_285) = 1 TMP\_286 = 1 not(TMP\_286) = 0 TMP\_287 = 1 not(TMP\_287) = 0 TMP\_288 = 1 not(TMP\_288) = 0 TMP\_289 = 1 not(TMP\_289) = 0 TMP\_290 = 0 not(TMP\_290) = 1 TMP\_291 = 4 TMP\_292 = 0 not(TMP\_292) = 1 TMP\_293 = 0 not(TMP\_293) = 1 TMP\_294 = 0 TMP\_295 = 1 not(TMP\_295) = 0 TMP\_296 = 1 not(TMP\_296) = 0 TMP\_297 = 2 TMP\_298 = 0 not(TMP\_298) = 1 TMP\_299 = 0 not(TMP\_299) = 1 TMP\_300 = 1 not(TMP\_300) = 0 TMP\_301 = 1 not(TMP\_301) = 0 TMP\_302 = 1 not(TMP\_302) = 0 TMP\_303 = 2 TMP\_304 = 0 not(TMP\_304) = 1 TMP\_305 = 1 not(TMP\_305) = 0 TMP\_306 = 1 not(TMP\_306) = 0 TMP\_307 = 1 not(TMP\_307) = 0 TMP\_308 = 1 not(TMP\_308) = 0 TMP\_309 = 1 not(TMP\_309) = 0 TMP\_310 = 5 TMP\_311 = 0 not(TMP\_311) = 1 TMP\_312 = 0 not(TMP\_312) = 1 TMP\_313 = 0 TMP\_314 = 1 not(TMP\_314) = 0 TMP\_315 = 1 not(TMP\_315) = 0 TMP\_316 = 2 TMP\_317 = 0 not(TMP\_317) = 1 TMP\_318 = 0 not(TMP\_318) = 1 TMP\_319 = 1 not(TMP\_319) = 0 TMP\_320 = 1 not(TMP\_320) = 0 TMP\_321 = 1 not(TMP\_321) = 0 TMP\_322 = 2 TMP\_323 = 0 not(TMP\_323) = 1 TMP\_324 = 1 not(TMP\_324) = 0 TMP\_325 = 1 not(TMP\_325) = 0 TMP\_326 = 1 not(TMP\_326) = 0 TMP\_327 = 1 not(TMP\_327) = 0 TMP\_328 = 1 not(TMP\_328) = 0 TMP\_329 = 5 TMP\_330 = 0 not(TMP\_330) = 1 TMP\_331 = 0 not(TMP\_331) = 1 TMP\_332 = 0 TMP\_333 = 1 not(TMP\_333) = 0 TMP\_334 = 1 not(TMP\_334) = 0 TMP\_335 = 2 TMP\_336 = 0 not(TMP\_336) = 1 TMP\_337 = 0 not(TMP\_337) = 1 TMP\_338 = 1 not(TMP\_338) = 0 TMP\_339 = 1 not(TMP\_339) = 0 TMP\_340 = 1 not(TMP\_340) = 0 TMP\_341 = 2 TMP\_342 = 0 not(TMP\_342) = 1 TMP\_343 = 1 not(TMP\_343) = 0 TMP\_344 = 1 not(TMP\_344) = 0 TMP\_345 = 1 not(TMP\_345) = 0 TMP\_346 = 0 not(TMP\_346) = 1 TMP\_347 = 1 not(TMP\_347) = 0 TMP\_348 = 4 TMP\_349 = 0 not(TMP\_349) = 1 TMP\_350 = 0 not(TMP\_350) = 1 TMP\_351 = 0 TMP\_352 = 1 not(TMP\_352) = 0 TMP\_353 = 1 not(TMP\_353) = 0 TMP\_354 = 2 TMP\_355 = 0 not(TMP\_355) = 1 TMP\_356 = 0 not(TMP\_356) = 1 TMP\_357 = 1 not(TMP\_357) = 0 TMP\_358 = 1 not(TMP\_358) = 0 TMP\_359 = 1 not(TMP\_359) = 0 TMP\_360 = 2 TMP\_361 = 0 not(TMP\_361) = 1 TMP\_362 = 1 not(TMP\_362) = 0 TMP\_363 = 1 not(TMP\_363) = 0 TMP\_364 = 1 not(TMP\_364) = 0 TMP\_365 = 0 not(TMP\_365) = 1 TMP\_366 = 1 not(TMP\_366) = 0 TMP\_367 = 4 TMP\_368 = 0 not(TMP\_368) = 1 TMP\_369 = 0 not(TMP\_369) = 1 TMP\_370 = 0 TMP\_371 = 1 not(TMP\_371) = 0 TMP\_372 = 1 not(TMP\_372) = 0 TMP\_373 = 2 TMP\_374 = 0 not(TMP\_374) = 1 TMP\_375 = 0 not(TMP\_375) = 1 TMP\_376 = 1 not(TMP\_376) = 0 TMP\_377 = 1 not(TMP\_377) = 0 TMP\_378 = 1 not(TMP\_378) = 0 TMP\_379 = 2 TMP\_380 = 1 not(TMP\_380) = 0 TMP\_381 = 1 not(TMP\_381) = 0 TMP\_382 = 1 not(TMP\_382) = 0 TMP\_383 = 1 not(TMP\_383) = 0 TMP\_384 = 0 not(TMP\_384) = 1 TMP\_385 = 1 not(TMP\_385) = 0 TMP\_386 = 5 TMP\_387 = 0 not(TMP\_387) = 1 TMP\_388 = 0 not(TMP\_388) = 1 TMP\_389 = 0 TMP\_390 = 1 not(TMP\_390) = 0 TMP\_391 = 1 not(TMP\_391) = 0 TMP\_392 = 2 TMP\_393 = 0 not(TMP\_393) = 1 TMP\_394 = 0 not(TMP\_394) = 1 TMP\_395 = 1 not(TMP\_395) = 0 TMP\_396 = 1 not(TMP\_396) = 0 TMP\_397 = 1 not(TMP\_397) = 0 TMP\_398 = 2 TMP\_399 = 0 not(TMP\_399) = 1 TMP\_400 = 1 not(TMP\_400) = 0 TMP\_401 = 1 not(TMP\_401) = 0 TMP\_402 = 1 not(TMP\_402) = 0 TMP\_403 = 0 not(TMP\_403) = 1 TMP\_404 = 1 not(TMP\_404) = 0 TMP\_405 = 4 TMP\_406 = 0 not(TMP\_406) = 1 TMP\_407 = 0 not(TMP\_407) = 1 TMP\_408 = 0 TMP\_409 = 1 not(TMP\_409) = 0 TMP\_410 = 1 not(TMP\_410) = 0 TMP\_411 = 2 TMP\_412 = 0 not(TMP\_412) = 1 TMP\_413 = 0 not(TMP\_413) = 1 TMP\_414 = 1 not(TMP\_414) = 0 TMP\_415 = 1 not(TMP\_415) = 0 TMP\_416 = 1 not(TMP\_416) = 0 TMP\_417 = 2 TMP\_418 = 1 not(TMP\_418) = 0 TMP\_419 = 1 not(TMP\_419) = 0 TMP\_420 = 1 not(TMP\_420) = 0 TMP\_421 = 1 not(TMP\_421) = 0 TMP\_422 = 0 not(TMP\_422) = 1 TMP\_423 = 1 not(TMP\_423) = 0 TMP\_424 = 5 TMP\_425 = 0 not(TMP\_425) = 1 TMP\_426 = 0 not(TMP\_426) = 1 TMP\_427 = 0 TMP\_428 = 1 not(TMP\_428) = 0 TMP\_429 = 1 not(TMP\_429) = 0 TMP\_430 = 2 TMP\_431 = 0 not(TMP\_431) = 1 TMP\_432 = 0 not(TMP\_432) = 1 TMP\_433 = 1 not(TMP\_433) = 0 TMP\_434 = 1 not(TMP\_434) = 0 TMP\_435 = 1 not(TMP\_435) = 0 TMP\_436 = 2 TMP\_437 = 0 not(TMP\_437) = 1 TMP\_438 = 1 not(TMP\_438) = 0 TMP\_439 = 1 not(TMP\_439) = 0 TMP\_440 = 1 not(TMP\_440) = 0 TMP\_441 = 1 not(TMP\_441) = 0 TMP\_442 = 1 not(TMP\_442) = 0 TMP\_443 = 5 TMP\_444 = 0 not(TMP\_444) = 1 TMP\_445 = 0 not(TMP\_445) = 1 TMP\_446 = 0 TMP\_447 = 1 not(TMP\_447) = 0 TMP\_448 = 1 not(TMP\_448) = 0 TMP\_449 = 2 TMP\_450 = 0 not(TMP\_450) = 1 TMP\_451 = 0 not(TMP\_451) = 1 TMP\_452 = 1 not(TMP\_452) = 0 TMP\_453 = 1 not(TMP\_453) = 0 TMP\_454 = 1 not(TMP\_454) = 0 TMP\_455 = 2 TMP\_456 = 0 not(TMP\_456) = 1 TMP\_457 = 1 not(TMP\_457) = 0 TMP\_458 = 1 not(TMP\_458) = 0 TMP\_459 = 1 not(TMP\_459) = 0 TMP\_460 = 1 not(TMP\_460) = 0 TMP\_461 = 1 not(TMP\_461) = 0 TMP\_462 = 5 TMP\_463 = 0 not(TMP\_463) = 1 TMP\_464 = 0 not(TMP\_464) = 1 TMP\_465 = 0 TMP\_466 = 1 not(TMP\_466) = 0 TMP\_467 = 1 not(TMP\_467) = 0 TMP\_468 = 2 TMP\_469 = 0 not(TMP\_469) = 1 TMP\_470 = 0 not(TMP\_470) = 1 TMP\_471 = 1 not(TMP\_471) = 0 TMP\_472 = 1 not(TMP\_472) = 0 TMP\_473 = 1 not(TMP\_473) = 0 TMP\_474 = 2 TMP\_475 = 1 not(TMP\_475) = 0 TMP\_476 = 0 not(TMP\_476) = 1 TMP\_477 = 1 not(TMP\_477) = 0 TMP\_478 = 1 not(TMP\_478) = 0 TMP\_479 = 1 not(TMP\_479) = 0 TMP\_480 = 1 not(TMP\_480) = 0 TMP\_481 = 5 TMP\_482 = 0 not(TMP\_482) = 1 TMP\_483 = 0 not(TMP\_483) = 1 TMP\_484 = 0 TMP\_485 = 1 not(TMP\_485) = 0 TMP\_486 = 1 not(TMP\_486) = 0 TMP\_487 = 2 TMP\_488 = 0 not(TMP\_488) = 1 TMP\_489 = 0 not(TMP\_489) = 1 TMP\_490 = 1 not(TMP\_490) = 0 TMP\_491 = 1 not(TMP\_491) = 0 TMP\_492 = 1 not(TMP\_492) = 0 TMP\_493 = 2 TMP\_494 = 1 not(TMP\_494) = 0 TMP\_495 = 0 not(TMP\_495) = 1 TMP\_496 = 1 not(TMP\_496) = 0 TMP\_497 = 1 not(TMP\_497) = 0 TMP\_498 = 0 not(TMP\_498) = 1 TMP\_499 = 1 not(TMP\_499) = 0 TMP\_500 = 4 TMP\_501 = 0 not(TMP\_501) = 1 TMP\_502 = 0 not(TMP\_502) = 1 TMP\_503 = 0 TMP\_504 = 1 not(TMP\_504) = 0 TMP\_505 = 1 not(TMP\_505) = 0 TMP\_506 = 2 TMP\_507 = 0 not(TMP\_507) = 1 TMP\_508 = 0 not(TMP\_508) = 1 TMP\_509 = 1 not(TMP\_509) = 0 TMP\_510 = 1 not(TMP\_510) = 0 TMP\_511 = 1 not(TMP\_511) = 0 TMP\_512 = 2 TMP\_513 = 1 not(TMP\_513) = 0 TMP\_514 = 0 not(TMP\_514) = 1 TMP\_515 = 1 not(TMP\_515) = 0 TMP\_516 = 1 not(TMP\_516) = 0 TMP\_517 = 0 not(TMP\_517) = 1 TMP\_518 = 1 not(TMP\_518) = 0 TMP\_519 = 4 TMP\_520 = 0 not(TMP\_520) = 1 TMP\_521 = 0 not(TMP\_521) = 1 TMP\_522 = 0 TMP\_523 = 1 not(TMP\_523) = 0 TMP\_524 = 1 not(TMP\_524) = 0 TMP\_525 = 2 TMP\_526 = 0 not(TMP\_526) = 1 TMP\_527 = 0 not(TMP\_527) = 1 TMP\_528 = 1 not(TMP\_528) = 0 TMP\_529 = 1 not(TMP\_529) = 0 TMP\_530 = 1 not(TMP\_530) = 0 TMP\_531 = 2 TMP\_532 = 1 not(TMP\_532) = 0 TMP\_533 = 0 not(TMP\_533) = 1 TMP\_534 = 1 not(TMP\_534) = 0 TMP\_535 = 1 not(TMP\_535) = 0 TMP\_536 = 0 not(TMP\_536) = 1 TMP\_537 = 1 not(TMP\_537) = 0 TMP\_538 = 4 TMP\_539 = 0 not(TMP\_539) = 1 TMP\_540 = 0 not(TMP\_540) = 1 TMP\_541 = 0 TMP\_542 = 1 not(TMP\_542) = 0 TMP\_543 = 1 not(TMP\_543) = 0 TMP\_544 = 2 TMP\_545 = 0 not(TMP\_545) = 1 TMP\_546 = 0 not(TMP\_546) = 1 TMP\_547 = 1 not(TMP\_547) = 0 TMP\_548 = 1 not(TMP\_548) = 0 TMP\_549 = 1 not(TMP\_549) = 0 TMP\_550 = 2 TMP\_551 = 1 not(TMP\_551) = 0 TMP\_552 = 1 not(TMP\_552) = 0 TMP\_553 = 1 not(TMP\_553) = 0 TMP\_554 = 1 not(TMP\_554) = 0 TMP\_555 = 0 not(TMP\_555) = 1 TMP\_556 = 1 not(TMP\_556) = 0 TMP\_557 = 5 TMP\_558 = 0 not(TMP\_558) = 1 TMP\_559 = 0 not(TMP\_559) = 1 TMP\_560 = 0 TMP\_561 = 1 not(TMP\_561) = 0 TMP\_562 = 1 not(TMP\_562) = 0 TMP\_563 = 2 TMP\_564 = 0 not(TMP\_564) = 1 TMP\_565 = 0 not(TMP\_565) = 1 TMP\_566 = 1 not(TMP\_566) = 0 TMP\_567 = 1 not(TMP\_567) = 0 TMP\_568 = 1 not(TMP\_568) = 0 TMP\_569 = 2 TMP\_570 = 1 not(TMP\_570) = 0 TMP\_571 = 0 not(TMP\_571) = 1 TMP\_572 = 1 not(TMP\_572) = 0 TMP\_573 = 1 not(TMP\_573) = 0 TMP\_574 = 0 not(TMP\_574) = 1 TMP\_575 = 1 not(TMP\_575) = 0 TMP\_576 = 4 TMP\_577 = 0 not(TMP\_577) = 1 TMP\_578 = 0 not(TMP\_578) = 1 TMP\_579 = 0 TMP\_580 = 1 not(TMP\_580) = 0 TMP\_581 = 1 not(TMP\_581) = 0 TMP\_582 = 2 TMP\_583 = 0 not(TMP\_583) = 1 TMP\_584 = 0 not(TMP\_584) = 1 TMP\_585 = 1 not(TMP\_585) = 0 TMP\_586 = 1 not(TMP\_586) = 0 TMP\_587 = 1 not(TMP\_587) = 0 TMP\_588 = 2 TMP\_589 = 1 not(TMP\_589) = 0 TMP\_590 = 0 not(TMP\_590) = 1 TMP\_591 = 1 not(TMP\_591) = 0 TMP\_592 = 1 not(TMP\_592) = 0 TMP\_593 = 1 not(TMP\_593) = 0 TMP\_594 = 1 not(TMP\_594) = 0 TMP\_595 = 5 TMP\_596 = 0 not(TMP\_596) = 1 TMP\_597 = 0 not(TMP\_597) = 1 TMP\_598 = 0 TMP\_599 = 1 not(TMP\_599) = 0 TMP\_600 = 1 not(TMP\_600) = 0 TMP\_601 = 2 TMP\_602 = 0 not(TMP\_602) = 1 TMP\_603 = 0 not(TMP\_603) = 1 TMP\_604 = 1 not(TMP\_604) = 0 TMP\_605 = 1 not(TMP\_605) = 0 TMP\_606 = 1 not(TMP\_606) = 0 TMP\_607 = 2 Area\_0 = 60 Distance\_0\_Rule\_0 = 20 Distance\_1\_Rule\_0 = 3 Distance\_2\_Rule\_0 = 1 Area\_1 = 174 Distance\_0\_Rule\_1 = 58 Distance\_1\_Rule\_1 = 3 Distance\_2\_Rule\_1 = 1 Area\_2 = 116 Distance\_0\_Rule\_2 = 58 Distance\_1\_Rule\_2 = 2 Distance\_2\_Rule\_2 = 1 Area\_3 = 58 Distance\_0\_Rule\_3 = 58 Distance\_1\_Rule\_3 = 1 Distance\_2\_Rule\_3 = 1 Area\_4 = 120 Distance\_0\_Rule\_4 = 40 Distance\_1\_Rule\_4 = 3 Distance\_2\_Rule\_4 = 1 Area\_5 = 63 -(Rule\_5\_LB) = 0 Distance\_0\_Rule\_5 = 21 -(Rule\_5\_LB) = 0 Distance\_1\_Rule\_5 = 3 -(Rule\_5\_LB) = 0 Distance\_2\_Rule\_5 = 1 Area\_6 = 3 -(Rule\_6\_LB) = -79 Distance\_0\_Rule\_6 = 1 -(Rule\_6\_LB) = 0 Distance\_1\_Rule\_6 = 3 -(Rule\_6\_LB) = 0 Distance\_2\_Rule\_6 = 1 Area\_7 = 123 -(Rule\_7\_LB) = -79 Distance\_0\_Rule\_7 = 41 -(Rule\_7\_LB) = 0 Distance\_1\_Rule\_7 = 3 -(Rule\_7\_LB) = -1 Distance\_2\_Rule\_7 = 1 Area\_8 = 3 -(Rule\_8\_LB) = -20 Distance\_0\_Rule\_8 = 1 -(Rule\_8\_LB) = 0 Distance\_1\_Rule\_8 = 3 -(Rule\_8\_LB) = -1 Distance\_2\_Rule\_8 = 1 TMP\_608 = 720 .

- Solution #19 found. 19 Solutions, Resolution 1.131s, 2322 Nodes (2,053.8 n/s), 4548 Backtracks, 2261 Fails, 0 Restarts

Rule\_5\_LB = 0 Rule\_5\_UB = 21 Rule\_5\_LB = 0 Rule\_5\_UB = 3 Rule\_5\_LB = 0 Rule\_5\_UB = 1 Rule\_6\_LB = 79 Rule\_6\_UB = 80 Rule\_6\_LB = 0 Rule\_6\_UB = 3 Rule\_6\_LB = 0 Rule\_6\_UB = 1 Rule\_7\_LB = 79 Rule\_7\_UB = 120 Rule\_7\_LB = 0 Rule\_7\_UB = 3 Rule\_7\_LB = 1 Rule\_7\_UB = 2 Rule\_8\_LB = 20 Rule\_8\_UB = 21 Rule\_8\_LB = 0 Rule\_8\_UB = 3 Rule\_8\_LB = 1 Rule\_8\_UB = 2 Overlaps\_0\_0 = 0 Overlaps\_0\_1 = 0 Overlaps\_0\_2 = 0 Overlaps\_0\_3 = 0 Overlaps\_0\_4 = 0 Overlaps\_0\_5 = 0 Overlaps\_0\_6 = 0 Overlaps\_0\_7 = 0 Overlaps\_0\_8 = 0 Overlaps\_1\_0 = 0 Overlaps\_1\_1 = 0 Overlaps\_1\_2 = 1 Overlaps\_1\_3 = 0 Overlaps\_1\_4 = 0 Overlaps\_1\_5 = 0 Overlaps\_1\_6 = 0 Overlaps\_1\_7 = 0 Overlaps\_1\_8 = 0 Overlaps\_2\_0 = 0 Overlaps\_2\_1 = 0 Overlaps\_2\_2 = 0 Overlaps\_2\_3 = 0 Overlaps\_2\_4 = 1 Overlaps\_2\_5 = 0 Overlaps\_2\_6 = 0 Overlaps\_2\_7 = 0 Overlaps\_2\_8 = 0 Overlaps\_3\_0 = 0 Overlaps\_3\_1 = 0 Overlaps\_3\_2 = 0 Overlaps\_3\_3 = 0 Overlaps\_3\_4 = 0 Overlaps\_3\_5 = 0 Overlaps\_3\_6 = 0 Overlaps\_3\_7 = 0 Overlaps\_3\_8 = 0 Overlaps\_4\_0 = 0 Overlaps\_4\_1 = 0 Overlaps\_4\_2 = 0 Overlaps\_4\_3 = 0 Overlaps\_4\_4 = 0 Overlaps\_4\_5 = 0 Overlaps\_4\_6 = 0 Overlaps\_4\_7 = 0 Overlaps\_4\_8 = 0 Overlaps\_5\_0 = 0 Overlaps\_5\_1 = 0 Overlaps\_5\_2 = 0 Overlaps\_5\_3 = 0 Overlaps\_5\_4 = 0 Overlaps\_5\_5 = 0 Overlaps\_5\_6 = 0 Overlaps\_5\_7 = 0 Overlaps\_5\_8 = 0 Overlaps\_6\_0 = 0 Overlaps\_6\_1 = 0 Overlaps\_6\_2 = 0 Overlaps\_6\_3 = 0 Overlaps\_6\_4 = 0 Overlaps\_6\_5 = 0 Overlaps\_6\_6 = 0 Overlaps\_6\_7 = 0 Overlaps\_6\_8 = 0 Overlaps\_7\_0 = 0 Overlaps\_7\_1 = 0 Overlaps\_7\_2 = 0 Overlaps\_7\_3 = 0 Overlaps\_7\_4 = 0 Overlaps\_7\_5 = 0 Overlaps\_7\_6 = 0 Overlaps\_7\_7 = 0 Overlaps\_7\_8 = 0 Overlaps\_8\_0 = 0 Overlaps\_8\_1 = 0 Overlaps\_8\_2 = 0 Overlaps\_8\_3 = 0 Overlaps\_8\_4 = 0 Overlaps\_8\_5 = 0 Overlaps\_8\_6 = 0 Overlaps\_8\_7 = 0 Overlaps\_8\_8 = 0 TMP\_0 = 1 not(TMP\_0) = 0 TMP\_1 = 1 not(TMP\_1) = 0 TMP\_2 = 1 not(TMP\_2) = 0 TMP\_3 = 1 not(TMP\_3) = 0 TMP\_4 = 1 not(TMP\_4) = 0 TMP\_5 = 0 not(TMP\_5) = 1 TMP\_6 = 5 TMP\_7 = 0 not(TMP\_7) = 1 TMP\_8 = 0 not(TMP\_8) = 1 TMP\_9 = 0 TMP\_10 = 1 not(TMP\_10) = 0 TMP\_11 = 1 not(TMP\_11) = 0 TMP\_12 = 2 TMP\_13 = 0 not(TMP\_13) = 1 TMP\_14 = 0 not(TMP\_14) = 1 TMP\_15 = 1 not(TMP\_15) = 0 TMP\_16 = 1 not(TMP\_16) = 0 TMP\_17 = 1 not(TMP\_17) = 0 TMP\_18 = 2 TMP\_19 = 1 not(TMP\_19) = 0 TMP\_20 = 0 not(TMP\_20) = 1 TMP\_21 = 1 not(TMP\_21) = 0 TMP\_22 = 1 not(TMP\_22) = 0 TMP\_23 = 1 not(TMP\_23) = 0 TMP\_24 = 0 not(TMP\_24) = 1 TMP\_25 = 4 TMP\_26 = 0 not(TMP\_26) = 1 TMP\_27 = 0 not(TMP\_27) = 1 TMP\_28 = 0 TMP\_29 = 1 not(TMP\_29) = 0 TMP\_30 = 1 not(TMP\_30) = 0 TMP\_31 = 2 TMP\_32 = 0 not(TMP\_32) = 1 TMP\_33 = 0 not(TMP\_33) = 1 TMP\_34 = 1 not(TMP\_34) = 0 TMP\_35 = 1 not(TMP\_35) = 0 TMP\_36 = 1 not(TMP\_36) = 0 TMP\_37 = 2 TMP\_38 = 1 not(TMP\_38) = 0 TMP\_39 = 0 not(TMP\_39) = 1 TMP\_40 = 1 not(TMP\_40) = 0 TMP\_41 = 1 not(TMP\_41) = 0 TMP\_42 = 1 not(TMP\_42) = 0 TMP\_43 = 1 not(TMP\_43) = 0 TMP\_44 = 5 TMP\_45 = 0 not(TMP\_45) = 1 TMP\_46 = 0 not(TMP\_46) = 1 TMP\_47 = 0 TMP\_48 = 1 not(TMP\_48) = 0 TMP\_49 = 1 not(TMP\_49) = 0 TMP\_50 = 2 TMP\_51 = 0 not(TMP\_51) = 1 TMP\_52 = 0 not(TMP\_52) = 1 TMP\_53 = 1 not(TMP\_53) = 0 TMP\_54 = 1 not(TMP\_54) = 0 TMP\_55 = 1 not(TMP\_55) = 0 TMP\_56 = 2 TMP\_57 = 1 not(TMP\_57) = 0 TMP\_58 = 0 not(TMP\_58) = 1 TMP\_59 = 1 not(TMP\_59) = 0 TMP\_60 = 1 not(TMP\_60) = 0 TMP\_61 = 1 not(TMP\_61) = 0 TMP\_62 = 1 not(TMP\_62) = 0 TMP\_63 = 5 TMP\_64 = 0 not(TMP\_64) = 1 TMP\_65 = 0 not(TMP\_65) = 1 TMP\_66 = 0 TMP\_67 = 1 not(TMP\_67) = 0 TMP\_68 = 1 not(TMP\_68) = 0 TMP\_69 = 2 TMP\_70 = 0 not(TMP\_70) = 1 TMP\_71 = 0 not(TMP\_71) = 1 TMP\_72 = 1 not(TMP\_72) = 0 TMP\_73 = 1 not(TMP\_73) = 0 TMP\_74 = 1 not(TMP\_74) = 0 TMP\_75 = 2 TMP\_76 = 1 not(TMP\_76) = 0 TMP\_77 = 0 not(TMP\_77) = 1 TMP\_78 = 1 not(TMP\_78) = 0 TMP\_79 = 1 not(TMP\_79) = 0 TMP\_80 = 1 not(TMP\_80) = 0 TMP\_81 = 1 not(TMP\_81) = 0 TMP\_82 = 5 TMP\_83 = 0 not(TMP\_83) = 1 TMP\_84 = 0 not(TMP\_84) = 1 TMP\_85 = 0 TMP\_86 = 1 not(TMP\_86) = 0 TMP\_87 = 1 not(TMP\_87) = 0 TMP\_88 = 2 TMP\_89 = 0 not(TMP\_89) = 1 TMP\_90 = 0 not(TMP\_90) = 1 TMP\_91 = 1 not(TMP\_91) = 0 TMP\_92 = 1 not(TMP\_92) = 0 TMP\_93 = 1 not(TMP\_93) = 0 TMP\_94 = 2 TMP\_95 = 1 not(TMP\_95) = 0 TMP\_96 = 0 not(TMP\_96) = 1 TMP\_97 = 1 not(TMP\_97) = 0 TMP\_98 = 1 not(TMP\_98) = 0 TMP\_99 = 1 not(TMP\_99) = 0 TMP\_100 = 1 not(TMP\_100) = 0 TMP\_101 = 5 TMP\_102 = 0 not(TMP\_102) = 1 TMP\_103 = 0 not(TMP\_103) = 1 TMP\_104 = 0 TMP\_105 = 1 not(TMP\_105) = 0 TMP\_106 = 1 not(TMP\_106) = 0 TMP\_107 = 2 TMP\_108 = 0 not(TMP\_108) = 1 TMP\_109 = 0 not(TMP\_109) = 1 TMP\_110 = 1 not(TMP\_110) = 0 TMP\_111 = 1 not(TMP\_111) = 0 TMP\_112 = 1 not(TMP\_112) = 0 TMP\_113 = 2 TMP\_114 = 1 not(TMP\_114) = 0 TMP\_115 = 0 not(TMP\_115) = 1 TMP\_116 = 1 not(TMP\_116) = 0 TMP\_117 = 1 not(TMP\_117) = 0 TMP\_118 = 1 not(TMP\_118) = 0 TMP\_119 = 0 not(TMP\_119) = 1 TMP\_120 = 4 TMP\_121 = 0 not(TMP\_121) = 1 TMP\_122 = 0 not(TMP\_122) = 1 TMP\_123 = 0 TMP\_124 = 1 not(TMP\_124) = 0 TMP\_125 = 1 not(TMP\_125) = 0 TMP\_126 = 2 TMP\_127 = 0 not(TMP\_127) = 1 TMP\_128 = 0 not(TMP\_128) = 1 TMP\_129 = 1 not(TMP\_129) = 0 TMP\_130 = 1 not(TMP\_130) = 0 TMP\_131 = 1 not(TMP\_131) = 0 TMP\_132 = 2 TMP\_133 = 1 not(TMP\_133) = 0 TMP\_134 = 1 not(TMP\_134) = 0 TMP\_135 = 1 not(TMP\_135) = 0 TMP\_136 = 1 not(TMP\_136) = 0 TMP\_137 = 1 not(TMP\_137) = 0 TMP\_138 = 0 not(TMP\_138) = 1 TMP\_139 = 5 TMP\_140 = 0 not(TMP\_140) = 1 TMP\_141 = 0 not(TMP\_141) = 1 TMP\_142 = 0 TMP\_143 = 1 not(TMP\_143) = 0 TMP\_144 = 1 not(TMP\_144) = 0 TMP\_145 = 2 TMP\_146 = 0 not(TMP\_146) = 1 TMP\_147 = 0 not(TMP\_147) = 1 TMP\_148 = 1 not(TMP\_148) = 0 TMP\_149 = 1 not(TMP\_149) = 0 TMP\_150 = 1 not(TMP\_150) = 0 TMP\_151 = 2 TMP\_152 = 0 not(TMP\_152) = 1 TMP\_153 = 1 not(TMP\_153) = 0 TMP\_154 = 1 not(TMP\_154) = 0 TMP\_155 = 1 not(TMP\_155) = 0 TMP\_156 = 1 not(TMP\_156) = 0 TMP\_157 = 0 not(TMP\_157) = 1 TMP\_158 = 4 TMP\_159 = 0 not(TMP\_159) = 1 TMP\_160 = 0 not(TMP\_160) = 1 TMP\_161 = 0 TMP\_162 = 1 not(TMP\_162) = 0 TMP\_163 = 1 not(TMP\_163) = 0 TMP\_164 = 2 TMP\_165 = 0 not(TMP\_165) = 1 TMP\_166 = 0 not(TMP\_166) = 1 TMP\_167 = 1 not(TMP\_167) = 0 TMP\_168 = 1 not(TMP\_168) = 0 TMP\_169 = 1 not(TMP\_169) = 0 TMP\_170 = 2 TMP\_171 = 0 not(TMP\_171) = 1 TMP\_172 = 1 not(TMP\_172) = 0 TMP\_173 = 1 not(TMP\_173) = 0 TMP\_174 = 1 not(TMP\_174) = 0 TMP\_175 = 1 not(TMP\_175) = 0 TMP\_176 = 0 not(TMP\_176) = 1 TMP\_177 = 4 TMP\_178 = 0 not(TMP\_178) = 1 TMP\_179 = 0 not(TMP\_179) = 1 TMP\_180 = 0 TMP\_181 = 1 not(TMP\_181) = 0 TMP\_182 = 1 not(TMP\_182) = 0 TMP\_183 = 2 TMP\_184 = 0 not(TMP\_184) = 1 TMP\_185 = 0 not(TMP\_185) = 1 TMP\_186 = 1 not(TMP\_186) = 0 TMP\_187 = 1 not(TMP\_187) = 0 TMP\_188 = 1 not(TMP\_188) = 0 TMP\_189 = 2 TMP\_190 = 0 not(TMP\_190) = 1 TMP\_191 = 1 not(TMP\_191) = 0 TMP\_192 = 1 not(TMP\_192) = 0 TMP\_193 = 1 not(TMP\_193) = 0 TMP\_194 = 1 not(TMP\_194) = 0 TMP\_195 = 1 not(TMP\_195) = 0 TMP\_196 = 5 TMP\_197 = 0 not(TMP\_197) = 1 TMP\_198 = 0 not(TMP\_198) = 1 TMP\_199 = 0 TMP\_200 = 1 not(TMP\_200) = 0 TMP\_201 = 1 not(TMP\_201) = 0 TMP\_202 = 2 TMP\_203 = 0 not(TMP\_203) = 1 TMP\_204 = 0 not(TMP\_204) = 1 TMP\_205 = 1 not(TMP\_205) = 0 TMP\_206 = 1 not(TMP\_206) = 0 TMP\_207 = 1 not(TMP\_207) = 0 TMP\_208 = 2 TMP\_209 = 0 not(TMP\_209) = 1 TMP\_210 = 1 not(TMP\_210) = 0 TMP\_211 = 1 not(TMP\_211) = 0 TMP\_212 = 1 not(TMP\_212) = 0 TMP\_213 = 1 not(TMP\_213) = 0 TMP\_214 = 1 not(TMP\_214) = 0 TMP\_215 = 5 TMP\_216 = 0 not(TMP\_216) = 1 TMP\_217 = 0 not(TMP\_217) = 1 TMP\_218 = 0 TMP\_219 = 1 not(TMP\_219) = 0 TMP\_220 = 1 not(TMP\_220) = 0 TMP\_221 = 2 TMP\_222 = 0 not(TMP\_222) = 1 TMP\_223 = 0 not(TMP\_223) = 1 TMP\_224 = 1 not(TMP\_224) = 0 TMP\_225 = 1 not(TMP\_225) = 0 TMP\_226 = 1 not(TMP\_226) = 0 TMP\_227 = 2 TMP\_228 = 1 not(TMP\_228) = 0 TMP\_229 = 0 not(TMP\_229) = 1 TMP\_230 = 1 not(TMP\_230) = 0 TMP\_231 = 1 not(TMP\_231) = 0 TMP\_232 = 1 not(TMP\_232) = 0 TMP\_233 = 1 not(TMP\_233) = 0 TMP\_234 = 5 TMP\_235 = 0 not(TMP\_235) = 1 TMP\_236 = 0 not(TMP\_236) = 1 TMP\_237 = 0 TMP\_238 = 1 not(TMP\_238) = 0 TMP\_239 = 1 not(TMP\_239) = 0 TMP\_240 = 2 TMP\_241 = 0 not(TMP\_241) = 1 TMP\_242 = 0 not(TMP\_242) = 1 TMP\_243 = 1 not(TMP\_243) = 0 TMP\_244 = 1 not(TMP\_244) = 0 TMP\_245 = 1 not(TMP\_245) = 0 TMP\_246 = 2 TMP\_247 = 0 not(TMP\_247) = 1 TMP\_248 = 1 not(TMP\_248) = 0 TMP\_249 = 1 not(TMP\_249) = 0 TMP\_250 = 1 not(TMP\_250) = 0 TMP\_251 = 1 not(TMP\_251) = 0 TMP\_252 = 1 not(TMP\_252) = 0 TMP\_253 = 5 TMP\_254 = 0 not(TMP\_254) = 1 TMP\_255 = 0 not(TMP\_255) = 1 TMP\_256 = 0 TMP\_257 = 1 not(TMP\_257) = 0 TMP\_258 = 1 not(TMP\_258) = 0 TMP\_259 = 2 TMP\_260 = 0 not(TMP\_260) = 1 TMP\_261 = 0 not(TMP\_261) = 1 TMP\_262 = 1 not(TMP\_262) = 0 TMP\_263 = 1 not(TMP\_263) = 0 TMP\_264 = 1 not(TMP\_264) = 0 TMP\_265 = 2 TMP\_266 = 1 not(TMP\_266) = 0 TMP\_267 = 1 not(TMP\_267) = 0 TMP\_268 = 1 not(TMP\_268) = 0 TMP\_269 = 1 not(TMP\_269) = 0 TMP\_270 = 1 not(TMP\_270) = 0 TMP\_271 = 0 not(TMP\_271) = 1 TMP\_272 = 5 TMP\_273 = 0 not(TMP\_273) = 1 TMP\_274 = 0 not(TMP\_274) = 1 TMP\_275 = 0 TMP\_276 = 1 not(TMP\_276) = 0 TMP\_277 = 1 not(TMP\_277) = 0 TMP\_278 = 2 TMP\_279 = 0 not(TMP\_279) = 1 TMP\_280 = 0 not(TMP\_280) = 1 TMP\_281 = 1 not(TMP\_281) = 0 TMP\_282 = 1 not(TMP\_282) = 0 TMP\_283 = 1 not(TMP\_283) = 0 TMP\_284 = 2 TMP\_285 = 0 not(TMP\_285) = 1 TMP\_286 = 1 not(TMP\_286) = 0 TMP\_287 = 1 not(TMP\_287) = 0 TMP\_288 = 1 not(TMP\_288) = 0 TMP\_289 = 1 not(TMP\_289) = 0 TMP\_290 = 0 not(TMP\_290) = 1 TMP\_291 = 4 TMP\_292 = 0 not(TMP\_292) = 1 TMP\_293 = 0 not(TMP\_293) = 1 TMP\_294 = 0 TMP\_295 = 1 not(TMP\_295) = 0 TMP\_296 = 1 not(TMP\_296) = 0 TMP\_297 = 2 TMP\_298 = 0 not(TMP\_298) = 1 TMP\_299 = 0 not(TMP\_299) = 1 TMP\_300 = 1 not(TMP\_300) = 0 TMP\_301 = 1 not(TMP\_301) = 0 TMP\_302 = 1 not(TMP\_302) = 0 TMP\_303 = 2 TMP\_304 = 0 not(TMP\_304) = 1 TMP\_305 = 1 not(TMP\_305) = 0 TMP\_306 = 1 not(TMP\_306) = 0 TMP\_307 = 1 not(TMP\_307) = 0 TMP\_308 = 1 not(TMP\_308) = 0 TMP\_309 = 1 not(TMP\_309) = 0 TMP\_310 = 5 TMP\_311 = 0 not(TMP\_311) = 1 TMP\_312 = 0 not(TMP\_312) = 1 TMP\_313 = 0 TMP\_314 = 1 not(TMP\_314) = 0 TMP\_315 = 1 not(TMP\_315) = 0 TMP\_316 = 2 TMP\_317 = 0 not(TMP\_317) = 1 TMP\_318 = 0 not(TMP\_318) = 1 TMP\_319 = 1 not(TMP\_319) = 0 TMP\_320 = 1 not(TMP\_320) = 0 TMP\_321 = 1 not(TMP\_321) = 0 TMP\_322 = 2 TMP\_323 = 0 not(TMP\_323) = 1 TMP\_324 = 1 not(TMP\_324) = 0 TMP\_325 = 1 not(TMP\_325) = 0 TMP\_326 = 1 not(TMP\_326) = 0 TMP\_327 = 1 not(TMP\_327) = 0 TMP\_328 = 1 not(TMP\_328) = 0 TMP\_329 = 5 TMP\_330 = 0 not(TMP\_330) = 1 TMP\_331 = 0 not(TMP\_331) = 1 TMP\_332 = 0 TMP\_333 = 1 not(TMP\_333) = 0 TMP\_334 = 1 not(TMP\_334) = 0 TMP\_335 = 2 TMP\_336 = 0 not(TMP\_336) = 1 TMP\_337 = 0 not(TMP\_337) = 1 TMP\_338 = 1 not(TMP\_338) = 0 TMP\_339 = 1 not(TMP\_339) = 0 TMP\_340 = 1 not(TMP\_340) = 0 TMP\_341 = 2 TMP\_342 = 0 not(TMP\_342) = 1 TMP\_343 = 1 not(TMP\_343) = 0 TMP\_344 = 1 not(TMP\_344) = 0 TMP\_345 = 1 not(TMP\_345) = 0 TMP\_346 = 0 not(TMP\_346) = 1 TMP\_347 = 1 not(TMP\_347) = 0 TMP\_348 = 4 TMP\_349 = 0 not(TMP\_349) = 1 TMP\_350 = 0 not(TMP\_350) = 1 TMP\_351 = 0 TMP\_352 = 1 not(TMP\_352) = 0 TMP\_353 = 1 not(TMP\_353) = 0 TMP\_354 = 2 TMP\_355 = 0 not(TMP\_355) = 1 TMP\_356 = 0 not(TMP\_356) = 1 TMP\_357 = 1 not(TMP\_357) = 0 TMP\_358 = 1 not(TMP\_358) = 0 TMP\_359 = 1 not(TMP\_359) = 0 TMP\_360 = 2 TMP\_361 = 0 not(TMP\_361) = 1 TMP\_362 = 1 not(TMP\_362) = 0 TMP\_363 = 1 not(TMP\_363) = 0 TMP\_364 = 1 not(TMP\_364) = 0 TMP\_365 = 0 not(TMP\_365) = 1 TMP\_366 = 1 not(TMP\_366) = 0 TMP\_367 = 4 TMP\_368 = 0 not(TMP\_368) = 1 TMP\_369 = 0 not(TMP\_369) = 1 TMP\_370 = 0 TMP\_371 = 1 not(TMP\_371) = 0 TMP\_372 = 1 not(TMP\_372) = 0 TMP\_373 = 2 TMP\_374 = 0 not(TMP\_374) = 1 TMP\_375 = 0 not(TMP\_375) = 1 TMP\_376 = 1 not(TMP\_376) = 0 TMP\_377 = 1 not(TMP\_377) = 0 TMP\_378 = 1 not(TMP\_378) = 0 TMP\_379 = 2 TMP\_380 = 1 not(TMP\_380) = 0 TMP\_381 = 1 not(TMP\_381) = 0 TMP\_382 = 1 not(TMP\_382) = 0 TMP\_383 = 1 not(TMP\_383) = 0 TMP\_384 = 0 not(TMP\_384) = 1 TMP\_385 = 1 not(TMP\_385) = 0 TMP\_386 = 5 TMP\_387 = 0 not(TMP\_387) = 1 TMP\_388 = 0 not(TMP\_388) = 1 TMP\_389 = 0 TMP\_390 = 1 not(TMP\_390) = 0 TMP\_391 = 1 not(TMP\_391) = 0 TMP\_392 = 2 TMP\_393 = 0 not(TMP\_393) = 1 TMP\_394 = 0 not(TMP\_394) = 1 TMP\_395 = 1 not(TMP\_395) = 0 TMP\_396 = 1 not(TMP\_396) = 0 TMP\_397 = 1 not(TMP\_397) = 0 TMP\_398 = 2 TMP\_399 = 0 not(TMP\_399) = 1 TMP\_400 = 1 not(TMP\_400) = 0 TMP\_401 = 1 not(TMP\_401) = 0 TMP\_402 = 1 not(TMP\_402) = 0 TMP\_403 = 0 not(TMP\_403) = 1 TMP\_404 = 1 not(TMP\_404) = 0 TMP\_405 = 4 TMP\_406 = 0 not(TMP\_406) = 1 TMP\_407 = 0 not(TMP\_407) = 1 TMP\_408 = 0 TMP\_409 = 1 not(TMP\_409) = 0 TMP\_410 = 1 not(TMP\_410) = 0 TMP\_411 = 2 TMP\_412 = 0 not(TMP\_412) = 1 TMP\_413 = 0 not(TMP\_413) = 1 TMP\_414 = 1 not(TMP\_414) = 0 TMP\_415 = 1 not(TMP\_415) = 0 TMP\_416 = 1 not(TMP\_416) = 0 TMP\_417 = 2 TMP\_418 = 1 not(TMP\_418) = 0 TMP\_419 = 1 not(TMP\_419) = 0 TMP\_420 = 1 not(TMP\_420) = 0 TMP\_421 = 1 not(TMP\_421) = 0 TMP\_422 = 0 not(TMP\_422) = 1 TMP\_423 = 1 not(TMP\_423) = 0 TMP\_424 = 5 TMP\_425 = 0 not(TMP\_425) = 1 TMP\_426 = 0 not(TMP\_426) = 1 TMP\_427 = 0 TMP\_428 = 1 not(TMP\_428) = 0 TMP\_429 = 1 not(TMP\_429) = 0 TMP\_430 = 2 TMP\_431 = 0 not(TMP\_431) = 1 TMP\_432 = 0 not(TMP\_432) = 1 TMP\_433 = 1 not(TMP\_433) = 0 TMP\_434 = 1 not(TMP\_434) = 0 TMP\_435 = 1 not(TMP\_435) = 0 TMP\_436 = 2 TMP\_437 = 0 not(TMP\_437) = 1 TMP\_438 = 1 not(TMP\_438) = 0 TMP\_439 = 1 not(TMP\_439) = 0 TMP\_440 = 1 not(TMP\_440) = 0 TMP\_441 = 1 not(TMP\_441) = 0 TMP\_442 = 1 not(TMP\_442) = 0 TMP\_443 = 5 TMP\_444 = 0 not(TMP\_444) = 1 TMP\_445 = 0 not(TMP\_445) = 1 TMP\_446 = 0 TMP\_447 = 1 not(TMP\_447) = 0 TMP\_448 = 1 not(TMP\_448) = 0 TMP\_449 = 2 TMP\_450 = 0 not(TMP\_450) = 1 TMP\_451 = 0 not(TMP\_451) = 1 TMP\_452 = 1 not(TMP\_452) = 0 TMP\_453 = 1 not(TMP\_453) = 0 TMP\_454 = 1 not(TMP\_454) = 0 TMP\_455 = 2 TMP\_456 = 0 not(TMP\_456) = 1 TMP\_457 = 1 not(TMP\_457) = 0 TMP\_458 = 1 not(TMP\_458) = 0 TMP\_459 = 1 not(TMP\_459) = 0 TMP\_460 = 1 not(TMP\_460) = 0 TMP\_461 = 1 not(TMP\_461) = 0 TMP\_462 = 5 TMP\_463 = 0 not(TMP\_463) = 1 TMP\_464 = 0 not(TMP\_464) = 1 TMP\_465 = 0 TMP\_466 = 1 not(TMP\_466) = 0 TMP\_467 = 1 not(TMP\_467) = 0 TMP\_468 = 2 TMP\_469 = 0 not(TMP\_469) = 1 TMP\_470 = 0 not(TMP\_470) = 1 TMP\_471 = 1 not(TMP\_471) = 0 TMP\_472 = 1 not(TMP\_472) = 0 TMP\_473 = 1 not(TMP\_473) = 0 TMP\_474 = 2 TMP\_475 = 1 not(TMP\_475) = 0 TMP\_476 = 0 not(TMP\_476) = 1 TMP\_477 = 1 not(TMP\_477) = 0 TMP\_478 = 1 not(TMP\_478) = 0 TMP\_479 = 1 not(TMP\_479) = 0 TMP\_480 = 1 not(TMP\_480) = 0 TMP\_481 = 5 TMP\_482 = 0 not(TMP\_482) = 1 TMP\_483 = 0 not(TMP\_483) = 1 TMP\_484 = 0 TMP\_485 = 1 not(TMP\_485) = 0 TMP\_486 = 1 not(TMP\_486) = 0 TMP\_487 = 2 TMP\_488 = 0 not(TMP\_488) = 1 TMP\_489 = 0 not(TMP\_489) = 1 TMP\_490 = 1 not(TMP\_490) = 0 TMP\_491 = 1 not(TMP\_491) = 0 TMP\_492 = 1 not(TMP\_492) = 0 TMP\_493 = 2 TMP\_494 = 1 not(TMP\_494) = 0 TMP\_495 = 0 not(TMP\_495) = 1 TMP\_496 = 1 not(TMP\_496) = 0 TMP\_497 = 1 not(TMP\_497) = 0 TMP\_498 = 0 not(TMP\_498) = 1 TMP\_499 = 1 not(TMP\_499) = 0 TMP\_500 = 4 TMP\_501 = 0 not(TMP\_501) = 1 TMP\_502 = 0 not(TMP\_502) = 1 TMP\_503 = 0 TMP\_504 = 1 not(TMP\_504) = 0 TMP\_505 = 1 not(TMP\_505) = 0 TMP\_506 = 2 TMP\_507 = 0 not(TMP\_507) = 1 TMP\_508 = 0 not(TMP\_508) = 1 TMP\_509 = 1 not(TMP\_509) = 0 TMP\_510 = 1 not(TMP\_510) = 0 TMP\_511 = 1 not(TMP\_511) = 0 TMP\_512 = 2 TMP\_513 = 1 not(TMP\_513) = 0 TMP\_514 = 0 not(TMP\_514) = 1 TMP\_515 = 1 not(TMP\_515) = 0 TMP\_516 = 1 not(TMP\_516) = 0 TMP\_517 = 0 not(TMP\_517) = 1 TMP\_518 = 1 not(TMP\_518) = 0 TMP\_519 = 4 TMP\_520 = 0 not(TMP\_520) = 1 TMP\_521 = 0 not(TMP\_521) = 1 TMP\_522 = 0 TMP\_523 = 1 not(TMP\_523) = 0 TMP\_524 = 1 not(TMP\_524) = 0 TMP\_525 = 2 TMP\_526 = 0 not(TMP\_526) = 1 TMP\_527 = 0 not(TMP\_527) = 1 TMP\_528 = 1 not(TMP\_528) = 0 TMP\_529 = 1 not(TMP\_529) = 0 TMP\_530 = 1 not(TMP\_530) = 0 TMP\_531 = 2 TMP\_532 = 1 not(TMP\_532) = 0 TMP\_533 = 0 not(TMP\_533) = 1 TMP\_534 = 1 not(TMP\_534) = 0 TMP\_535 = 1 not(TMP\_535) = 0 TMP\_536 = 0 not(TMP\_536) = 1 TMP\_537 = 1 not(TMP\_537) = 0 TMP\_538 = 4 TMP\_539 = 0 not(TMP\_539) = 1 TMP\_540 = 0 not(TMP\_540) = 1 TMP\_541 = 0 TMP\_542 = 1 not(TMP\_542) = 0 TMP\_543 = 1 not(TMP\_543) = 0 TMP\_544 = 2 TMP\_545 = 0 not(TMP\_545) = 1 TMP\_546 = 0 not(TMP\_546) = 1 TMP\_547 = 1 not(TMP\_547) = 0 TMP\_548 = 1 not(TMP\_548) = 0 TMP\_549 = 1 not(TMP\_549) = 0 TMP\_550 = 2 TMP\_551 = 1 not(TMP\_551) = 0 TMP\_552 = 1 not(TMP\_552) = 0 TMP\_553 = 1 not(TMP\_553) = 0 TMP\_554 = 1 not(TMP\_554) = 0 TMP\_555 = 0 not(TMP\_555) = 1 TMP\_556 = 1 not(TMP\_556) = 0 TMP\_557 = 5 TMP\_558 = 0 not(TMP\_558) = 1 TMP\_559 = 0 not(TMP\_559) = 1 TMP\_560 = 0 TMP\_561 = 1 not(TMP\_561) = 0 TMP\_562 = 1 not(TMP\_562) = 0 TMP\_563 = 2 TMP\_564 = 0 not(TMP\_564) = 1 TMP\_565 = 0 not(TMP\_565) = 1 TMP\_566 = 1 not(TMP\_566) = 0 TMP\_567 = 1 not(TMP\_567) = 0 TMP\_568 = 1 not(TMP\_568) = 0 TMP\_569 = 2 TMP\_570 = 1 not(TMP\_570) = 0 TMP\_571 = 0 not(TMP\_571) = 1 TMP\_572 = 1 not(TMP\_572) = 0 TMP\_573 = 1 not(TMP\_573) = 0 TMP\_574 = 0 not(TMP\_574) = 1 TMP\_575 = 1 not(TMP\_575) = 0 TMP\_576 = 4 TMP\_577 = 0 not(TMP\_577) = 1 TMP\_578 = 0 not(TMP\_578) = 1 TMP\_579 = 0 TMP\_580 = 1 not(TMP\_580) = 0 TMP\_581 = 1 not(TMP\_581) = 0 TMP\_582 = 2 TMP\_583 = 0 not(TMP\_583) = 1 TMP\_584 = 0 not(TMP\_584) = 1 TMP\_585 = 1 not(TMP\_585) = 0 TMP\_586 = 1 not(TMP\_586) = 0 TMP\_587 = 1 not(TMP\_587) = 0 TMP\_588 = 2 TMP\_589 = 1 not(TMP\_589) = 0 TMP\_590 = 0 not(TMP\_590) = 1 TMP\_591 = 1 not(TMP\_591) = 0 TMP\_592 = 1 not(TMP\_592) = 0 TMP\_593 = 1 not(TMP\_593) = 0 TMP\_594 = 1 not(TMP\_594) = 0 TMP\_595 = 5 TMP\_596 = 0 not(TMP\_596) = 1 TMP\_597 = 0 not(TMP\_597) = 1 TMP\_598 = 0 TMP\_599 = 1 not(TMP\_599) = 0 TMP\_600 = 1 not(TMP\_600) = 0 TMP\_601 = 2 TMP\_602 = 0 not(TMP\_602) = 1 TMP\_603 = 0 not(TMP\_603) = 1 TMP\_604 = 1 not(TMP\_604) = 0 TMP\_605 = 1 not(TMP\_605) = 0 TMP\_606 = 1 not(TMP\_606) = 0 TMP\_607 = 2 Area\_0 = 60 Distance\_0\_Rule\_0 = 20 Distance\_1\_Rule\_0 = 3 Distance\_2\_Rule\_0 = 1 Area\_1 = 174 Distance\_0\_Rule\_1 = 58 Distance\_1\_Rule\_1 = 3 Distance\_2\_Rule\_1 = 1 Area\_2 = 116 Distance\_0\_Rule\_2 = 58 Distance\_1\_Rule\_2 = 2 Distance\_2\_Rule\_2 = 1 Area\_3 = 58 Distance\_0\_Rule\_3 = 58 Distance\_1\_Rule\_3 = 1 Distance\_2\_Rule\_3 = 1 Area\_4 = 120 Distance\_0\_Rule\_4 = 40 Distance\_1\_Rule\_4 = 3 Distance\_2\_Rule\_4 = 1 Area\_5 = 63 -(Rule\_5\_LB) = 0 Distance\_0\_Rule\_5 = 21 -(Rule\_5\_LB) = 0 Distance\_1\_Rule\_5 = 3 -(Rule\_5\_LB) = 0 Distance\_2\_Rule\_5 = 1 Area\_6 = 3 -(Rule\_6\_LB) = -79 Distance\_0\_Rule\_6 = 1 -(Rule\_6\_LB) = 0 Distance\_1\_Rule\_6 = 3 -(Rule\_6\_LB) = 0 Distance\_2\_Rule\_6 = 1 Area\_7 = 123 -(Rule\_7\_LB) = -79 Distance\_0\_Rule\_7 = 41 -(Rule\_7\_LB) = 0 Distance\_1\_Rule\_7 = 3 -(Rule\_7\_LB) = -1 Distance\_2\_Rule\_7 = 1 Area\_8 = 3 -(Rule\_8\_LB) = -20 Distance\_0\_Rule\_8 = 1 -(Rule\_8\_LB) = 0 Distance\_1\_Rule\_8 = 3 -(Rule\_8\_LB) = -1 Distance\_2\_Rule\_8 = 1 TMP\_608 = 720 .

- Solution #20 found. 20 Solutions, Resolution 1.141s, 2323 Nodes (2,035.1 n/s), 4549 Backtracks, 2261 Fails, 0 Restarts

Rule\_5\_LB = 0 Rule\_5\_UB = 21 Rule\_5\_LB = 0 Rule\_5\_UB = 3 Rule\_5\_LB = 0 Rule\_5\_UB = 1 Rule\_6\_LB = 79 Rule\_6\_UB = 80 Rule\_6\_LB = 0 Rule\_6\_UB = 3 Rule\_6\_LB = 0 Rule\_6\_UB = 1 Rule\_7\_LB = 79 Rule\_7\_UB = 120 Rule\_7\_LB = 0 Rule\_7\_UB = 3 Rule\_7\_LB = 1 Rule\_7\_UB = 2 Rule\_8\_LB = 20 Rule\_8\_UB = 21 Rule\_8\_LB = 0 Rule\_8\_UB = 3 Rule\_8\_LB = 1 Rule\_8\_UB = 2 Overlaps\_0\_0 = 0 Overlaps\_0\_1 = 1 Overlaps\_0\_2 = 0 Overlaps\_0\_3 = 0 Overlaps\_0\_4 = 0 Overlaps\_0\_5 = 0 Overlaps\_0\_6 = 0 Overlaps\_0\_7 = 0 Overlaps\_0\_8 = 0 Overlaps\_1\_0 = 0 Overlaps\_1\_1 = 0 Overlaps\_1\_2 = 1 Overlaps\_1\_3 = 0 Overlaps\_1\_4 = 0 Overlaps\_1\_5 = 0 Overlaps\_1\_6 = 0 Overlaps\_1\_7 = 0 Overlaps\_1\_8 = 0 Overlaps\_2\_0 = 0 Overlaps\_2\_1 = 0 Overlaps\_2\_2 = 0 Overlaps\_2\_3 = 0 Overlaps\_2\_4 = 1 Overlaps\_2\_5 = 0 Overlaps\_2\_6 = 0 Overlaps\_2\_7 = 0 Overlaps\_2\_8 = 0 Overlaps\_3\_0 = 0 Overlaps\_3\_1 = 0 Overlaps\_3\_2 = 0 Overlaps\_3\_3 = 0 Overlaps\_3\_4 = 0 Overlaps\_3\_5 = 0 Overlaps\_3\_6 = 0 Overlaps\_3\_7 = 0 Overlaps\_3\_8 = 0 Overlaps\_4\_0 = 0 Overlaps\_4\_1 = 0 Overlaps\_4\_2 = 0 Overlaps\_4\_3 = 0 Overlaps\_4\_4 = 0 Overlaps\_4\_5 = 0 Overlaps\_4\_6 = 0 Overlaps\_4\_7 = 0 Overlaps\_4\_8 = 0 Overlaps\_5\_0 = 0 Overlaps\_5\_1 = 0 Overlaps\_5\_2 = 0 Overlaps\_5\_3 = 0 Overlaps\_5\_4 = 0 Overlaps\_5\_5 = 0 Overlaps\_5\_6 = 0 Overlaps\_5\_7 = 0 Overlaps\_5\_8 = 0 Overlaps\_6\_0 = 0 Overlaps\_6\_1 = 0 Overlaps\_6\_2 = 0 Overlaps\_6\_3 = 0 Overlaps\_6\_4 = 0 Overlaps\_6\_5 = 0 Overlaps\_6\_6 = 0 Overlaps\_6\_7 = 0 Overlaps\_6\_8 = 0 Overlaps\_7\_0 = 0 Overlaps\_7\_1 = 0 Overlaps\_7\_2 = 0 Overlaps\_7\_3 = 0 Overlaps\_7\_4 = 0 Overlaps\_7\_5 = 0 Overlaps\_7\_6 = 0 Overlaps\_7\_7 = 0 Overlaps\_7\_8 = 0 Overlaps\_8\_0 = 0 Overlaps\_8\_1 = 0 Overlaps\_8\_2 = 0 Overlaps\_8\_3 = 0 Overlaps\_8\_4 = 0 Overlaps\_8\_5 = 0 Overlaps\_8\_6 = 0 Overlaps\_8\_7 = 0 Overlaps\_8\_8 = 0 TMP\_0 = 1 not(TMP\_0) = 0 TMP\_1 = 1 not(TMP\_1) = 0 TMP\_2 = 1 not(TMP\_2) = 0 TMP\_3 = 1 not(TMP\_3) = 0 TMP\_4 = 1 not(TMP\_4) = 0 TMP\_5 = 0 not(TMP\_5) = 1 TMP\_6 = 5 TMP\_7 = 0 not(TMP\_7) = 1 TMP\_8 = 0 not(TMP\_8) = 1 TMP\_9 = 0 TMP\_10 = 1 not(TMP\_10) = 0 TMP\_11 = 1 not(TMP\_11) = 0 TMP\_12 = 2 TMP\_13 = 0 not(TMP\_13) = 1 TMP\_14 = 0 not(TMP\_14) = 1 TMP\_15 = 1 not(TMP\_15) = 0 TMP\_16 = 1 not(TMP\_16) = 0 TMP\_17 = 1 not(TMP\_17) = 0 TMP\_18 = 2 TMP\_19 = 1 not(TMP\_19) = 0 TMP\_20 = 0 not(TMP\_20) = 1 TMP\_21 = 1 not(TMP\_21) = 0 TMP\_22 = 1 not(TMP\_22) = 0 TMP\_23 = 1 not(TMP\_23) = 0 TMP\_24 = 0 not(TMP\_24) = 1 TMP\_25 = 4 TMP\_26 = 0 not(TMP\_26) = 1 TMP\_27 = 0 not(TMP\_27) = 1 TMP\_28 = 0 TMP\_29 = 1 not(TMP\_29) = 0 TMP\_30 = 1 not(TMP\_30) = 0 TMP\_31 = 2 TMP\_32 = 0 not(TMP\_32) = 1 TMP\_33 = 0 not(TMP\_33) = 1 TMP\_34 = 1 not(TMP\_34) = 0 TMP\_35 = 1 not(TMP\_35) = 0 TMP\_36 = 1 not(TMP\_36) = 0 TMP\_37 = 2 TMP\_38 = 1 not(TMP\_38) = 0 TMP\_39 = 0 not(TMP\_39) = 1 TMP\_40 = 1 not(TMP\_40) = 0 TMP\_41 = 1 not(TMP\_41) = 0 TMP\_42 = 1 not(TMP\_42) = 0 TMP\_43 = 1 not(TMP\_43) = 0 TMP\_44 = 5 TMP\_45 = 0 not(TMP\_45) = 1 TMP\_46 = 0 not(TMP\_46) = 1 TMP\_47 = 0 TMP\_48 = 1 not(TMP\_48) = 0 TMP\_49 = 1 not(TMP\_49) = 0 TMP\_50 = 2 TMP\_51 = 0 not(TMP\_51) = 1 TMP\_52 = 0 not(TMP\_52) = 1 TMP\_53 = 1 not(TMP\_53) = 0 TMP\_54 = 1 not(TMP\_54) = 0 TMP\_55 = 1 not(TMP\_55) = 0 TMP\_56 = 2 TMP\_57 = 1 not(TMP\_57) = 0 TMP\_58 = 0 not(TMP\_58) = 1 TMP\_59 = 1 not(TMP\_59) = 0 TMP\_60 = 1 not(TMP\_60) = 0 TMP\_61 = 1 not(TMP\_61) = 0 TMP\_62 = 1 not(TMP\_62) = 0 TMP\_63 = 5 TMP\_64 = 0 not(TMP\_64) = 1 TMP\_65 = 0 not(TMP\_65) = 1 TMP\_66 = 0 TMP\_67 = 1 not(TMP\_67) = 0 TMP\_68 = 1 not(TMP\_68) = 0 TMP\_69 = 2 TMP\_70 = 0 not(TMP\_70) = 1 TMP\_71 = 0 not(TMP\_71) = 1 TMP\_72 = 1 not(TMP\_72) = 0 TMP\_73 = 1 not(TMP\_73) = 0 TMP\_74 = 1 not(TMP\_74) = 0 TMP\_75 = 2 TMP\_76 = 1 not(TMP\_76) = 0 TMP\_77 = 0 not(TMP\_77) = 1 TMP\_78 = 1 not(TMP\_78) = 0 TMP\_79 = 1 not(TMP\_79) = 0 TMP\_80 = 1 not(TMP\_80) = 0 TMP\_81 = 1 not(TMP\_81) = 0 TMP\_82 = 5 TMP\_83 = 0 not(TMP\_83) = 1 TMP\_84 = 0 not(TMP\_84) = 1 TMP\_85 = 0 TMP\_86 = 1 not(TMP\_86) = 0 TMP\_87 = 1 not(TMP\_87) = 0 TMP\_88 = 2 TMP\_89 = 0 not(TMP\_89) = 1 TMP\_90 = 0 not(TMP\_90) = 1 TMP\_91 = 1 not(TMP\_91) = 0 TMP\_92 = 1 not(TMP\_92) = 0 TMP\_93 = 1 not(TMP\_93) = 0 TMP\_94 = 2 TMP\_95 = 1 not(TMP\_95) = 0 TMP\_96 = 0 not(TMP\_96) = 1 TMP\_97 = 1 not(TMP\_97) = 0 TMP\_98 = 1 not(TMP\_98) = 0 TMP\_99 = 1 not(TMP\_99) = 0 TMP\_100 = 1 not(TMP\_100) = 0 TMP\_101 = 5 TMP\_102 = 0 not(TMP\_102) = 1 TMP\_103 = 0 not(TMP\_103) = 1 TMP\_104 = 0 TMP\_105 = 1 not(TMP\_105) = 0 TMP\_106 = 1 not(TMP\_106) = 0 TMP\_107 = 2 TMP\_108 = 0 not(TMP\_108) = 1 TMP\_109 = 0 not(TMP\_109) = 1 TMP\_110 = 1 not(TMP\_110) = 0 TMP\_111 = 1 not(TMP\_111) = 0 TMP\_112 = 1 not(TMP\_112) = 0 TMP\_113 = 2 TMP\_114 = 1 not(TMP\_114) = 0 TMP\_115 = 0 not(TMP\_115) = 1 TMP\_116 = 1 not(TMP\_116) = 0 TMP\_117 = 1 not(TMP\_117) = 0 TMP\_118 = 1 not(TMP\_118) = 0 TMP\_119 = 0 not(TMP\_119) = 1 TMP\_120 = 4 TMP\_121 = 0 not(TMP\_121) = 1 TMP\_122 = 0 not(TMP\_122) = 1 TMP\_123 = 0 TMP\_124 = 1 not(TMP\_124) = 0 TMP\_125 = 1 not(TMP\_125) = 0 TMP\_126 = 2 TMP\_127 = 0 not(TMP\_127) = 1 TMP\_128 = 0 not(TMP\_128) = 1 TMP\_129 = 1 not(TMP\_129) = 0 TMP\_130 = 1 not(TMP\_130) = 0 TMP\_131 = 1 not(TMP\_131) = 0 TMP\_132 = 2 TMP\_133 = 1 not(TMP\_133) = 0 TMP\_134 = 1 not(TMP\_134) = 0 TMP\_135 = 1 not(TMP\_135) = 0 TMP\_136 = 1 not(TMP\_136) = 0 TMP\_137 = 1 not(TMP\_137) = 0 TMP\_138 = 0 not(TMP\_138) = 1 TMP\_139 = 5 TMP\_140 = 0 not(TMP\_140) = 1 TMP\_141 = 0 not(TMP\_141) = 1 TMP\_142 = 0 TMP\_143 = 1 not(TMP\_143) = 0 TMP\_144 = 1 not(TMP\_144) = 0 TMP\_145 = 2 TMP\_146 = 0 not(TMP\_146) = 1 TMP\_147 = 0 not(TMP\_147) = 1 TMP\_148 = 1 not(TMP\_148) = 0 TMP\_149 = 1 not(TMP\_149) = 0 TMP\_150 = 1 not(TMP\_150) = 0 TMP\_151 = 2 TMP\_152 = 0 not(TMP\_152) = 1 TMP\_153 = 1 not(TMP\_153) = 0 TMP\_154 = 1 not(TMP\_154) = 0 TMP\_155 = 1 not(TMP\_155) = 0 TMP\_156 = 1 not(TMP\_156) = 0 TMP\_157 = 0 not(TMP\_157) = 1 TMP\_158 = 4 TMP\_159 = 0 not(TMP\_159) = 1 TMP\_160 = 0 not(TMP\_160) = 1 TMP\_161 = 0 TMP\_162 = 1 not(TMP\_162) = 0 TMP\_163 = 1 not(TMP\_163) = 0 TMP\_164 = 2 TMP\_165 = 0 not(TMP\_165) = 1 TMP\_166 = 0 not(TMP\_166) = 1 TMP\_167 = 1 not(TMP\_167) = 0 TMP\_168 = 1 not(TMP\_168) = 0 TMP\_169 = 1 not(TMP\_169) = 0 TMP\_170 = 2 TMP\_171 = 0 not(TMP\_171) = 1 TMP\_172 = 1 not(TMP\_172) = 0 TMP\_173 = 1 not(TMP\_173) = 0 TMP\_174 = 1 not(TMP\_174) = 0 TMP\_175 = 1 not(TMP\_175) = 0 TMP\_176 = 0 not(TMP\_176) = 1 TMP\_177 = 4 TMP\_178 = 0 not(TMP\_178) = 1 TMP\_179 = 0 not(TMP\_179) = 1 TMP\_180 = 0 TMP\_181 = 1 not(TMP\_181) = 0 TMP\_182 = 1 not(TMP\_182) = 0 TMP\_183 = 2 TMP\_184 = 0 not(TMP\_184) = 1 TMP\_185 = 0 not(TMP\_185) = 1 TMP\_186 = 1 not(TMP\_186) = 0 TMP\_187 = 1 not(TMP\_187) = 0 TMP\_188 = 1 not(TMP\_188) = 0 TMP\_189 = 2 TMP\_190 = 0 not(TMP\_190) = 1 TMP\_191 = 1 not(TMP\_191) = 0 TMP\_192 = 1 not(TMP\_192) = 0 TMP\_193 = 1 not(TMP\_193) = 0 TMP\_194 = 1 not(TMP\_194) = 0 TMP\_195 = 1 not(TMP\_195) = 0 TMP\_196 = 5 TMP\_197 = 0 not(TMP\_197) = 1 TMP\_198 = 0 not(TMP\_198) = 1 TMP\_199 = 0 TMP\_200 = 1 not(TMP\_200) = 0 TMP\_201 = 1 not(TMP\_201) = 0 TMP\_202 = 2 TMP\_203 = 0 not(TMP\_203) = 1 TMP\_204 = 0 not(TMP\_204) = 1 TMP\_205 = 1 not(TMP\_205) = 0 TMP\_206 = 1 not(TMP\_206) = 0 TMP\_207 = 1 not(TMP\_207) = 0 TMP\_208 = 2 TMP\_209 = 0 not(TMP\_209) = 1 TMP\_210 = 1 not(TMP\_210) = 0 TMP\_211 = 1 not(TMP\_211) = 0 TMP\_212 = 1 not(TMP\_212) = 0 TMP\_213 = 1 not(TMP\_213) = 0 TMP\_214 = 1 not(TMP\_214) = 0 TMP\_215 = 5 TMP\_216 = 0 not(TMP\_216) = 1 TMP\_217 = 0 not(TMP\_217) = 1 TMP\_218 = 0 TMP\_219 = 1 not(TMP\_219) = 0 TMP\_220 = 1 not(TMP\_220) = 0 TMP\_221 = 2 TMP\_222 = 0 not(TMP\_222) = 1 TMP\_223 = 0 not(TMP\_223) = 1 TMP\_224 = 1 not(TMP\_224) = 0 TMP\_225 = 1 not(TMP\_225) = 0 TMP\_226 = 1 not(TMP\_226) = 0 TMP\_227 = 2 TMP\_228 = 1 not(TMP\_228) = 0 TMP\_229 = 0 not(TMP\_229) = 1 TMP\_230 = 1 not(TMP\_230) = 0 TMP\_231 = 1 not(TMP\_231) = 0 TMP\_232 = 1 not(TMP\_232) = 0 TMP\_233 = 1 not(TMP\_233) = 0 TMP\_234 = 5 TMP\_235 = 0 not(TMP\_235) = 1 TMP\_236 = 0 not(TMP\_236) = 1 TMP\_237 = 0 TMP\_238 = 1 not(TMP\_238) = 0 TMP\_239 = 1 not(TMP\_239) = 0 TMP\_240 = 2 TMP\_241 = 0 not(TMP\_241) = 1 TMP\_242 = 0 not(TMP\_242) = 1 TMP\_243 = 1 not(TMP\_243) = 0 TMP\_244 = 1 not(TMP\_244) = 0 TMP\_245 = 1 not(TMP\_245) = 0 TMP\_246 = 2 TMP\_247 = 0 not(TMP\_247) = 1 TMP\_248 = 1 not(TMP\_248) = 0 TMP\_249 = 1 not(TMP\_249) = 0 TMP\_250 = 1 not(TMP\_250) = 0 TMP\_251 = 1 not(TMP\_251) = 0 TMP\_252 = 1 not(TMP\_252) = 0 TMP\_253 = 5 TMP\_254 = 0 not(TMP\_254) = 1 TMP\_255 = 0 not(TMP\_255) = 1 TMP\_256 = 0 TMP\_257 = 1 not(TMP\_257) = 0 TMP\_258 = 1 not(TMP\_258) = 0 TMP\_259 = 2 TMP\_260 = 0 not(TMP\_260) = 1 TMP\_261 = 0 not(TMP\_261) = 1 TMP\_262 = 1 not(TMP\_262) = 0 TMP\_263 = 1 not(TMP\_263) = 0 TMP\_264 = 1 not(TMP\_264) = 0 TMP\_265 = 2 TMP\_266 = 1 not(TMP\_266) = 0 TMP\_267 = 1 not(TMP\_267) = 0 TMP\_268 = 1 not(TMP\_268) = 0 TMP\_269 = 1 not(TMP\_269) = 0 TMP\_270 = 1 not(TMP\_270) = 0 TMP\_271 = 0 not(TMP\_271) = 1 TMP\_272 = 5 TMP\_273 = 0 not(TMP\_273) = 1 TMP\_274 = 0 not(TMP\_274) = 1 TMP\_275 = 0 TMP\_276 = 1 not(TMP\_276) = 0 TMP\_277 = 1 not(TMP\_277) = 0 TMP\_278 = 2 TMP\_279 = 0 not(TMP\_279) = 1 TMP\_280 = 0 not(TMP\_280) = 1 TMP\_281 = 1 not(TMP\_281) = 0 TMP\_282 = 1 not(TMP\_282) = 0 TMP\_283 = 1 not(TMP\_283) = 0 TMP\_284 = 2 TMP\_285 = 0 not(TMP\_285) = 1 TMP\_286 = 1 not(TMP\_286) = 0 TMP\_287 = 1 not(TMP\_287) = 0 TMP\_288 = 1 not(TMP\_288) = 0 TMP\_289 = 1 not(TMP\_289) = 0 TMP\_290 = 0 not(TMP\_290) = 1 TMP\_291 = 4 TMP\_292 = 0 not(TMP\_292) = 1 TMP\_293 = 0 not(TMP\_293) = 1 TMP\_294 = 0 TMP\_295 = 1 not(TMP\_295) = 0 TMP\_296 = 1 not(TMP\_296) = 0 TMP\_297 = 2 TMP\_298 = 0 not(TMP\_298) = 1 TMP\_299 = 0 not(TMP\_299) = 1 TMP\_300 = 1 not(TMP\_300) = 0 TMP\_301 = 1 not(TMP\_301) = 0 TMP\_302 = 1 not(TMP\_302) = 0 TMP\_303 = 2 TMP\_304 = 0 not(TMP\_304) = 1 TMP\_305 = 1 not(TMP\_305) = 0 TMP\_306 = 1 not(TMP\_306) = 0 TMP\_307 = 1 not(TMP\_307) = 0 TMP\_308 = 1 not(TMP\_308) = 0 TMP\_309 = 1 not(TMP\_309) = 0 TMP\_310 = 5 TMP\_311 = 0 not(TMP\_311) = 1 TMP\_312 = 0 not(TMP\_312) = 1 TMP\_313 = 0 TMP\_314 = 1 not(TMP\_314) = 0 TMP\_315 = 1 not(TMP\_315) = 0 TMP\_316 = 2 TMP\_317 = 0 not(TMP\_317) = 1 TMP\_318 = 0 not(TMP\_318) = 1 TMP\_319 = 1 not(TMP\_319) = 0 TMP\_320 = 1 not(TMP\_320) = 0 TMP\_321 = 1 not(TMP\_321) = 0 TMP\_322 = 2 TMP\_323 = 0 not(TMP\_323) = 1 TMP\_324 = 1 not(TMP\_324) = 0 TMP\_325 = 1 not(TMP\_325) = 0 TMP\_326 = 1 not(TMP\_326) = 0 TMP\_327 = 1 not(TMP\_327) = 0 TMP\_328 = 1 not(TMP\_328) = 0 TMP\_329 = 5 TMP\_330 = 0 not(TMP\_330) = 1 TMP\_331 = 0 not(TMP\_331) = 1 TMP\_332 = 0 TMP\_333 = 1 not(TMP\_333) = 0 TMP\_334 = 1 not(TMP\_334) = 0 TMP\_335 = 2 TMP\_336 = 0 not(TMP\_336) = 1 TMP\_337 = 0 not(TMP\_337) = 1 TMP\_338 = 1 not(TMP\_338) = 0 TMP\_339 = 1 not(TMP\_339) = 0 TMP\_340 = 1 not(TMP\_340) = 0 TMP\_341 = 2 TMP\_342 = 0 not(TMP\_342) = 1 TMP\_343 = 1 not(TMP\_343) = 0 TMP\_344 = 1 not(TMP\_344) = 0 TMP\_345 = 1 not(TMP\_345) = 0 TMP\_346 = 0 not(TMP\_346) = 1 TMP\_347 = 1 not(TMP\_347) = 0 TMP\_348 = 4 TMP\_349 = 0 not(TMP\_349) = 1 TMP\_350 = 0 not(TMP\_350) = 1 TMP\_351 = 0 TMP\_352 = 1 not(TMP\_352) = 0 TMP\_353 = 1 not(TMP\_353) = 0 TMP\_354 = 2 TMP\_355 = 0 not(TMP\_355) = 1 TMP\_356 = 0 not(TMP\_356) = 1 TMP\_357 = 1 not(TMP\_357) = 0 TMP\_358 = 1 not(TMP\_358) = 0 TMP\_359 = 1 not(TMP\_359) = 0 TMP\_360 = 2 TMP\_361 = 0 not(TMP\_361) = 1 TMP\_362 = 1 not(TMP\_362) = 0 TMP\_363 = 1 not(TMP\_363) = 0 TMP\_364 = 1 not(TMP\_364) = 0 TMP\_365 = 0 not(TMP\_365) = 1 TMP\_366 = 1 not(TMP\_366) = 0 TMP\_367 = 4 TMP\_368 = 0 not(TMP\_368) = 1 TMP\_369 = 0 not(TMP\_369) = 1 TMP\_370 = 0 TMP\_371 = 1 not(TMP\_371) = 0 TMP\_372 = 1 not(TMP\_372) = 0 TMP\_373 = 2 TMP\_374 = 0 not(TMP\_374) = 1 TMP\_375 = 0 not(TMP\_375) = 1 TMP\_376 = 1 not(TMP\_376) = 0 TMP\_377 = 1 not(TMP\_377) = 0 TMP\_378 = 1 not(TMP\_378) = 0 TMP\_379 = 2 TMP\_380 = 1 not(TMP\_380) = 0 TMP\_381 = 1 not(TMP\_381) = 0 TMP\_382 = 1 not(TMP\_382) = 0 TMP\_383 = 1 not(TMP\_383) = 0 TMP\_384 = 0 not(TMP\_384) = 1 TMP\_385 = 1 not(TMP\_385) = 0 TMP\_386 = 5 TMP\_387 = 0 not(TMP\_387) = 1 TMP\_388 = 0 not(TMP\_388) = 1 TMP\_389 = 0 TMP\_390 = 1 not(TMP\_390) = 0 TMP\_391 = 1 not(TMP\_391) = 0 TMP\_392 = 2 TMP\_393 = 0 not(TMP\_393) = 1 TMP\_394 = 0 not(TMP\_394) = 1 TMP\_395 = 1 not(TMP\_395) = 0 TMP\_396 = 1 not(TMP\_396) = 0 TMP\_397 = 1 not(TMP\_397) = 0 TMP\_398 = 2 TMP\_399 = 0 not(TMP\_399) = 1 TMP\_400 = 1 not(TMP\_400) = 0 TMP\_401 = 1 not(TMP\_401) = 0 TMP\_402 = 1 not(TMP\_402) = 0 TMP\_403 = 0 not(TMP\_403) = 1 TMP\_404 = 1 not(TMP\_404) = 0 TMP\_405 = 4 TMP\_406 = 0 not(TMP\_406) = 1 TMP\_407 = 0 not(TMP\_407) = 1 TMP\_408 = 0 TMP\_409 = 1 not(TMP\_409) = 0 TMP\_410 = 1 not(TMP\_410) = 0 TMP\_411 = 2 TMP\_412 = 0 not(TMP\_412) = 1 TMP\_413 = 0 not(TMP\_413) = 1 TMP\_414 = 1 not(TMP\_414) = 0 TMP\_415 = 1 not(TMP\_415) = 0 TMP\_416 = 1 not(TMP\_416) = 0 TMP\_417 = 2 TMP\_418 = 1 not(TMP\_418) = 0 TMP\_419 = 1 not(TMP\_419) = 0 TMP\_420 = 1 not(TMP\_420) = 0 TMP\_421 = 1 not(TMP\_421) = 0 TMP\_422 = 0 not(TMP\_422) = 1 TMP\_423 = 1 not(TMP\_423) = 0 TMP\_424 = 5 TMP\_425 = 0 not(TMP\_425) = 1 TMP\_426 = 0 not(TMP\_426) = 1 TMP\_427 = 0 TMP\_428 = 1 not(TMP\_428) = 0 TMP\_429 = 1 not(TMP\_429) = 0 TMP\_430 = 2 TMP\_431 = 0 not(TMP\_431) = 1 TMP\_432 = 0 not(TMP\_432) = 1 TMP\_433 = 1 not(TMP\_433) = 0 TMP\_434 = 1 not(TMP\_434) = 0 TMP\_435 = 1 not(TMP\_435) = 0 TMP\_436 = 2 TMP\_437 = 0 not(TMP\_437) = 1 TMP\_438 = 1 not(TMP\_438) = 0 TMP\_439 = 1 not(TMP\_439) = 0 TMP\_440 = 1 not(TMP\_440) = 0 TMP\_441 = 1 not(TMP\_441) = 0 TMP\_442 = 1 not(TMP\_442) = 0 TMP\_443 = 5 TMP\_444 = 0 not(TMP\_444) = 1 TMP\_445 = 0 not(TMP\_445) = 1 TMP\_446 = 0 TMP\_447 = 1 not(TMP\_447) = 0 TMP\_448 = 1 not(TMP\_448) = 0 TMP\_449 = 2 TMP\_450 = 0 not(TMP\_450) = 1 TMP\_451 = 0 not(TMP\_451) = 1 TMP\_452 = 1 not(TMP\_452) = 0 TMP\_453 = 1 not(TMP\_453) = 0 TMP\_454 = 1 not(TMP\_454) = 0 TMP\_455 = 2 TMP\_456 = 0 not(TMP\_456) = 1 TMP\_457 = 1 not(TMP\_457) = 0 TMP\_458 = 1 not(TMP\_458) = 0 TMP\_459 = 1 not(TMP\_459) = 0 TMP\_460 = 1 not(TMP\_460) = 0 TMP\_461 = 1 not(TMP\_461) = 0 TMP\_462 = 5 TMP\_463 = 0 not(TMP\_463) = 1 TMP\_464 = 0 not(TMP\_464) = 1 TMP\_465 = 0 TMP\_466 = 1 not(TMP\_466) = 0 TMP\_467 = 1 not(TMP\_467) = 0 TMP\_468 = 2 TMP\_469 = 0 not(TMP\_469) = 1 TMP\_470 = 0 not(TMP\_470) = 1 TMP\_471 = 1 not(TMP\_471) = 0 TMP\_472 = 1 not(TMP\_472) = 0 TMP\_473 = 1 not(TMP\_473) = 0 TMP\_474 = 2 TMP\_475 = 1 not(TMP\_475) = 0 TMP\_476 = 0 not(TMP\_476) = 1 TMP\_477 = 1 not(TMP\_477) = 0 TMP\_478 = 1 not(TMP\_478) = 0 TMP\_479 = 1 not(TMP\_479) = 0 TMP\_480 = 1 not(TMP\_480) = 0 TMP\_481 = 5 TMP\_482 = 0 not(TMP\_482) = 1 TMP\_483 = 0 not(TMP\_483) = 1 TMP\_484 = 0 TMP\_485 = 1 not(TMP\_485) = 0 TMP\_486 = 1 not(TMP\_486) = 0 TMP\_487 = 2 TMP\_488 = 0 not(TMP\_488) = 1 TMP\_489 = 0 not(TMP\_489) = 1 TMP\_490 = 1 not(TMP\_490) = 0 TMP\_491 = 1 not(TMP\_491) = 0 TMP\_492 = 1 not(TMP\_492) = 0 TMP\_493 = 2 TMP\_494 = 1 not(TMP\_494) = 0 TMP\_495 = 0 not(TMP\_495) = 1 TMP\_496 = 1 not(TMP\_496) = 0 TMP\_497 = 1 not(TMP\_497) = 0 TMP\_498 = 0 not(TMP\_498) = 1 TMP\_499 = 1 not(TMP\_499) = 0 TMP\_500 = 4 TMP\_501 = 0 not(TMP\_501) = 1 TMP\_502 = 0 not(TMP\_502) = 1 TMP\_503 = 0 TMP\_504 = 1 not(TMP\_504) = 0 TMP\_505 = 1 not(TMP\_505) = 0 TMP\_506 = 2 TMP\_507 = 0 not(TMP\_507) = 1 TMP\_508 = 0 not(TMP\_508) = 1 TMP\_509 = 1 not(TMP\_509) = 0 TMP\_510 = 1 not(TMP\_510) = 0 TMP\_511 = 1 not(TMP\_511) = 0 TMP\_512 = 2 TMP\_513 = 1 not(TMP\_513) = 0 TMP\_514 = 0 not(TMP\_514) = 1 TMP\_515 = 1 not(TMP\_515) = 0 TMP\_516 = 1 not(TMP\_516) = 0 TMP\_517 = 0 not(TMP\_517) = 1 TMP\_518 = 1 not(TMP\_518) = 0 TMP\_519 = 4 TMP\_520 = 0 not(TMP\_520) = 1 TMP\_521 = 0 not(TMP\_521) = 1 TMP\_522 = 0 TMP\_523 = 1 not(TMP\_523) = 0 TMP\_524 = 1 not(TMP\_524) = 0 TMP\_525 = 2 TMP\_526 = 0 not(TMP\_526) = 1 TMP\_527 = 0 not(TMP\_527) = 1 TMP\_528 = 1 not(TMP\_528) = 0 TMP\_529 = 1 not(TMP\_529) = 0 TMP\_530 = 1 not(TMP\_530) = 0 TMP\_531 = 2 TMP\_532 = 1 not(TMP\_532) = 0 TMP\_533 = 0 not(TMP\_533) = 1 TMP\_534 = 1 not(TMP\_534) = 0 TMP\_535 = 1 not(TMP\_535) = 0 TMP\_536 = 0 not(TMP\_536) = 1 TMP\_537 = 1 not(TMP\_537) = 0 TMP\_538 = 4 TMP\_539 = 0 not(TMP\_539) = 1 TMP\_540 = 0 not(TMP\_540) = 1 TMP\_541 = 0 TMP\_542 = 1 not(TMP\_542) = 0 TMP\_543 = 1 not(TMP\_543) = 0 TMP\_544 = 2 TMP\_545 = 0 not(TMP\_545) = 1 TMP\_546 = 0 not(TMP\_546) = 1 TMP\_547 = 1 not(TMP\_547) = 0 TMP\_548 = 1 not(TMP\_548) = 0 TMP\_549 = 1 not(TMP\_549) = 0 TMP\_550 = 2 TMP\_551 = 1 not(TMP\_551) = 0 TMP\_552 = 1 not(TMP\_552) = 0 TMP\_553 = 1 not(TMP\_553) = 0 TMP\_554 = 1 not(TMP\_554) = 0 TMP\_555 = 0 not(TMP\_555) = 1 TMP\_556 = 1 not(TMP\_556) = 0 TMP\_557 = 5 TMP\_558 = 0 not(TMP\_558) = 1 TMP\_559 = 0 not(TMP\_559) = 1 TMP\_560 = 0 TMP\_561 = 1 not(TMP\_561) = 0 TMP\_562 = 1 not(TMP\_562) = 0 TMP\_563 = 2 TMP\_564 = 0 not(TMP\_564) = 1 TMP\_565 = 0 not(TMP\_565) = 1 TMP\_566 = 1 not(TMP\_566) = 0 TMP\_567 = 1 not(TMP\_567) = 0 TMP\_568 = 1 not(TMP\_568) = 0 TMP\_569 = 2 TMP\_570 = 1 not(TMP\_570) = 0 TMP\_571 = 0 not(TMP\_571) = 1 TMP\_572 = 1 not(TMP\_572) = 0 TMP\_573 = 1 not(TMP\_573) = 0 TMP\_574 = 0 not(TMP\_574) = 1 TMP\_575 = 1 not(TMP\_575) = 0 TMP\_576 = 4 TMP\_577 = 0 not(TMP\_577) = 1 TMP\_578 = 0 not(TMP\_578) = 1 TMP\_579 = 0 TMP\_580 = 1 not(TMP\_580) = 0 TMP\_581 = 1 not(TMP\_581) = 0 TMP\_582 = 2 TMP\_583 = 0 not(TMP\_583) = 1 TMP\_584 = 0 not(TMP\_584) = 1 TMP\_585 = 1 not(TMP\_585) = 0 TMP\_586 = 1 not(TMP\_586) = 0 TMP\_587 = 1 not(TMP\_587) = 0 TMP\_588 = 2 TMP\_589 = 1 not(TMP\_589) = 0 TMP\_590 = 0 not(TMP\_590) = 1 TMP\_591 = 1 not(TMP\_591) = 0 TMP\_592 = 1 not(TMP\_592) = 0 TMP\_593 = 1 not(TMP\_593) = 0 TMP\_594 = 1 not(TMP\_594) = 0 TMP\_595 = 5 TMP\_596 = 0 not(TMP\_596) = 1 TMP\_597 = 0 not(TMP\_597) = 1 TMP\_598 = 0 TMP\_599 = 1 not(TMP\_599) = 0 TMP\_600 = 1 not(TMP\_600) = 0 TMP\_601 = 2 TMP\_602 = 0 not(TMP\_602) = 1 TMP\_603 = 0 not(TMP\_603) = 1 TMP\_604 = 1 not(TMP\_604) = 0 TMP\_605 = 1 not(TMP\_605) = 0 TMP\_606 = 1 not(TMP\_606) = 0 TMP\_607 = 2 Area\_0 = 60 Distance\_0\_Rule\_0 = 20 Distance\_1\_Rule\_0 = 3 Distance\_2\_Rule\_0 = 1 Area\_1 = 174 Distance\_0\_Rule\_1 = 58 Distance\_1\_Rule\_1 = 3 Distance\_2\_Rule\_1 = 1 Area\_2 = 116 Distance\_0\_Rule\_2 = 58 Distance\_1\_Rule\_2 = 2 Distance\_2\_Rule\_2 = 1 Area\_3 = 58 Distance\_0\_Rule\_3 = 58 Distance\_1\_Rule\_3 = 1 Distance\_2\_Rule\_3 = 1 Area\_4 = 120 Distance\_0\_Rule\_4 = 40 Distance\_1\_Rule\_4 = 3 Distance\_2\_Rule\_4 = 1 Area\_5 = 63 -(Rule\_5\_LB) = 0 Distance\_0\_Rule\_5 = 21 -(Rule\_5\_LB) = 0 Distance\_1\_Rule\_5 = 3 -(Rule\_5\_LB) = 0 Distance\_2\_Rule\_5 = 1 Area\_6 = 3 -(Rule\_6\_LB) = -79 Distance\_0\_Rule\_6 = 1 -(Rule\_6\_LB) = 0 Distance\_1\_Rule\_6 = 3 -(Rule\_6\_LB) = 0 Distance\_2\_Rule\_6 = 1 Area\_7 = 123 -(Rule\_7\_LB) = -79 Distance\_0\_Rule\_7 = 41 -(Rule\_7\_LB) = 0 Distance\_1\_Rule\_7 = 3 -(Rule\_7\_LB) = -1 Distance\_2\_Rule\_7 = 1 Area\_8 = 3 -(Rule\_8\_LB) = -20 Distance\_0\_Rule\_8 = 1 -(Rule\_8\_LB) = 0 Distance\_1\_Rule\_8 = 3 -(Rule\_8\_LB) = -1 Distance\_2\_Rule\_8 = 1 TMP\_608 = 720 .

- Incomplete search - Limit reached.

Solutions: 20

Building time : 0.187s

Initialisation : 0.001s

Initial propagation : 0.050s

Resolution : 1.145s

Nodes: 2,323 (2,028.2 n/s)

Backtracks: 4,549

Fails: 2,261

Restarts: 0

Max depth: 107

Memory: -16mb

Variables: 1,290

Constraints: 1,294

## Rules = 6 - Missing Rules = 4

- Solution #1 found. 1 Solutions, Resolution 1.268s, 709 Nodes (559.3 n/s), 1327 Backtracks, 670 Fails, 0 Restarts

Rule\_6\_LB = 79 Rule\_6\_UB = 80 Rule\_6\_LB = 0 Rule\_6\_UB = 3 Rule\_6\_LB = 1 Rule\_6\_UB = 2 Rule\_7\_LB = 79 Rule\_7\_UB = 80 Rule\_7\_LB = 0 Rule\_7\_UB = 3 Rule\_7\_LB = 0 Rule\_7\_UB = 1 Rule\_8\_LB = 0 Rule\_8\_UB = 21 Rule\_8\_LB = 0 Rule\_8\_UB = 3 Rule\_8\_LB = 0 Rule\_8\_UB = 1 Rule\_9\_LB = 20 Rule\_9\_UB = 21 Rule\_9\_LB = 0 Rule\_9\_UB = 3 Rule\_9\_LB = 1 Rule\_9\_UB = 2 Overlaps\_0\_0 = 0 Overlaps\_0\_1 = 0 Overlaps\_0\_2 = 0 Overlaps\_0\_3 = 0 Overlaps\_0\_4 = 0 Overlaps\_0\_5 = 0 Overlaps\_0\_6 = 0 Overlaps\_0\_7 = 0 Overlaps\_0\_8 = 0 Overlaps\_0\_9 = 0 Overlaps\_1\_0 = 0 Overlaps\_1\_1 = 0 Overlaps\_1\_2 = 0 Overlaps\_1\_3 = 0 Overlaps\_1\_4 = 0 Overlaps\_1\_5 = 0 Overlaps\_1\_6 = 0 Overlaps\_1\_7 = 0 Overlaps\_1\_8 = 0 Overlaps\_1\_9 = 0 Overlaps\_2\_0 = 0 Overlaps\_2\_1 = 0 Overlaps\_2\_2 = 0 Overlaps\_2\_3 = 0 Overlaps\_2\_4 = 0 Overlaps\_2\_5 = 0 Overlaps\_2\_6 = 0 Overlaps\_2\_7 = 0 Overlaps\_2\_8 = 0 Overlaps\_2\_9 = 0 Overlaps\_3\_0 = 0 Overlaps\_3\_1 = 0 Overlaps\_3\_2 = 0 Overlaps\_3\_3 = 0 Overlaps\_3\_4 = 0 Overlaps\_3\_5 = 0 Overlaps\_3\_6 = 0 Overlaps\_3\_7 = 0 Overlaps\_3\_8 = 0 Overlaps\_3\_9 = 0 Overlaps\_4\_0 = 0 Overlaps\_4\_1 = 0 Overlaps\_4\_2 = 0 Overlaps\_4\_3 = 0 Overlaps\_4\_4 = 0 Overlaps\_4\_5 = 0 Overlaps\_4\_6 = 0 Overlaps\_4\_7 = 0 Overlaps\_4\_8 = 0 Overlaps\_4\_9 = 0 Overlaps\_5\_0 = 0 Overlaps\_5\_1 = 0 Overlaps\_5\_2 = 0 Overlaps\_5\_3 = 0 Overlaps\_5\_4 = 0 Overlaps\_5\_5 = 0 Overlaps\_5\_6 = 0 Overlaps\_5\_7 = 0 Overlaps\_5\_8 = 0 Overlaps\_5\_9 = 0 Overlaps\_6\_0 = 0 Overlaps\_6\_1 = 0 Overlaps\_6\_2 = 0 Overlaps\_6\_3 = 0 Overlaps\_6\_4 = 0 Overlaps\_6\_5 = 0 Overlaps\_6\_6 = 0 Overlaps\_6\_7 = 0 Overlaps\_6\_8 = 0 Overlaps\_6\_9 = 0 Overlaps\_7\_0 = 0 Overlaps\_7\_1 = 0 Overlaps\_7\_2 = 0 Overlaps\_7\_3 = 0 Overlaps\_7\_4 = 0 Overlaps\_7\_5 = 0 Overlaps\_7\_6 = 0 Overlaps\_7\_7 = 0 Overlaps\_7\_8 = 0 Overlaps\_7\_9 = 0 Overlaps\_8\_0 = 0 Overlaps\_8\_1 = 0 Overlaps\_8\_2 = 0 Overlaps\_8\_3 = 0 Overlaps\_8\_4 = 0 Overlaps\_8\_5 = 0 Overlaps\_8\_6 = 0 Overlaps\_8\_7 = 0 Overlaps\_8\_8 = 0 Overlaps\_8\_9 = 0 Overlaps\_9\_0 = 0 Overlaps\_9\_1 = 0 Overlaps\_9\_2 = 0 Overlaps\_9\_3 = 0 Overlaps\_9\_4 = 0 Overlaps\_9\_5 = 0 Overlaps\_9\_6 = 0 Overlaps\_9\_7 = 0 Overlaps\_9\_8 = 0 Overlaps\_9\_9 = 0 TMP\_0 = 0 not(TMP\_0) = 1 TMP\_1 = 1 not(TMP\_1) = 0 TMP\_2 = 1 not(TMP\_2) = 0 TMP\_3 = 1 not(TMP\_3) = 0 TMP\_4 = 1 not(TMP\_4) = 0 TMP\_5 = 1 not(TMP\_5) = 0 TMP\_6 = 5 TMP\_7 = 0 not(TMP\_7) = 1 TMP\_8 = 0 not(TMP\_8) = 1 TMP\_9 = 0 TMP\_10 = 1 not(TMP\_10) = 0 TMP\_11 = 1 not(TMP\_11) = 0 TMP\_12 = 2 TMP\_13 = 0 not(TMP\_13) = 1 TMP\_14 = 0 not(TMP\_14) = 1 TMP\_15 = 1 not(TMP\_15) = 0 TMP\_16 = 1 not(TMP\_16) = 0 TMP\_17 = 1 not(TMP\_17) = 0 TMP\_18 = 2 TMP\_19 = 0 not(TMP\_19) = 1 TMP\_20 = 1 not(TMP\_20) = 0 TMP\_21 = 1 not(TMP\_21) = 0 TMP\_22 = 1 not(TMP\_22) = 0 TMP\_23 = 1 not(TMP\_23) = 0 TMP\_24 = 1 not(TMP\_24) = 0 TMP\_25 = 5 TMP\_26 = 0 not(TMP\_26) = 1 TMP\_27 = 0 not(TMP\_27) = 1 TMP\_28 = 0 TMP\_29 = 1 not(TMP\_29) = 0 TMP\_30 = 1 not(TMP\_30) = 0 TMP\_31 = 2 TMP\_32 = 0 not(TMP\_32) = 1 TMP\_33 = 0 not(TMP\_33) = 1 TMP\_34 = 1 not(TMP\_34) = 0 TMP\_35 = 1 not(TMP\_35) = 0 TMP\_36 = 1 not(TMP\_36) = 0 TMP\_37 = 2 TMP\_38 = 0 not(TMP\_38) = 1 TMP\_39 = 1 not(TMP\_39) = 0 TMP\_40 = 1 not(TMP\_40) = 0 TMP\_41 = 1 not(TMP\_41) = 0 TMP\_42 = 0 not(TMP\_42) = 1 TMP\_43 = 1 not(TMP\_43) = 0 TMP\_44 = 4 TMP\_45 = 0 not(TMP\_45) = 1 TMP\_46 = 0 not(TMP\_46) = 1 TMP\_47 = 0 TMP\_48 = 1 not(TMP\_48) = 0 TMP\_49 = 1 not(TMP\_49) = 0 TMP\_50 = 2 TMP\_51 = 0 not(TMP\_51) = 1 TMP\_52 = 0 not(TMP\_52) = 1 TMP\_53 = 1 not(TMP\_53) = 0 TMP\_54 = 1 not(TMP\_54) = 0 TMP\_55 = 1 not(TMP\_55) = 0 TMP\_56 = 2 TMP\_57 = 0 not(TMP\_57) = 1 TMP\_58 = 1 not(TMP\_58) = 0 TMP\_59 = 1 not(TMP\_59) = 0 TMP\_60 = 1 not(TMP\_60) = 0 TMP\_61 = 0 not(TMP\_61) = 1 TMP\_62 = 1 not(TMP\_62) = 0 TMP\_63 = 4 TMP\_64 = 0 not(TMP\_64) = 1 TMP\_65 = 0 not(TMP\_65) = 1 TMP\_66 = 0 TMP\_67 = 1 not(TMP\_67) = 0 TMP\_68 = 1 not(TMP\_68) = 0 TMP\_69 = 2 TMP\_70 = 0 not(TMP\_70) = 1 TMP\_71 = 0 not(TMP\_71) = 1 TMP\_72 = 1 not(TMP\_72) = 0 TMP\_73 = 1 not(TMP\_73) = 0 TMP\_74 = 1 not(TMP\_74) = 0 TMP\_75 = 2 TMP\_76 = 1 not(TMP\_76) = 0 TMP\_77 = 0 not(TMP\_77) = 1 TMP\_78 = 1 not(TMP\_78) = 0 TMP\_79 = 1 not(TMP\_79) = 0 TMP\_80 = 0 not(TMP\_80) = 1 TMP\_81 = 1 not(TMP\_81) = 0 TMP\_82 = 4 TMP\_83 = 0 not(TMP\_83) = 1 TMP\_84 = 0 not(TMP\_84) = 1 TMP\_85 = 0 TMP\_86 = 1 not(TMP\_86) = 0 TMP\_87 = 1 not(TMP\_87) = 0 TMP\_88 = 2 TMP\_89 = 0 not(TMP\_89) = 1 TMP\_90 = 0 not(TMP\_90) = 1 TMP\_91 = 1 not(TMP\_91) = 0 TMP\_92 = 1 not(TMP\_92) = 0 TMP\_93 = 1 not(TMP\_93) = 0 TMP\_94 = 2 TMP\_95 = 1 not(TMP\_95) = 0 TMP\_96 = 0 not(TMP\_96) = 1 TMP\_97 = 1 not(TMP\_97) = 0 TMP\_98 = 1 not(TMP\_98) = 0 TMP\_99 = 1 not(TMP\_99) = 0 TMP\_100 = 1 not(TMP\_100) = 0 TMP\_101 = 5 TMP\_102 = 0 not(TMP\_102) = 1 TMP\_103 = 0 not(TMP\_103) = 1 TMP\_104 = 0 TMP\_105 = 1 not(TMP\_105) = 0 TMP\_106 = 1 not(TMP\_106) = 0 TMP\_107 = 2 TMP\_108 = 0 not(TMP\_108) = 1 TMP\_109 = 0 not(TMP\_109) = 1 TMP\_110 = 1 not(TMP\_110) = 0 TMP\_111 = 1 not(TMP\_111) = 0 TMP\_112 = 1 not(TMP\_112) = 0 TMP\_113 = 2 TMP\_114 = 1 not(TMP\_114) = 0 TMP\_115 = 1 not(TMP\_115) = 0 TMP\_116 = 1 not(TMP\_116) = 0 TMP\_117 = 1 not(TMP\_117) = 0 TMP\_118 = 0 not(TMP\_118) = 1 TMP\_119 = 1 not(TMP\_119) = 0 TMP\_120 = 5 TMP\_121 = 0 not(TMP\_121) = 1 TMP\_122 = 0 not(TMP\_122) = 1 TMP\_123 = 0 TMP\_124 = 1 not(TMP\_124) = 0 TMP\_125 = 1 not(TMP\_125) = 0 TMP\_126 = 2 TMP\_127 = 0 not(TMP\_127) = 1 TMP\_128 = 0 not(TMP\_128) = 1 TMP\_129 = 1 not(TMP\_129) = 0 TMP\_130 = 1 not(TMP\_130) = 0 TMP\_131 = 1 not(TMP\_131) = 0 TMP\_132 = 2 TMP\_133 = 0 not(TMP\_133) = 1 TMP\_134 = 1 not(TMP\_134) = 0 TMP\_135 = 1 not(TMP\_135) = 0 TMP\_136 = 1 not(TMP\_136) = 0 TMP\_137 = 0 not(TMP\_137) = 1 TMP\_138 = 1 not(TMP\_138) = 0 TMP\_139 = 4 TMP\_140 = 0 not(TMP\_140) = 1 TMP\_141 = 0 not(TMP\_141) = 1 TMP\_142 = 0 TMP\_143 = 1 not(TMP\_143) = 0 TMP\_144 = 1 not(TMP\_144) = 0 TMP\_145 = 2 TMP\_146 = 0 not(TMP\_146) = 1 TMP\_147 = 0 not(TMP\_147) = 1 TMP\_148 = 1 not(TMP\_148) = 0 TMP\_149 = 1 not(TMP\_149) = 0 TMP\_150 = 1 not(TMP\_150) = 0 TMP\_151 = 2 TMP\_152 = 0 not(TMP\_152) = 1 TMP\_153 = 1 not(TMP\_153) = 0 TMP\_154 = 1 not(TMP\_154) = 0 TMP\_155 = 1 not(TMP\_155) = 0 TMP\_156 = 1 not(TMP\_156) = 0 TMP\_157 = 1 not(TMP\_157) = 0 TMP\_158 = 5 TMP\_159 = 0 not(TMP\_159) = 1 TMP\_160 = 0 not(TMP\_160) = 1 TMP\_161 = 0 TMP\_162 = 1 not(TMP\_162) = 0 TMP\_163 = 1 not(TMP\_163) = 0 TMP\_164 = 2 TMP\_165 = 0 not(TMP\_165) = 1 TMP\_166 = 0 not(TMP\_166) = 1 TMP\_167 = 1 not(TMP\_167) = 0 TMP\_168 = 1 not(TMP\_168) = 0 TMP\_169 = 1 not(TMP\_169) = 0 TMP\_170 = 2 TMP\_171 = 0 not(TMP\_171) = 1 TMP\_172 = 1 not(TMP\_172) = 0 TMP\_173 = 1 not(TMP\_173) = 0 TMP\_174 = 1 not(TMP\_174) = 0 TMP\_175 = 1 not(TMP\_175) = 0 TMP\_176 = 0 not(TMP\_176) = 1 TMP\_177 = 4 TMP\_178 = 0 not(TMP\_178) = 1 TMP\_179 = 0 not(TMP\_179) = 1 TMP\_180 = 0 TMP\_181 = 1 not(TMP\_181) = 0 TMP\_182 = 1 not(TMP\_182) = 0 TMP\_183 = 2 TMP\_184 = 0 not(TMP\_184) = 1 TMP\_185 = 0 not(TMP\_185) = 1 TMP\_186 = 1 not(TMP\_186) = 0 TMP\_187 = 1 not(TMP\_187) = 0 TMP\_188 = 1 not(TMP\_188) = 0 TMP\_189 = 2 TMP\_190 = 0 not(TMP\_190) = 1 TMP\_191 = 1 not(TMP\_191) = 0 TMP\_192 = 1 not(TMP\_192) = 0 TMP\_193 = 1 not(TMP\_193) = 0 TMP\_194 = 1 not(TMP\_194) = 0 TMP\_195 = 0 not(TMP\_195) = 1 TMP\_196 = 4 TMP\_197 = 0 not(TMP\_197) = 1 TMP\_198 = 0 not(TMP\_198) = 1 TMP\_199 = 0 TMP\_200 = 1 not(TMP\_200) = 0 TMP\_201 = 1 not(TMP\_201) = 0 TMP\_202 = 2 TMP\_203 = 0 not(TMP\_203) = 1 TMP\_204 = 0 not(TMP\_204) = 1 TMP\_205 = 1 not(TMP\_205) = 0 TMP\_206 = 1 not(TMP\_206) = 0 TMP\_207 = 1 not(TMP\_207) = 0 TMP\_208 = 2 TMP\_209 = 0 not(TMP\_209) = 1 TMP\_210 = 1 not(TMP\_210) = 0 TMP\_211 = 1 not(TMP\_211) = 0 TMP\_212 = 1 not(TMP\_212) = 0 TMP\_213 = 1 not(TMP\_213) = 0 TMP\_214 = 1 not(TMP\_214) = 0 TMP\_215 = 5 TMP\_216 = 0 not(TMP\_216) = 1 TMP\_217 = 0 not(TMP\_217) = 1 TMP\_218 = 0 TMP\_219 = 1 not(TMP\_219) = 0 TMP\_220 = 1 not(TMP\_220) = 0 TMP\_221 = 2 TMP\_222 = 0 not(TMP\_222) = 1 TMP\_223 = 0 not(TMP\_223) = 1 TMP\_224 = 1 not(TMP\_224) = 0 TMP\_225 = 1 not(TMP\_225) = 0 TMP\_226 = 1 not(TMP\_226) = 0 TMP\_227 = 2 TMP\_228 = 0 not(TMP\_228) = 1 TMP\_229 = 1 not(TMP\_229) = 0 TMP\_230 = 1 not(TMP\_230) = 0 TMP\_231 = 1 not(TMP\_231) = 0 TMP\_232 = 1 not(TMP\_232) = 0 TMP\_233 = 1 not(TMP\_233) = 0 TMP\_234 = 5 TMP\_235 = 0 not(TMP\_235) = 1 TMP\_236 = 0 not(TMP\_236) = 1 TMP\_237 = 0 TMP\_238 = 1 not(TMP\_238) = 0 TMP\_239 = 1 not(TMP\_239) = 0 TMP\_240 = 2 TMP\_241 = 0 not(TMP\_241) = 1 TMP\_242 = 0 not(TMP\_242) = 1 TMP\_243 = 1 not(TMP\_243) = 0 TMP\_244 = 1 not(TMP\_244) = 0 TMP\_245 = 1 not(TMP\_245) = 0 TMP\_246 = 2 TMP\_247 = 1 not(TMP\_247) = 0 TMP\_248 = 0 not(TMP\_248) = 1 TMP\_249 = 1 not(TMP\_249) = 0 TMP\_250 = 1 not(TMP\_250) = 0 TMP\_251 = 1 not(TMP\_251) = 0 TMP\_252 = 1 not(TMP\_252) = 0 TMP\_253 = 5 TMP\_254 = 0 not(TMP\_254) = 1 TMP\_255 = 0 not(TMP\_255) = 1 TMP\_256 = 0 TMP\_257 = 1 not(TMP\_257) = 0 TMP\_258 = 1 not(TMP\_258) = 0 TMP\_259 = 2 TMP\_260 = 0 not(TMP\_260) = 1 TMP\_261 = 0 not(TMP\_261) = 1 TMP\_262 = 1 not(TMP\_262) = 0 TMP\_263 = 1 not(TMP\_263) = 0 TMP\_264 = 1 not(TMP\_264) = 0 TMP\_265 = 2 TMP\_266 = 1 not(TMP\_266) = 0 TMP\_267 = 0 not(TMP\_267) = 1 TMP\_268 = 1 not(TMP\_268) = 0 TMP\_269 = 1 not(TMP\_269) = 0 TMP\_270 = 1 not(TMP\_270) = 0 TMP\_271 = 0 not(TMP\_271) = 1 TMP\_272 = 4 TMP\_273 = 0 not(TMP\_273) = 1 TMP\_274 = 0 not(TMP\_274) = 1 TMP\_275 = 0 TMP\_276 = 1 not(TMP\_276) = 0 TMP\_277 = 1 not(TMP\_277) = 0 TMP\_278 = 2 TMP\_279 = 0 not(TMP\_279) = 1 TMP\_280 = 0 not(TMP\_280) = 1 TMP\_281 = 1 not(TMP\_281) = 0 TMP\_282 = 1 not(TMP\_282) = 0 TMP\_283 = 1 not(TMP\_283) = 0 TMP\_284 = 2 TMP\_285 = 1 not(TMP\_285) = 0 TMP\_286 = 1 not(TMP\_286) = 0 TMP\_287 = 1 not(TMP\_287) = 0 TMP\_288 = 1 not(TMP\_288) = 0 TMP\_289 = 1 not(TMP\_289) = 0 TMP\_290 = 0 not(TMP\_290) = 1 TMP\_291 = 5 TMP\_292 = 0 not(TMP\_292) = 1 TMP\_293 = 0 not(TMP\_293) = 1 TMP\_294 = 0 TMP\_295 = 1 not(TMP\_295) = 0 TMP\_296 = 1 not(TMP\_296) = 0 TMP\_297 = 2 TMP\_298 = 0 not(TMP\_298) = 1 TMP\_299 = 0 not(TMP\_299) = 1 TMP\_300 = 1 not(TMP\_300) = 0 TMP\_301 = 1 not(TMP\_301) = 0 TMP\_302 = 1 not(TMP\_302) = 0 TMP\_303 = 2 TMP\_304 = 0 not(TMP\_304) = 1 TMP\_305 = 1 not(TMP\_305) = 0 TMP\_306 = 1 not(TMP\_306) = 0 TMP\_307 = 1 not(TMP\_307) = 0 TMP\_308 = 1 not(TMP\_308) = 0 TMP\_309 = 1 not(TMP\_309) = 0 TMP\_310 = 5 TMP\_311 = 0 not(TMP\_311) = 1 TMP\_312 = 0 not(TMP\_312) = 1 TMP\_313 = 0 TMP\_314 = 1 not(TMP\_314) = 0 TMP\_315 = 1 not(TMP\_315) = 0 TMP\_316 = 2 TMP\_317 = 0 not(TMP\_317) = 1 TMP\_318 = 0 not(TMP\_318) = 1 TMP\_319 = 1 not(TMP\_319) = 0 TMP\_320 = 1 not(TMP\_320) = 0 TMP\_321 = 1 not(TMP\_321) = 0 TMP\_322 = 2 TMP\_323 = 0 not(TMP\_323) = 1 TMP\_324 = 1 not(TMP\_324) = 0 TMP\_325 = 1 not(TMP\_325) = 0 TMP\_326 = 1 not(TMP\_326) = 0 TMP\_327 = 1 not(TMP\_327) = 0 TMP\_328 = 0 not(TMP\_328) = 1 TMP\_329 = 4 TMP\_330 = 0 not(TMP\_330) = 1 TMP\_331 = 0 not(TMP\_331) = 1 TMP\_332 = 0 TMP\_333 = 1 not(TMP\_333) = 0 TMP\_334 = 1 not(TMP\_334) = 0 TMP\_335 = 2 TMP\_336 = 0 not(TMP\_336) = 1 TMP\_337 = 0 not(TMP\_337) = 1 TMP\_338 = 1 not(TMP\_338) = 0 TMP\_339 = 1 not(TMP\_339) = 0 TMP\_340 = 1 not(TMP\_340) = 0 TMP\_341 = 2 TMP\_342 = 1 not(TMP\_342) = 0 TMP\_343 = 1 not(TMP\_343) = 0 TMP\_344 = 1 not(TMP\_344) = 0 TMP\_345 = 1 not(TMP\_345) = 0 TMP\_346 = 1 not(TMP\_346) = 0 TMP\_347 = 0 not(TMP\_347) = 1 TMP\_348 = 5 TMP\_349 = 0 not(TMP\_349) = 1 TMP\_350 = 0 not(TMP\_350) = 1 TMP\_351 = 0 TMP\_352 = 1 not(TMP\_352) = 0 TMP\_353 = 1 not(TMP\_353) = 0 TMP\_354 = 2 TMP\_355 = 0 not(TMP\_355) = 1 TMP\_356 = 0 not(TMP\_356) = 1 TMP\_357 = 1 not(TMP\_357) = 0 TMP\_358 = 1 not(TMP\_358) = 0 TMP\_359 = 1 not(TMP\_359) = 0 TMP\_360 = 2 TMP\_361 = 1 not(TMP\_361) = 0 TMP\_362 = 0 not(TMP\_362) = 1 TMP\_363 = 1 not(TMP\_363) = 0 TMP\_364 = 1 not(TMP\_364) = 0 TMP\_365 = 1 not(TMP\_365) = 0 TMP\_366 = 0 not(TMP\_366) = 1 TMP\_367 = 4 TMP\_368 = 0 not(TMP\_368) = 1 TMP\_369 = 0 not(TMP\_369) = 1 TMP\_370 = 0 TMP\_371 = 1 not(TMP\_371) = 0 TMP\_372 = 1 not(TMP\_372) = 0 TMP\_373 = 2 TMP\_374 = 0 not(TMP\_374) = 1 TMP\_375 = 0 not(TMP\_375) = 1 TMP\_376 = 1 not(TMP\_376) = 0 TMP\_377 = 1 not(TMP\_377) = 0 TMP\_378 = 1 not(TMP\_378) = 0 TMP\_379 = 2 TMP\_380 = 1 not(TMP\_380) = 0 TMP\_381 = 0 not(TMP\_381) = 1 TMP\_382 = 1 not(TMP\_382) = 0 TMP\_383 = 1 not(TMP\_383) = 0 TMP\_384 = 1 not(TMP\_384) = 0 TMP\_385 = 1 not(TMP\_385) = 0 TMP\_386 = 5 TMP\_387 = 0 not(TMP\_387) = 1 TMP\_388 = 0 not(TMP\_388) = 1 TMP\_389 = 0 TMP\_390 = 1 not(TMP\_390) = 0 TMP\_391 = 1 not(TMP\_391) = 0 TMP\_392 = 2 TMP\_393 = 0 not(TMP\_393) = 1 TMP\_394 = 0 not(TMP\_394) = 1 TMP\_395 = 1 not(TMP\_395) = 0 TMP\_396 = 1 not(TMP\_396) = 0 TMP\_397 = 1 not(TMP\_397) = 0 TMP\_398 = 2 TMP\_399 = 1 not(TMP\_399) = 0 TMP\_400 = 0 not(TMP\_400) = 1 TMP\_401 = 1 not(TMP\_401) = 0 TMP\_402 = 1 not(TMP\_402) = 0 TMP\_403 = 1 not(TMP\_403) = 0 TMP\_404 = 1 not(TMP\_404) = 0 TMP\_405 = 5 TMP\_406 = 0 not(TMP\_406) = 1 TMP\_407 = 0 not(TMP\_407) = 1 TMP\_408 = 0 TMP\_409 = 1 not(TMP\_409) = 0 TMP\_410 = 1 not(TMP\_410) = 0 TMP\_411 = 2 TMP\_412 = 0 not(TMP\_412) = 1 TMP\_413 = 0 not(TMP\_413) = 1 TMP\_414 = 1 not(TMP\_414) = 0 TMP\_415 = 1 not(TMP\_415) = 0 TMP\_416 = 1 not(TMP\_416) = 0 TMP\_417 = 2 TMP\_418 = 1 not(TMP\_418) = 0 TMP\_419 = 0 not(TMP\_419) = 1 TMP\_420 = 1 not(TMP\_420) = 0 TMP\_421 = 1 not(TMP\_421) = 0 TMP\_422 = 1 not(TMP\_422) = 0 TMP\_423 = 1 not(TMP\_423) = 0 TMP\_424 = 5 TMP\_425 = 0 not(TMP\_425) = 1 TMP\_426 = 0 not(TMP\_426) = 1 TMP\_427 = 0 TMP\_428 = 1 not(TMP\_428) = 0 TMP\_429 = 1 not(TMP\_429) = 0 TMP\_430 = 2 TMP\_431 = 0 not(TMP\_431) = 1 TMP\_432 = 0 not(TMP\_432) = 1 TMP\_433 = 1 not(TMP\_433) = 0 TMP\_434 = 1 not(TMP\_434) = 0 TMP\_435 = 1 not(TMP\_435) = 0 TMP\_436 = 2 TMP\_437 = 1 not(TMP\_437) = 0 TMP\_438 = 0 not(TMP\_438) = 1 TMP\_439 = 1 not(TMP\_439) = 0 TMP\_440 = 1 not(TMP\_440) = 0 TMP\_441 = 1 not(TMP\_441) = 0 TMP\_442 = 0 not(TMP\_442) = 1 TMP\_443 = 4 TMP\_444 = 0 not(TMP\_444) = 1 TMP\_445 = 0 not(TMP\_445) = 1 TMP\_446 = 0 TMP\_447 = 1 not(TMP\_447) = 0 TMP\_448 = 1 not(TMP\_448) = 0 TMP\_449 = 2 TMP\_450 = 0 not(TMP\_450) = 1 TMP\_451 = 0 not(TMP\_451) = 1 TMP\_452 = 1 not(TMP\_452) = 0 TMP\_453 = 1 not(TMP\_453) = 0 TMP\_454 = 1 not(TMP\_454) = 0 TMP\_455 = 2 TMP\_456 = 1 not(TMP\_456) = 0 TMP\_457 = 0 not(TMP\_457) = 1 TMP\_458 = 1 not(TMP\_458) = 0 TMP\_459 = 1 not(TMP\_459) = 0 TMP\_460 = 1 not(TMP\_460) = 0 TMP\_461 = 0 not(TMP\_461) = 1 TMP\_462 = 4 TMP\_463 = 0 not(TMP\_463) = 1 TMP\_464 = 0 not(TMP\_464) = 1 TMP\_465 = 0 TMP\_466 = 1 not(TMP\_466) = 0 TMP\_467 = 1 not(TMP\_467) = 0 TMP\_468 = 2 TMP\_469 = 0 not(TMP\_469) = 1 TMP\_470 = 0 not(TMP\_470) = 1 TMP\_471 = 1 not(TMP\_471) = 0 TMP\_472 = 1 not(TMP\_472) = 0 TMP\_473 = 1 not(TMP\_473) = 0 TMP\_474 = 2 TMP\_475 = 1 not(TMP\_475) = 0 TMP\_476 = 0 not(TMP\_476) = 1 TMP\_477 = 1 not(TMP\_477) = 0 TMP\_478 = 1 not(TMP\_478) = 0 TMP\_479 = 1 not(TMP\_479) = 0 TMP\_480 = 1 not(TMP\_480) = 0 TMP\_481 = 5 TMP\_482 = 0 not(TMP\_482) = 1 TMP\_483 = 0 not(TMP\_483) = 1 TMP\_484 = 0 TMP\_485 = 1 not(TMP\_485) = 0 TMP\_486 = 1 not(TMP\_486) = 0 TMP\_487 = 2 TMP\_488 = 0 not(TMP\_488) = 1 TMP\_489 = 0 not(TMP\_489) = 1 TMP\_490 = 1 not(TMP\_490) = 0 TMP\_491 = 1 not(TMP\_491) = 0 TMP\_492 = 1 not(TMP\_492) = 0 TMP\_493 = 2 TMP\_494 = 1 not(TMP\_494) = 0 TMP\_495 = 1 not(TMP\_495) = 0 TMP\_496 = 1 not(TMP\_496) = 0 TMP\_497 = 1 not(TMP\_497) = 0 TMP\_498 = 1 not(TMP\_498) = 0 TMP\_499 = 0 not(TMP\_499) = 1 TMP\_500 = 5 TMP\_501 = 0 not(TMP\_501) = 1 TMP\_502 = 0 not(TMP\_502) = 1 TMP\_503 = 0 TMP\_504 = 1 not(TMP\_504) = 0 TMP\_505 = 1 not(TMP\_505) = 0 TMP\_506 = 2 TMP\_507 = 0 not(TMP\_507) = 1 TMP\_508 = 0 not(TMP\_508) = 1 TMP\_509 = 1 not(TMP\_509) = 0 TMP\_510 = 1 not(TMP\_510) = 0 TMP\_511 = 1 not(TMP\_511) = 0 TMP\_512 = 2 TMP\_513 = 0 not(TMP\_513) = 1 TMP\_514 = 1 not(TMP\_514) = 0 TMP\_515 = 1 not(TMP\_515) = 0 TMP\_516 = 1 not(TMP\_516) = 0 TMP\_517 = 1 not(TMP\_517) = 0 TMP\_518 = 1 not(TMP\_518) = 0 TMP\_519 = 5 TMP\_520 = 0 not(TMP\_520) = 1 TMP\_521 = 0 not(TMP\_521) = 1 TMP\_522 = 0 TMP\_523 = 1 not(TMP\_523) = 0 TMP\_524 = 1 not(TMP\_524) = 0 TMP\_525 = 2 TMP\_526 = 0 not(TMP\_526) = 1 TMP\_527 = 0 not(TMP\_527) = 1 TMP\_528 = 1 not(TMP\_528) = 0 TMP\_529 = 1 not(TMP\_529) = 0 TMP\_530 = 1 not(TMP\_530) = 0 TMP\_531 = 2 TMP\_532 = 1 not(TMP\_532) = 0 TMP\_533 = 0 not(TMP\_533) = 1 TMP\_534 = 1 not(TMP\_534) = 0 TMP\_535 = 1 not(TMP\_535) = 0 TMP\_536 = 1 not(TMP\_536) = 0 TMP\_537 = 1 not(TMP\_537) = 0 TMP\_538 = 5 TMP\_539 = 0 not(TMP\_539) = 1 TMP\_540 = 0 not(TMP\_540) = 1 TMP\_541 = 0 TMP\_542 = 1 not(TMP\_542) = 0 TMP\_543 = 1 not(TMP\_543) = 0 TMP\_544 = 2 TMP\_545 = 0 not(TMP\_545) = 1 TMP\_546 = 0 not(TMP\_546) = 1 TMP\_547 = 1 not(TMP\_547) = 0 TMP\_548 = 1 not(TMP\_548) = 0 TMP\_549 = 1 not(TMP\_549) = 0 TMP\_550 = 2 TMP\_551 = 1 not(TMP\_551) = 0 TMP\_552 = 0 not(TMP\_552) = 1 TMP\_553 = 1 not(TMP\_553) = 0 TMP\_554 = 1 not(TMP\_554) = 0 TMP\_555 = 0 not(TMP\_555) = 1 TMP\_556 = 1 not(TMP\_556) = 0 TMP\_557 = 4 TMP\_558 = 0 not(TMP\_558) = 1 TMP\_559 = 0 not(TMP\_559) = 1 TMP\_560 = 0 TMP\_561 = 1 not(TMP\_561) = 0 TMP\_562 = 1 not(TMP\_562) = 0 TMP\_563 = 2 TMP\_564 = 0 not(TMP\_564) = 1 TMP\_565 = 0 not(TMP\_565) = 1 TMP\_566 = 1 not(TMP\_566) = 0 TMP\_567 = 1 not(TMP\_567) = 0 TMP\_568 = 1 not(TMP\_568) = 0 TMP\_569 = 2 TMP\_570 = 1 not(TMP\_570) = 0 TMP\_571 = 0 not(TMP\_571) = 1 TMP\_572 = 1 not(TMP\_572) = 0 TMP\_573 = 1 not(TMP\_573) = 0 TMP\_574 = 0 not(TMP\_574) = 1 TMP\_575 = 1 not(TMP\_575) = 0 TMP\_576 = 4 TMP\_577 = 0 not(TMP\_577) = 1 TMP\_578 = 0 not(TMP\_578) = 1 TMP\_579 = 0 TMP\_580 = 1 not(TMP\_580) = 0 TMP\_581 = 1 not(TMP\_581) = 0 TMP\_582 = 2 TMP\_583 = 0 not(TMP\_583) = 1 TMP\_584 = 0 not(TMP\_584) = 1 TMP\_585 = 1 not(TMP\_585) = 0 TMP\_586 = 1 not(TMP\_586) = 0 TMP\_587 = 1 not(TMP\_587) = 0 TMP\_588 = 2 TMP\_589 = 1 not(TMP\_589) = 0 TMP\_590 = 0 not(TMP\_590) = 1 TMP\_591 = 1 not(TMP\_591) = 0 TMP\_592 = 1 not(TMP\_592) = 0 TMP\_593 = 0 not(TMP\_593) = 1 TMP\_594 = 1 not(TMP\_594) = 0 TMP\_595 = 4 TMP\_596 = 0 not(TMP\_596) = 1 TMP\_597 = 0 not(TMP\_597) = 1 TMP\_598 = 0 TMP\_599 = 1 not(TMP\_599) = 0 TMP\_600 = 1 not(TMP\_600) = 0 TMP\_601 = 2 TMP\_602 = 0 not(TMP\_602) = 1 TMP\_603 = 0 not(TMP\_603) = 1 TMP\_604 = 1 not(TMP\_604) = 0 TMP\_605 = 1 not(TMP\_605) = 0 TMP\_606 = 1 not(TMP\_606) = 0 TMP\_607 = 2 TMP\_608 = 1 not(TMP\_608) = 0 TMP\_609 = 0 not(TMP\_609) = 1 TMP\_610 = 1 not(TMP\_610) = 0 TMP\_611 = 1 not(TMP\_611) = 0 TMP\_612 = 1 not(TMP\_612) = 0 TMP\_613 = 1 not(TMP\_613) = 0 TMP\_614 = 5 TMP\_615 = 0 not(TMP\_615) = 1 TMP\_616 = 0 not(TMP\_616) = 1 TMP\_617 = 0 TMP\_618 = 1 not(TMP\_618) = 0 TMP\_619 = 1 not(TMP\_619) = 0 TMP\_620 = 2 TMP\_621 = 0 not(TMP\_621) = 1 TMP\_622 = 0 not(TMP\_622) = 1 TMP\_623 = 1 not(TMP\_623) = 0 TMP\_624 = 1 not(TMP\_624) = 0 TMP\_625 = 1 not(TMP\_625) = 0 TMP\_626 = 2 TMP\_627 = 1 not(TMP\_627) = 0 TMP\_628 = 0 not(TMP\_628) = 1 TMP\_629 = 1 not(TMP\_629) = 0 TMP\_630 = 1 not(TMP\_630) = 0 TMP\_631 = 1 not(TMP\_631) = 0 TMP\_632 = 1 not(TMP\_632) = 0 TMP\_633 = 5 TMP\_634 = 0 not(TMP\_634) = 1 TMP\_635 = 0 not(TMP\_635) = 1 TMP\_636 = 0 TMP\_637 = 1 not(TMP\_637) = 0 TMP\_638 = 1 not(TMP\_638) = 0 TMP\_639 = 2 TMP\_640 = 0 not(TMP\_640) = 1 TMP\_641 = 0 not(TMP\_641) = 1 TMP\_642 = 1 not(TMP\_642) = 0 TMP\_643 = 1 not(TMP\_643) = 0 TMP\_644 = 1 not(TMP\_644) = 0 TMP\_645 = 2 TMP\_646 = 1 not(TMP\_646) = 0 TMP\_647 = 0 not(TMP\_647) = 1 TMP\_648 = 1 not(TMP\_648) = 0 TMP\_649 = 1 not(TMP\_649) = 0 TMP\_650 = 0 not(TMP\_650) = 1 TMP\_651 = 1 not(TMP\_651) = 0 TMP\_652 = 4 TMP\_653 = 0 not(TMP\_653) = 1 TMP\_654 = 0 not(TMP\_654) = 1 TMP\_655 = 0 TMP\_656 = 1 not(TMP\_656) = 0 TMP\_657 = 1 not(TMP\_657) = 0 TMP\_658 = 2 TMP\_659 = 0 not(TMP\_659) = 1 TMP\_660 = 0 not(TMP\_660) = 1 TMP\_661 = 1 not(TMP\_661) = 0 TMP\_662 = 1 not(TMP\_662) = 0 TMP\_663 = 1 not(TMP\_663) = 0 TMP\_664 = 2 TMP\_665 = 1 not(TMP\_665) = 0 TMP\_666 = 1 not(TMP\_666) = 0 TMP\_667 = 1 not(TMP\_667) = 0 TMP\_668 = 1 not(TMP\_668) = 0 TMP\_669 = 0 not(TMP\_669) = 1 TMP\_670 = 1 not(TMP\_670) = 0 TMP\_671 = 5 TMP\_672 = 0 not(TMP\_672) = 1 TMP\_673 = 0 not(TMP\_673) = 1 TMP\_674 = 0 TMP\_675 = 1 not(TMP\_675) = 0 TMP\_676 = 1 not(TMP\_676) = 0 TMP\_677 = 2 TMP\_678 = 0 not(TMP\_678) = 1 TMP\_679 = 0 not(TMP\_679) = 1 TMP\_680 = 1 not(TMP\_680) = 0 TMP\_681 = 1 not(TMP\_681) = 0 TMP\_682 = 1 not(TMP\_682) = 0 TMP\_683 = 2 Area\_0 = 60 Distance\_0\_Rule\_0 = 20 Distance\_1\_Rule\_0 = 3 Distance\_2\_Rule\_0 = 1 Area\_1 = 174 Distance\_0\_Rule\_1 = 58 Distance\_1\_Rule\_1 = 3 Distance\_2\_Rule\_1 = 1 Area\_2 = 116 Distance\_0\_Rule\_2 = 58 Distance\_1\_Rule\_2 = 2 Distance\_2\_Rule\_2 = 1 Area\_3 = 58 Distance\_0\_Rule\_3 = 58 Distance\_1\_Rule\_3 = 1 Distance\_2\_Rule\_3 = 1 Area\_4 = 120 Distance\_0\_Rule\_4 = 40 Distance\_1\_Rule\_4 = 3 Distance\_2\_Rule\_4 = 1 Area\_5 = 120 Distance\_0\_Rule\_5 = 40 Distance\_1\_Rule\_5 = 3 Distance\_2\_Rule\_5 = 1 Area\_6 = 3 -(Rule\_6\_LB) = -79 Distance\_0\_Rule\_6 = 1 -(Rule\_6\_LB) = 0 Distance\_1\_Rule\_6 = 3 -(Rule\_6\_LB) = -1 Distance\_2\_Rule\_6 = 1 Area\_7 = 3 -(Rule\_7\_LB) = -79 Distance\_0\_Rule\_7 = 1 -(Rule\_7\_LB) = 0 Distance\_1\_Rule\_7 = 3 -(Rule\_7\_LB) = 0 Distance\_2\_Rule\_7 = 1 Area\_8 = 63 -(Rule\_8\_LB) = 0 Distance\_0\_Rule\_8 = 21 -(Rule\_8\_LB) = 0 Distance\_1\_Rule\_8 = 3 -(Rule\_8\_LB) = 0 Distance\_2\_Rule\_8 = 1 Area\_9 = 3 -(Rule\_9\_LB) = -20 Distance\_0\_Rule\_9 = 1 -(Rule\_9\_LB) = 0 Distance\_1\_Rule\_9 = 3 -(Rule\_9\_LB) = -1 Distance\_2\_Rule\_9 = 1 TMP\_684 = 720 .

- Solution #2 found. 2 Solutions, Resolution 1.310s, 710 Nodes (542.1 n/s), 1328 Backtracks, 670 Fails, 0 Restarts

Rule\_6\_LB = 79 Rule\_6\_UB = 80 Rule\_6\_LB = 0 Rule\_6\_UB = 3 Rule\_6\_LB = 1 Rule\_6\_UB = 2 Rule\_7\_LB = 79 Rule\_7\_UB = 80 Rule\_7\_LB = 0 Rule\_7\_UB = 3 Rule\_7\_LB = 0 Rule\_7\_UB = 1 Rule\_8\_LB = 0 Rule\_8\_UB = 21 Rule\_8\_LB = 0 Rule\_8\_UB = 3 Rule\_8\_LB = 0 Rule\_8\_UB = 1 Rule\_9\_LB = 20 Rule\_9\_UB = 21 Rule\_9\_LB = 0 Rule\_9\_UB = 3 Rule\_9\_LB = 1 Rule\_9\_UB = 2 Overlaps\_0\_0 = 0 Overlaps\_0\_1 = 0 Overlaps\_0\_2 = 0 Overlaps\_0\_3 = 0 Overlaps\_0\_4 = 0 Overlaps\_0\_5 = 0 Overlaps\_0\_6 = 0 Overlaps\_0\_7 = 0 Overlaps\_0\_8 = 0 Overlaps\_0\_9 = 0 Overlaps\_1\_0 = 0 Overlaps\_1\_1 = 0 Overlaps\_1\_2 = 0 Overlaps\_1\_3 = 0 Overlaps\_1\_4 = 0 Overlaps\_1\_5 = 0 Overlaps\_1\_6 = 0 Overlaps\_1\_7 = 0 Overlaps\_1\_8 = 0 Overlaps\_1\_9 = 0 Overlaps\_2\_0 = 1 Overlaps\_2\_1 = 0 Overlaps\_2\_2 = 0 Overlaps\_2\_3 = 0 Overlaps\_2\_4 = 0 Overlaps\_2\_5 = 0 Overlaps\_2\_6 = 0 Overlaps\_2\_7 = 0 Overlaps\_2\_8 = 0 Overlaps\_2\_9 = 0 Overlaps\_3\_0 = 0 Overlaps\_3\_1 = 0 Overlaps\_3\_2 = 0 Overlaps\_3\_3 = 0 Overlaps\_3\_4 = 0 Overlaps\_3\_5 = 0 Overlaps\_3\_6 = 0 Overlaps\_3\_7 = 0 Overlaps\_3\_8 = 0 Overlaps\_3\_9 = 0 Overlaps\_4\_0 = 0 Overlaps\_4\_1 = 0 Overlaps\_4\_2 = 0 Overlaps\_4\_3 = 0 Overlaps\_4\_4 = 0 Overlaps\_4\_5 = 0 Overlaps\_4\_6 = 0 Overlaps\_4\_7 = 0 Overlaps\_4\_8 = 0 Overlaps\_4\_9 = 0 Overlaps\_5\_0 = 0 Overlaps\_5\_1 = 0 Overlaps\_5\_2 = 0 Overlaps\_5\_3 = 0 Overlaps\_5\_4 = 0 Overlaps\_5\_5 = 0 Overlaps\_5\_6 = 0 Overlaps\_5\_7 = 0 Overlaps\_5\_8 = 0 Overlaps\_5\_9 = 0 Overlaps\_6\_0 = 0 Overlaps\_6\_1 = 0 Overlaps\_6\_2 = 0 Overlaps\_6\_3 = 0 Overlaps\_6\_4 = 0 Overlaps\_6\_5 = 0 Overlaps\_6\_6 = 0 Overlaps\_6\_7 = 0 Overlaps\_6\_8 = 0 Overlaps\_6\_9 = 0 Overlaps\_7\_0 = 0 Overlaps\_7\_1 = 0 Overlaps\_7\_2 = 0 Overlaps\_7\_3 = 0 Overlaps\_7\_4 = 0 Overlaps\_7\_5 = 0 Overlaps\_7\_6 = 0 Overlaps\_7\_7 = 0 Overlaps\_7\_8 = 0 Overlaps\_7\_9 = 0 Overlaps\_8\_0 = 0 Overlaps\_8\_1 = 0 Overlaps\_8\_2 = 0 Overlaps\_8\_3 = 0 Overlaps\_8\_4 = 0 Overlaps\_8\_5 = 0 Overlaps\_8\_6 = 0 Overlaps\_8\_7 = 0 Overlaps\_8\_8 = 0 Overlaps\_8\_9 = 0 Overlaps\_9\_0 = 0 Overlaps\_9\_1 = 0 Overlaps\_9\_2 = 0 Overlaps\_9\_3 = 0 Overlaps\_9\_4 = 0 Overlaps\_9\_5 = 0 Overlaps\_9\_6 = 0 Overlaps\_9\_7 = 0 Overlaps\_9\_8 = 0 Overlaps\_9\_9 = 0 TMP\_0 = 0 not(TMP\_0) = 1 TMP\_1 = 1 not(TMP\_1) = 0 TMP\_2 = 1 not(TMP\_2) = 0 TMP\_3 = 1 not(TMP\_3) = 0 TMP\_4 = 1 not(TMP\_4) = 0 TMP\_5 = 1 not(TMP\_5) = 0 TMP\_6 = 5 TMP\_7 = 0 not(TMP\_7) = 1 TMP\_8 = 0 not(TMP\_8) = 1 TMP\_9 = 0 TMP\_10 = 1 not(TMP\_10) = 0 TMP\_11 = 1 not(TMP\_11) = 0 TMP\_12 = 2 TMP\_13 = 0 not(TMP\_13) = 1 TMP\_14 = 0 not(TMP\_14) = 1 TMP\_15 = 1 not(TMP\_15) = 0 TMP\_16 = 1 not(TMP\_16) = 0 TMP\_17 = 1 not(TMP\_17) = 0 TMP\_18 = 2 TMP\_19 = 0 not(TMP\_19) = 1 TMP\_20 = 1 not(TMP\_20) = 0 TMP\_21 = 1 not(TMP\_21) = 0 TMP\_22 = 1 not(TMP\_22) = 0 TMP\_23 = 1 not(TMP\_23) = 0 TMP\_24 = 1 not(TMP\_24) = 0 TMP\_25 = 5 TMP\_26 = 0 not(TMP\_26) = 1 TMP\_27 = 0 not(TMP\_27) = 1 TMP\_28 = 0 TMP\_29 = 1 not(TMP\_29) = 0 TMP\_30 = 1 not(TMP\_30) = 0 TMP\_31 = 2 TMP\_32 = 0 not(TMP\_32) = 1 TMP\_33 = 0 not(TMP\_33) = 1 TMP\_34 = 1 not(TMP\_34) = 0 TMP\_35 = 1 not(TMP\_35) = 0 TMP\_36 = 1 not(TMP\_36) = 0 TMP\_37 = 2 TMP\_38 = 0 not(TMP\_38) = 1 TMP\_39 = 1 not(TMP\_39) = 0 TMP\_40 = 1 not(TMP\_40) = 0 TMP\_41 = 1 not(TMP\_41) = 0 TMP\_42 = 0 not(TMP\_42) = 1 TMP\_43 = 1 not(TMP\_43) = 0 TMP\_44 = 4 TMP\_45 = 0 not(TMP\_45) = 1 TMP\_46 = 0 not(TMP\_46) = 1 TMP\_47 = 0 TMP\_48 = 1 not(TMP\_48) = 0 TMP\_49 = 1 not(TMP\_49) = 0 TMP\_50 = 2 TMP\_51 = 0 not(TMP\_51) = 1 TMP\_52 = 0 not(TMP\_52) = 1 TMP\_53 = 1 not(TMP\_53) = 0 TMP\_54 = 1 not(TMP\_54) = 0 TMP\_55 = 1 not(TMP\_55) = 0 TMP\_56 = 2 TMP\_57 = 0 not(TMP\_57) = 1 TMP\_58 = 1 not(TMP\_58) = 0 TMP\_59 = 1 not(TMP\_59) = 0 TMP\_60 = 1 not(TMP\_60) = 0 TMP\_61 = 0 not(TMP\_61) = 1 TMP\_62 = 1 not(TMP\_62) = 0 TMP\_63 = 4 TMP\_64 = 0 not(TMP\_64) = 1 TMP\_65 = 0 not(TMP\_65) = 1 TMP\_66 = 0 TMP\_67 = 1 not(TMP\_67) = 0 TMP\_68 = 1 not(TMP\_68) = 0 TMP\_69 = 2 TMP\_70 = 0 not(TMP\_70) = 1 TMP\_71 = 0 not(TMP\_71) = 1 TMP\_72 = 1 not(TMP\_72) = 0 TMP\_73 = 1 not(TMP\_73) = 0 TMP\_74 = 1 not(TMP\_74) = 0 TMP\_75 = 2 TMP\_76 = 1 not(TMP\_76) = 0 TMP\_77 = 0 not(TMP\_77) = 1 TMP\_78 = 1 not(TMP\_78) = 0 TMP\_79 = 1 not(TMP\_79) = 0 TMP\_80 = 0 not(TMP\_80) = 1 TMP\_81 = 1 not(TMP\_81) = 0 TMP\_82 = 4 TMP\_83 = 0 not(TMP\_83) = 1 TMP\_84 = 0 not(TMP\_84) = 1 TMP\_85 = 0 TMP\_86 = 1 not(TMP\_86) = 0 TMP\_87 = 1 not(TMP\_87) = 0 TMP\_88 = 2 TMP\_89 = 0 not(TMP\_89) = 1 TMP\_90 = 0 not(TMP\_90) = 1 TMP\_91 = 1 not(TMP\_91) = 0 TMP\_92 = 1 not(TMP\_92) = 0 TMP\_93 = 1 not(TMP\_93) = 0 TMP\_94 = 2 TMP\_95 = 1 not(TMP\_95) = 0 TMP\_96 = 0 not(TMP\_96) = 1 TMP\_97 = 1 not(TMP\_97) = 0 TMP\_98 = 1 not(TMP\_98) = 0 TMP\_99 = 1 not(TMP\_99) = 0 TMP\_100 = 1 not(TMP\_100) = 0 TMP\_101 = 5 TMP\_102 = 0 not(TMP\_102) = 1 TMP\_103 = 0 not(TMP\_103) = 1 TMP\_104 = 0 TMP\_105 = 1 not(TMP\_105) = 0 TMP\_106 = 1 not(TMP\_106) = 0 TMP\_107 = 2 TMP\_108 = 0 not(TMP\_108) = 1 TMP\_109 = 0 not(TMP\_109) = 1 TMP\_110 = 1 not(TMP\_110) = 0 TMP\_111 = 1 not(TMP\_111) = 0 TMP\_112 = 1 not(TMP\_112) = 0 TMP\_113 = 2 TMP\_114 = 1 not(TMP\_114) = 0 TMP\_115 = 1 not(TMP\_115) = 0 TMP\_116 = 1 not(TMP\_116) = 0 TMP\_117 = 1 not(TMP\_117) = 0 TMP\_118 = 0 not(TMP\_118) = 1 TMP\_119 = 1 not(TMP\_119) = 0 TMP\_120 = 5 TMP\_121 = 0 not(TMP\_121) = 1 TMP\_122 = 0 not(TMP\_122) = 1 TMP\_123 = 0 TMP\_124 = 1 not(TMP\_124) = 0 TMP\_125 = 1 not(TMP\_125) = 0 TMP\_126 = 2 TMP\_127 = 0 not(TMP\_127) = 1 TMP\_128 = 0 not(TMP\_128) = 1 TMP\_129 = 1 not(TMP\_129) = 0 TMP\_130 = 1 not(TMP\_130) = 0 TMP\_131 = 1 not(TMP\_131) = 0 TMP\_132 = 2 TMP\_133 = 0 not(TMP\_133) = 1 TMP\_134 = 1 not(TMP\_134) = 0 TMP\_135 = 1 not(TMP\_135) = 0 TMP\_136 = 1 not(TMP\_136) = 0 TMP\_137 = 0 not(TMP\_137) = 1 TMP\_138 = 1 not(TMP\_138) = 0 TMP\_139 = 4 TMP\_140 = 0 not(TMP\_140) = 1 TMP\_141 = 0 not(TMP\_141) = 1 TMP\_142 = 0 TMP\_143 = 1 not(TMP\_143) = 0 TMP\_144 = 1 not(TMP\_144) = 0 TMP\_145 = 2 TMP\_146 = 0 not(TMP\_146) = 1 TMP\_147 = 0 not(TMP\_147) = 1 TMP\_148 = 1 not(TMP\_148) = 0 TMP\_149 = 1 not(TMP\_149) = 0 TMP\_150 = 1 not(TMP\_150) = 0 TMP\_151 = 2 TMP\_152 = 0 not(TMP\_152) = 1 TMP\_153 = 1 not(TMP\_153) = 0 TMP\_154 = 1 not(TMP\_154) = 0 TMP\_155 = 1 not(TMP\_155) = 0 TMP\_156 = 1 not(TMP\_156) = 0 TMP\_157 = 1 not(TMP\_157) = 0 TMP\_158 = 5 TMP\_159 = 0 not(TMP\_159) = 1 TMP\_160 = 0 not(TMP\_160) = 1 TMP\_161 = 0 TMP\_162 = 1 not(TMP\_162) = 0 TMP\_163 = 1 not(TMP\_163) = 0 TMP\_164 = 2 TMP\_165 = 0 not(TMP\_165) = 1 TMP\_166 = 0 not(TMP\_166) = 1 TMP\_167 = 1 not(TMP\_167) = 0 TMP\_168 = 1 not(TMP\_168) = 0 TMP\_169 = 1 not(TMP\_169) = 0 TMP\_170 = 2 TMP\_171 = 0 not(TMP\_171) = 1 TMP\_172 = 1 not(TMP\_172) = 0 TMP\_173 = 1 not(TMP\_173) = 0 TMP\_174 = 1 not(TMP\_174) = 0 TMP\_175 = 1 not(TMP\_175) = 0 TMP\_176 = 0 not(TMP\_176) = 1 TMP\_177 = 4 TMP\_178 = 0 not(TMP\_178) = 1 TMP\_179 = 0 not(TMP\_179) = 1 TMP\_180 = 0 TMP\_181 = 1 not(TMP\_181) = 0 TMP\_182 = 1 not(TMP\_182) = 0 TMP\_183 = 2 TMP\_184 = 0 not(TMP\_184) = 1 TMP\_185 = 0 not(TMP\_185) = 1 TMP\_186 = 1 not(TMP\_186) = 0 TMP\_187 = 1 not(TMP\_187) = 0 TMP\_188 = 1 not(TMP\_188) = 0 TMP\_189 = 2 TMP\_190 = 0 not(TMP\_190) = 1 TMP\_191 = 1 not(TMP\_191) = 0 TMP\_192 = 1 not(TMP\_192) = 0 TMP\_193 = 1 not(TMP\_193) = 0 TMP\_194 = 1 not(TMP\_194) = 0 TMP\_195 = 0 not(TMP\_195) = 1 TMP\_196 = 4 TMP\_197 = 0 not(TMP\_197) = 1 TMP\_198 = 0 not(TMP\_198) = 1 TMP\_199 = 0 TMP\_200 = 1 not(TMP\_200) = 0 TMP\_201 = 1 not(TMP\_201) = 0 TMP\_202 = 2 TMP\_203 = 0 not(TMP\_203) = 1 TMP\_204 = 0 not(TMP\_204) = 1 TMP\_205 = 1 not(TMP\_205) = 0 TMP\_206 = 1 not(TMP\_206) = 0 TMP\_207 = 1 not(TMP\_207) = 0 TMP\_208 = 2 TMP\_209 = 0 not(TMP\_209) = 1 TMP\_210 = 1 not(TMP\_210) = 0 TMP\_211 = 1 not(TMP\_211) = 0 TMP\_212 = 1 not(TMP\_212) = 0 TMP\_213 = 1 not(TMP\_213) = 0 TMP\_214 = 1 not(TMP\_214) = 0 TMP\_215 = 5 TMP\_216 = 0 not(TMP\_216) = 1 TMP\_217 = 0 not(TMP\_217) = 1 TMP\_218 = 0 TMP\_219 = 1 not(TMP\_219) = 0 TMP\_220 = 1 not(TMP\_220) = 0 TMP\_221 = 2 TMP\_222 = 0 not(TMP\_222) = 1 TMP\_223 = 0 not(TMP\_223) = 1 TMP\_224 = 1 not(TMP\_224) = 0 TMP\_225 = 1 not(TMP\_225) = 0 TMP\_226 = 1 not(TMP\_226) = 0 TMP\_227 = 2 TMP\_228 = 0 not(TMP\_228) = 1 TMP\_229 = 1 not(TMP\_229) = 0 TMP\_230 = 1 not(TMP\_230) = 0 TMP\_231 = 1 not(TMP\_231) = 0 TMP\_232 = 1 not(TMP\_232) = 0 TMP\_233 = 1 not(TMP\_233) = 0 TMP\_234 = 5 TMP\_235 = 0 not(TMP\_235) = 1 TMP\_236 = 0 not(TMP\_236) = 1 TMP\_237 = 0 TMP\_238 = 1 not(TMP\_238) = 0 TMP\_239 = 1 not(TMP\_239) = 0 TMP\_240 = 2 TMP\_241 = 0 not(TMP\_241) = 1 TMP\_242 = 0 not(TMP\_242) = 1 TMP\_243 = 1 not(TMP\_243) = 0 TMP\_244 = 1 not(TMP\_244) = 0 TMP\_245 = 1 not(TMP\_245) = 0 TMP\_246 = 2 TMP\_247 = 1 not(TMP\_247) = 0 TMP\_248 = 0 not(TMP\_248) = 1 TMP\_249 = 1 not(TMP\_249) = 0 TMP\_250 = 1 not(TMP\_250) = 0 TMP\_251 = 1 not(TMP\_251) = 0 TMP\_252 = 1 not(TMP\_252) = 0 TMP\_253 = 5 TMP\_254 = 0 not(TMP\_254) = 1 TMP\_255 = 0 not(TMP\_255) = 1 TMP\_256 = 0 TMP\_257 = 1 not(TMP\_257) = 0 TMP\_258 = 1 not(TMP\_258) = 0 TMP\_259 = 2 TMP\_260 = 0 not(TMP\_260) = 1 TMP\_261 = 0 not(TMP\_261) = 1 TMP\_262 = 1 not(TMP\_262) = 0 TMP\_263 = 1 not(TMP\_263) = 0 TMP\_264 = 1 not(TMP\_264) = 0 TMP\_265 = 2 TMP\_266 = 1 not(TMP\_266) = 0 TMP\_267 = 0 not(TMP\_267) = 1 TMP\_268 = 1 not(TMP\_268) = 0 TMP\_269 = 1 not(TMP\_269) = 0 TMP\_270 = 1 not(TMP\_270) = 0 TMP\_271 = 0 not(TMP\_271) = 1 TMP\_272 = 4 TMP\_273 = 0 not(TMP\_273) = 1 TMP\_274 = 0 not(TMP\_274) = 1 TMP\_275 = 0 TMP\_276 = 1 not(TMP\_276) = 0 TMP\_277 = 1 not(TMP\_277) = 0 TMP\_278 = 2 TMP\_279 = 0 not(TMP\_279) = 1 TMP\_280 = 0 not(TMP\_280) = 1 TMP\_281 = 1 not(TMP\_281) = 0 TMP\_282 = 1 not(TMP\_282) = 0 TMP\_283 = 1 not(TMP\_283) = 0 TMP\_284 = 2 TMP\_285 = 1 not(TMP\_285) = 0 TMP\_286 = 1 not(TMP\_286) = 0 TMP\_287 = 1 not(TMP\_287) = 0 TMP\_288 = 1 not(TMP\_288) = 0 TMP\_289 = 1 not(TMP\_289) = 0 TMP\_290 = 0 not(TMP\_290) = 1 TMP\_291 = 5 TMP\_292 = 0 not(TMP\_292) = 1 TMP\_293 = 0 not(TMP\_293) = 1 TMP\_294 = 0 TMP\_295 = 1 not(TMP\_295) = 0 TMP\_296 = 1 not(TMP\_296) = 0 TMP\_297 = 2 TMP\_298 = 0 not(TMP\_298) = 1 TMP\_299 = 0 not(TMP\_299) = 1 TMP\_300 = 1 not(TMP\_300) = 0 TMP\_301 = 1 not(TMP\_301) = 0 TMP\_302 = 1 not(TMP\_302) = 0 TMP\_303 = 2 TMP\_304 = 0 not(TMP\_304) = 1 TMP\_305 = 1 not(TMP\_305) = 0 TMP\_306 = 1 not(TMP\_306) = 0 TMP\_307 = 1 not(TMP\_307) = 0 TMP\_308 = 1 not(TMP\_308) = 0 TMP\_309 = 1 not(TMP\_309) = 0 TMP\_310 = 5 TMP\_311 = 0 not(TMP\_311) = 1 TMP\_312 = 0 not(TMP\_312) = 1 TMP\_313 = 0 TMP\_314 = 1 not(TMP\_314) = 0 TMP\_315 = 1 not(TMP\_315) = 0 TMP\_316 = 2 TMP\_317 = 0 not(TMP\_317) = 1 TMP\_318 = 0 not(TMP\_318) = 1 TMP\_319 = 1 not(TMP\_319) = 0 TMP\_320 = 1 not(TMP\_320) = 0 TMP\_321 = 1 not(TMP\_321) = 0 TMP\_322 = 2 TMP\_323 = 0 not(TMP\_323) = 1 TMP\_324 = 1 not(TMP\_324) = 0 TMP\_325 = 1 not(TMP\_325) = 0 TMP\_326 = 1 not(TMP\_326) = 0 TMP\_327 = 1 not(TMP\_327) = 0 TMP\_328 = 0 not(TMP\_328) = 1 TMP\_329 = 4 TMP\_330 = 0 not(TMP\_330) = 1 TMP\_331 = 0 not(TMP\_331) = 1 TMP\_332 = 0 TMP\_333 = 1 not(TMP\_333) = 0 TMP\_334 = 1 not(TMP\_334) = 0 TMP\_335 = 2 TMP\_336 = 0 not(TMP\_336) = 1 TMP\_337 = 0 not(TMP\_337) = 1 TMP\_338 = 1 not(TMP\_338) = 0 TMP\_339 = 1 not(TMP\_339) = 0 TMP\_340 = 1 not(TMP\_340) = 0 TMP\_341 = 2 TMP\_342 = 1 not(TMP\_342) = 0 TMP\_343 = 1 not(TMP\_343) = 0 TMP\_344 = 1 not(TMP\_344) = 0 TMP\_345 = 1 not(TMP\_345) = 0 TMP\_346 = 1 not(TMP\_346) = 0 TMP\_347 = 0 not(TMP\_347) = 1 TMP\_348 = 5 TMP\_349 = 0 not(TMP\_349) = 1 TMP\_350 = 0 not(TMP\_350) = 1 TMP\_351 = 0 TMP\_352 = 1 not(TMP\_352) = 0 TMP\_353 = 1 not(TMP\_353) = 0 TMP\_354 = 2 TMP\_355 = 0 not(TMP\_355) = 1 TMP\_356 = 0 not(TMP\_356) = 1 TMP\_357 = 1 not(TMP\_357) = 0 TMP\_358 = 1 not(TMP\_358) = 0 TMP\_359 = 1 not(TMP\_359) = 0 TMP\_360 = 2 TMP\_361 = 1 not(TMP\_361) = 0 TMP\_362 = 0 not(TMP\_362) = 1 TMP\_363 = 1 not(TMP\_363) = 0 TMP\_364 = 1 not(TMP\_364) = 0 TMP\_365 = 1 not(TMP\_365) = 0 TMP\_366 = 0 not(TMP\_366) = 1 TMP\_367 = 4 TMP\_368 = 0 not(TMP\_368) = 1 TMP\_369 = 0 not(TMP\_369) = 1 TMP\_370 = 0 TMP\_371 = 1 not(TMP\_371) = 0 TMP\_372 = 1 not(TMP\_372) = 0 TMP\_373 = 2 TMP\_374 = 0 not(TMP\_374) = 1 TMP\_375 = 0 not(TMP\_375) = 1 TMP\_376 = 1 not(TMP\_376) = 0 TMP\_377 = 1 not(TMP\_377) = 0 TMP\_378 = 1 not(TMP\_378) = 0 TMP\_379 = 2 TMP\_380 = 1 not(TMP\_380) = 0 TMP\_381 = 0 not(TMP\_381) = 1 TMP\_382 = 1 not(TMP\_382) = 0 TMP\_383 = 1 not(TMP\_383) = 0 TMP\_384 = 1 not(TMP\_384) = 0 TMP\_385 = 1 not(TMP\_385) = 0 TMP\_386 = 5 TMP\_387 = 0 not(TMP\_387) = 1 TMP\_388 = 0 not(TMP\_388) = 1 TMP\_389 = 0 TMP\_390 = 1 not(TMP\_390) = 0 TMP\_391 = 1 not(TMP\_391) = 0 TMP\_392 = 2 TMP\_393 = 0 not(TMP\_393) = 1 TMP\_394 = 0 not(TMP\_394) = 1 TMP\_395 = 1 not(TMP\_395) = 0 TMP\_396 = 1 not(TMP\_396) = 0 TMP\_397 = 1 not(TMP\_397) = 0 TMP\_398 = 2 TMP\_399 = 1 not(TMP\_399) = 0 TMP\_400 = 0 not(TMP\_400) = 1 TMP\_401 = 1 not(TMP\_401) = 0 TMP\_402 = 1 not(TMP\_402) = 0 TMP\_403 = 1 not(TMP\_403) = 0 TMP\_404 = 1 not(TMP\_404) = 0 TMP\_405 = 5 TMP\_406 = 0 not(TMP\_406) = 1 TMP\_407 = 0 not(TMP\_407) = 1 TMP\_408 = 0 TMP\_409 = 1 not(TMP\_409) = 0 TMP\_410 = 1 not(TMP\_410) = 0 TMP\_411 = 2 TMP\_412 = 0 not(TMP\_412) = 1 TMP\_413 = 0 not(TMP\_413) = 1 TMP\_414 = 1 not(TMP\_414) = 0 TMP\_415 = 1 not(TMP\_415) = 0 TMP\_416 = 1 not(TMP\_416) = 0 TMP\_417 = 2 TMP\_418 = 1 not(TMP\_418) = 0 TMP\_419 = 0 not(TMP\_419) = 1 TMP\_420 = 1 not(TMP\_420) = 0 TMP\_421 = 1 not(TMP\_421) = 0 TMP\_422 = 1 not(TMP\_422) = 0 TMP\_423 = 1 not(TMP\_423) = 0 TMP\_424 = 5 TMP\_425 = 0 not(TMP\_425) = 1 TMP\_426 = 0 not(TMP\_426) = 1 TMP\_427 = 0 TMP\_428 = 1 not(TMP\_428) = 0 TMP\_429 = 1 not(TMP\_429) = 0 TMP\_430 = 2 TMP\_431 = 0 not(TMP\_431) = 1 TMP\_432 = 0 not(TMP\_432) = 1 TMP\_433 = 1 not(TMP\_433) = 0 TMP\_434 = 1 not(TMP\_434) = 0 TMP\_435 = 1 not(TMP\_435) = 0 TMP\_436 = 2 TMP\_437 = 1 not(TMP\_437) = 0 TMP\_438 = 0 not(TMP\_438) = 1 TMP\_439 = 1 not(TMP\_439) = 0 TMP\_440 = 1 not(TMP\_440) = 0 TMP\_441 = 1 not(TMP\_441) = 0 TMP\_442 = 0 not(TMP\_442) = 1 TMP\_443 = 4 TMP\_444 = 0 not(TMP\_444) = 1 TMP\_445 = 0 not(TMP\_445) = 1 TMP\_446 = 0 TMP\_447 = 1 not(TMP\_447) = 0 TMP\_448 = 1 not(TMP\_448) = 0 TMP\_449 = 2 TMP\_450 = 0 not(TMP\_450) = 1 TMP\_451 = 0 not(TMP\_451) = 1 TMP\_452 = 1 not(TMP\_452) = 0 TMP\_453 = 1 not(TMP\_453) = 0 TMP\_454 = 1 not(TMP\_454) = 0 TMP\_455 = 2 TMP\_456 = 1 not(TMP\_456) = 0 TMP\_457 = 0 not(TMP\_457) = 1 TMP\_458 = 1 not(TMP\_458) = 0 TMP\_459 = 1 not(TMP\_459) = 0 TMP\_460 = 1 not(TMP\_460) = 0 TMP\_461 = 0 not(TMP\_461) = 1 TMP\_462 = 4 TMP\_463 = 0 not(TMP\_463) = 1 TMP\_464 = 0 not(TMP\_464) = 1 TMP\_465 = 0 TMP\_466 = 1 not(TMP\_466) = 0 TMP\_467 = 1 not(TMP\_467) = 0 TMP\_468 = 2 TMP\_469 = 0 not(TMP\_469) = 1 TMP\_470 = 0 not(TMP\_470) = 1 TMP\_471 = 1 not(TMP\_471) = 0 TMP\_472 = 1 not(TMP\_472) = 0 TMP\_473 = 1 not(TMP\_473) = 0 TMP\_474 = 2 TMP\_475 = 1 not(TMP\_475) = 0 TMP\_476 = 0 not(TMP\_476) = 1 TMP\_477 = 1 not(TMP\_477) = 0 TMP\_478 = 1 not(TMP\_478) = 0 TMP\_479 = 1 not(TMP\_479) = 0 TMP\_480 = 1 not(TMP\_480) = 0 TMP\_481 = 5 TMP\_482 = 0 not(TMP\_482) = 1 TMP\_483 = 0 not(TMP\_483) = 1 TMP\_484 = 0 TMP\_485 = 1 not(TMP\_485) = 0 TMP\_486 = 1 not(TMP\_486) = 0 TMP\_487 = 2 TMP\_488 = 0 not(TMP\_488) = 1 TMP\_489 = 0 not(TMP\_489) = 1 TMP\_490 = 1 not(TMP\_490) = 0 TMP\_491 = 1 not(TMP\_491) = 0 TMP\_492 = 1 not(TMP\_492) = 0 TMP\_493 = 2 TMP\_494 = 1 not(TMP\_494) = 0 TMP\_495 = 1 not(TMP\_495) = 0 TMP\_496 = 1 not(TMP\_496) = 0 TMP\_497 = 1 not(TMP\_497) = 0 TMP\_498 = 1 not(TMP\_498) = 0 TMP\_499 = 0 not(TMP\_499) = 1 TMP\_500 = 5 TMP\_501 = 0 not(TMP\_501) = 1 TMP\_502 = 0 not(TMP\_502) = 1 TMP\_503 = 0 TMP\_504 = 1 not(TMP\_504) = 0 TMP\_505 = 1 not(TMP\_505) = 0 TMP\_506 = 2 TMP\_507 = 0 not(TMP\_507) = 1 TMP\_508 = 0 not(TMP\_508) = 1 TMP\_509 = 1 not(TMP\_509) = 0 TMP\_510 = 1 not(TMP\_510) = 0 TMP\_511 = 1 not(TMP\_511) = 0 TMP\_512 = 2 TMP\_513 = 0 not(TMP\_513) = 1 TMP\_514 = 1 not(TMP\_514) = 0 TMP\_515 = 1 not(TMP\_515) = 0 TMP\_516 = 1 not(TMP\_516) = 0 TMP\_517 = 1 not(TMP\_517) = 0 TMP\_518 = 1 not(TMP\_518) = 0 TMP\_519 = 5 TMP\_520 = 0 not(TMP\_520) = 1 TMP\_521 = 0 not(TMP\_521) = 1 TMP\_522 = 0 TMP\_523 = 1 not(TMP\_523) = 0 TMP\_524 = 1 not(TMP\_524) = 0 TMP\_525 = 2 TMP\_526 = 0 not(TMP\_526) = 1 TMP\_527 = 0 not(TMP\_527) = 1 TMP\_528 = 1 not(TMP\_528) = 0 TMP\_529 = 1 not(TMP\_529) = 0 TMP\_530 = 1 not(TMP\_530) = 0 TMP\_531 = 2 TMP\_532 = 1 not(TMP\_532) = 0 TMP\_533 = 0 not(TMP\_533) = 1 TMP\_534 = 1 not(TMP\_534) = 0 TMP\_535 = 1 not(TMP\_535) = 0 TMP\_536 = 1 not(TMP\_536) = 0 TMP\_537 = 1 not(TMP\_537) = 0 TMP\_538 = 5 TMP\_539 = 0 not(TMP\_539) = 1 TMP\_540 = 0 not(TMP\_540) = 1 TMP\_541 = 0 TMP\_542 = 1 not(TMP\_542) = 0 TMP\_543 = 1 not(TMP\_543) = 0 TMP\_544 = 2 TMP\_545 = 0 not(TMP\_545) = 1 TMP\_546 = 0 not(TMP\_546) = 1 TMP\_547 = 1 not(TMP\_547) = 0 TMP\_548 = 1 not(TMP\_548) = 0 TMP\_549 = 1 not(TMP\_549) = 0 TMP\_550 = 2 TMP\_551 = 1 not(TMP\_551) = 0 TMP\_552 = 0 not(TMP\_552) = 1 TMP\_553 = 1 not(TMP\_553) = 0 TMP\_554 = 1 not(TMP\_554) = 0 TMP\_555 = 0 not(TMP\_555) = 1 TMP\_556 = 1 not(TMP\_556) = 0 TMP\_557 = 4 TMP\_558 = 0 not(TMP\_558) = 1 TMP\_559 = 0 not(TMP\_559) = 1 TMP\_560 = 0 TMP\_561 = 1 not(TMP\_561) = 0 TMP\_562 = 1 not(TMP\_562) = 0 TMP\_563 = 2 TMP\_564 = 0 not(TMP\_564) = 1 TMP\_565 = 0 not(TMP\_565) = 1 TMP\_566 = 1 not(TMP\_566) = 0 TMP\_567 = 1 not(TMP\_567) = 0 TMP\_568 = 1 not(TMP\_568) = 0 TMP\_569 = 2 TMP\_570 = 1 not(TMP\_570) = 0 TMP\_571 = 0 not(TMP\_571) = 1 TMP\_572 = 1 not(TMP\_572) = 0 TMP\_573 = 1 not(TMP\_573) = 0 TMP\_574 = 0 not(TMP\_574) = 1 TMP\_575 = 1 not(TMP\_575) = 0 TMP\_576 = 4 TMP\_577 = 0 not(TMP\_577) = 1 TMP\_578 = 0 not(TMP\_578) = 1 TMP\_579 = 0 TMP\_580 = 1 not(TMP\_580) = 0 TMP\_581 = 1 not(TMP\_581) = 0 TMP\_582 = 2 TMP\_583 = 0 not(TMP\_583) = 1 TMP\_584 = 0 not(TMP\_584) = 1 TMP\_585 = 1 not(TMP\_585) = 0 TMP\_586 = 1 not(TMP\_586) = 0 TMP\_587 = 1 not(TMP\_587) = 0 TMP\_588 = 2 TMP\_589 = 1 not(TMP\_589) = 0 TMP\_590 = 0 not(TMP\_590) = 1 TMP\_591 = 1 not(TMP\_591) = 0 TMP\_592 = 1 not(TMP\_592) = 0 TMP\_593 = 0 not(TMP\_593) = 1 TMP\_594 = 1 not(TMP\_594) = 0 TMP\_595 = 4 TMP\_596 = 0 not(TMP\_596) = 1 TMP\_597 = 0 not(TMP\_597) = 1 TMP\_598 = 0 TMP\_599 = 1 not(TMP\_599) = 0 TMP\_600 = 1 not(TMP\_600) = 0 TMP\_601 = 2 TMP\_602 = 0 not(TMP\_602) = 1 TMP\_603 = 0 not(TMP\_603) = 1 TMP\_604 = 1 not(TMP\_604) = 0 TMP\_605 = 1 not(TMP\_605) = 0 TMP\_606 = 1 not(TMP\_606) = 0 TMP\_607 = 2 TMP\_608 = 1 not(TMP\_608) = 0 TMP\_609 = 0 not(TMP\_609) = 1 TMP\_610 = 1 not(TMP\_610) = 0 TMP\_611 = 1 not(TMP\_611) = 0 TMP\_612 = 1 not(TMP\_612) = 0 TMP\_613 = 1 not(TMP\_613) = 0 TMP\_614 = 5 TMP\_615 = 0 not(TMP\_615) = 1 TMP\_616 = 0 not(TMP\_616) = 1 TMP\_617 = 0 TMP\_618 = 1 not(TMP\_618) = 0 TMP\_619 = 1 not(TMP\_619) = 0 TMP\_620 = 2 TMP\_621 = 0 not(TMP\_621) = 1 TMP\_622 = 0 not(TMP\_622) = 1 TMP\_623 = 1 not(TMP\_623) = 0 TMP\_624 = 1 not(TMP\_624) = 0 TMP\_625 = 1 not(TMP\_625) = 0 TMP\_626 = 2 TMP\_627 = 1 not(TMP\_627) = 0 TMP\_628 = 0 not(TMP\_628) = 1 TMP\_629 = 1 not(TMP\_629) = 0 TMP\_630 = 1 not(TMP\_630) = 0 TMP\_631 = 1 not(TMP\_631) = 0 TMP\_632 = 1 not(TMP\_632) = 0 TMP\_633 = 5 TMP\_634 = 0 not(TMP\_634) = 1 TMP\_635 = 0 not(TMP\_635) = 1 TMP\_636 = 0 TMP\_637 = 1 not(TMP\_637) = 0 TMP\_638 = 1 not(TMP\_638) = 0 TMP\_639 = 2 TMP\_640 = 0 not(TMP\_640) = 1 TMP\_641 = 0 not(TMP\_641) = 1 TMP\_642 = 1 not(TMP\_642) = 0 TMP\_643 = 1 not(TMP\_643) = 0 TMP\_644 = 1 not(TMP\_644) = 0 TMP\_645 = 2 TMP\_646 = 1 not(TMP\_646) = 0 TMP\_647 = 0 not(TMP\_647) = 1 TMP\_648 = 1 not(TMP\_648) = 0 TMP\_649 = 1 not(TMP\_649) = 0 TMP\_650 = 0 not(TMP\_650) = 1 TMP\_651 = 1 not(TMP\_651) = 0 TMP\_652 = 4 TMP\_653 = 0 not(TMP\_653) = 1 TMP\_654 = 0 not(TMP\_654) = 1 TMP\_655 = 0 TMP\_656 = 1 not(TMP\_656) = 0 TMP\_657 = 1 not(TMP\_657) = 0 TMP\_658 = 2 TMP\_659 = 0 not(TMP\_659) = 1 TMP\_660 = 0 not(TMP\_660) = 1 TMP\_661 = 1 not(TMP\_661) = 0 TMP\_662 = 1 not(TMP\_662) = 0 TMP\_663 = 1 not(TMP\_663) = 0 TMP\_664 = 2 TMP\_665 = 1 not(TMP\_665) = 0 TMP\_666 = 1 not(TMP\_666) = 0 TMP\_667 = 1 not(TMP\_667) = 0 TMP\_668 = 1 not(TMP\_668) = 0 TMP\_669 = 0 not(TMP\_669) = 1 TMP\_670 = 1 not(TMP\_670) = 0 TMP\_671 = 5 TMP\_672 = 0 not(TMP\_672) = 1 TMP\_673 = 0 not(TMP\_673) = 1 TMP\_674 = 0 TMP\_675 = 1 not(TMP\_675) = 0 TMP\_676 = 1 not(TMP\_676) = 0 TMP\_677 = 2 TMP\_678 = 0 not(TMP\_678) = 1 TMP\_679 = 0 not(TMP\_679) = 1 TMP\_680 = 1 not(TMP\_680) = 0 TMP\_681 = 1 not(TMP\_681) = 0 TMP\_682 = 1 not(TMP\_682) = 0 TMP\_683 = 2 Area\_0 = 60 Distance\_0\_Rule\_0 = 20 Distance\_1\_Rule\_0 = 3 Distance\_2\_Rule\_0 = 1 Area\_1 = 174 Distance\_0\_Rule\_1 = 58 Distance\_1\_Rule\_1 = 3 Distance\_2\_Rule\_1 = 1 Area\_2 = 116 Distance\_0\_Rule\_2 = 58 Distance\_1\_Rule\_2 = 2 Distance\_2\_Rule\_2 = 1 Area\_3 = 58 Distance\_0\_Rule\_3 = 58 Distance\_1\_Rule\_3 = 1 Distance\_2\_Rule\_3 = 1 Area\_4 = 120 Distance\_0\_Rule\_4 = 40 Distance\_1\_Rule\_4 = 3 Distance\_2\_Rule\_4 = 1 Area\_5 = 120 Distance\_0\_Rule\_5 = 40 Distance\_1\_Rule\_5 = 3 Distance\_2\_Rule\_5 = 1 Area\_6 = 3 -(Rule\_6\_LB) = -79 Distance\_0\_Rule\_6 = 1 -(Rule\_6\_LB) = 0 Distance\_1\_Rule\_6 = 3 -(Rule\_6\_LB) = -1 Distance\_2\_Rule\_6 = 1 Area\_7 = 3 -(Rule\_7\_LB) = -79 Distance\_0\_Rule\_7 = 1 -(Rule\_7\_LB) = 0 Distance\_1\_Rule\_7 = 3 -(Rule\_7\_LB) = 0 Distance\_2\_Rule\_7 = 1 Area\_8 = 63 -(Rule\_8\_LB) = 0 Distance\_0\_Rule\_8 = 21 -(Rule\_8\_LB) = 0 Distance\_1\_Rule\_8 = 3 -(Rule\_8\_LB) = 0 Distance\_2\_Rule\_8 = 1 Area\_9 = 3 -(Rule\_9\_LB) = -20 Distance\_0\_Rule\_9 = 1 -(Rule\_9\_LB) = 0 Distance\_1\_Rule\_9 = 3 -(Rule\_9\_LB) = -1 Distance\_2\_Rule\_9 = 1 TMP\_684 = 720 .

- Solution #3 found. 3 Solutions, Resolution 1.334s, 712 Nodes (533.7 n/s), 1330 Backtracks, 670 Fails, 0 Restarts

Rule\_6\_LB = 79 Rule\_6\_UB = 80 Rule\_6\_LB = 0 Rule\_6\_UB = 3 Rule\_6\_LB = 1 Rule\_6\_UB = 2 Rule\_7\_LB = 79 Rule\_7\_UB = 80 Rule\_7\_LB = 0 Rule\_7\_UB = 3 Rule\_7\_LB = 0 Rule\_7\_UB = 1 Rule\_8\_LB = 0 Rule\_8\_UB = 21 Rule\_8\_LB = 0 Rule\_8\_UB = 3 Rule\_8\_LB = 0 Rule\_8\_UB = 1 Rule\_9\_LB = 20 Rule\_9\_UB = 21 Rule\_9\_LB = 0 Rule\_9\_UB = 3 Rule\_9\_LB = 1 Rule\_9\_UB = 2 Overlaps\_0\_0 = 0 Overlaps\_0\_1 = 0 Overlaps\_0\_2 = 0 Overlaps\_0\_3 = 0 Overlaps\_0\_4 = 0 Overlaps\_0\_5 = 0 Overlaps\_0\_6 = 0 Overlaps\_0\_7 = 0 Overlaps\_0\_8 = 0 Overlaps\_0\_9 = 0 Overlaps\_1\_0 = 0 Overlaps\_1\_1 = 0 Overlaps\_1\_2 = 0 Overlaps\_1\_3 = 0 Overlaps\_1\_4 = 0 Overlaps\_1\_5 = 0 Overlaps\_1\_6 = 0 Overlaps\_1\_7 = 0 Overlaps\_1\_8 = 0 Overlaps\_1\_9 = 0 Overlaps\_2\_0 = 0 Overlaps\_2\_1 = 0 Overlaps\_2\_2 = 0 Overlaps\_2\_3 = 0 Overlaps\_2\_4 = 0 Overlaps\_2\_5 = 0 Overlaps\_2\_6 = 0 Overlaps\_2\_7 = 0 Overlaps\_2\_8 = 0 Overlaps\_2\_9 = 0 Overlaps\_3\_0 = 0 Overlaps\_3\_1 = 0 Overlaps\_3\_2 = 0 Overlaps\_3\_3 = 0 Overlaps\_3\_4 = 0 Overlaps\_3\_5 = 0 Overlaps\_3\_6 = 0 Overlaps\_3\_7 = 0 Overlaps\_3\_8 = 0 Overlaps\_3\_9 = 0 Overlaps\_4\_0 = 0 Overlaps\_4\_1 = 0 Overlaps\_4\_2 = 0 Overlaps\_4\_3 = 0 Overlaps\_4\_4 = 0 Overlaps\_4\_5 = 0 Overlaps\_4\_6 = 0 Overlaps\_4\_7 = 0 Overlaps\_4\_8 = 0 Overlaps\_4\_9 = 0 Overlaps\_5\_0 = 1 Overlaps\_5\_1 = 0 Overlaps\_5\_2 = 0 Overlaps\_5\_3 = 0 Overlaps\_5\_4 = 0 Overlaps\_5\_5 = 0 Overlaps\_5\_6 = 0 Overlaps\_5\_7 = 0 Overlaps\_5\_8 = 0 Overlaps\_5\_9 = 0 Overlaps\_6\_0 = 0 Overlaps\_6\_1 = 0 Overlaps\_6\_2 = 0 Overlaps\_6\_3 = 0 Overlaps\_6\_4 = 0 Overlaps\_6\_5 = 0 Overlaps\_6\_6 = 0 Overlaps\_6\_7 = 0 Overlaps\_6\_8 = 0 Overlaps\_6\_9 = 0 Overlaps\_7\_0 = 0 Overlaps\_7\_1 = 0 Overlaps\_7\_2 = 0 Overlaps\_7\_3 = 0 Overlaps\_7\_4 = 0 Overlaps\_7\_5 = 0 Overlaps\_7\_6 = 0 Overlaps\_7\_7 = 0 Overlaps\_7\_8 = 0 Overlaps\_7\_9 = 0 Overlaps\_8\_0 = 0 Overlaps\_8\_1 = 0 Overlaps\_8\_2 = 0 Overlaps\_8\_3 = 0 Overlaps\_8\_4 = 0 Overlaps\_8\_5 = 0 Overlaps\_8\_6 = 0 Overlaps\_8\_7 = 0 Overlaps\_8\_8 = 0 Overlaps\_8\_9 = 0 Overlaps\_9\_0 = 0 Overlaps\_9\_1 = 0 Overlaps\_9\_2 = 0 Overlaps\_9\_3 = 0 Overlaps\_9\_4 = 0 Overlaps\_9\_5 = 0 Overlaps\_9\_6 = 0 Overlaps\_9\_7 = 0 Overlaps\_9\_8 = 0 Overlaps\_9\_9 = 0 TMP\_0 = 0 not(TMP\_0) = 1 TMP\_1 = 1 not(TMP\_1) = 0 TMP\_2 = 1 not(TMP\_2) = 0 TMP\_3 = 1 not(TMP\_3) = 0 TMP\_4 = 1 not(TMP\_4) = 0 TMP\_5 = 1 not(TMP\_5) = 0 TMP\_6 = 5 TMP\_7 = 0 not(TMP\_7) = 1 TMP\_8 = 0 not(TMP\_8) = 1 TMP\_9 = 0 TMP\_10 = 1 not(TMP\_10) = 0 TMP\_11 = 1 not(TMP\_11) = 0 TMP\_12 = 2 TMP\_13 = 0 not(TMP\_13) = 1 TMP\_14 = 0 not(TMP\_14) = 1 TMP\_15 = 1 not(TMP\_15) = 0 TMP\_16 = 1 not(TMP\_16) = 0 TMP\_17 = 1 not(TMP\_17) = 0 TMP\_18 = 2 TMP\_19 = 0 not(TMP\_19) = 1 TMP\_20 = 1 not(TMP\_20) = 0 TMP\_21 = 1 not(TMP\_21) = 0 TMP\_22 = 1 not(TMP\_22) = 0 TMP\_23 = 1 not(TMP\_23) = 0 TMP\_24 = 1 not(TMP\_24) = 0 TMP\_25 = 5 TMP\_26 = 0 not(TMP\_26) = 1 TMP\_27 = 0 not(TMP\_27) = 1 TMP\_28 = 0 TMP\_29 = 1 not(TMP\_29) = 0 TMP\_30 = 1 not(TMP\_30) = 0 TMP\_31 = 2 TMP\_32 = 0 not(TMP\_32) = 1 TMP\_33 = 0 not(TMP\_33) = 1 TMP\_34 = 1 not(TMP\_34) = 0 TMP\_35 = 1 not(TMP\_35) = 0 TMP\_36 = 1 not(TMP\_36) = 0 TMP\_37 = 2 TMP\_38 = 0 not(TMP\_38) = 1 TMP\_39 = 1 not(TMP\_39) = 0 TMP\_40 = 1 not(TMP\_40) = 0 TMP\_41 = 1 not(TMP\_41) = 0 TMP\_42 = 0 not(TMP\_42) = 1 TMP\_43 = 1 not(TMP\_43) = 0 TMP\_44 = 4 TMP\_45 = 0 not(TMP\_45) = 1 TMP\_46 = 0 not(TMP\_46) = 1 TMP\_47 = 0 TMP\_48 = 1 not(TMP\_48) = 0 TMP\_49 = 1 not(TMP\_49) = 0 TMP\_50 = 2 TMP\_51 = 0 not(TMP\_51) = 1 TMP\_52 = 0 not(TMP\_52) = 1 TMP\_53 = 1 not(TMP\_53) = 0 TMP\_54 = 1 not(TMP\_54) = 0 TMP\_55 = 1 not(TMP\_55) = 0 TMP\_56 = 2 TMP\_57 = 0 not(TMP\_57) = 1 TMP\_58 = 1 not(TMP\_58) = 0 TMP\_59 = 1 not(TMP\_59) = 0 TMP\_60 = 1 not(TMP\_60) = 0 TMP\_61 = 0 not(TMP\_61) = 1 TMP\_62 = 1 not(TMP\_62) = 0 TMP\_63 = 4 TMP\_64 = 0 not(TMP\_64) = 1 TMP\_65 = 0 not(TMP\_65) = 1 TMP\_66 = 0 TMP\_67 = 1 not(TMP\_67) = 0 TMP\_68 = 1 not(TMP\_68) = 0 TMP\_69 = 2 TMP\_70 = 0 not(TMP\_70) = 1 TMP\_71 = 0 not(TMP\_71) = 1 TMP\_72 = 1 not(TMP\_72) = 0 TMP\_73 = 1 not(TMP\_73) = 0 TMP\_74 = 1 not(TMP\_74) = 0 TMP\_75 = 2 TMP\_76 = 1 not(TMP\_76) = 0 TMP\_77 = 0 not(TMP\_77) = 1 TMP\_78 = 1 not(TMP\_78) = 0 TMP\_79 = 1 not(TMP\_79) = 0 TMP\_80 = 0 not(TMP\_80) = 1 TMP\_81 = 1 not(TMP\_81) = 0 TMP\_82 = 4 TMP\_83 = 0 not(TMP\_83) = 1 TMP\_84 = 0 not(TMP\_84) = 1 TMP\_85 = 0 TMP\_86 = 1 not(TMP\_86) = 0 TMP\_87 = 1 not(TMP\_87) = 0 TMP\_88 = 2 TMP\_89 = 0 not(TMP\_89) = 1 TMP\_90 = 0 not(TMP\_90) = 1 TMP\_91 = 1 not(TMP\_91) = 0 TMP\_92 = 1 not(TMP\_92) = 0 TMP\_93 = 1 not(TMP\_93) = 0 TMP\_94 = 2 TMP\_95 = 1 not(TMP\_95) = 0 TMP\_96 = 0 not(TMP\_96) = 1 TMP\_97 = 1 not(TMP\_97) = 0 TMP\_98 = 1 not(TMP\_98) = 0 TMP\_99 = 1 not(TMP\_99) = 0 TMP\_100 = 1 not(TMP\_100) = 0 TMP\_101 = 5 TMP\_102 = 0 not(TMP\_102) = 1 TMP\_103 = 0 not(TMP\_103) = 1 TMP\_104 = 0 TMP\_105 = 1 not(TMP\_105) = 0 TMP\_106 = 1 not(TMP\_106) = 0 TMP\_107 = 2 TMP\_108 = 0 not(TMP\_108) = 1 TMP\_109 = 0 not(TMP\_109) = 1 TMP\_110 = 1 not(TMP\_110) = 0 TMP\_111 = 1 not(TMP\_111) = 0 TMP\_112 = 1 not(TMP\_112) = 0 TMP\_113 = 2 TMP\_114 = 1 not(TMP\_114) = 0 TMP\_115 = 1 not(TMP\_115) = 0 TMP\_116 = 1 not(TMP\_116) = 0 TMP\_117 = 1 not(TMP\_117) = 0 TMP\_118 = 0 not(TMP\_118) = 1 TMP\_119 = 1 not(TMP\_119) = 0 TMP\_120 = 5 TMP\_121 = 0 not(TMP\_121) = 1 TMP\_122 = 0 not(TMP\_122) = 1 TMP\_123 = 0 TMP\_124 = 1 not(TMP\_124) = 0 TMP\_125 = 1 not(TMP\_125) = 0 TMP\_126 = 2 TMP\_127 = 0 not(TMP\_127) = 1 TMP\_128 = 0 not(TMP\_128) = 1 TMP\_129 = 1 not(TMP\_129) = 0 TMP\_130 = 1 not(TMP\_130) = 0 TMP\_131 = 1 not(TMP\_131) = 0 TMP\_132 = 2 TMP\_133 = 0 not(TMP\_133) = 1 TMP\_134 = 1 not(TMP\_134) = 0 TMP\_135 = 1 not(TMP\_135) = 0 TMP\_136 = 1 not(TMP\_136) = 0 TMP\_137 = 0 not(TMP\_137) = 1 TMP\_138 = 1 not(TMP\_138) = 0 TMP\_139 = 4 TMP\_140 = 0 not(TMP\_140) = 1 TMP\_141 = 0 not(TMP\_141) = 1 TMP\_142 = 0 TMP\_143 = 1 not(TMP\_143) = 0 TMP\_144 = 1 not(TMP\_144) = 0 TMP\_145 = 2 TMP\_146 = 0 not(TMP\_146) = 1 TMP\_147 = 0 not(TMP\_147) = 1 TMP\_148 = 1 not(TMP\_148) = 0 TMP\_149 = 1 not(TMP\_149) = 0 TMP\_150 = 1 not(TMP\_150) = 0 TMP\_151 = 2 TMP\_152 = 0 not(TMP\_152) = 1 TMP\_153 = 1 not(TMP\_153) = 0 TMP\_154 = 1 not(TMP\_154) = 0 TMP\_155 = 1 not(TMP\_155) = 0 TMP\_156 = 1 not(TMP\_156) = 0 TMP\_157 = 1 not(TMP\_157) = 0 TMP\_158 = 5 TMP\_159 = 0 not(TMP\_159) = 1 TMP\_160 = 0 not(TMP\_160) = 1 TMP\_161 = 0 TMP\_162 = 1 not(TMP\_162) = 0 TMP\_163 = 1 not(TMP\_163) = 0 TMP\_164 = 2 TMP\_165 = 0 not(TMP\_165) = 1 TMP\_166 = 0 not(TMP\_166) = 1 TMP\_167 = 1 not(TMP\_167) = 0 TMP\_168 = 1 not(TMP\_168) = 0 TMP\_169 = 1 not(TMP\_169) = 0 TMP\_170 = 2 TMP\_171 = 0 not(TMP\_171) = 1 TMP\_172 = 1 not(TMP\_172) = 0 TMP\_173 = 1 not(TMP\_173) = 0 TMP\_174 = 1 not(TMP\_174) = 0 TMP\_175 = 1 not(TMP\_175) = 0 TMP\_176 = 0 not(TMP\_176) = 1 TMP\_177 = 4 TMP\_178 = 0 not(TMP\_178) = 1 TMP\_179 = 0 not(TMP\_179) = 1 TMP\_180 = 0 TMP\_181 = 1 not(TMP\_181) = 0 TMP\_182 = 1 not(TMP\_182) = 0 TMP\_183 = 2 TMP\_184 = 0 not(TMP\_184) = 1 TMP\_185 = 0 not(TMP\_185) = 1 TMP\_186 = 1 not(TMP\_186) = 0 TMP\_187 = 1 not(TMP\_187) = 0 TMP\_188 = 1 not(TMP\_188) = 0 TMP\_189 = 2 TMP\_190 = 0 not(TMP\_190) = 1 TMP\_191 = 1 not(TMP\_191) = 0 TMP\_192 = 1 not(TMP\_192) = 0 TMP\_193 = 1 not(TMP\_193) = 0 TMP\_194 = 1 not(TMP\_194) = 0 TMP\_195 = 0 not(TMP\_195) = 1 TMP\_196 = 4 TMP\_197 = 0 not(TMP\_197) = 1 TMP\_198 = 0 not(TMP\_198) = 1 TMP\_199 = 0 TMP\_200 = 1 not(TMP\_200) = 0 TMP\_201 = 1 not(TMP\_201) = 0 TMP\_202 = 2 TMP\_203 = 0 not(TMP\_203) = 1 TMP\_204 = 0 not(TMP\_204) = 1 TMP\_205 = 1 not(TMP\_205) = 0 TMP\_206 = 1 not(TMP\_206) = 0 TMP\_207 = 1 not(TMP\_207) = 0 TMP\_208 = 2 TMP\_209 = 0 not(TMP\_209) = 1 TMP\_210 = 1 not(TMP\_210) = 0 TMP\_211 = 1 not(TMP\_211) = 0 TMP\_212 = 1 not(TMP\_212) = 0 TMP\_213 = 1 not(TMP\_213) = 0 TMP\_214 = 1 not(TMP\_214) = 0 TMP\_215 = 5 TMP\_216 = 0 not(TMP\_216) = 1 TMP\_217 = 0 not(TMP\_217) = 1 TMP\_218 = 0 TMP\_219 = 1 not(TMP\_219) = 0 TMP\_220 = 1 not(TMP\_220) = 0 TMP\_221 = 2 TMP\_222 = 0 not(TMP\_222) = 1 TMP\_223 = 0 not(TMP\_223) = 1 TMP\_224 = 1 not(TMP\_224) = 0 TMP\_225 = 1 not(TMP\_225) = 0 TMP\_226 = 1 not(TMP\_226) = 0 TMP\_227 = 2 TMP\_228 = 0 not(TMP\_228) = 1 TMP\_229 = 1 not(TMP\_229) = 0 TMP\_230 = 1 not(TMP\_230) = 0 TMP\_231 = 1 not(TMP\_231) = 0 TMP\_232 = 1 not(TMP\_232) = 0 TMP\_233 = 1 not(TMP\_233) = 0 TMP\_234 = 5 TMP\_235 = 0 not(TMP\_235) = 1 TMP\_236 = 0 not(TMP\_236) = 1 TMP\_237 = 0 TMP\_238 = 1 not(TMP\_238) = 0 TMP\_239 = 1 not(TMP\_239) = 0 TMP\_240 = 2 TMP\_241 = 0 not(TMP\_241) = 1 TMP\_242 = 0 not(TMP\_242) = 1 TMP\_243 = 1 not(TMP\_243) = 0 TMP\_244 = 1 not(TMP\_244) = 0 TMP\_245 = 1 not(TMP\_245) = 0 TMP\_246 = 2 TMP\_247 = 1 not(TMP\_247) = 0 TMP\_248 = 0 not(TMP\_248) = 1 TMP\_249 = 1 not(TMP\_249) = 0 TMP\_250 = 1 not(TMP\_250) = 0 TMP\_251 = 1 not(TMP\_251) = 0 TMP\_252 = 1 not(TMP\_252) = 0 TMP\_253 = 5 TMP\_254 = 0 not(TMP\_254) = 1 TMP\_255 = 0 not(TMP\_255) = 1 TMP\_256 = 0 TMP\_257 = 1 not(TMP\_257) = 0 TMP\_258 = 1 not(TMP\_258) = 0 TMP\_259 = 2 TMP\_260 = 0 not(TMP\_260) = 1 TMP\_261 = 0 not(TMP\_261) = 1 TMP\_262 = 1 not(TMP\_262) = 0 TMP\_263 = 1 not(TMP\_263) = 0 TMP\_264 = 1 not(TMP\_264) = 0 TMP\_265 = 2 TMP\_266 = 1 not(TMP\_266) = 0 TMP\_267 = 0 not(TMP\_267) = 1 TMP\_268 = 1 not(TMP\_268) = 0 TMP\_269 = 1 not(TMP\_269) = 0 TMP\_270 = 1 not(TMP\_270) = 0 TMP\_271 = 0 not(TMP\_271) = 1 TMP\_272 = 4 TMP\_273 = 0 not(TMP\_273) = 1 TMP\_274 = 0 not(TMP\_274) = 1 TMP\_275 = 0 TMP\_276 = 1 not(TMP\_276) = 0 TMP\_277 = 1 not(TMP\_277) = 0 TMP\_278 = 2 TMP\_279 = 0 not(TMP\_279) = 1 TMP\_280 = 0 not(TMP\_280) = 1 TMP\_281 = 1 not(TMP\_281) = 0 TMP\_282 = 1 not(TMP\_282) = 0 TMP\_283 = 1 not(TMP\_283) = 0 TMP\_284 = 2 TMP\_285 = 1 not(TMP\_285) = 0 TMP\_286 = 1 not(TMP\_286) = 0 TMP\_287 = 1 not(TMP\_287) = 0 TMP\_288 = 1 not(TMP\_288) = 0 TMP\_289 = 1 not(TMP\_289) = 0 TMP\_290 = 0 not(TMP\_290) = 1 TMP\_291 = 5 TMP\_292 = 0 not(TMP\_292) = 1 TMP\_293 = 0 not(TMP\_293) = 1 TMP\_294 = 0 TMP\_295 = 1 not(TMP\_295) = 0 TMP\_296 = 1 not(TMP\_296) = 0 TMP\_297 = 2 TMP\_298 = 0 not(TMP\_298) = 1 TMP\_299 = 0 not(TMP\_299) = 1 TMP\_300 = 1 not(TMP\_300) = 0 TMP\_301 = 1 not(TMP\_301) = 0 TMP\_302 = 1 not(TMP\_302) = 0 TMP\_303 = 2 TMP\_304 = 0 not(TMP\_304) = 1 TMP\_305 = 1 not(TMP\_305) = 0 TMP\_306 = 1 not(TMP\_306) = 0 TMP\_307 = 1 not(TMP\_307) = 0 TMP\_308 = 1 not(TMP\_308) = 0 TMP\_309 = 1 not(TMP\_309) = 0 TMP\_310 = 5 TMP\_311 = 0 not(TMP\_311) = 1 TMP\_312 = 0 not(TMP\_312) = 1 TMP\_313 = 0 TMP\_314 = 1 not(TMP\_314) = 0 TMP\_315 = 1 not(TMP\_315) = 0 TMP\_316 = 2 TMP\_317 = 0 not(TMP\_317) = 1 TMP\_318 = 0 not(TMP\_318) = 1 TMP\_319 = 1 not(TMP\_319) = 0 TMP\_320 = 1 not(TMP\_320) = 0 TMP\_321 = 1 not(TMP\_321) = 0 TMP\_322 = 2 TMP\_323 = 0 not(TMP\_323) = 1 TMP\_324 = 1 not(TMP\_324) = 0 TMP\_325 = 1 not(TMP\_325) = 0 TMP\_326 = 1 not(TMP\_326) = 0 TMP\_327 = 1 not(TMP\_327) = 0 TMP\_328 = 0 not(TMP\_328) = 1 TMP\_329 = 4 TMP\_330 = 0 not(TMP\_330) = 1 TMP\_331 = 0 not(TMP\_331) = 1 TMP\_332 = 0 TMP\_333 = 1 not(TMP\_333) = 0 TMP\_334 = 1 not(TMP\_334) = 0 TMP\_335 = 2 TMP\_336 = 0 not(TMP\_336) = 1 TMP\_337 = 0 not(TMP\_337) = 1 TMP\_338 = 1 not(TMP\_338) = 0 TMP\_339 = 1 not(TMP\_339) = 0 TMP\_340 = 1 not(TMP\_340) = 0 TMP\_341 = 2 TMP\_342 = 1 not(TMP\_342) = 0 TMP\_343 = 1 not(TMP\_343) = 0 TMP\_344 = 1 not(TMP\_344) = 0 TMP\_345 = 1 not(TMP\_345) = 0 TMP\_346 = 1 not(TMP\_346) = 0 TMP\_347 = 0 not(TMP\_347) = 1 TMP\_348 = 5 TMP\_349 = 0 not(TMP\_349) = 1 TMP\_350 = 0 not(TMP\_350) = 1 TMP\_351 = 0 TMP\_352 = 1 not(TMP\_352) = 0 TMP\_353 = 1 not(TMP\_353) = 0 TMP\_354 = 2 TMP\_355 = 0 not(TMP\_355) = 1 TMP\_356 = 0 not(TMP\_356) = 1 TMP\_357 = 1 not(TMP\_357) = 0 TMP\_358 = 1 not(TMP\_358) = 0 TMP\_359 = 1 not(TMP\_359) = 0 TMP\_360 = 2 TMP\_361 = 1 not(TMP\_361) = 0 TMP\_362 = 0 not(TMP\_362) = 1 TMP\_363 = 1 not(TMP\_363) = 0 TMP\_364 = 1 not(TMP\_364) = 0 TMP\_365 = 1 not(TMP\_365) = 0 TMP\_366 = 0 not(TMP\_366) = 1 TMP\_367 = 4 TMP\_368 = 0 not(TMP\_368) = 1 TMP\_369 = 0 not(TMP\_369) = 1 TMP\_370 = 0 TMP\_371 = 1 not(TMP\_371) = 0 TMP\_372 = 1 not(TMP\_372) = 0 TMP\_373 = 2 TMP\_374 = 0 not(TMP\_374) = 1 TMP\_375 = 0 not(TMP\_375) = 1 TMP\_376 = 1 not(TMP\_376) = 0 TMP\_377 = 1 not(TMP\_377) = 0 TMP\_378 = 1 not(TMP\_378) = 0 TMP\_379 = 2 TMP\_380 = 1 not(TMP\_380) = 0 TMP\_381 = 0 not(TMP\_381) = 1 TMP\_382 = 1 not(TMP\_382) = 0 TMP\_383 = 1 not(TMP\_383) = 0 TMP\_384 = 1 not(TMP\_384) = 0 TMP\_385 = 1 not(TMP\_385) = 0 TMP\_386 = 5 TMP\_387 = 0 not(TMP\_387) = 1 TMP\_388 = 0 not(TMP\_388) = 1 TMP\_389 = 0 TMP\_390 = 1 not(TMP\_390) = 0 TMP\_391 = 1 not(TMP\_391) = 0 TMP\_392 = 2 TMP\_393 = 0 not(TMP\_393) = 1 TMP\_394 = 0 not(TMP\_394) = 1 TMP\_395 = 1 not(TMP\_395) = 0 TMP\_396 = 1 not(TMP\_396) = 0 TMP\_397 = 1 not(TMP\_397) = 0 TMP\_398 = 2 TMP\_399 = 1 not(TMP\_399) = 0 TMP\_400 = 0 not(TMP\_400) = 1 TMP\_401 = 1 not(TMP\_401) = 0 TMP\_402 = 1 not(TMP\_402) = 0 TMP\_403 = 1 not(TMP\_403) = 0 TMP\_404 = 1 not(TMP\_404) = 0 TMP\_405 = 5 TMP\_406 = 0 not(TMP\_406) = 1 TMP\_407 = 0 not(TMP\_407) = 1 TMP\_408 = 0 TMP\_409 = 1 not(TMP\_409) = 0 TMP\_410 = 1 not(TMP\_410) = 0 TMP\_411 = 2 TMP\_412 = 0 not(TMP\_412) = 1 TMP\_413 = 0 not(TMP\_413) = 1 TMP\_414 = 1 not(TMP\_414) = 0 TMP\_415 = 1 not(TMP\_415) = 0 TMP\_416 = 1 not(TMP\_416) = 0 TMP\_417 = 2 TMP\_418 = 1 not(TMP\_418) = 0 TMP\_419 = 0 not(TMP\_419) = 1 TMP\_420 = 1 not(TMP\_420) = 0 TMP\_421 = 1 not(TMP\_421) = 0 TMP\_422 = 1 not(TMP\_422) = 0 TMP\_423 = 1 not(TMP\_423) = 0 TMP\_424 = 5 TMP\_425 = 0 not(TMP\_425) = 1 TMP\_426 = 0 not(TMP\_426) = 1 TMP\_427 = 0 TMP\_428 = 1 not(TMP\_428) = 0 TMP\_429 = 1 not(TMP\_429) = 0 TMP\_430 = 2 TMP\_431 = 0 not(TMP\_431) = 1 TMP\_432 = 0 not(TMP\_432) = 1 TMP\_433 = 1 not(TMP\_433) = 0 TMP\_434 = 1 not(TMP\_434) = 0 TMP\_435 = 1 not(TMP\_435) = 0 TMP\_436 = 2 TMP\_437 = 1 not(TMP\_437) = 0 TMP\_438 = 0 not(TMP\_438) = 1 TMP\_439 = 1 not(TMP\_439) = 0 TMP\_440 = 1 not(TMP\_440) = 0 TMP\_441 = 1 not(TMP\_441) = 0 TMP\_442 = 0 not(TMP\_442) = 1 TMP\_443 = 4 TMP\_444 = 0 not(TMP\_444) = 1 TMP\_445 = 0 not(TMP\_445) = 1 TMP\_446 = 0 TMP\_447 = 1 not(TMP\_447) = 0 TMP\_448 = 1 not(TMP\_448) = 0 TMP\_449 = 2 TMP\_450 = 0 not(TMP\_450) = 1 TMP\_451 = 0 not(TMP\_451) = 1 TMP\_452 = 1 not(TMP\_452) = 0 TMP\_453 = 1 not(TMP\_453) = 0 TMP\_454 = 1 not(TMP\_454) = 0 TMP\_455 = 2 TMP\_456 = 1 not(TMP\_456) = 0 TMP\_457 = 0 not(TMP\_457) = 1 TMP\_458 = 1 not(TMP\_458) = 0 TMP\_459 = 1 not(TMP\_459) = 0 TMP\_460 = 1 not(TMP\_460) = 0 TMP\_461 = 0 not(TMP\_461) = 1 TMP\_462 = 4 TMP\_463 = 0 not(TMP\_463) = 1 TMP\_464 = 0 not(TMP\_464) = 1 TMP\_465 = 0 TMP\_466 = 1 not(TMP\_466) = 0 TMP\_467 = 1 not(TMP\_467) = 0 TMP\_468 = 2 TMP\_469 = 0 not(TMP\_469) = 1 TMP\_470 = 0 not(TMP\_470) = 1 TMP\_471 = 1 not(TMP\_471) = 0 TMP\_472 = 1 not(TMP\_472) = 0 TMP\_473 = 1 not(TMP\_473) = 0 TMP\_474 = 2 TMP\_475 = 1 not(TMP\_475) = 0 TMP\_476 = 0 not(TMP\_476) = 1 TMP\_477 = 1 not(TMP\_477) = 0 TMP\_478 = 1 not(TMP\_478) = 0 TMP\_479 = 1 not(TMP\_479) = 0 TMP\_480 = 1 not(TMP\_480) = 0 TMP\_481 = 5 TMP\_482 = 0 not(TMP\_482) = 1 TMP\_483 = 0 not(TMP\_483) = 1 TMP\_484 = 0 TMP\_485 = 1 not(TMP\_485) = 0 TMP\_486 = 1 not(TMP\_486) = 0 TMP\_487 = 2 TMP\_488 = 0 not(TMP\_488) = 1 TMP\_489 = 0 not(TMP\_489) = 1 TMP\_490 = 1 not(TMP\_490) = 0 TMP\_491 = 1 not(TMP\_491) = 0 TMP\_492 = 1 not(TMP\_492) = 0 TMP\_493 = 2 TMP\_494 = 1 not(TMP\_494) = 0 TMP\_495 = 1 not(TMP\_495) = 0 TMP\_496 = 1 not(TMP\_496) = 0 TMP\_497 = 1 not(TMP\_497) = 0 TMP\_498 = 1 not(TMP\_498) = 0 TMP\_499 = 0 not(TMP\_499) = 1 TMP\_500 = 5 TMP\_501 = 0 not(TMP\_501) = 1 TMP\_502 = 0 not(TMP\_502) = 1 TMP\_503 = 0 TMP\_504 = 1 not(TMP\_504) = 0 TMP\_505 = 1 not(TMP\_505) = 0 TMP\_506 = 2 TMP\_507 = 0 not(TMP\_507) = 1 TMP\_508 = 0 not(TMP\_508) = 1 TMP\_509 = 1 not(TMP\_509) = 0 TMP\_510 = 1 not(TMP\_510) = 0 TMP\_511 = 1 not(TMP\_511) = 0 TMP\_512 = 2 TMP\_513 = 0 not(TMP\_513) = 1 TMP\_514 = 1 not(TMP\_514) = 0 TMP\_515 = 1 not(TMP\_515) = 0 TMP\_516 = 1 not(TMP\_516) = 0 TMP\_517 = 1 not(TMP\_517) = 0 TMP\_518 = 1 not(TMP\_518) = 0 TMP\_519 = 5 TMP\_520 = 0 not(TMP\_520) = 1 TMP\_521 = 0 not(TMP\_521) = 1 TMP\_522 = 0 TMP\_523 = 1 not(TMP\_523) = 0 TMP\_524 = 1 not(TMP\_524) = 0 TMP\_525 = 2 TMP\_526 = 0 not(TMP\_526) = 1 TMP\_527 = 0 not(TMP\_527) = 1 TMP\_528 = 1 not(TMP\_528) = 0 TMP\_529 = 1 not(TMP\_529) = 0 TMP\_530 = 1 not(TMP\_530) = 0 TMP\_531 = 2 TMP\_532 = 1 not(TMP\_532) = 0 TMP\_533 = 0 not(TMP\_533) = 1 TMP\_534 = 1 not(TMP\_534) = 0 TMP\_535 = 1 not(TMP\_535) = 0 TMP\_536 = 1 not(TMP\_536) = 0 TMP\_537 = 1 not(TMP\_537) = 0 TMP\_538 = 5 TMP\_539 = 0 not(TMP\_539) = 1 TMP\_540 = 0 not(TMP\_540) = 1 TMP\_541 = 0 TMP\_542 = 1 not(TMP\_542) = 0 TMP\_543 = 1 not(TMP\_543) = 0 TMP\_544 = 2 TMP\_545 = 0 not(TMP\_545) = 1 TMP\_546 = 0 not(TMP\_546) = 1 TMP\_547 = 1 not(TMP\_547) = 0 TMP\_548 = 1 not(TMP\_548) = 0 TMP\_549 = 1 not(TMP\_549) = 0 TMP\_550 = 2 TMP\_551 = 1 not(TMP\_551) = 0 TMP\_552 = 0 not(TMP\_552) = 1 TMP\_553 = 1 not(TMP\_553) = 0 TMP\_554 = 1 not(TMP\_554) = 0 TMP\_555 = 0 not(TMP\_555) = 1 TMP\_556 = 1 not(TMP\_556) = 0 TMP\_557 = 4 TMP\_558 = 0 not(TMP\_558) = 1 TMP\_559 = 0 not(TMP\_559) = 1 TMP\_560 = 0 TMP\_561 = 1 not(TMP\_561) = 0 TMP\_562 = 1 not(TMP\_562) = 0 TMP\_563 = 2 TMP\_564 = 0 not(TMP\_564) = 1 TMP\_565 = 0 not(TMP\_565) = 1 TMP\_566 = 1 not(TMP\_566) = 0 TMP\_567 = 1 not(TMP\_567) = 0 TMP\_568 = 1 not(TMP\_568) = 0 TMP\_569 = 2 TMP\_570 = 1 not(TMP\_570) = 0 TMP\_571 = 0 not(TMP\_571) = 1 TMP\_572 = 1 not(TMP\_572) = 0 TMP\_573 = 1 not(TMP\_573) = 0 TMP\_574 = 0 not(TMP\_574) = 1 TMP\_575 = 1 not(TMP\_575) = 0 TMP\_576 = 4 TMP\_577 = 0 not(TMP\_577) = 1 TMP\_578 = 0 not(TMP\_578) = 1 TMP\_579 = 0 TMP\_580 = 1 not(TMP\_580) = 0 TMP\_581 = 1 not(TMP\_581) = 0 TMP\_582 = 2 TMP\_583 = 0 not(TMP\_583) = 1 TMP\_584 = 0 not(TMP\_584) = 1 TMP\_585 = 1 not(TMP\_585) = 0 TMP\_586 = 1 not(TMP\_586) = 0 TMP\_587 = 1 not(TMP\_587) = 0 TMP\_588 = 2 TMP\_589 = 1 not(TMP\_589) = 0 TMP\_590 = 0 not(TMP\_590) = 1 TMP\_591 = 1 not(TMP\_591) = 0 TMP\_592 = 1 not(TMP\_592) = 0 TMP\_593 = 0 not(TMP\_593) = 1 TMP\_594 = 1 not(TMP\_594) = 0 TMP\_595 = 4 TMP\_596 = 0 not(TMP\_596) = 1 TMP\_597 = 0 not(TMP\_597) = 1 TMP\_598 = 0 TMP\_599 = 1 not(TMP\_599) = 0 TMP\_600 = 1 not(TMP\_600) = 0 TMP\_601 = 2 TMP\_602 = 0 not(TMP\_602) = 1 TMP\_603 = 0 not(TMP\_603) = 1 TMP\_604 = 1 not(TMP\_604) = 0 TMP\_605 = 1 not(TMP\_605) = 0 TMP\_606 = 1 not(TMP\_606) = 0 TMP\_607 = 2 TMP\_608 = 1 not(TMP\_608) = 0 TMP\_609 = 0 not(TMP\_609) = 1 TMP\_610 = 1 not(TMP\_610) = 0 TMP\_611 = 1 not(TMP\_611) = 0 TMP\_612 = 1 not(TMP\_612) = 0 TMP\_613 = 1 not(TMP\_613) = 0 TMP\_614 = 5 TMP\_615 = 0 not(TMP\_615) = 1 TMP\_616 = 0 not(TMP\_616) = 1 TMP\_617 = 0 TMP\_618 = 1 not(TMP\_618) = 0 TMP\_619 = 1 not(TMP\_619) = 0 TMP\_620 = 2 TMP\_621 = 0 not(TMP\_621) = 1 TMP\_622 = 0 not(TMP\_622) = 1 TMP\_623 = 1 not(TMP\_623) = 0 TMP\_624 = 1 not(TMP\_624) = 0 TMP\_625 = 1 not(TMP\_625) = 0 TMP\_626 = 2 TMP\_627 = 1 not(TMP\_627) = 0 TMP\_628 = 0 not(TMP\_628) = 1 TMP\_629 = 1 not(TMP\_629) = 0 TMP\_630 = 1 not(TMP\_630) = 0 TMP\_631 = 1 not(TMP\_631) = 0 TMP\_632 = 1 not(TMP\_632) = 0 TMP\_633 = 5 TMP\_634 = 0 not(TMP\_634) = 1 TMP\_635 = 0 not(TMP\_635) = 1 TMP\_636 = 0 TMP\_637 = 1 not(TMP\_637) = 0 TMP\_638 = 1 not(TMP\_638) = 0 TMP\_639 = 2 TMP\_640 = 0 not(TMP\_640) = 1 TMP\_641 = 0 not(TMP\_641) = 1 TMP\_642 = 1 not(TMP\_642) = 0 TMP\_643 = 1 not(TMP\_643) = 0 TMP\_644 = 1 not(TMP\_644) = 0 TMP\_645 = 2 TMP\_646 = 1 not(TMP\_646) = 0 TMP\_647 = 0 not(TMP\_647) = 1 TMP\_648 = 1 not(TMP\_648) = 0 TMP\_649 = 1 not(TMP\_649) = 0 TMP\_650 = 0 not(TMP\_650) = 1 TMP\_651 = 1 not(TMP\_651) = 0 TMP\_652 = 4 TMP\_653 = 0 not(TMP\_653) = 1 TMP\_654 = 0 not(TMP\_654) = 1 TMP\_655 = 0 TMP\_656 = 1 not(TMP\_656) = 0 TMP\_657 = 1 not(TMP\_657) = 0 TMP\_658 = 2 TMP\_659 = 0 not(TMP\_659) = 1 TMP\_660 = 0 not(TMP\_660) = 1 TMP\_661 = 1 not(TMP\_661) = 0 TMP\_662 = 1 not(TMP\_662) = 0 TMP\_663 = 1 not(TMP\_663) = 0 TMP\_664 = 2 TMP\_665 = 1 not(TMP\_665) = 0 TMP\_666 = 1 not(TMP\_666) = 0 TMP\_667 = 1 not(TMP\_667) = 0 TMP\_668 = 1 not(TMP\_668) = 0 TMP\_669 = 0 not(TMP\_669) = 1 TMP\_670 = 1 not(TMP\_670) = 0 TMP\_671 = 5 TMP\_672 = 0 not(TMP\_672) = 1 TMP\_673 = 0 not(TMP\_673) = 1 TMP\_674 = 0 TMP\_675 = 1 not(TMP\_675) = 0 TMP\_676 = 1 not(TMP\_676) = 0 TMP\_677 = 2 TMP\_678 = 0 not(TMP\_678) = 1 TMP\_679 = 0 not(TMP\_679) = 1 TMP\_680 = 1 not(TMP\_680) = 0 TMP\_681 = 1 not(TMP\_681) = 0 TMP\_682 = 1 not(TMP\_682) = 0 TMP\_683 = 2 Area\_0 = 60 Distance\_0\_Rule\_0 = 20 Distance\_1\_Rule\_0 = 3 Distance\_2\_Rule\_0 = 1 Area\_1 = 174 Distance\_0\_Rule\_1 = 58 Distance\_1\_Rule\_1 = 3 Distance\_2\_Rule\_1 = 1 Area\_2 = 116 Distance\_0\_Rule\_2 = 58 Distance\_1\_Rule\_2 = 2 Distance\_2\_Rule\_2 = 1 Area\_3 = 58 Distance\_0\_Rule\_3 = 58 Distance\_1\_Rule\_3 = 1 Distance\_2\_Rule\_3 = 1 Area\_4 = 120 Distance\_0\_Rule\_4 = 40 Distance\_1\_Rule\_4 = 3 Distance\_2\_Rule\_4 = 1 Area\_5 = 120 Distance\_0\_Rule\_5 = 40 Distance\_1\_Rule\_5 = 3 Distance\_2\_Rule\_5 = 1 Area\_6 = 3 -(Rule\_6\_LB) = -79 Distance\_0\_Rule\_6 = 1 -(Rule\_6\_LB) = 0 Distance\_1\_Rule\_6 = 3 -(Rule\_6\_LB) = -1 Distance\_2\_Rule\_6 = 1 Area\_7 = 3 -(Rule\_7\_LB) = -79 Distance\_0\_Rule\_7 = 1 -(Rule\_7\_LB) = 0 Distance\_1\_Rule\_7 = 3 -(Rule\_7\_LB) = 0 Distance\_2\_Rule\_7 = 1 Area\_8 = 63 -(Rule\_8\_LB) = 0 Distance\_0\_Rule\_8 = 21 -(Rule\_8\_LB) = 0 Distance\_1\_Rule\_8 = 3 -(Rule\_8\_LB) = 0 Distance\_2\_Rule\_8 = 1 Area\_9 = 3 -(Rule\_9\_LB) = -20 Distance\_0\_Rule\_9 = 1 -(Rule\_9\_LB) = 0 Distance\_1\_Rule\_9 = 3 -(Rule\_9\_LB) = -1 Distance\_2\_Rule\_9 = 1 TMP\_684 = 720 .

- Solution #4 found. 4 Solutions, Resolution 1.350s, 713 Nodes (528.2 n/s), 1331 Backtracks, 670 Fails, 0 Restarts

Rule\_6\_LB = 79 Rule\_6\_UB = 80 Rule\_6\_LB = 0 Rule\_6\_UB = 3 Rule\_6\_LB = 1 Rule\_6\_UB = 2 Rule\_7\_LB = 79 Rule\_7\_UB = 80 Rule\_7\_LB = 0 Rule\_7\_UB = 3 Rule\_7\_LB = 0 Rule\_7\_UB = 1 Rule\_8\_LB = 0 Rule\_8\_UB = 21 Rule\_8\_LB = 0 Rule\_8\_UB = 3 Rule\_8\_LB = 0 Rule\_8\_UB = 1 Rule\_9\_LB = 20 Rule\_9\_UB = 21 Rule\_9\_LB = 0 Rule\_9\_UB = 3 Rule\_9\_LB = 1 Rule\_9\_UB = 2 Overlaps\_0\_0 = 0 Overlaps\_0\_1 = 0 Overlaps\_0\_2 = 0 Overlaps\_0\_3 = 0 Overlaps\_0\_4 = 0 Overlaps\_0\_5 = 0 Overlaps\_0\_6 = 0 Overlaps\_0\_7 = 0 Overlaps\_0\_8 = 0 Overlaps\_0\_9 = 0 Overlaps\_1\_0 = 0 Overlaps\_1\_1 = 0 Overlaps\_1\_2 = 0 Overlaps\_1\_3 = 0 Overlaps\_1\_4 = 0 Overlaps\_1\_5 = 0 Overlaps\_1\_6 = 0 Overlaps\_1\_7 = 0 Overlaps\_1\_8 = 0 Overlaps\_1\_9 = 0 Overlaps\_2\_0 = 1 Overlaps\_2\_1 = 0 Overlaps\_2\_2 = 0 Overlaps\_2\_3 = 0 Overlaps\_2\_4 = 0 Overlaps\_2\_5 = 0 Overlaps\_2\_6 = 0 Overlaps\_2\_7 = 0 Overlaps\_2\_8 = 0 Overlaps\_2\_9 = 0 Overlaps\_3\_0 = 0 Overlaps\_3\_1 = 0 Overlaps\_3\_2 = 0 Overlaps\_3\_3 = 0 Overlaps\_3\_4 = 0 Overlaps\_3\_5 = 0 Overlaps\_3\_6 = 0 Overlaps\_3\_7 = 0 Overlaps\_3\_8 = 0 Overlaps\_3\_9 = 0 Overlaps\_4\_0 = 0 Overlaps\_4\_1 = 0 Overlaps\_4\_2 = 0 Overlaps\_4\_3 = 0 Overlaps\_4\_4 = 0 Overlaps\_4\_5 = 0 Overlaps\_4\_6 = 0 Overlaps\_4\_7 = 0 Overlaps\_4\_8 = 0 Overlaps\_4\_9 = 0 Overlaps\_5\_0 = 1 Overlaps\_5\_1 = 0 Overlaps\_5\_2 = 0 Overlaps\_5\_3 = 0 Overlaps\_5\_4 = 0 Overlaps\_5\_5 = 0 Overlaps\_5\_6 = 0 Overlaps\_5\_7 = 0 Overlaps\_5\_8 = 0 Overlaps\_5\_9 = 0 Overlaps\_6\_0 = 0 Overlaps\_6\_1 = 0 Overlaps\_6\_2 = 0 Overlaps\_6\_3 = 0 Overlaps\_6\_4 = 0 Overlaps\_6\_5 = 0 Overlaps\_6\_6 = 0 Overlaps\_6\_7 = 0 Overlaps\_6\_8 = 0 Overlaps\_6\_9 = 0 Overlaps\_7\_0 = 0 Overlaps\_7\_1 = 0 Overlaps\_7\_2 = 0 Overlaps\_7\_3 = 0 Overlaps\_7\_4 = 0 Overlaps\_7\_5 = 0 Overlaps\_7\_6 = 0 Overlaps\_7\_7 = 0 Overlaps\_7\_8 = 0 Overlaps\_7\_9 = 0 Overlaps\_8\_0 = 0 Overlaps\_8\_1 = 0 Overlaps\_8\_2 = 0 Overlaps\_8\_3 = 0 Overlaps\_8\_4 = 0 Overlaps\_8\_5 = 0 Overlaps\_8\_6 = 0 Overlaps\_8\_7 = 0 Overlaps\_8\_8 = 0 Overlaps\_8\_9 = 0 Overlaps\_9\_0 = 0 Overlaps\_9\_1 = 0 Overlaps\_9\_2 = 0 Overlaps\_9\_3 = 0 Overlaps\_9\_4 = 0 Overlaps\_9\_5 = 0 Overlaps\_9\_6 = 0 Overlaps\_9\_7 = 0 Overlaps\_9\_8 = 0 Overlaps\_9\_9 = 0 TMP\_0 = 0 not(TMP\_0) = 1 TMP\_1 = 1 not(TMP\_1) = 0 TMP\_2 = 1 not(TMP\_2) = 0 TMP\_3 = 1 not(TMP\_3) = 0 TMP\_4 = 1 not(TMP\_4) = 0 TMP\_5 = 1 not(TMP\_5) = 0 TMP\_6 = 5 TMP\_7 = 0 not(TMP\_7) = 1 TMP\_8 = 0 not(TMP\_8) = 1 TMP\_9 = 0 TMP\_10 = 1 not(TMP\_10) = 0 TMP\_11 = 1 not(TMP\_11) = 0 TMP\_12 = 2 TMP\_13 = 0 not(TMP\_13) = 1 TMP\_14 = 0 not(TMP\_14) = 1 TMP\_15 = 1 not(TMP\_15) = 0 TMP\_16 = 1 not(TMP\_16) = 0 TMP\_17 = 1 not(TMP\_17) = 0 TMP\_18 = 2 TMP\_19 = 0 not(TMP\_19) = 1 TMP\_20 = 1 not(TMP\_20) = 0 TMP\_21 = 1 not(TMP\_21) = 0 TMP\_22 = 1 not(TMP\_22) = 0 TMP\_23 = 1 not(TMP\_23) = 0 TMP\_24 = 1 not(TMP\_24) = 0 TMP\_25 = 5 TMP\_26 = 0 not(TMP\_26) = 1 TMP\_27 = 0 not(TMP\_27) = 1 TMP\_28 = 0 TMP\_29 = 1 not(TMP\_29) = 0 TMP\_30 = 1 not(TMP\_30) = 0 TMP\_31 = 2 TMP\_32 = 0 not(TMP\_32) = 1 TMP\_33 = 0 not(TMP\_33) = 1 TMP\_34 = 1 not(TMP\_34) = 0 TMP\_35 = 1 not(TMP\_35) = 0 TMP\_36 = 1 not(TMP\_36) = 0 TMP\_37 = 2 TMP\_38 = 0 not(TMP\_38) = 1 TMP\_39 = 1 not(TMP\_39) = 0 TMP\_40 = 1 not(TMP\_40) = 0 TMP\_41 = 1 not(TMP\_41) = 0 TMP\_42 = 0 not(TMP\_42) = 1 TMP\_43 = 1 not(TMP\_43) = 0 TMP\_44 = 4 TMP\_45 = 0 not(TMP\_45) = 1 TMP\_46 = 0 not(TMP\_46) = 1 TMP\_47 = 0 TMP\_48 = 1 not(TMP\_48) = 0 TMP\_49 = 1 not(TMP\_49) = 0 TMP\_50 = 2 TMP\_51 = 0 not(TMP\_51) = 1 TMP\_52 = 0 not(TMP\_52) = 1 TMP\_53 = 1 not(TMP\_53) = 0 TMP\_54 = 1 not(TMP\_54) = 0 TMP\_55 = 1 not(TMP\_55) = 0 TMP\_56 = 2 TMP\_57 = 0 not(TMP\_57) = 1 TMP\_58 = 1 not(TMP\_58) = 0 TMP\_59 = 1 not(TMP\_59) = 0 TMP\_60 = 1 not(TMP\_60) = 0 TMP\_61 = 0 not(TMP\_61) = 1 TMP\_62 = 1 not(TMP\_62) = 0 TMP\_63 = 4 TMP\_64 = 0 not(TMP\_64) = 1 TMP\_65 = 0 not(TMP\_65) = 1 TMP\_66 = 0 TMP\_67 = 1 not(TMP\_67) = 0 TMP\_68 = 1 not(TMP\_68) = 0 TMP\_69 = 2 TMP\_70 = 0 not(TMP\_70) = 1 TMP\_71 = 0 not(TMP\_71) = 1 TMP\_72 = 1 not(TMP\_72) = 0 TMP\_73 = 1 not(TMP\_73) = 0 TMP\_74 = 1 not(TMP\_74) = 0 TMP\_75 = 2 TMP\_76 = 1 not(TMP\_76) = 0 TMP\_77 = 0 not(TMP\_77) = 1 TMP\_78 = 1 not(TMP\_78) = 0 TMP\_79 = 1 not(TMP\_79) = 0 TMP\_80 = 0 not(TMP\_80) = 1 TMP\_81 = 1 not(TMP\_81) = 0 TMP\_82 = 4 TMP\_83 = 0 not(TMP\_83) = 1 TMP\_84 = 0 not(TMP\_84) = 1 TMP\_85 = 0 TMP\_86 = 1 not(TMP\_86) = 0 TMP\_87 = 1 not(TMP\_87) = 0 TMP\_88 = 2 TMP\_89 = 0 not(TMP\_89) = 1 TMP\_90 = 0 not(TMP\_90) = 1 TMP\_91 = 1 not(TMP\_91) = 0 TMP\_92 = 1 not(TMP\_92) = 0 TMP\_93 = 1 not(TMP\_93) = 0 TMP\_94 = 2 TMP\_95 = 1 not(TMP\_95) = 0 TMP\_96 = 0 not(TMP\_96) = 1 TMP\_97 = 1 not(TMP\_97) = 0 TMP\_98 = 1 not(TMP\_98) = 0 TMP\_99 = 1 not(TMP\_99) = 0 TMP\_100 = 1 not(TMP\_100) = 0 TMP\_101 = 5 TMP\_102 = 0 not(TMP\_102) = 1 TMP\_103 = 0 not(TMP\_103) = 1 TMP\_104 = 0 TMP\_105 = 1 not(TMP\_105) = 0 TMP\_106 = 1 not(TMP\_106) = 0 TMP\_107 = 2 TMP\_108 = 0 not(TMP\_108) = 1 TMP\_109 = 0 not(TMP\_109) = 1 TMP\_110 = 1 not(TMP\_110) = 0 TMP\_111 = 1 not(TMP\_111) = 0 TMP\_112 = 1 not(TMP\_112) = 0 TMP\_113 = 2 TMP\_114 = 1 not(TMP\_114) = 0 TMP\_115 = 1 not(TMP\_115) = 0 TMP\_116 = 1 not(TMP\_116) = 0 TMP\_117 = 1 not(TMP\_117) = 0 TMP\_118 = 0 not(TMP\_118) = 1 TMP\_119 = 1 not(TMP\_119) = 0 TMP\_120 = 5 TMP\_121 = 0 not(TMP\_121) = 1 TMP\_122 = 0 not(TMP\_122) = 1 TMP\_123 = 0 TMP\_124 = 1 not(TMP\_124) = 0 TMP\_125 = 1 not(TMP\_125) = 0 TMP\_126 = 2 TMP\_127 = 0 not(TMP\_127) = 1 TMP\_128 = 0 not(TMP\_128) = 1 TMP\_129 = 1 not(TMP\_129) = 0 TMP\_130 = 1 not(TMP\_130) = 0 TMP\_131 = 1 not(TMP\_131) = 0 TMP\_132 = 2 TMP\_133 = 0 not(TMP\_133) = 1 TMP\_134 = 1 not(TMP\_134) = 0 TMP\_135 = 1 not(TMP\_135) = 0 TMP\_136 = 1 not(TMP\_136) = 0 TMP\_137 = 0 not(TMP\_137) = 1 TMP\_138 = 1 not(TMP\_138) = 0 TMP\_139 = 4 TMP\_140 = 0 not(TMP\_140) = 1 TMP\_141 = 0 not(TMP\_141) = 1 TMP\_142 = 0 TMP\_143 = 1 not(TMP\_143) = 0 TMP\_144 = 1 not(TMP\_144) = 0 TMP\_145 = 2 TMP\_146 = 0 not(TMP\_146) = 1 TMP\_147 = 0 not(TMP\_147) = 1 TMP\_148 = 1 not(TMP\_148) = 0 TMP\_149 = 1 not(TMP\_149) = 0 TMP\_150 = 1 not(TMP\_150) = 0 TMP\_151 = 2 TMP\_152 = 0 not(TMP\_152) = 1 TMP\_153 = 1 not(TMP\_153) = 0 TMP\_154 = 1 not(TMP\_154) = 0 TMP\_155 = 1 not(TMP\_155) = 0 TMP\_156 = 1 not(TMP\_156) = 0 TMP\_157 = 1 not(TMP\_157) = 0 TMP\_158 = 5 TMP\_159 = 0 not(TMP\_159) = 1 TMP\_160 = 0 not(TMP\_160) = 1 TMP\_161 = 0 TMP\_162 = 1 not(TMP\_162) = 0 TMP\_163 = 1 not(TMP\_163) = 0 TMP\_164 = 2 TMP\_165 = 0 not(TMP\_165) = 1 TMP\_166 = 0 not(TMP\_166) = 1 TMP\_167 = 1 not(TMP\_167) = 0 TMP\_168 = 1 not(TMP\_168) = 0 TMP\_169 = 1 not(TMP\_169) = 0 TMP\_170 = 2 TMP\_171 = 0 not(TMP\_171) = 1 TMP\_172 = 1 not(TMP\_172) = 0 TMP\_173 = 1 not(TMP\_173) = 0 TMP\_174 = 1 not(TMP\_174) = 0 TMP\_175 = 1 not(TMP\_175) = 0 TMP\_176 = 0 not(TMP\_176) = 1 TMP\_177 = 4 TMP\_178 = 0 not(TMP\_178) = 1 TMP\_179 = 0 not(TMP\_179) = 1 TMP\_180 = 0 TMP\_181 = 1 not(TMP\_181) = 0 TMP\_182 = 1 not(TMP\_182) = 0 TMP\_183 = 2 TMP\_184 = 0 not(TMP\_184) = 1 TMP\_185 = 0 not(TMP\_185) = 1 TMP\_186 = 1 not(TMP\_186) = 0 TMP\_187 = 1 not(TMP\_187) = 0 TMP\_188 = 1 not(TMP\_188) = 0 TMP\_189 = 2 TMP\_190 = 0 not(TMP\_190) = 1 TMP\_191 = 1 not(TMP\_191) = 0 TMP\_192 = 1 not(TMP\_192) = 0 TMP\_193 = 1 not(TMP\_193) = 0 TMP\_194 = 1 not(TMP\_194) = 0 TMP\_195 = 0 not(TMP\_195) = 1 TMP\_196 = 4 TMP\_197 = 0 not(TMP\_197) = 1 TMP\_198 = 0 not(TMP\_198) = 1 TMP\_199 = 0 TMP\_200 = 1 not(TMP\_200) = 0 TMP\_201 = 1 not(TMP\_201) = 0 TMP\_202 = 2 TMP\_203 = 0 not(TMP\_203) = 1 TMP\_204 = 0 not(TMP\_204) = 1 TMP\_205 = 1 not(TMP\_205) = 0 TMP\_206 = 1 not(TMP\_206) = 0 TMP\_207 = 1 not(TMP\_207) = 0 TMP\_208 = 2 TMP\_209 = 0 not(TMP\_209) = 1 TMP\_210 = 1 not(TMP\_210) = 0 TMP\_211 = 1 not(TMP\_211) = 0 TMP\_212 = 1 not(TMP\_212) = 0 TMP\_213 = 1 not(TMP\_213) = 0 TMP\_214 = 1 not(TMP\_214) = 0 TMP\_215 = 5 TMP\_216 = 0 not(TMP\_216) = 1 TMP\_217 = 0 not(TMP\_217) = 1 TMP\_218 = 0 TMP\_219 = 1 not(TMP\_219) = 0 TMP\_220 = 1 not(TMP\_220) = 0 TMP\_221 = 2 TMP\_222 = 0 not(TMP\_222) = 1 TMP\_223 = 0 not(TMP\_223) = 1 TMP\_224 = 1 not(TMP\_224) = 0 TMP\_225 = 1 not(TMP\_225) = 0 TMP\_226 = 1 not(TMP\_226) = 0 TMP\_227 = 2 TMP\_228 = 0 not(TMP\_228) = 1 TMP\_229 = 1 not(TMP\_229) = 0 TMP\_230 = 1 not(TMP\_230) = 0 TMP\_231 = 1 not(TMP\_231) = 0 TMP\_232 = 1 not(TMP\_232) = 0 TMP\_233 = 1 not(TMP\_233) = 0 TMP\_234 = 5 TMP\_235 = 0 not(TMP\_235) = 1 TMP\_236 = 0 not(TMP\_236) = 1 TMP\_237 = 0 TMP\_238 = 1 not(TMP\_238) = 0 TMP\_239 = 1 not(TMP\_239) = 0 TMP\_240 = 2 TMP\_241 = 0 not(TMP\_241) = 1 TMP\_242 = 0 not(TMP\_242) = 1 TMP\_243 = 1 not(TMP\_243) = 0 TMP\_244 = 1 not(TMP\_244) = 0 TMP\_245 = 1 not(TMP\_245) = 0 TMP\_246 = 2 TMP\_247 = 1 not(TMP\_247) = 0 TMP\_248 = 0 not(TMP\_248) = 1 TMP\_249 = 1 not(TMP\_249) = 0 TMP\_250 = 1 not(TMP\_250) = 0 TMP\_251 = 1 not(TMP\_251) = 0 TMP\_252 = 1 not(TMP\_252) = 0 TMP\_253 = 5 TMP\_254 = 0 not(TMP\_254) = 1 TMP\_255 = 0 not(TMP\_255) = 1 TMP\_256 = 0 TMP\_257 = 1 not(TMP\_257) = 0 TMP\_258 = 1 not(TMP\_258) = 0 TMP\_259 = 2 TMP\_260 = 0 not(TMP\_260) = 1 TMP\_261 = 0 not(TMP\_261) = 1 TMP\_262 = 1 not(TMP\_262) = 0 TMP\_263 = 1 not(TMP\_263) = 0 TMP\_264 = 1 not(TMP\_264) = 0 TMP\_265 = 2 TMP\_266 = 1 not(TMP\_266) = 0 TMP\_267 = 0 not(TMP\_267) = 1 TMP\_268 = 1 not(TMP\_268) = 0 TMP\_269 = 1 not(TMP\_269) = 0 TMP\_270 = 1 not(TMP\_270) = 0 TMP\_271 = 0 not(TMP\_271) = 1 TMP\_272 = 4 TMP\_273 = 0 not(TMP\_273) = 1 TMP\_274 = 0 not(TMP\_274) = 1 TMP\_275 = 0 TMP\_276 = 1 not(TMP\_276) = 0 TMP\_277 = 1 not(TMP\_277) = 0 TMP\_278 = 2 TMP\_279 = 0 not(TMP\_279) = 1 TMP\_280 = 0 not(TMP\_280) = 1 TMP\_281 = 1 not(TMP\_281) = 0 TMP\_282 = 1 not(TMP\_282) = 0 TMP\_283 = 1 not(TMP\_283) = 0 TMP\_284 = 2 TMP\_285 = 1 not(TMP\_285) = 0 TMP\_286 = 1 not(TMP\_286) = 0 TMP\_287 = 1 not(TMP\_287) = 0 TMP\_288 = 1 not(TMP\_288) = 0 TMP\_289 = 1 not(TMP\_289) = 0 TMP\_290 = 0 not(TMP\_290) = 1 TMP\_291 = 5 TMP\_292 = 0 not(TMP\_292) = 1 TMP\_293 = 0 not(TMP\_293) = 1 TMP\_294 = 0 TMP\_295 = 1 not(TMP\_295) = 0 TMP\_296 = 1 not(TMP\_296) = 0 TMP\_297 = 2 TMP\_298 = 0 not(TMP\_298) = 1 TMP\_299 = 0 not(TMP\_299) = 1 TMP\_300 = 1 not(TMP\_300) = 0 TMP\_301 = 1 not(TMP\_301) = 0 TMP\_302 = 1 not(TMP\_302) = 0 TMP\_303 = 2 TMP\_304 = 0 not(TMP\_304) = 1 TMP\_305 = 1 not(TMP\_305) = 0 TMP\_306 = 1 not(TMP\_306) = 0 TMP\_307 = 1 not(TMP\_307) = 0 TMP\_308 = 1 not(TMP\_308) = 0 TMP\_309 = 1 not(TMP\_309) = 0 TMP\_310 = 5 TMP\_311 = 0 not(TMP\_311) = 1 TMP\_312 = 0 not(TMP\_312) = 1 TMP\_313 = 0 TMP\_314 = 1 not(TMP\_314) = 0 TMP\_315 = 1 not(TMP\_315) = 0 TMP\_316 = 2 TMP\_317 = 0 not(TMP\_317) = 1 TMP\_318 = 0 not(TMP\_318) = 1 TMP\_319 = 1 not(TMP\_319) = 0 TMP\_320 = 1 not(TMP\_320) = 0 TMP\_321 = 1 not(TMP\_321) = 0 TMP\_322 = 2 TMP\_323 = 0 not(TMP\_323) = 1 TMP\_324 = 1 not(TMP\_324) = 0 TMP\_325 = 1 not(TMP\_325) = 0 TMP\_326 = 1 not(TMP\_326) = 0 TMP\_327 = 1 not(TMP\_327) = 0 TMP\_328 = 0 not(TMP\_328) = 1 TMP\_329 = 4 TMP\_330 = 0 not(TMP\_330) = 1 TMP\_331 = 0 not(TMP\_331) = 1 TMP\_332 = 0 TMP\_333 = 1 not(TMP\_333) = 0 TMP\_334 = 1 not(TMP\_334) = 0 TMP\_335 = 2 TMP\_336 = 0 not(TMP\_336) = 1 TMP\_337 = 0 not(TMP\_337) = 1 TMP\_338 = 1 not(TMP\_338) = 0 TMP\_339 = 1 not(TMP\_339) = 0 TMP\_340 = 1 not(TMP\_340) = 0 TMP\_341 = 2 TMP\_342 = 1 not(TMP\_342) = 0 TMP\_343 = 1 not(TMP\_343) = 0 TMP\_344 = 1 not(TMP\_344) = 0 TMP\_345 = 1 not(TMP\_345) = 0 TMP\_346 = 1 not(TMP\_346) = 0 TMP\_347 = 0 not(TMP\_347) = 1 TMP\_348 = 5 TMP\_349 = 0 not(TMP\_349) = 1 TMP\_350 = 0 not(TMP\_350) = 1 TMP\_351 = 0 TMP\_352 = 1 not(TMP\_352) = 0 TMP\_353 = 1 not(TMP\_353) = 0 TMP\_354 = 2 TMP\_355 = 0 not(TMP\_355) = 1 TMP\_356 = 0 not(TMP\_356) = 1 TMP\_357 = 1 not(TMP\_357) = 0 TMP\_358 = 1 not(TMP\_358) = 0 TMP\_359 = 1 not(TMP\_359) = 0 TMP\_360 = 2 TMP\_361 = 1 not(TMP\_361) = 0 TMP\_362 = 0 not(TMP\_362) = 1 TMP\_363 = 1 not(TMP\_363) = 0 TMP\_364 = 1 not(TMP\_364) = 0 TMP\_365 = 1 not(TMP\_365) = 0 TMP\_366 = 0 not(TMP\_366) = 1 TMP\_367 = 4 TMP\_368 = 0 not(TMP\_368) = 1 TMP\_369 = 0 not(TMP\_369) = 1 TMP\_370 = 0 TMP\_371 = 1 not(TMP\_371) = 0 TMP\_372 = 1 not(TMP\_372) = 0 TMP\_373 = 2 TMP\_374 = 0 not(TMP\_374) = 1 TMP\_375 = 0 not(TMP\_375) = 1 TMP\_376 = 1 not(TMP\_376) = 0 TMP\_377 = 1 not(TMP\_377) = 0 TMP\_378 = 1 not(TMP\_378) = 0 TMP\_379 = 2 TMP\_380 = 1 not(TMP\_380) = 0 TMP\_381 = 0 not(TMP\_381) = 1 TMP\_382 = 1 not(TMP\_382) = 0 TMP\_383 = 1 not(TMP\_383) = 0 TMP\_384 = 1 not(TMP\_384) = 0 TMP\_385 = 1 not(TMP\_385) = 0 TMP\_386 = 5 TMP\_387 = 0 not(TMP\_387) = 1 TMP\_388 = 0 not(TMP\_388) = 1 TMP\_389 = 0 TMP\_390 = 1 not(TMP\_390) = 0 TMP\_391 = 1 not(TMP\_391) = 0 TMP\_392 = 2 TMP\_393 = 0 not(TMP\_393) = 1 TMP\_394 = 0 not(TMP\_394) = 1 TMP\_395 = 1 not(TMP\_395) = 0 TMP\_396 = 1 not(TMP\_396) = 0 TMP\_397 = 1 not(TMP\_397) = 0 TMP\_398 = 2 TMP\_399 = 1 not(TMP\_399) = 0 TMP\_400 = 0 not(TMP\_400) = 1 TMP\_401 = 1 not(TMP\_401) = 0 TMP\_402 = 1 not(TMP\_402) = 0 TMP\_403 = 1 not(TMP\_403) = 0 TMP\_404 = 1 not(TMP\_404) = 0 TMP\_405 = 5 TMP\_406 = 0 not(TMP\_406) = 1 TMP\_407 = 0 not(TMP\_407) = 1 TMP\_408 = 0 TMP\_409 = 1 not(TMP\_409) = 0 TMP\_410 = 1 not(TMP\_410) = 0 TMP\_411 = 2 TMP\_412 = 0 not(TMP\_412) = 1 TMP\_413 = 0 not(TMP\_413) = 1 TMP\_414 = 1 not(TMP\_414) = 0 TMP\_415 = 1 not(TMP\_415) = 0 TMP\_416 = 1 not(TMP\_416) = 0 TMP\_417 = 2 TMP\_418 = 1 not(TMP\_418) = 0 TMP\_419 = 0 not(TMP\_419) = 1 TMP\_420 = 1 not(TMP\_420) = 0 TMP\_421 = 1 not(TMP\_421) = 0 TMP\_422 = 1 not(TMP\_422) = 0 TMP\_423 = 1 not(TMP\_423) = 0 TMP\_424 = 5 TMP\_425 = 0 not(TMP\_425) = 1 TMP\_426 = 0 not(TMP\_426) = 1 TMP\_427 = 0 TMP\_428 = 1 not(TMP\_428) = 0 TMP\_429 = 1 not(TMP\_429) = 0 TMP\_430 = 2 TMP\_431 = 0 not(TMP\_431) = 1 TMP\_432 = 0 not(TMP\_432) = 1 TMP\_433 = 1 not(TMP\_433) = 0 TMP\_434 = 1 not(TMP\_434) = 0 TMP\_435 = 1 not(TMP\_435) = 0 TMP\_436 = 2 TMP\_437 = 1 not(TMP\_437) = 0 TMP\_438 = 0 not(TMP\_438) = 1 TMP\_439 = 1 not(TMP\_439) = 0 TMP\_440 = 1 not(TMP\_440) = 0 TMP\_441 = 1 not(TMP\_441) = 0 TMP\_442 = 0 not(TMP\_442) = 1 TMP\_443 = 4 TMP\_444 = 0 not(TMP\_444) = 1 TMP\_445 = 0 not(TMP\_445) = 1 TMP\_446 = 0 TMP\_447 = 1 not(TMP\_447) = 0 TMP\_448 = 1 not(TMP\_448) = 0 TMP\_449 = 2 TMP\_450 = 0 not(TMP\_450) = 1 TMP\_451 = 0 not(TMP\_451) = 1 TMP\_452 = 1 not(TMP\_452) = 0 TMP\_453 = 1 not(TMP\_453) = 0 TMP\_454 = 1 not(TMP\_454) = 0 TMP\_455 = 2 TMP\_456 = 1 not(TMP\_456) = 0 TMP\_457 = 0 not(TMP\_457) = 1 TMP\_458 = 1 not(TMP\_458) = 0 TMP\_459 = 1 not(TMP\_459) = 0 TMP\_460 = 1 not(TMP\_460) = 0 TMP\_461 = 0 not(TMP\_461) = 1 TMP\_462 = 4 TMP\_463 = 0 not(TMP\_463) = 1 TMP\_464 = 0 not(TMP\_464) = 1 TMP\_465 = 0 TMP\_466 = 1 not(TMP\_466) = 0 TMP\_467 = 1 not(TMP\_467) = 0 TMP\_468 = 2 TMP\_469 = 0 not(TMP\_469) = 1 TMP\_470 = 0 not(TMP\_470) = 1 TMP\_471 = 1 not(TMP\_471) = 0 TMP\_472 = 1 not(TMP\_472) = 0 TMP\_473 = 1 not(TMP\_473) = 0 TMP\_474 = 2 TMP\_475 = 1 not(TMP\_475) = 0 TMP\_476 = 0 not(TMP\_476) = 1 TMP\_477 = 1 not(TMP\_477) = 0 TMP\_478 = 1 not(TMP\_478) = 0 TMP\_479 = 1 not(TMP\_479) = 0 TMP\_480 = 1 not(TMP\_480) = 0 TMP\_481 = 5 TMP\_482 = 0 not(TMP\_482) = 1 TMP\_483 = 0 not(TMP\_483) = 1 TMP\_484 = 0 TMP\_485 = 1 not(TMP\_485) = 0 TMP\_486 = 1 not(TMP\_486) = 0 TMP\_487 = 2 TMP\_488 = 0 not(TMP\_488) = 1 TMP\_489 = 0 not(TMP\_489) = 1 TMP\_490 = 1 not(TMP\_490) = 0 TMP\_491 = 1 not(TMP\_491) = 0 TMP\_492 = 1 not(TMP\_492) = 0 TMP\_493 = 2 TMP\_494 = 1 not(TMP\_494) = 0 TMP\_495 = 1 not(TMP\_495) = 0 TMP\_496 = 1 not(TMP\_496) = 0 TMP\_497 = 1 not(TMP\_497) = 0 TMP\_498 = 1 not(TMP\_498) = 0 TMP\_499 = 0 not(TMP\_499) = 1 TMP\_500 = 5 TMP\_501 = 0 not(TMP\_501) = 1 TMP\_502 = 0 not(TMP\_502) = 1 TMP\_503 = 0 TMP\_504 = 1 not(TMP\_504) = 0 TMP\_505 = 1 not(TMP\_505) = 0 TMP\_506 = 2 TMP\_507 = 0 not(TMP\_507) = 1 TMP\_508 = 0 not(TMP\_508) = 1 TMP\_509 = 1 not(TMP\_509) = 0 TMP\_510 = 1 not(TMP\_510) = 0 TMP\_511 = 1 not(TMP\_511) = 0 TMP\_512 = 2 TMP\_513 = 0 not(TMP\_513) = 1 TMP\_514 = 1 not(TMP\_514) = 0 TMP\_515 = 1 not(TMP\_515) = 0 TMP\_516 = 1 not(TMP\_516) = 0 TMP\_517 = 1 not(TMP\_517) = 0 TMP\_518 = 1 not(TMP\_518) = 0 TMP\_519 = 5 TMP\_520 = 0 not(TMP\_520) = 1 TMP\_521 = 0 not(TMP\_521) = 1 TMP\_522 = 0 TMP\_523 = 1 not(TMP\_523) = 0 TMP\_524 = 1 not(TMP\_524) = 0 TMP\_525 = 2 TMP\_526 = 0 not(TMP\_526) = 1 TMP\_527 = 0 not(TMP\_527) = 1 TMP\_528 = 1 not(TMP\_528) = 0 TMP\_529 = 1 not(TMP\_529) = 0 TMP\_530 = 1 not(TMP\_530) = 0 TMP\_531 = 2 TMP\_532 = 1 not(TMP\_532) = 0 TMP\_533 = 0 not(TMP\_533) = 1 TMP\_534 = 1 not(TMP\_534) = 0 TMP\_535 = 1 not(TMP\_535) = 0 TMP\_536 = 1 not(TMP\_536) = 0 TMP\_537 = 1 not(TMP\_537) = 0 TMP\_538 = 5 TMP\_539 = 0 not(TMP\_539) = 1 TMP\_540 = 0 not(TMP\_540) = 1 TMP\_541 = 0 TMP\_542 = 1 not(TMP\_542) = 0 TMP\_543 = 1 not(TMP\_543) = 0 TMP\_544 = 2 TMP\_545 = 0 not(TMP\_545) = 1 TMP\_546 = 0 not(TMP\_546) = 1 TMP\_547 = 1 not(TMP\_547) = 0 TMP\_548 = 1 not(TMP\_548) = 0 TMP\_549 = 1 not(TMP\_549) = 0 TMP\_550 = 2 TMP\_551 = 1 not(TMP\_551) = 0 TMP\_552 = 0 not(TMP\_552) = 1 TMP\_553 = 1 not(TMP\_553) = 0 TMP\_554 = 1 not(TMP\_554) = 0 TMP\_555 = 0 not(TMP\_555) = 1 TMP\_556 = 1 not(TMP\_556) = 0 TMP\_557 = 4 TMP\_558 = 0 not(TMP\_558) = 1 TMP\_559 = 0 not(TMP\_559) = 1 TMP\_560 = 0 TMP\_561 = 1 not(TMP\_561) = 0 TMP\_562 = 1 not(TMP\_562) = 0 TMP\_563 = 2 TMP\_564 = 0 not(TMP\_564) = 1 TMP\_565 = 0 not(TMP\_565) = 1 TMP\_566 = 1 not(TMP\_566) = 0 TMP\_567 = 1 not(TMP\_567) = 0 TMP\_568 = 1 not(TMP\_568) = 0 TMP\_569 = 2 TMP\_570 = 1 not(TMP\_570) = 0 TMP\_571 = 0 not(TMP\_571) = 1 TMP\_572 = 1 not(TMP\_572) = 0 TMP\_573 = 1 not(TMP\_573) = 0 TMP\_574 = 0 not(TMP\_574) = 1 TMP\_575 = 1 not(TMP\_575) = 0 TMP\_576 = 4 TMP\_577 = 0 not(TMP\_577) = 1 TMP\_578 = 0 not(TMP\_578) = 1 TMP\_579 = 0 TMP\_580 = 1 not(TMP\_580) = 0 TMP\_581 = 1 not(TMP\_581) = 0 TMP\_582 = 2 TMP\_583 = 0 not(TMP\_583) = 1 TMP\_584 = 0 not(TMP\_584) = 1 TMP\_585 = 1 not(TMP\_585) = 0 TMP\_586 = 1 not(TMP\_586) = 0 TMP\_587 = 1 not(TMP\_587) = 0 TMP\_588 = 2 TMP\_589 = 1 not(TMP\_589) = 0 TMP\_590 = 0 not(TMP\_590) = 1 TMP\_591 = 1 not(TMP\_591) = 0 TMP\_592 = 1 not(TMP\_592) = 0 TMP\_593 = 0 not(TMP\_593) = 1 TMP\_594 = 1 not(TMP\_594) = 0 TMP\_595 = 4 TMP\_596 = 0 not(TMP\_596) = 1 TMP\_597 = 0 not(TMP\_597) = 1 TMP\_598 = 0 TMP\_599 = 1 not(TMP\_599) = 0 TMP\_600 = 1 not(TMP\_600) = 0 TMP\_601 = 2 TMP\_602 = 0 not(TMP\_602) = 1 TMP\_603 = 0 not(TMP\_603) = 1 TMP\_604 = 1 not(TMP\_604) = 0 TMP\_605 = 1 not(TMP\_605) = 0 TMP\_606 = 1 not(TMP\_606) = 0 TMP\_607 = 2 TMP\_608 = 1 not(TMP\_608) = 0 TMP\_609 = 0 not(TMP\_609) = 1 TMP\_610 = 1 not(TMP\_610) = 0 TMP\_611 = 1 not(TMP\_611) = 0 TMP\_612 = 1 not(TMP\_612) = 0 TMP\_613 = 1 not(TMP\_613) = 0 TMP\_614 = 5 TMP\_615 = 0 not(TMP\_615) = 1 TMP\_616 = 0 not(TMP\_616) = 1 TMP\_617 = 0 TMP\_618 = 1 not(TMP\_618) = 0 TMP\_619 = 1 not(TMP\_619) = 0 TMP\_620 = 2 TMP\_621 = 0 not(TMP\_621) = 1 TMP\_622 = 0 not(TMP\_622) = 1 TMP\_623 = 1 not(TMP\_623) = 0 TMP\_624 = 1 not(TMP\_624) = 0 TMP\_625 = 1 not(TMP\_625) = 0 TMP\_626 = 2 TMP\_627 = 1 not(TMP\_627) = 0 TMP\_628 = 0 not(TMP\_628) = 1 TMP\_629 = 1 not(TMP\_629) = 0 TMP\_630 = 1 not(TMP\_630) = 0 TMP\_631 = 1 not(TMP\_631) = 0 TMP\_632 = 1 not(TMP\_632) = 0 TMP\_633 = 5 TMP\_634 = 0 not(TMP\_634) = 1 TMP\_635 = 0 not(TMP\_635) = 1 TMP\_636 = 0 TMP\_637 = 1 not(TMP\_637) = 0 TMP\_638 = 1 not(TMP\_638) = 0 TMP\_639 = 2 TMP\_640 = 0 not(TMP\_640) = 1 TMP\_641 = 0 not(TMP\_641) = 1 TMP\_642 = 1 not(TMP\_642) = 0 TMP\_643 = 1 not(TMP\_643) = 0 TMP\_644 = 1 not(TMP\_644) = 0 TMP\_645 = 2 TMP\_646 = 1 not(TMP\_646) = 0 TMP\_647 = 0 not(TMP\_647) = 1 TMP\_648 = 1 not(TMP\_648) = 0 TMP\_649 = 1 not(TMP\_649) = 0 TMP\_650 = 0 not(TMP\_650) = 1 TMP\_651 = 1 not(TMP\_651) = 0 TMP\_652 = 4 TMP\_653 = 0 not(TMP\_653) = 1 TMP\_654 = 0 not(TMP\_654) = 1 TMP\_655 = 0 TMP\_656 = 1 not(TMP\_656) = 0 TMP\_657 = 1 not(TMP\_657) = 0 TMP\_658 = 2 TMP\_659 = 0 not(TMP\_659) = 1 TMP\_660 = 0 not(TMP\_660) = 1 TMP\_661 = 1 not(TMP\_661) = 0 TMP\_662 = 1 not(TMP\_662) = 0 TMP\_663 = 1 not(TMP\_663) = 0 TMP\_664 = 2 TMP\_665 = 1 not(TMP\_665) = 0 TMP\_666 = 1 not(TMP\_666) = 0 TMP\_667 = 1 not(TMP\_667) = 0 TMP\_668 = 1 not(TMP\_668) = 0 TMP\_669 = 0 not(TMP\_669) = 1 TMP\_670 = 1 not(TMP\_670) = 0 TMP\_671 = 5 TMP\_672 = 0 not(TMP\_672) = 1 TMP\_673 = 0 not(TMP\_673) = 1 TMP\_674 = 0 TMP\_675 = 1 not(TMP\_675) = 0 TMP\_676 = 1 not(TMP\_676) = 0 TMP\_677 = 2 TMP\_678 = 0 not(TMP\_678) = 1 TMP\_679 = 0 not(TMP\_679) = 1 TMP\_680 = 1 not(TMP\_680) = 0 TMP\_681 = 1 not(TMP\_681) = 0 TMP\_682 = 1 not(TMP\_682) = 0 TMP\_683 = 2 Area\_0 = 60 Distance\_0\_Rule\_0 = 20 Distance\_1\_Rule\_0 = 3 Distance\_2\_Rule\_0 = 1 Area\_1 = 174 Distance\_0\_Rule\_1 = 58 Distance\_1\_Rule\_1 = 3 Distance\_2\_Rule\_1 = 1 Area\_2 = 116 Distance\_0\_Rule\_2 = 58 Distance\_1\_Rule\_2 = 2 Distance\_2\_Rule\_2 = 1 Area\_3 = 58 Distance\_0\_Rule\_3 = 58 Distance\_1\_Rule\_3 = 1 Distance\_2\_Rule\_3 = 1 Area\_4 = 120 Distance\_0\_Rule\_4 = 40 Distance\_1\_Rule\_4 = 3 Distance\_2\_Rule\_4 = 1 Area\_5 = 120 Distance\_0\_Rule\_5 = 40 Distance\_1\_Rule\_5 = 3 Distance\_2\_Rule\_5 = 1 Area\_6 = 3 -(Rule\_6\_LB) = -79 Distance\_0\_Rule\_6 = 1 -(Rule\_6\_LB) = 0 Distance\_1\_Rule\_6 = 3 -(Rule\_6\_LB) = -1 Distance\_2\_Rule\_6 = 1 Area\_7 = 3 -(Rule\_7\_LB) = -79 Distance\_0\_Rule\_7 = 1 -(Rule\_7\_LB) = 0 Distance\_1\_Rule\_7 = 3 -(Rule\_7\_LB) = 0 Distance\_2\_Rule\_7 = 1 Area\_8 = 63 -(Rule\_8\_LB) = 0 Distance\_0\_Rule\_8 = 21 -(Rule\_8\_LB) = 0 Distance\_1\_Rule\_8 = 3 -(Rule\_8\_LB) = 0 Distance\_2\_Rule\_8 = 1 Area\_9 = 3 -(Rule\_9\_LB) = -20 Distance\_0\_Rule\_9 = 1 -(Rule\_9\_LB) = 0 Distance\_1\_Rule\_9 = 3 -(Rule\_9\_LB) = -1 Distance\_2\_Rule\_9 = 1 TMP\_684 = 720 .

- Solution #5 found. 5 Solutions, Resolution 1.369s, 716 Nodes (522.9 n/s), 1334 Backtracks, 670 Fails, 0 Restarts

Rule\_6\_LB = 79 Rule\_6\_UB = 80 Rule\_6\_LB = 0 Rule\_6\_UB = 3 Rule\_6\_LB = 1 Rule\_6\_UB = 2 Rule\_7\_LB = 79 Rule\_7\_UB = 80 Rule\_7\_LB = 0 Rule\_7\_UB = 3 Rule\_7\_LB = 0 Rule\_7\_UB = 1 Rule\_8\_LB = 0 Rule\_8\_UB = 21 Rule\_8\_LB = 0 Rule\_8\_UB = 3 Rule\_8\_LB = 0 Rule\_8\_UB = 1 Rule\_9\_LB = 20 Rule\_9\_UB = 21 Rule\_9\_LB = 0 Rule\_9\_UB = 3 Rule\_9\_LB = 1 Rule\_9\_UB = 2 Overlaps\_0\_0 = 0 Overlaps\_0\_1 = 0 Overlaps\_0\_2 = 0 Overlaps\_0\_3 = 0 Overlaps\_0\_4 = 0 Overlaps\_0\_5 = 0 Overlaps\_0\_6 = 0 Overlaps\_0\_7 = 0 Overlaps\_0\_8 = 0 Overlaps\_0\_9 = 0 Overlaps\_1\_0 = 0 Overlaps\_1\_1 = 0 Overlaps\_1\_2 = 0 Overlaps\_1\_3 = 0 Overlaps\_1\_4 = 1 Overlaps\_1\_5 = 0 Overlaps\_1\_6 = 0 Overlaps\_1\_7 = 0 Overlaps\_1\_8 = 0 Overlaps\_1\_9 = 0 Overlaps\_2\_0 = 0 Overlaps\_2\_1 = 0 Overlaps\_2\_2 = 0 Overlaps\_2\_3 = 0 Overlaps\_2\_4 = 0 Overlaps\_2\_5 = 0 Overlaps\_2\_6 = 0 Overlaps\_2\_7 = 0 Overlaps\_2\_8 = 0 Overlaps\_2\_9 = 0 Overlaps\_3\_0 = 0 Overlaps\_3\_1 = 0 Overlaps\_3\_2 = 0 Overlaps\_3\_3 = 0 Overlaps\_3\_4 = 0 Overlaps\_3\_5 = 0 Overlaps\_3\_6 = 0 Overlaps\_3\_7 = 0 Overlaps\_3\_8 = 0 Overlaps\_3\_9 = 0 Overlaps\_4\_0 = 0 Overlaps\_4\_1 = 0 Overlaps\_4\_2 = 0 Overlaps\_4\_3 = 0 Overlaps\_4\_4 = 0 Overlaps\_4\_5 = 0 Overlaps\_4\_6 = 0 Overlaps\_4\_7 = 0 Overlaps\_4\_8 = 0 Overlaps\_4\_9 = 0 Overlaps\_5\_0 = 0 Overlaps\_5\_1 = 0 Overlaps\_5\_2 = 0 Overlaps\_5\_3 = 0 Overlaps\_5\_4 = 0 Overlaps\_5\_5 = 0 Overlaps\_5\_6 = 0 Overlaps\_5\_7 = 0 Overlaps\_5\_8 = 0 Overlaps\_5\_9 = 0 Overlaps\_6\_0 = 0 Overlaps\_6\_1 = 0 Overlaps\_6\_2 = 0 Overlaps\_6\_3 = 0 Overlaps\_6\_4 = 0 Overlaps\_6\_5 = 0 Overlaps\_6\_6 = 0 Overlaps\_6\_7 = 0 Overlaps\_6\_8 = 0 Overlaps\_6\_9 = 0 Overlaps\_7\_0 = 0 Overlaps\_7\_1 = 0 Overlaps\_7\_2 = 0 Overlaps\_7\_3 = 0 Overlaps\_7\_4 = 0 Overlaps\_7\_5 = 0 Overlaps\_7\_6 = 0 Overlaps\_7\_7 = 0 Overlaps\_7\_8 = 0 Overlaps\_7\_9 = 0 Overlaps\_8\_0 = 0 Overlaps\_8\_1 = 0 Overlaps\_8\_2 = 0 Overlaps\_8\_3 = 0 Overlaps\_8\_4 = 0 Overlaps\_8\_5 = 0 Overlaps\_8\_6 = 0 Overlaps\_8\_7 = 0 Overlaps\_8\_8 = 0 Overlaps\_8\_9 = 0 Overlaps\_9\_0 = 0 Overlaps\_9\_1 = 0 Overlaps\_9\_2 = 0 Overlaps\_9\_3 = 0 Overlaps\_9\_4 = 0 Overlaps\_9\_5 = 0 Overlaps\_9\_6 = 0 Overlaps\_9\_7 = 0 Overlaps\_9\_8 = 0 Overlaps\_9\_9 = 0 TMP\_0 = 0 not(TMP\_0) = 1 TMP\_1 = 1 not(TMP\_1) = 0 TMP\_2 = 1 not(TMP\_2) = 0 TMP\_3 = 1 not(TMP\_3) = 0 TMP\_4 = 1 not(TMP\_4) = 0 TMP\_5 = 1 not(TMP\_5) = 0 TMP\_6 = 5 TMP\_7 = 0 not(TMP\_7) = 1 TMP\_8 = 0 not(TMP\_8) = 1 TMP\_9 = 0 TMP\_10 = 1 not(TMP\_10) = 0 TMP\_11 = 1 not(TMP\_11) = 0 TMP\_12 = 2 TMP\_13 = 0 not(TMP\_13) = 1 TMP\_14 = 0 not(TMP\_14) = 1 TMP\_15 = 1 not(TMP\_15) = 0 TMP\_16 = 1 not(TMP\_16) = 0 TMP\_17 = 1 not(TMP\_17) = 0 TMP\_18 = 2 TMP\_19 = 0 not(TMP\_19) = 1 TMP\_20 = 1 not(TMP\_20) = 0 TMP\_21 = 1 not(TMP\_21) = 0 TMP\_22 = 1 not(TMP\_22) = 0 TMP\_23 = 1 not(TMP\_23) = 0 TMP\_24 = 1 not(TMP\_24) = 0 TMP\_25 = 5 TMP\_26 = 0 not(TMP\_26) = 1 TMP\_27 = 0 not(TMP\_27) = 1 TMP\_28 = 0 TMP\_29 = 1 not(TMP\_29) = 0 TMP\_30 = 1 not(TMP\_30) = 0 TMP\_31 = 2 TMP\_32 = 0 not(TMP\_32) = 1 TMP\_33 = 0 not(TMP\_33) = 1 TMP\_34 = 1 not(TMP\_34) = 0 TMP\_35 = 1 not(TMP\_35) = 0 TMP\_36 = 1 not(TMP\_36) = 0 TMP\_37 = 2 TMP\_38 = 0 not(TMP\_38) = 1 TMP\_39 = 1 not(TMP\_39) = 0 TMP\_40 = 1 not(TMP\_40) = 0 TMP\_41 = 1 not(TMP\_41) = 0 TMP\_42 = 0 not(TMP\_42) = 1 TMP\_43 = 1 not(TMP\_43) = 0 TMP\_44 = 4 TMP\_45 = 0 not(TMP\_45) = 1 TMP\_46 = 0 not(TMP\_46) = 1 TMP\_47 = 0 TMP\_48 = 1 not(TMP\_48) = 0 TMP\_49 = 1 not(TMP\_49) = 0 TMP\_50 = 2 TMP\_51 = 0 not(TMP\_51) = 1 TMP\_52 = 0 not(TMP\_52) = 1 TMP\_53 = 1 not(TMP\_53) = 0 TMP\_54 = 1 not(TMP\_54) = 0 TMP\_55 = 1 not(TMP\_55) = 0 TMP\_56 = 2 TMP\_57 = 0 not(TMP\_57) = 1 TMP\_58 = 1 not(TMP\_58) = 0 TMP\_59 = 1 not(TMP\_59) = 0 TMP\_60 = 1 not(TMP\_60) = 0 TMP\_61 = 0 not(TMP\_61) = 1 TMP\_62 = 1 not(TMP\_62) = 0 TMP\_63 = 4 TMP\_64 = 0 not(TMP\_64) = 1 TMP\_65 = 0 not(TMP\_65) = 1 TMP\_66 = 0 TMP\_67 = 1 not(TMP\_67) = 0 TMP\_68 = 1 not(TMP\_68) = 0 TMP\_69 = 2 TMP\_70 = 0 not(TMP\_70) = 1 TMP\_71 = 0 not(TMP\_71) = 1 TMP\_72 = 1 not(TMP\_72) = 0 TMP\_73 = 1 not(TMP\_73) = 0 TMP\_74 = 1 not(TMP\_74) = 0 TMP\_75 = 2 TMP\_76 = 1 not(TMP\_76) = 0 TMP\_77 = 0 not(TMP\_77) = 1 TMP\_78 = 1 not(TMP\_78) = 0 TMP\_79 = 1 not(TMP\_79) = 0 TMP\_80 = 0 not(TMP\_80) = 1 TMP\_81 = 1 not(TMP\_81) = 0 TMP\_82 = 4 TMP\_83 = 0 not(TMP\_83) = 1 TMP\_84 = 0 not(TMP\_84) = 1 TMP\_85 = 0 TMP\_86 = 1 not(TMP\_86) = 0 TMP\_87 = 1 not(TMP\_87) = 0 TMP\_88 = 2 TMP\_89 = 0 not(TMP\_89) = 1 TMP\_90 = 0 not(TMP\_90) = 1 TMP\_91 = 1 not(TMP\_91) = 0 TMP\_92 = 1 not(TMP\_92) = 0 TMP\_93 = 1 not(TMP\_93) = 0 TMP\_94 = 2 TMP\_95 = 1 not(TMP\_95) = 0 TMP\_96 = 0 not(TMP\_96) = 1 TMP\_97 = 1 not(TMP\_97) = 0 TMP\_98 = 1 not(TMP\_98) = 0 TMP\_99 = 1 not(TMP\_99) = 0 TMP\_100 = 1 not(TMP\_100) = 0 TMP\_101 = 5 TMP\_102 = 0 not(TMP\_102) = 1 TMP\_103 = 0 not(TMP\_103) = 1 TMP\_104 = 0 TMP\_105 = 1 not(TMP\_105) = 0 TMP\_106 = 1 not(TMP\_106) = 0 TMP\_107 = 2 TMP\_108 = 0 not(TMP\_108) = 1 TMP\_109 = 0 not(TMP\_109) = 1 TMP\_110 = 1 not(TMP\_110) = 0 TMP\_111 = 1 not(TMP\_111) = 0 TMP\_112 = 1 not(TMP\_112) = 0 TMP\_113 = 2 TMP\_114 = 1 not(TMP\_114) = 0 TMP\_115 = 1 not(TMP\_115) = 0 TMP\_116 = 1 not(TMP\_116) = 0 TMP\_117 = 1 not(TMP\_117) = 0 TMP\_118 = 0 not(TMP\_118) = 1 TMP\_119 = 1 not(TMP\_119) = 0 TMP\_120 = 5 TMP\_121 = 0 not(TMP\_121) = 1 TMP\_122 = 0 not(TMP\_122) = 1 TMP\_123 = 0 TMP\_124 = 1 not(TMP\_124) = 0 TMP\_125 = 1 not(TMP\_125) = 0 TMP\_126 = 2 TMP\_127 = 0 not(TMP\_127) = 1 TMP\_128 = 0 not(TMP\_128) = 1 TMP\_129 = 1 not(TMP\_129) = 0 TMP\_130 = 1 not(TMP\_130) = 0 TMP\_131 = 1 not(TMP\_131) = 0 TMP\_132 = 2 TMP\_133 = 0 not(TMP\_133) = 1 TMP\_134 = 1 not(TMP\_134) = 0 TMP\_135 = 1 not(TMP\_135) = 0 TMP\_136 = 1 not(TMP\_136) = 0 TMP\_137 = 0 not(TMP\_137) = 1 TMP\_138 = 1 not(TMP\_138) = 0 TMP\_139 = 4 TMP\_140 = 0 not(TMP\_140) = 1 TMP\_141 = 0 not(TMP\_141) = 1 TMP\_142 = 0 TMP\_143 = 1 not(TMP\_143) = 0 TMP\_144 = 1 not(TMP\_144) = 0 TMP\_145 = 2 TMP\_146 = 0 not(TMP\_146) = 1 TMP\_147 = 0 not(TMP\_147) = 1 TMP\_148 = 1 not(TMP\_148) = 0 TMP\_149 = 1 not(TMP\_149) = 0 TMP\_150 = 1 not(TMP\_150) = 0 TMP\_151 = 2 TMP\_152 = 0 not(TMP\_152) = 1 TMP\_153 = 1 not(TMP\_153) = 0 TMP\_154 = 1 not(TMP\_154) = 0 TMP\_155 = 1 not(TMP\_155) = 0 TMP\_156 = 1 not(TMP\_156) = 0 TMP\_157 = 1 not(TMP\_157) = 0 TMP\_158 = 5 TMP\_159 = 0 not(TMP\_159) = 1 TMP\_160 = 0 not(TMP\_160) = 1 TMP\_161 = 0 TMP\_162 = 1 not(TMP\_162) = 0 TMP\_163 = 1 not(TMP\_163) = 0 TMP\_164 = 2 TMP\_165 = 0 not(TMP\_165) = 1 TMP\_166 = 0 not(TMP\_166) = 1 TMP\_167 = 1 not(TMP\_167) = 0 TMP\_168 = 1 not(TMP\_168) = 0 TMP\_169 = 1 not(TMP\_169) = 0 TMP\_170 = 2 TMP\_171 = 0 not(TMP\_171) = 1 TMP\_172 = 1 not(TMP\_172) = 0 TMP\_173 = 1 not(TMP\_173) = 0 TMP\_174 = 1 not(TMP\_174) = 0 TMP\_175 = 1 not(TMP\_175) = 0 TMP\_176 = 0 not(TMP\_176) = 1 TMP\_177 = 4 TMP\_178 = 0 not(TMP\_178) = 1 TMP\_179 = 0 not(TMP\_179) = 1 TMP\_180 = 0 TMP\_181 = 1 not(TMP\_181) = 0 TMP\_182 = 1 not(TMP\_182) = 0 TMP\_183 = 2 TMP\_184 = 0 not(TMP\_184) = 1 TMP\_185 = 0 not(TMP\_185) = 1 TMP\_186 = 1 not(TMP\_186) = 0 TMP\_187 = 1 not(TMP\_187) = 0 TMP\_188 = 1 not(TMP\_188) = 0 TMP\_189 = 2 TMP\_190 = 0 not(TMP\_190) = 1 TMP\_191 = 1 not(TMP\_191) = 0 TMP\_192 = 1 not(TMP\_192) = 0 TMP\_193 = 1 not(TMP\_193) = 0 TMP\_194 = 1 not(TMP\_194) = 0 TMP\_195 = 0 not(TMP\_195) = 1 TMP\_196 = 4 TMP\_197 = 0 not(TMP\_197) = 1 TMP\_198 = 0 not(TMP\_198) = 1 TMP\_199 = 0 TMP\_200 = 1 not(TMP\_200) = 0 TMP\_201 = 1 not(TMP\_201) = 0 TMP\_202 = 2 TMP\_203 = 0 not(TMP\_203) = 1 TMP\_204 = 0 not(TMP\_204) = 1 TMP\_205 = 1 not(TMP\_205) = 0 TMP\_206 = 1 not(TMP\_206) = 0 TMP\_207 = 1 not(TMP\_207) = 0 TMP\_208 = 2 TMP\_209 = 0 not(TMP\_209) = 1 TMP\_210 = 1 not(TMP\_210) = 0 TMP\_211 = 1 not(TMP\_211) = 0 TMP\_212 = 1 not(TMP\_212) = 0 TMP\_213 = 1 not(TMP\_213) = 0 TMP\_214 = 1 not(TMP\_214) = 0 TMP\_215 = 5 TMP\_216 = 0 not(TMP\_216) = 1 TMP\_217 = 0 not(TMP\_217) = 1 TMP\_218 = 0 TMP\_219 = 1 not(TMP\_219) = 0 TMP\_220 = 1 not(TMP\_220) = 0 TMP\_221 = 2 TMP\_222 = 0 not(TMP\_222) = 1 TMP\_223 = 0 not(TMP\_223) = 1 TMP\_224 = 1 not(TMP\_224) = 0 TMP\_225 = 1 not(TMP\_225) = 0 TMP\_226 = 1 not(TMP\_226) = 0 TMP\_227 = 2 TMP\_228 = 0 not(TMP\_228) = 1 TMP\_229 = 1 not(TMP\_229) = 0 TMP\_230 = 1 not(TMP\_230) = 0 TMP\_231 = 1 not(TMP\_231) = 0 TMP\_232 = 1 not(TMP\_232) = 0 TMP\_233 = 1 not(TMP\_233) = 0 TMP\_234 = 5 TMP\_235 = 0 not(TMP\_235) = 1 TMP\_236 = 0 not(TMP\_236) = 1 TMP\_237 = 0 TMP\_238 = 1 not(TMP\_238) = 0 TMP\_239 = 1 not(TMP\_239) = 0 TMP\_240 = 2 TMP\_241 = 0 not(TMP\_241) = 1 TMP\_242 = 0 not(TMP\_242) = 1 TMP\_243 = 1 not(TMP\_243) = 0 TMP\_244 = 1 not(TMP\_244) = 0 TMP\_245 = 1 not(TMP\_245) = 0 TMP\_246 = 2 TMP\_247 = 1 not(TMP\_247) = 0 TMP\_248 = 0 not(TMP\_248) = 1 TMP\_249 = 1 not(TMP\_249) = 0 TMP\_250 = 1 not(TMP\_250) = 0 TMP\_251 = 1 not(TMP\_251) = 0 TMP\_252 = 1 not(TMP\_252) = 0 TMP\_253 = 5 TMP\_254 = 0 not(TMP\_254) = 1 TMP\_255 = 0 not(TMP\_255) = 1 TMP\_256 = 0 TMP\_257 = 1 not(TMP\_257) = 0 TMP\_258 = 1 not(TMP\_258) = 0 TMP\_259 = 2 TMP\_260 = 0 not(TMP\_260) = 1 TMP\_261 = 0 not(TMP\_261) = 1 TMP\_262 = 1 not(TMP\_262) = 0 TMP\_263 = 1 not(TMP\_263) = 0 TMP\_264 = 1 not(TMP\_264) = 0 TMP\_265 = 2 TMP\_266 = 1 not(TMP\_266) = 0 TMP\_267 = 0 not(TMP\_267) = 1 TMP\_268 = 1 not(TMP\_268) = 0 TMP\_269 = 1 not(TMP\_269) = 0 TMP\_270 = 1 not(TMP\_270) = 0 TMP\_271 = 0 not(TMP\_271) = 1 TMP\_272 = 4 TMP\_273 = 0 not(TMP\_273) = 1 TMP\_274 = 0 not(TMP\_274) = 1 TMP\_275 = 0 TMP\_276 = 1 not(TMP\_276) = 0 TMP\_277 = 1 not(TMP\_277) = 0 TMP\_278 = 2 TMP\_279 = 0 not(TMP\_279) = 1 TMP\_280 = 0 not(TMP\_280) = 1 TMP\_281 = 1 not(TMP\_281) = 0 TMP\_282 = 1 not(TMP\_282) = 0 TMP\_283 = 1 not(TMP\_283) = 0 TMP\_284 = 2 TMP\_285 = 1 not(TMP\_285) = 0 TMP\_286 = 1 not(TMP\_286) = 0 TMP\_287 = 1 not(TMP\_287) = 0 TMP\_288 = 1 not(TMP\_288) = 0 TMP\_289 = 1 not(TMP\_289) = 0 TMP\_290 = 0 not(TMP\_290) = 1 TMP\_291 = 5 TMP\_292 = 0 not(TMP\_292) = 1 TMP\_293 = 0 not(TMP\_293) = 1 TMP\_294 = 0 TMP\_295 = 1 not(TMP\_295) = 0 TMP\_296 = 1 not(TMP\_296) = 0 TMP\_297 = 2 TMP\_298 = 0 not(TMP\_298) = 1 TMP\_299 = 0 not(TMP\_299) = 1 TMP\_300 = 1 not(TMP\_300) = 0 TMP\_301 = 1 not(TMP\_301) = 0 TMP\_302 = 1 not(TMP\_302) = 0 TMP\_303 = 2 TMP\_304 = 0 not(TMP\_304) = 1 TMP\_305 = 1 not(TMP\_305) = 0 TMP\_306 = 1 not(TMP\_306) = 0 TMP\_307 = 1 not(TMP\_307) = 0 TMP\_308 = 1 not(TMP\_308) = 0 TMP\_309 = 1 not(TMP\_309) = 0 TMP\_310 = 5 TMP\_311 = 0 not(TMP\_311) = 1 TMP\_312 = 0 not(TMP\_312) = 1 TMP\_313 = 0 TMP\_314 = 1 not(TMP\_314) = 0 TMP\_315 = 1 not(TMP\_315) = 0 TMP\_316 = 2 TMP\_317 = 0 not(TMP\_317) = 1 TMP\_318 = 0 not(TMP\_318) = 1 TMP\_319 = 1 not(TMP\_319) = 0 TMP\_320 = 1 not(TMP\_320) = 0 TMP\_321 = 1 not(TMP\_321) = 0 TMP\_322 = 2 TMP\_323 = 0 not(TMP\_323) = 1 TMP\_324 = 1 not(TMP\_324) = 0 TMP\_325 = 1 not(TMP\_325) = 0 TMP\_326 = 1 not(TMP\_326) = 0 TMP\_327 = 1 not(TMP\_327) = 0 TMP\_328 = 0 not(TMP\_328) = 1 TMP\_329 = 4 TMP\_330 = 0 not(TMP\_330) = 1 TMP\_331 = 0 not(TMP\_331) = 1 TMP\_332 = 0 TMP\_333 = 1 not(TMP\_333) = 0 TMP\_334 = 1 not(TMP\_334) = 0 TMP\_335 = 2 TMP\_336 = 0 not(TMP\_336) = 1 TMP\_337 = 0 not(TMP\_337) = 1 TMP\_338 = 1 not(TMP\_338) = 0 TMP\_339 = 1 not(TMP\_339) = 0 TMP\_340 = 1 not(TMP\_340) = 0 TMP\_341 = 2 TMP\_342 = 1 not(TMP\_342) = 0 TMP\_343 = 1 not(TMP\_343) = 0 TMP\_344 = 1 not(TMP\_344) = 0 TMP\_345 = 1 not(TMP\_345) = 0 TMP\_346 = 1 not(TMP\_346) = 0 TMP\_347 = 0 not(TMP\_347) = 1 TMP\_348 = 5 TMP\_349 = 0 not(TMP\_349) = 1 TMP\_350 = 0 not(TMP\_350) = 1 TMP\_351 = 0 TMP\_352 = 1 not(TMP\_352) = 0 TMP\_353 = 1 not(TMP\_353) = 0 TMP\_354 = 2 TMP\_355 = 0 not(TMP\_355) = 1 TMP\_356 = 0 not(TMP\_356) = 1 TMP\_357 = 1 not(TMP\_357) = 0 TMP\_358 = 1 not(TMP\_358) = 0 TMP\_359 = 1 not(TMP\_359) = 0 TMP\_360 = 2 TMP\_361 = 1 not(TMP\_361) = 0 TMP\_362 = 0 not(TMP\_362) = 1 TMP\_363 = 1 not(TMP\_363) = 0 TMP\_364 = 1 not(TMP\_364) = 0 TMP\_365 = 1 not(TMP\_365) = 0 TMP\_366 = 0 not(TMP\_366) = 1 TMP\_367 = 4 TMP\_368 = 0 not(TMP\_368) = 1 TMP\_369 = 0 not(TMP\_369) = 1 TMP\_370 = 0 TMP\_371 = 1 not(TMP\_371) = 0 TMP\_372 = 1 not(TMP\_372) = 0 TMP\_373 = 2 TMP\_374 = 0 not(TMP\_374) = 1 TMP\_375 = 0 not(TMP\_375) = 1 TMP\_376 = 1 not(TMP\_376) = 0 TMP\_377 = 1 not(TMP\_377) = 0 TMP\_378 = 1 not(TMP\_378) = 0 TMP\_379 = 2 TMP\_380 = 1 not(TMP\_380) = 0 TMP\_381 = 0 not(TMP\_381) = 1 TMP\_382 = 1 not(TMP\_382) = 0 TMP\_383 = 1 not(TMP\_383) = 0 TMP\_384 = 1 not(TMP\_384) = 0 TMP\_385 = 1 not(TMP\_385) = 0 TMP\_386 = 5 TMP\_387 = 0 not(TMP\_387) = 1 TMP\_388 = 0 not(TMP\_388) = 1 TMP\_389 = 0 TMP\_390 = 1 not(TMP\_390) = 0 TMP\_391 = 1 not(TMP\_391) = 0 TMP\_392 = 2 TMP\_393 = 0 not(TMP\_393) = 1 TMP\_394 = 0 not(TMP\_394) = 1 TMP\_395 = 1 not(TMP\_395) = 0 TMP\_396 = 1 not(TMP\_396) = 0 TMP\_397 = 1 not(TMP\_397) = 0 TMP\_398 = 2 TMP\_399 = 1 not(TMP\_399) = 0 TMP\_400 = 0 not(TMP\_400) = 1 TMP\_401 = 1 not(TMP\_401) = 0 TMP\_402 = 1 not(TMP\_402) = 0 TMP\_403 = 1 not(TMP\_403) = 0 TMP\_404 = 1 not(TMP\_404) = 0 TMP\_405 = 5 TMP\_406 = 0 not(TMP\_406) = 1 TMP\_407 = 0 not(TMP\_407) = 1 TMP\_408 = 0 TMP\_409 = 1 not(TMP\_409) = 0 TMP\_410 = 1 not(TMP\_410) = 0 TMP\_411 = 2 TMP\_412 = 0 not(TMP\_412) = 1 TMP\_413 = 0 not(TMP\_413) = 1 TMP\_414 = 1 not(TMP\_414) = 0 TMP\_415 = 1 not(TMP\_415) = 0 TMP\_416 = 1 not(TMP\_416) = 0 TMP\_417 = 2 TMP\_418 = 1 not(TMP\_418) = 0 TMP\_419 = 0 not(TMP\_419) = 1 TMP\_420 = 1 not(TMP\_420) = 0 TMP\_421 = 1 not(TMP\_421) = 0 TMP\_422 = 1 not(TMP\_422) = 0 TMP\_423 = 1 not(TMP\_423) = 0 TMP\_424 = 5 TMP\_425 = 0 not(TMP\_425) = 1 TMP\_426 = 0 not(TMP\_426) = 1 TMP\_427 = 0 TMP\_428 = 1 not(TMP\_428) = 0 TMP\_429 = 1 not(TMP\_429) = 0 TMP\_430 = 2 TMP\_431 = 0 not(TMP\_431) = 1 TMP\_432 = 0 not(TMP\_432) = 1 TMP\_433 = 1 not(TMP\_433) = 0 TMP\_434 = 1 not(TMP\_434) = 0 TMP\_435 = 1 not(TMP\_435) = 0 TMP\_436 = 2 TMP\_437 = 1 not(TMP\_437) = 0 TMP\_438 = 0 not(TMP\_438) = 1 TMP\_439 = 1 not(TMP\_439) = 0 TMP\_440 = 1 not(TMP\_440) = 0 TMP\_441 = 1 not(TMP\_441) = 0 TMP\_442 = 0 not(TMP\_442) = 1 TMP\_443 = 4 TMP\_444 = 0 not(TMP\_444) = 1 TMP\_445 = 0 not(TMP\_445) = 1 TMP\_446 = 0 TMP\_447 = 1 not(TMP\_447) = 0 TMP\_448 = 1 not(TMP\_448) = 0 TMP\_449 = 2 TMP\_450 = 0 not(TMP\_450) = 1 TMP\_451 = 0 not(TMP\_451) = 1 TMP\_452 = 1 not(TMP\_452) = 0 TMP\_453 = 1 not(TMP\_453) = 0 TMP\_454 = 1 not(TMP\_454) = 0 TMP\_455 = 2 TMP\_456 = 1 not(TMP\_456) = 0 TMP\_457 = 0 not(TMP\_457) = 1 TMP\_458 = 1 not(TMP\_458) = 0 TMP\_459 = 1 not(TMP\_459) = 0 TMP\_460 = 1 not(TMP\_460) = 0 TMP\_461 = 0 not(TMP\_461) = 1 TMP\_462 = 4 TMP\_463 = 0 not(TMP\_463) = 1 TMP\_464 = 0 not(TMP\_464) = 1 TMP\_465 = 0 TMP\_466 = 1 not(TMP\_466) = 0 TMP\_467 = 1 not(TMP\_467) = 0 TMP\_468 = 2 TMP\_469 = 0 not(TMP\_469) = 1 TMP\_470 = 0 not(TMP\_470) = 1 TMP\_471 = 1 not(TMP\_471) = 0 TMP\_472 = 1 not(TMP\_472) = 0 TMP\_473 = 1 not(TMP\_473) = 0 TMP\_474 = 2 TMP\_475 = 1 not(TMP\_475) = 0 TMP\_476 = 0 not(TMP\_476) = 1 TMP\_477 = 1 not(TMP\_477) = 0 TMP\_478 = 1 not(TMP\_478) = 0 TMP\_479 = 1 not(TMP\_479) = 0 TMP\_480 = 1 not(TMP\_480) = 0 TMP\_481 = 5 TMP\_482 = 0 not(TMP\_482) = 1 TMP\_483 = 0 not(TMP\_483) = 1 TMP\_484 = 0 TMP\_485 = 1 not(TMP\_485) = 0 TMP\_486 = 1 not(TMP\_486) = 0 TMP\_487 = 2 TMP\_488 = 0 not(TMP\_488) = 1 TMP\_489 = 0 not(TMP\_489) = 1 TMP\_490 = 1 not(TMP\_490) = 0 TMP\_491 = 1 not(TMP\_491) = 0 TMP\_492 = 1 not(TMP\_492) = 0 TMP\_493 = 2 TMP\_494 = 1 not(TMP\_494) = 0 TMP\_495 = 1 not(TMP\_495) = 0 TMP\_496 = 1 not(TMP\_496) = 0 TMP\_497 = 1 not(TMP\_497) = 0 TMP\_498 = 1 not(TMP\_498) = 0 TMP\_499 = 0 not(TMP\_499) = 1 TMP\_500 = 5 TMP\_501 = 0 not(TMP\_501) = 1 TMP\_502 = 0 not(TMP\_502) = 1 TMP\_503 = 0 TMP\_504 = 1 not(TMP\_504) = 0 TMP\_505 = 1 not(TMP\_505) = 0 TMP\_506 = 2 TMP\_507 = 0 not(TMP\_507) = 1 TMP\_508 = 0 not(TMP\_508) = 1 TMP\_509 = 1 not(TMP\_509) = 0 TMP\_510 = 1 not(TMP\_510) = 0 TMP\_511 = 1 not(TMP\_511) = 0 TMP\_512 = 2 TMP\_513 = 0 not(TMP\_513) = 1 TMP\_514 = 1 not(TMP\_514) = 0 TMP\_515 = 1 not(TMP\_515) = 0 TMP\_516 = 1 not(TMP\_516) = 0 TMP\_517 = 1 not(TMP\_517) = 0 TMP\_518 = 1 not(TMP\_518) = 0 TMP\_519 = 5 TMP\_520 = 0 not(TMP\_520) = 1 TMP\_521 = 0 not(TMP\_521) = 1 TMP\_522 = 0 TMP\_523 = 1 not(TMP\_523) = 0 TMP\_524 = 1 not(TMP\_524) = 0 TMP\_525 = 2 TMP\_526 = 0 not(TMP\_526) = 1 TMP\_527 = 0 not(TMP\_527) = 1 TMP\_528 = 1 not(TMP\_528) = 0 TMP\_529 = 1 not(TMP\_529) = 0 TMP\_530 = 1 not(TMP\_530) = 0 TMP\_531 = 2 TMP\_532 = 1 not(TMP\_532) = 0 TMP\_533 = 0 not(TMP\_533) = 1 TMP\_534 = 1 not(TMP\_534) = 0 TMP\_535 = 1 not(TMP\_535) = 0 TMP\_536 = 1 not(TMP\_536) = 0 TMP\_537 = 1 not(TMP\_537) = 0 TMP\_538 = 5 TMP\_539 = 0 not(TMP\_539) = 1 TMP\_540 = 0 not(TMP\_540) = 1 TMP\_541 = 0 TMP\_542 = 1 not(TMP\_542) = 0 TMP\_543 = 1 not(TMP\_543) = 0 TMP\_544 = 2 TMP\_545 = 0 not(TMP\_545) = 1 TMP\_546 = 0 not(TMP\_546) = 1 TMP\_547 = 1 not(TMP\_547) = 0 TMP\_548 = 1 not(TMP\_548) = 0 TMP\_549 = 1 not(TMP\_549) = 0 TMP\_550 = 2 TMP\_551 = 1 not(TMP\_551) = 0 TMP\_552 = 0 not(TMP\_552) = 1 TMP\_553 = 1 not(TMP\_553) = 0 TMP\_554 = 1 not(TMP\_554) = 0 TMP\_555 = 0 not(TMP\_555) = 1 TMP\_556 = 1 not(TMP\_556) = 0 TMP\_557 = 4 TMP\_558 = 0 not(TMP\_558) = 1 TMP\_559 = 0 not(TMP\_559) = 1 TMP\_560 = 0 TMP\_561 = 1 not(TMP\_561) = 0 TMP\_562 = 1 not(TMP\_562) = 0 TMP\_563 = 2 TMP\_564 = 0 not(TMP\_564) = 1 TMP\_565 = 0 not(TMP\_565) = 1 TMP\_566 = 1 not(TMP\_566) = 0 TMP\_567 = 1 not(TMP\_567) = 0 TMP\_568 = 1 not(TMP\_568) = 0 TMP\_569 = 2 TMP\_570 = 1 not(TMP\_570) = 0 TMP\_571 = 0 not(TMP\_571) = 1 TMP\_572 = 1 not(TMP\_572) = 0 TMP\_573 = 1 not(TMP\_573) = 0 TMP\_574 = 0 not(TMP\_574) = 1 TMP\_575 = 1 not(TMP\_575) = 0 TMP\_576 = 4 TMP\_577 = 0 not(TMP\_577) = 1 TMP\_578 = 0 not(TMP\_578) = 1 TMP\_579 = 0 TMP\_580 = 1 not(TMP\_580) = 0 TMP\_581 = 1 not(TMP\_581) = 0 TMP\_582 = 2 TMP\_583 = 0 not(TMP\_583) = 1 TMP\_584 = 0 not(TMP\_584) = 1 TMP\_585 = 1 not(TMP\_585) = 0 TMP\_586 = 1 not(TMP\_586) = 0 TMP\_587 = 1 not(TMP\_587) = 0 TMP\_588 = 2 TMP\_589 = 1 not(TMP\_589) = 0 TMP\_590 = 0 not(TMP\_590) = 1 TMP\_591 = 1 not(TMP\_591) = 0 TMP\_592 = 1 not(TMP\_592) = 0 TMP\_593 = 0 not(TMP\_593) = 1 TMP\_594 = 1 not(TMP\_594) = 0 TMP\_595 = 4 TMP\_596 = 0 not(TMP\_596) = 1 TMP\_597 = 0 not(TMP\_597) = 1 TMP\_598 = 0 TMP\_599 = 1 not(TMP\_599) = 0 TMP\_600 = 1 not(TMP\_600) = 0 TMP\_601 = 2 TMP\_602 = 0 not(TMP\_602) = 1 TMP\_603 = 0 not(TMP\_603) = 1 TMP\_604 = 1 not(TMP\_604) = 0 TMP\_605 = 1 not(TMP\_605) = 0 TMP\_606 = 1 not(TMP\_606) = 0 TMP\_607 = 2 TMP\_608 = 1 not(TMP\_608) = 0 TMP\_609 = 0 not(TMP\_609) = 1 TMP\_610 = 1 not(TMP\_610) = 0 TMP\_611 = 1 not(TMP\_611) = 0 TMP\_612 = 1 not(TMP\_612) = 0 TMP\_613 = 1 not(TMP\_613) = 0 TMP\_614 = 5 TMP\_615 = 0 not(TMP\_615) = 1 TMP\_616 = 0 not(TMP\_616) = 1 TMP\_617 = 0 TMP\_618 = 1 not(TMP\_618) = 0 TMP\_619 = 1 not(TMP\_619) = 0 TMP\_620 = 2 TMP\_621 = 0 not(TMP\_621) = 1 TMP\_622 = 0 not(TMP\_622) = 1 TMP\_623 = 1 not(TMP\_623) = 0 TMP\_624 = 1 not(TMP\_624) = 0 TMP\_625 = 1 not(TMP\_625) = 0 TMP\_626 = 2 TMP\_627 = 1 not(TMP\_627) = 0 TMP\_628 = 0 not(TMP\_628) = 1 TMP\_629 = 1 not(TMP\_629) = 0 TMP\_630 = 1 not(TMP\_630) = 0 TMP\_631 = 1 not(TMP\_631) = 0 TMP\_632 = 1 not(TMP\_632) = 0 TMP\_633 = 5 TMP\_634 = 0 not(TMP\_634) = 1 TMP\_635 = 0 not(TMP\_635) = 1 TMP\_636 = 0 TMP\_637 = 1 not(TMP\_637) = 0 TMP\_638 = 1 not(TMP\_638) = 0 TMP\_639 = 2 TMP\_640 = 0 not(TMP\_640) = 1 TMP\_641 = 0 not(TMP\_641) = 1 TMP\_642 = 1 not(TMP\_642) = 0 TMP\_643 = 1 not(TMP\_643) = 0 TMP\_644 = 1 not(TMP\_644) = 0 TMP\_645 = 2 TMP\_646 = 1 not(TMP\_646) = 0 TMP\_647 = 0 not(TMP\_647) = 1 TMP\_648 = 1 not(TMP\_648) = 0 TMP\_649 = 1 not(TMP\_649) = 0 TMP\_650 = 0 not(TMP\_650) = 1 TMP\_651 = 1 not(TMP\_651) = 0 TMP\_652 = 4 TMP\_653 = 0 not(TMP\_653) = 1 TMP\_654 = 0 not(TMP\_654) = 1 TMP\_655 = 0 TMP\_656 = 1 not(TMP\_656) = 0 TMP\_657 = 1 not(TMP\_657) = 0 TMP\_658 = 2 TMP\_659 = 0 not(TMP\_659) = 1 TMP\_660 = 0 not(TMP\_660) = 1 TMP\_661 = 1 not(TMP\_661) = 0 TMP\_662 = 1 not(TMP\_662) = 0 TMP\_663 = 1 not(TMP\_663) = 0 TMP\_664 = 2 TMP\_665 = 1 not(TMP\_665) = 0 TMP\_666 = 1 not(TMP\_666) = 0 TMP\_667 = 1 not(TMP\_667) = 0 TMP\_668 = 1 not(TMP\_668) = 0 TMP\_669 = 0 not(TMP\_669) = 1 TMP\_670 = 1 not(TMP\_670) = 0 TMP\_671 = 5 TMP\_672 = 0 not(TMP\_672) = 1 TMP\_673 = 0 not(TMP\_673) = 1 TMP\_674 = 0 TMP\_675 = 1 not(TMP\_675) = 0 TMP\_676 = 1 not(TMP\_676) = 0 TMP\_677 = 2 TMP\_678 = 0 not(TMP\_678) = 1 TMP\_679 = 0 not(TMP\_679) = 1 TMP\_680 = 1 not(TMP\_680) = 0 TMP\_681 = 1 not(TMP\_681) = 0 TMP\_682 = 1 not(TMP\_682) = 0 TMP\_683 = 2 Area\_0 = 60 Distance\_0\_Rule\_0 = 20 Distance\_1\_Rule\_0 = 3 Distance\_2\_Rule\_0 = 1 Area\_1 = 174 Distance\_0\_Rule\_1 = 58 Distance\_1\_Rule\_1 = 3 Distance\_2\_Rule\_1 = 1 Area\_2 = 116 Distance\_0\_Rule\_2 = 58 Distance\_1\_Rule\_2 = 2 Distance\_2\_Rule\_2 = 1 Area\_3 = 58 Distance\_0\_Rule\_3 = 58 Distance\_1\_Rule\_3 = 1 Distance\_2\_Rule\_3 = 1 Area\_4 = 120 Distance\_0\_Rule\_4 = 40 Distance\_1\_Rule\_4 = 3 Distance\_2\_Rule\_4 = 1 Area\_5 = 120 Distance\_0\_Rule\_5 = 40 Distance\_1\_Rule\_5 = 3 Distance\_2\_Rule\_5 = 1 Area\_6 = 3 -(Rule\_6\_LB) = -79 Distance\_0\_Rule\_6 = 1 -(Rule\_6\_LB) = 0 Distance\_1\_Rule\_6 = 3 -(Rule\_6\_LB) = -1 Distance\_2\_Rule\_6 = 1 Area\_7 = 3 -(Rule\_7\_LB) = -79 Distance\_0\_Rule\_7 = 1 -(Rule\_7\_LB) = 0 Distance\_1\_Rule\_7 = 3 -(Rule\_7\_LB) = 0 Distance\_2\_Rule\_7 = 1 Area\_8 = 63 -(Rule\_8\_LB) = 0 Distance\_0\_Rule\_8 = 21 -(Rule\_8\_LB) = 0 Distance\_1\_Rule\_8 = 3 -(Rule\_8\_LB) = 0 Distance\_2\_Rule\_8 = 1 Area\_9 = 3 -(Rule\_9\_LB) = -20 Distance\_0\_Rule\_9 = 1 -(Rule\_9\_LB) = 0 Distance\_1\_Rule\_9 = 3 -(Rule\_9\_LB) = -1 Distance\_2\_Rule\_9 = 1 TMP\_684 = 720 .

- Solution #6 found. 6 Solutions, Resolution 1.384s, 717 Nodes (518.2 n/s), 1335 Backtracks, 670 Fails, 0 Restarts

Rule\_6\_LB = 79 Rule\_6\_UB = 80 Rule\_6\_LB = 0 Rule\_6\_UB = 3 Rule\_6\_LB = 1 Rule\_6\_UB = 2 Rule\_7\_LB = 79 Rule\_7\_UB = 80 Rule\_7\_LB = 0 Rule\_7\_UB = 3 Rule\_7\_LB = 0 Rule\_7\_UB = 1 Rule\_8\_LB = 0 Rule\_8\_UB = 21 Rule\_8\_LB = 0 Rule\_8\_UB = 3 Rule\_8\_LB = 0 Rule\_8\_UB = 1 Rule\_9\_LB = 20 Rule\_9\_UB = 21 Rule\_9\_LB = 0 Rule\_9\_UB = 3 Rule\_9\_LB = 1 Rule\_9\_UB = 2 Overlaps\_0\_0 = 0 Overlaps\_0\_1 = 0 Overlaps\_0\_2 = 0 Overlaps\_0\_3 = 0 Overlaps\_0\_4 = 0 Overlaps\_0\_5 = 0 Overlaps\_0\_6 = 0 Overlaps\_0\_7 = 0 Overlaps\_0\_8 = 0 Overlaps\_0\_9 = 0 Overlaps\_1\_0 = 0 Overlaps\_1\_1 = 0 Overlaps\_1\_2 = 0 Overlaps\_1\_3 = 0 Overlaps\_1\_4 = 1 Overlaps\_1\_5 = 0 Overlaps\_1\_6 = 0 Overlaps\_1\_7 = 0 Overlaps\_1\_8 = 0 Overlaps\_1\_9 = 0 Overlaps\_2\_0 = 1 Overlaps\_2\_1 = 0 Overlaps\_2\_2 = 0 Overlaps\_2\_3 = 0 Overlaps\_2\_4 = 0 Overlaps\_2\_5 = 0 Overlaps\_2\_6 = 0 Overlaps\_2\_7 = 0 Overlaps\_2\_8 = 0 Overlaps\_2\_9 = 0 Overlaps\_3\_0 = 0 Overlaps\_3\_1 = 0 Overlaps\_3\_2 = 0 Overlaps\_3\_3 = 0 Overlaps\_3\_4 = 0 Overlaps\_3\_5 = 0 Overlaps\_3\_6 = 0 Overlaps\_3\_7 = 0 Overlaps\_3\_8 = 0 Overlaps\_3\_9 = 0 Overlaps\_4\_0 = 0 Overlaps\_4\_1 = 0 Overlaps\_4\_2 = 0 Overlaps\_4\_3 = 0 Overlaps\_4\_4 = 0 Overlaps\_4\_5 = 0 Overlaps\_4\_6 = 0 Overlaps\_4\_7 = 0 Overlaps\_4\_8 = 0 Overlaps\_4\_9 = 0 Overlaps\_5\_0 = 0 Overlaps\_5\_1 = 0 Overlaps\_5\_2 = 0 Overlaps\_5\_3 = 0 Overlaps\_5\_4 = 0 Overlaps\_5\_5 = 0 Overlaps\_5\_6 = 0 Overlaps\_5\_7 = 0 Overlaps\_5\_8 = 0 Overlaps\_5\_9 = 0 Overlaps\_6\_0 = 0 Overlaps\_6\_1 = 0 Overlaps\_6\_2 = 0 Overlaps\_6\_3 = 0 Overlaps\_6\_4 = 0 Overlaps\_6\_5 = 0 Overlaps\_6\_6 = 0 Overlaps\_6\_7 = 0 Overlaps\_6\_8 = 0 Overlaps\_6\_9 = 0 Overlaps\_7\_0 = 0 Overlaps\_7\_1 = 0 Overlaps\_7\_2 = 0 Overlaps\_7\_3 = 0 Overlaps\_7\_4 = 0 Overlaps\_7\_5 = 0 Overlaps\_7\_6 = 0 Overlaps\_7\_7 = 0 Overlaps\_7\_8 = 0 Overlaps\_7\_9 = 0 Overlaps\_8\_0 = 0 Overlaps\_8\_1 = 0 Overlaps\_8\_2 = 0 Overlaps\_8\_3 = 0 Overlaps\_8\_4 = 0 Overlaps\_8\_5 = 0 Overlaps\_8\_6 = 0 Overlaps\_8\_7 = 0 Overlaps\_8\_8 = 0 Overlaps\_8\_9 = 0 Overlaps\_9\_0 = 0 Overlaps\_9\_1 = 0 Overlaps\_9\_2 = 0 Overlaps\_9\_3 = 0 Overlaps\_9\_4 = 0 Overlaps\_9\_5 = 0 Overlaps\_9\_6 = 0 Overlaps\_9\_7 = 0 Overlaps\_9\_8 = 0 Overlaps\_9\_9 = 0 TMP\_0 = 0 not(TMP\_0) = 1 TMP\_1 = 1 not(TMP\_1) = 0 TMP\_2 = 1 not(TMP\_2) = 0 TMP\_3 = 1 not(TMP\_3) = 0 TMP\_4 = 1 not(TMP\_4) = 0 TMP\_5 = 1 not(TMP\_5) = 0 TMP\_6 = 5 TMP\_7 = 0 not(TMP\_7) = 1 TMP\_8 = 0 not(TMP\_8) = 1 TMP\_9 = 0 TMP\_10 = 1 not(TMP\_10) = 0 TMP\_11 = 1 not(TMP\_11) = 0 TMP\_12 = 2 TMP\_13 = 0 not(TMP\_13) = 1 TMP\_14 = 0 not(TMP\_14) = 1 TMP\_15 = 1 not(TMP\_15) = 0 TMP\_16 = 1 not(TMP\_16) = 0 TMP\_17 = 1 not(TMP\_17) = 0 TMP\_18 = 2 TMP\_19 = 0 not(TMP\_19) = 1 TMP\_20 = 1 not(TMP\_20) = 0 TMP\_21 = 1 not(TMP\_21) = 0 TMP\_22 = 1 not(TMP\_22) = 0 TMP\_23 = 1 not(TMP\_23) = 0 TMP\_24 = 1 not(TMP\_24) = 0 TMP\_25 = 5 TMP\_26 = 0 not(TMP\_26) = 1 TMP\_27 = 0 not(TMP\_27) = 1 TMP\_28 = 0 TMP\_29 = 1 not(TMP\_29) = 0 TMP\_30 = 1 not(TMP\_30) = 0 TMP\_31 = 2 TMP\_32 = 0 not(TMP\_32) = 1 TMP\_33 = 0 not(TMP\_33) = 1 TMP\_34 = 1 not(TMP\_34) = 0 TMP\_35 = 1 not(TMP\_35) = 0 TMP\_36 = 1 not(TMP\_36) = 0 TMP\_37 = 2 TMP\_38 = 0 not(TMP\_38) = 1 TMP\_39 = 1 not(TMP\_39) = 0 TMP\_40 = 1 not(TMP\_40) = 0 TMP\_41 = 1 not(TMP\_41) = 0 TMP\_42 = 0 not(TMP\_42) = 1 TMP\_43 = 1 not(TMP\_43) = 0 TMP\_44 = 4 TMP\_45 = 0 not(TMP\_45) = 1 TMP\_46 = 0 not(TMP\_46) = 1 TMP\_47 = 0 TMP\_48 = 1 not(TMP\_48) = 0 TMP\_49 = 1 not(TMP\_49) = 0 TMP\_50 = 2 TMP\_51 = 0 not(TMP\_51) = 1 TMP\_52 = 0 not(TMP\_52) = 1 TMP\_53 = 1 not(TMP\_53) = 0 TMP\_54 = 1 not(TMP\_54) = 0 TMP\_55 = 1 not(TMP\_55) = 0 TMP\_56 = 2 TMP\_57 = 0 not(TMP\_57) = 1 TMP\_58 = 1 not(TMP\_58) = 0 TMP\_59 = 1 not(TMP\_59) = 0 TMP\_60 = 1 not(TMP\_60) = 0 TMP\_61 = 0 not(TMP\_61) = 1 TMP\_62 = 1 not(TMP\_62) = 0 TMP\_63 = 4 TMP\_64 = 0 not(TMP\_64) = 1 TMP\_65 = 0 not(TMP\_65) = 1 TMP\_66 = 0 TMP\_67 = 1 not(TMP\_67) = 0 TMP\_68 = 1 not(TMP\_68) = 0 TMP\_69 = 2 TMP\_70 = 0 not(TMP\_70) = 1 TMP\_71 = 0 not(TMP\_71) = 1 TMP\_72 = 1 not(TMP\_72) = 0 TMP\_73 = 1 not(TMP\_73) = 0 TMP\_74 = 1 not(TMP\_74) = 0 TMP\_75 = 2 TMP\_76 = 1 not(TMP\_76) = 0 TMP\_77 = 0 not(TMP\_77) = 1 TMP\_78 = 1 not(TMP\_78) = 0 TMP\_79 = 1 not(TMP\_79) = 0 TMP\_80 = 0 not(TMP\_80) = 1 TMP\_81 = 1 not(TMP\_81) = 0 TMP\_82 = 4 TMP\_83 = 0 not(TMP\_83) = 1 TMP\_84 = 0 not(TMP\_84) = 1 TMP\_85 = 0 TMP\_86 = 1 not(TMP\_86) = 0 TMP\_87 = 1 not(TMP\_87) = 0 TMP\_88 = 2 TMP\_89 = 0 not(TMP\_89) = 1 TMP\_90 = 0 not(TMP\_90) = 1 TMP\_91 = 1 not(TMP\_91) = 0 TMP\_92 = 1 not(TMP\_92) = 0 TMP\_93 = 1 not(TMP\_93) = 0 TMP\_94 = 2 TMP\_95 = 1 not(TMP\_95) = 0 TMP\_96 = 0 not(TMP\_96) = 1 TMP\_97 = 1 not(TMP\_97) = 0 TMP\_98 = 1 not(TMP\_98) = 0 TMP\_99 = 1 not(TMP\_99) = 0 TMP\_100 = 1 not(TMP\_100) = 0 TMP\_101 = 5 TMP\_102 = 0 not(TMP\_102) = 1 TMP\_103 = 0 not(TMP\_103) = 1 TMP\_104 = 0 TMP\_105 = 1 not(TMP\_105) = 0 TMP\_106 = 1 not(TMP\_106) = 0 TMP\_107 = 2 TMP\_108 = 0 not(TMP\_108) = 1 TMP\_109 = 0 not(TMP\_109) = 1 TMP\_110 = 1 not(TMP\_110) = 0 TMP\_111 = 1 not(TMP\_111) = 0 TMP\_112 = 1 not(TMP\_112) = 0 TMP\_113 = 2 TMP\_114 = 1 not(TMP\_114) = 0 TMP\_115 = 1 not(TMP\_115) = 0 TMP\_116 = 1 not(TMP\_116) = 0 TMP\_117 = 1 not(TMP\_117) = 0 TMP\_118 = 0 not(TMP\_118) = 1 TMP\_119 = 1 not(TMP\_119) = 0 TMP\_120 = 5 TMP\_121 = 0 not(TMP\_121) = 1 TMP\_122 = 0 not(TMP\_122) = 1 TMP\_123 = 0 TMP\_124 = 1 not(TMP\_124) = 0 TMP\_125 = 1 not(TMP\_125) = 0 TMP\_126 = 2 TMP\_127 = 0 not(TMP\_127) = 1 TMP\_128 = 0 not(TMP\_128) = 1 TMP\_129 = 1 not(TMP\_129) = 0 TMP\_130 = 1 not(TMP\_130) = 0 TMP\_131 = 1 not(TMP\_131) = 0 TMP\_132 = 2 TMP\_133 = 0 not(TMP\_133) = 1 TMP\_134 = 1 not(TMP\_134) = 0 TMP\_135 = 1 not(TMP\_135) = 0 TMP\_136 = 1 not(TMP\_136) = 0 TMP\_137 = 0 not(TMP\_137) = 1 TMP\_138 = 1 not(TMP\_138) = 0 TMP\_139 = 4 TMP\_140 = 0 not(TMP\_140) = 1 TMP\_141 = 0 not(TMP\_141) = 1 TMP\_142 = 0 TMP\_143 = 1 not(TMP\_143) = 0 TMP\_144 = 1 not(TMP\_144) = 0 TMP\_145 = 2 TMP\_146 = 0 not(TMP\_146) = 1 TMP\_147 = 0 not(TMP\_147) = 1 TMP\_148 = 1 not(TMP\_148) = 0 TMP\_149 = 1 not(TMP\_149) = 0 TMP\_150 = 1 not(TMP\_150) = 0 TMP\_151 = 2 TMP\_152 = 0 not(TMP\_152) = 1 TMP\_153 = 1 not(TMP\_153) = 0 TMP\_154 = 1 not(TMP\_154) = 0 TMP\_155 = 1 not(TMP\_155) = 0 TMP\_156 = 1 not(TMP\_156) = 0 TMP\_157 = 1 not(TMP\_157) = 0 TMP\_158 = 5 TMP\_159 = 0 not(TMP\_159) = 1 TMP\_160 = 0 not(TMP\_160) = 1 TMP\_161 = 0 TMP\_162 = 1 not(TMP\_162) = 0 TMP\_163 = 1 not(TMP\_163) = 0 TMP\_164 = 2 TMP\_165 = 0 not(TMP\_165) = 1 TMP\_166 = 0 not(TMP\_166) = 1 TMP\_167 = 1 not(TMP\_167) = 0 TMP\_168 = 1 not(TMP\_168) = 0 TMP\_169 = 1 not(TMP\_169) = 0 TMP\_170 = 2 TMP\_171 = 0 not(TMP\_171) = 1 TMP\_172 = 1 not(TMP\_172) = 0 TMP\_173 = 1 not(TMP\_173) = 0 TMP\_174 = 1 not(TMP\_174) = 0 TMP\_175 = 1 not(TMP\_175) = 0 TMP\_176 = 0 not(TMP\_176) = 1 TMP\_177 = 4 TMP\_178 = 0 not(TMP\_178) = 1 TMP\_179 = 0 not(TMP\_179) = 1 TMP\_180 = 0 TMP\_181 = 1 not(TMP\_181) = 0 TMP\_182 = 1 not(TMP\_182) = 0 TMP\_183 = 2 TMP\_184 = 0 not(TMP\_184) = 1 TMP\_185 = 0 not(TMP\_185) = 1 TMP\_186 = 1 not(TMP\_186) = 0 TMP\_187 = 1 not(TMP\_187) = 0 TMP\_188 = 1 not(TMP\_188) = 0 TMP\_189 = 2 TMP\_190 = 0 not(TMP\_190) = 1 TMP\_191 = 1 not(TMP\_191) = 0 TMP\_192 = 1 not(TMP\_192) = 0 TMP\_193 = 1 not(TMP\_193) = 0 TMP\_194 = 1 not(TMP\_194) = 0 TMP\_195 = 0 not(TMP\_195) = 1 TMP\_196 = 4 TMP\_197 = 0 not(TMP\_197) = 1 TMP\_198 = 0 not(TMP\_198) = 1 TMP\_199 = 0 TMP\_200 = 1 not(TMP\_200) = 0 TMP\_201 = 1 not(TMP\_201) = 0 TMP\_202 = 2 TMP\_203 = 0 not(TMP\_203) = 1 TMP\_204 = 0 not(TMP\_204) = 1 TMP\_205 = 1 not(TMP\_205) = 0 TMP\_206 = 1 not(TMP\_206) = 0 TMP\_207 = 1 not(TMP\_207) = 0 TMP\_208 = 2 TMP\_209 = 0 not(TMP\_209) = 1 TMP\_210 = 1 not(TMP\_210) = 0 TMP\_211 = 1 not(TMP\_211) = 0 TMP\_212 = 1 not(TMP\_212) = 0 TMP\_213 = 1 not(TMP\_213) = 0 TMP\_214 = 1 not(TMP\_214) = 0 TMP\_215 = 5 TMP\_216 = 0 not(TMP\_216) = 1 TMP\_217 = 0 not(TMP\_217) = 1 TMP\_218 = 0 TMP\_219 = 1 not(TMP\_219) = 0 TMP\_220 = 1 not(TMP\_220) = 0 TMP\_221 = 2 TMP\_222 = 0 not(TMP\_222) = 1 TMP\_223 = 0 not(TMP\_223) = 1 TMP\_224 = 1 not(TMP\_224) = 0 TMP\_225 = 1 not(TMP\_225) = 0 TMP\_226 = 1 not(TMP\_226) = 0 TMP\_227 = 2 TMP\_228 = 0 not(TMP\_228) = 1 TMP\_229 = 1 not(TMP\_229) = 0 TMP\_230 = 1 not(TMP\_230) = 0 TMP\_231 = 1 not(TMP\_231) = 0 TMP\_232 = 1 not(TMP\_232) = 0 TMP\_233 = 1 not(TMP\_233) = 0 TMP\_234 = 5 TMP\_235 = 0 not(TMP\_235) = 1 TMP\_236 = 0 not(TMP\_236) = 1 TMP\_237 = 0 TMP\_238 = 1 not(TMP\_238) = 0 TMP\_239 = 1 not(TMP\_239) = 0 TMP\_240 = 2 TMP\_241 = 0 not(TMP\_241) = 1 TMP\_242 = 0 not(TMP\_242) = 1 TMP\_243 = 1 not(TMP\_243) = 0 TMP\_244 = 1 not(TMP\_244) = 0 TMP\_245 = 1 not(TMP\_245) = 0 TMP\_246 = 2 TMP\_247 = 1 not(TMP\_247) = 0 TMP\_248 = 0 not(TMP\_248) = 1 TMP\_249 = 1 not(TMP\_249) = 0 TMP\_250 = 1 not(TMP\_250) = 0 TMP\_251 = 1 not(TMP\_251) = 0 TMP\_252 = 1 not(TMP\_252) = 0 TMP\_253 = 5 TMP\_254 = 0 not(TMP\_254) = 1 TMP\_255 = 0 not(TMP\_255) = 1 TMP\_256 = 0 TMP\_257 = 1 not(TMP\_257) = 0 TMP\_258 = 1 not(TMP\_258) = 0 TMP\_259 = 2 TMP\_260 = 0 not(TMP\_260) = 1 TMP\_261 = 0 not(TMP\_261) = 1 TMP\_262 = 1 not(TMP\_262) = 0 TMP\_263 = 1 not(TMP\_263) = 0 TMP\_264 = 1 not(TMP\_264) = 0 TMP\_265 = 2 TMP\_266 = 1 not(TMP\_266) = 0 TMP\_267 = 0 not(TMP\_267) = 1 TMP\_268 = 1 not(TMP\_268) = 0 TMP\_269 = 1 not(TMP\_269) = 0 TMP\_270 = 1 not(TMP\_270) = 0 TMP\_271 = 0 not(TMP\_271) = 1 TMP\_272 = 4 TMP\_273 = 0 not(TMP\_273) = 1 TMP\_274 = 0 not(TMP\_274) = 1 TMP\_275 = 0 TMP\_276 = 1 not(TMP\_276) = 0 TMP\_277 = 1 not(TMP\_277) = 0 TMP\_278 = 2 TMP\_279 = 0 not(TMP\_279) = 1 TMP\_280 = 0 not(TMP\_280) = 1 TMP\_281 = 1 not(TMP\_281) = 0 TMP\_282 = 1 not(TMP\_282) = 0 TMP\_283 = 1 not(TMP\_283) = 0 TMP\_284 = 2 TMP\_285 = 1 not(TMP\_285) = 0 TMP\_286 = 1 not(TMP\_286) = 0 TMP\_287 = 1 not(TMP\_287) = 0 TMP\_288 = 1 not(TMP\_288) = 0 TMP\_289 = 1 not(TMP\_289) = 0 TMP\_290 = 0 not(TMP\_290) = 1 TMP\_291 = 5 TMP\_292 = 0 not(TMP\_292) = 1 TMP\_293 = 0 not(TMP\_293) = 1 TMP\_294 = 0 TMP\_295 = 1 not(TMP\_295) = 0 TMP\_296 = 1 not(TMP\_296) = 0 TMP\_297 = 2 TMP\_298 = 0 not(TMP\_298) = 1 TMP\_299 = 0 not(TMP\_299) = 1 TMP\_300 = 1 not(TMP\_300) = 0 TMP\_301 = 1 not(TMP\_301) = 0 TMP\_302 = 1 not(TMP\_302) = 0 TMP\_303 = 2 TMP\_304 = 0 not(TMP\_304) = 1 TMP\_305 = 1 not(TMP\_305) = 0 TMP\_306 = 1 not(TMP\_306) = 0 TMP\_307 = 1 not(TMP\_307) = 0 TMP\_308 = 1 not(TMP\_308) = 0 TMP\_309 = 1 not(TMP\_309) = 0 TMP\_310 = 5 TMP\_311 = 0 not(TMP\_311) = 1 TMP\_312 = 0 not(TMP\_312) = 1 TMP\_313 = 0 TMP\_314 = 1 not(TMP\_314) = 0 TMP\_315 = 1 not(TMP\_315) = 0 TMP\_316 = 2 TMP\_317 = 0 not(TMP\_317) = 1 TMP\_318 = 0 not(TMP\_318) = 1 TMP\_319 = 1 not(TMP\_319) = 0 TMP\_320 = 1 not(TMP\_320) = 0 TMP\_321 = 1 not(TMP\_321) = 0 TMP\_322 = 2 TMP\_323 = 0 not(TMP\_323) = 1 TMP\_324 = 1 not(TMP\_324) = 0 TMP\_325 = 1 not(TMP\_325) = 0 TMP\_326 = 1 not(TMP\_326) = 0 TMP\_327 = 1 not(TMP\_327) = 0 TMP\_328 = 0 not(TMP\_328) = 1 TMP\_329 = 4 TMP\_330 = 0 not(TMP\_330) = 1 TMP\_331 = 0 not(TMP\_331) = 1 TMP\_332 = 0 TMP\_333 = 1 not(TMP\_333) = 0 TMP\_334 = 1 not(TMP\_334) = 0 TMP\_335 = 2 TMP\_336 = 0 not(TMP\_336) = 1 TMP\_337 = 0 not(TMP\_337) = 1 TMP\_338 = 1 not(TMP\_338) = 0 TMP\_339 = 1 not(TMP\_339) = 0 TMP\_340 = 1 not(TMP\_340) = 0 TMP\_341 = 2 TMP\_342 = 1 not(TMP\_342) = 0 TMP\_343 = 1 not(TMP\_343) = 0 TMP\_344 = 1 not(TMP\_344) = 0 TMP\_345 = 1 not(TMP\_345) = 0 TMP\_346 = 1 not(TMP\_346) = 0 TMP\_347 = 0 not(TMP\_347) = 1 TMP\_348 = 5 TMP\_349 = 0 not(TMP\_349) = 1 TMP\_350 = 0 not(TMP\_350) = 1 TMP\_351 = 0 TMP\_352 = 1 not(TMP\_352) = 0 TMP\_353 = 1 not(TMP\_353) = 0 TMP\_354 = 2 TMP\_355 = 0 not(TMP\_355) = 1 TMP\_356 = 0 not(TMP\_356) = 1 TMP\_357 = 1 not(TMP\_357) = 0 TMP\_358 = 1 not(TMP\_358) = 0 TMP\_359 = 1 not(TMP\_359) = 0 TMP\_360 = 2 TMP\_361 = 1 not(TMP\_361) = 0 TMP\_362 = 0 not(TMP\_362) = 1 TMP\_363 = 1 not(TMP\_363) = 0 TMP\_364 = 1 not(TMP\_364) = 0 TMP\_365 = 1 not(TMP\_365) = 0 TMP\_366 = 0 not(TMP\_366) = 1 TMP\_367 = 4 TMP\_368 = 0 not(TMP\_368) = 1 TMP\_369 = 0 not(TMP\_369) = 1 TMP\_370 = 0 TMP\_371 = 1 not(TMP\_371) = 0 TMP\_372 = 1 not(TMP\_372) = 0 TMP\_373 = 2 TMP\_374 = 0 not(TMP\_374) = 1 TMP\_375 = 0 not(TMP\_375) = 1 TMP\_376 = 1 not(TMP\_376) = 0 TMP\_377 = 1 not(TMP\_377) = 0 TMP\_378 = 1 not(TMP\_378) = 0 TMP\_379 = 2 TMP\_380 = 1 not(TMP\_380) = 0 TMP\_381 = 0 not(TMP\_381) = 1 TMP\_382 = 1 not(TMP\_382) = 0 TMP\_383 = 1 not(TMP\_383) = 0 TMP\_384 = 1 not(TMP\_384) = 0 TMP\_385 = 1 not(TMP\_385) = 0 TMP\_386 = 5 TMP\_387 = 0 not(TMP\_387) = 1 TMP\_388 = 0 not(TMP\_388) = 1 TMP\_389 = 0 TMP\_390 = 1 not(TMP\_390) = 0 TMP\_391 = 1 not(TMP\_391) = 0 TMP\_392 = 2 TMP\_393 = 0 not(TMP\_393) = 1 TMP\_394 = 0 not(TMP\_394) = 1 TMP\_395 = 1 not(TMP\_395) = 0 TMP\_396 = 1 not(TMP\_396) = 0 TMP\_397 = 1 not(TMP\_397) = 0 TMP\_398 = 2 TMP\_399 = 1 not(TMP\_399) = 0 TMP\_400 = 0 not(TMP\_400) = 1 TMP\_401 = 1 not(TMP\_401) = 0 TMP\_402 = 1 not(TMP\_402) = 0 TMP\_403 = 1 not(TMP\_403) = 0 TMP\_404 = 1 not(TMP\_404) = 0 TMP\_405 = 5 TMP\_406 = 0 not(TMP\_406) = 1 TMP\_407 = 0 not(TMP\_407) = 1 TMP\_408 = 0 TMP\_409 = 1 not(TMP\_409) = 0 TMP\_410 = 1 not(TMP\_410) = 0 TMP\_411 = 2 TMP\_412 = 0 not(TMP\_412) = 1 TMP\_413 = 0 not(TMP\_413) = 1 TMP\_414 = 1 not(TMP\_414) = 0 TMP\_415 = 1 not(TMP\_415) = 0 TMP\_416 = 1 not(TMP\_416) = 0 TMP\_417 = 2 TMP\_418 = 1 not(TMP\_418) = 0 TMP\_419 = 0 not(TMP\_419) = 1 TMP\_420 = 1 not(TMP\_420) = 0 TMP\_421 = 1 not(TMP\_421) = 0 TMP\_422 = 1 not(TMP\_422) = 0 TMP\_423 = 1 not(TMP\_423) = 0 TMP\_424 = 5 TMP\_425 = 0 not(TMP\_425) = 1 TMP\_426 = 0 not(TMP\_426) = 1 TMP\_427 = 0 TMP\_428 = 1 not(TMP\_428) = 0 TMP\_429 = 1 not(TMP\_429) = 0 TMP\_430 = 2 TMP\_431 = 0 not(TMP\_431) = 1 TMP\_432 = 0 not(TMP\_432) = 1 TMP\_433 = 1 not(TMP\_433) = 0 TMP\_434 = 1 not(TMP\_434) = 0 TMP\_435 = 1 not(TMP\_435) = 0 TMP\_436 = 2 TMP\_437 = 1 not(TMP\_437) = 0 TMP\_438 = 0 not(TMP\_438) = 1 TMP\_439 = 1 not(TMP\_439) = 0 TMP\_440 = 1 not(TMP\_440) = 0 TMP\_441 = 1 not(TMP\_441) = 0 TMP\_442 = 0 not(TMP\_442) = 1 TMP\_443 = 4 TMP\_444 = 0 not(TMP\_444) = 1 TMP\_445 = 0 not(TMP\_445) = 1 TMP\_446 = 0 TMP\_447 = 1 not(TMP\_447) = 0 TMP\_448 = 1 not(TMP\_448) = 0 TMP\_449 = 2 TMP\_450 = 0 not(TMP\_450) = 1 TMP\_451 = 0 not(TMP\_451) = 1 TMP\_452 = 1 not(TMP\_452) = 0 TMP\_453 = 1 not(TMP\_453) = 0 TMP\_454 = 1 not(TMP\_454) = 0 TMP\_455 = 2 TMP\_456 = 1 not(TMP\_456) = 0 TMP\_457 = 0 not(TMP\_457) = 1 TMP\_458 = 1 not(TMP\_458) = 0 TMP\_459 = 1 not(TMP\_459) = 0 TMP\_460 = 1 not(TMP\_460) = 0 TMP\_461 = 0 not(TMP\_461) = 1 TMP\_462 = 4 TMP\_463 = 0 not(TMP\_463) = 1 TMP\_464 = 0 not(TMP\_464) = 1 TMP\_465 = 0 TMP\_466 = 1 not(TMP\_466) = 0 TMP\_467 = 1 not(TMP\_467) = 0 TMP\_468 = 2 TMP\_469 = 0 not(TMP\_469) = 1 TMP\_470 = 0 not(TMP\_470) = 1 TMP\_471 = 1 not(TMP\_471) = 0 TMP\_472 = 1 not(TMP\_472) = 0 TMP\_473 = 1 not(TMP\_473) = 0 TMP\_474 = 2 TMP\_475 = 1 not(TMP\_475) = 0 TMP\_476 = 0 not(TMP\_476) = 1 TMP\_477 = 1 not(TMP\_477) = 0 TMP\_478 = 1 not(TMP\_478) = 0 TMP\_479 = 1 not(TMP\_479) = 0 TMP\_480 = 1 not(TMP\_480) = 0 TMP\_481 = 5 TMP\_482 = 0 not(TMP\_482) = 1 TMP\_483 = 0 not(TMP\_483) = 1 TMP\_484 = 0 TMP\_485 = 1 not(TMP\_485) = 0 TMP\_486 = 1 not(TMP\_486) = 0 TMP\_487 = 2 TMP\_488 = 0 not(TMP\_488) = 1 TMP\_489 = 0 not(TMP\_489) = 1 TMP\_490 = 1 not(TMP\_490) = 0 TMP\_491 = 1 not(TMP\_491) = 0 TMP\_492 = 1 not(TMP\_492) = 0 TMP\_493 = 2 TMP\_494 = 1 not(TMP\_494) = 0 TMP\_495 = 1 not(TMP\_495) = 0 TMP\_496 = 1 not(TMP\_496) = 0 TMP\_497 = 1 not(TMP\_497) = 0 TMP\_498 = 1 not(TMP\_498) = 0 TMP\_499 = 0 not(TMP\_499) = 1 TMP\_500 = 5 TMP\_501 = 0 not(TMP\_501) = 1 TMP\_502 = 0 not(TMP\_502) = 1 TMP\_503 = 0 TMP\_504 = 1 not(TMP\_504) = 0 TMP\_505 = 1 not(TMP\_505) = 0 TMP\_506 = 2 TMP\_507 = 0 not(TMP\_507) = 1 TMP\_508 = 0 not(TMP\_508) = 1 TMP\_509 = 1 not(TMP\_509) = 0 TMP\_510 = 1 not(TMP\_510) = 0 TMP\_511 = 1 not(TMP\_511) = 0 TMP\_512 = 2 TMP\_513 = 0 not(TMP\_513) = 1 TMP\_514 = 1 not(TMP\_514) = 0 TMP\_515 = 1 not(TMP\_515) = 0 TMP\_516 = 1 not(TMP\_516) = 0 TMP\_517 = 1 not(TMP\_517) = 0 TMP\_518 = 1 not(TMP\_518) = 0 TMP\_519 = 5 TMP\_520 = 0 not(TMP\_520) = 1 TMP\_521 = 0 not(TMP\_521) = 1 TMP\_522 = 0 TMP\_523 = 1 not(TMP\_523) = 0 TMP\_524 = 1 not(TMP\_524) = 0 TMP\_525 = 2 TMP\_526 = 0 not(TMP\_526) = 1 TMP\_527 = 0 not(TMP\_527) = 1 TMP\_528 = 1 not(TMP\_528) = 0 TMP\_529 = 1 not(TMP\_529) = 0 TMP\_530 = 1 not(TMP\_530) = 0 TMP\_531 = 2 TMP\_532 = 1 not(TMP\_532) = 0 TMP\_533 = 0 not(TMP\_533) = 1 TMP\_534 = 1 not(TMP\_534) = 0 TMP\_535 = 1 not(TMP\_535) = 0 TMP\_536 = 1 not(TMP\_536) = 0 TMP\_537 = 1 not(TMP\_537) = 0 TMP\_538 = 5 TMP\_539 = 0 not(TMP\_539) = 1 TMP\_540 = 0 not(TMP\_540) = 1 TMP\_541 = 0 TMP\_542 = 1 not(TMP\_542) = 0 TMP\_543 = 1 not(TMP\_543) = 0 TMP\_544 = 2 TMP\_545 = 0 not(TMP\_545) = 1 TMP\_546 = 0 not(TMP\_546) = 1 TMP\_547 = 1 not(TMP\_547) = 0 TMP\_548 = 1 not(TMP\_548) = 0 TMP\_549 = 1 not(TMP\_549) = 0 TMP\_550 = 2 TMP\_551 = 1 not(TMP\_551) = 0 TMP\_552 = 0 not(TMP\_552) = 1 TMP\_553 = 1 not(TMP\_553) = 0 TMP\_554 = 1 not(TMP\_554) = 0 TMP\_555 = 0 not(TMP\_555) = 1 TMP\_556 = 1 not(TMP\_556) = 0 TMP\_557 = 4 TMP\_558 = 0 not(TMP\_558) = 1 TMP\_559 = 0 not(TMP\_559) = 1 TMP\_560 = 0 TMP\_561 = 1 not(TMP\_561) = 0 TMP\_562 = 1 not(TMP\_562) = 0 TMP\_563 = 2 TMP\_564 = 0 not(TMP\_564) = 1 TMP\_565 = 0 not(TMP\_565) = 1 TMP\_566 = 1 not(TMP\_566) = 0 TMP\_567 = 1 not(TMP\_567) = 0 TMP\_568 = 1 not(TMP\_568) = 0 TMP\_569 = 2 TMP\_570 = 1 not(TMP\_570) = 0 TMP\_571 = 0 not(TMP\_571) = 1 TMP\_572 = 1 not(TMP\_572) = 0 TMP\_573 = 1 not(TMP\_573) = 0 TMP\_574 = 0 not(TMP\_574) = 1 TMP\_575 = 1 not(TMP\_575) = 0 TMP\_576 = 4 TMP\_577 = 0 not(TMP\_577) = 1 TMP\_578 = 0 not(TMP\_578) = 1 TMP\_579 = 0 TMP\_580 = 1 not(TMP\_580) = 0 TMP\_581 = 1 not(TMP\_581) = 0 TMP\_582 = 2 TMP\_583 = 0 not(TMP\_583) = 1 TMP\_584 = 0 not(TMP\_584) = 1 TMP\_585 = 1 not(TMP\_585) = 0 TMP\_586 = 1 not(TMP\_586) = 0 TMP\_587 = 1 not(TMP\_587) = 0 TMP\_588 = 2 TMP\_589 = 1 not(TMP\_589) = 0 TMP\_590 = 0 not(TMP\_590) = 1 TMP\_591 = 1 not(TMP\_591) = 0 TMP\_592 = 1 not(TMP\_592) = 0 TMP\_593 = 0 not(TMP\_593) = 1 TMP\_594 = 1 not(TMP\_594) = 0 TMP\_595 = 4 TMP\_596 = 0 not(TMP\_596) = 1 TMP\_597 = 0 not(TMP\_597) = 1 TMP\_598 = 0 TMP\_599 = 1 not(TMP\_599) = 0 TMP\_600 = 1 not(TMP\_600) = 0 TMP\_601 = 2 TMP\_602 = 0 not(TMP\_602) = 1 TMP\_603 = 0 not(TMP\_603) = 1 TMP\_604 = 1 not(TMP\_604) = 0 TMP\_605 = 1 not(TMP\_605) = 0 TMP\_606 = 1 not(TMP\_606) = 0 TMP\_607 = 2 TMP\_608 = 1 not(TMP\_608) = 0 TMP\_609 = 0 not(TMP\_609) = 1 TMP\_610 = 1 not(TMP\_610) = 0 TMP\_611 = 1 not(TMP\_611) = 0 TMP\_612 = 1 not(TMP\_612) = 0 TMP\_613 = 1 not(TMP\_613) = 0 TMP\_614 = 5 TMP\_615 = 0 not(TMP\_615) = 1 TMP\_616 = 0 not(TMP\_616) = 1 TMP\_617 = 0 TMP\_618 = 1 not(TMP\_618) = 0 TMP\_619 = 1 not(TMP\_619) = 0 TMP\_620 = 2 TMP\_621 = 0 not(TMP\_621) = 1 TMP\_622 = 0 not(TMP\_622) = 1 TMP\_623 = 1 not(TMP\_623) = 0 TMP\_624 = 1 not(TMP\_624) = 0 TMP\_625 = 1 not(TMP\_625) = 0 TMP\_626 = 2 TMP\_627 = 1 not(TMP\_627) = 0 TMP\_628 = 0 not(TMP\_628) = 1 TMP\_629 = 1 not(TMP\_629) = 0 TMP\_630 = 1 not(TMP\_630) = 0 TMP\_631 = 1 not(TMP\_631) = 0 TMP\_632 = 1 not(TMP\_632) = 0 TMP\_633 = 5 TMP\_634 = 0 not(TMP\_634) = 1 TMP\_635 = 0 not(TMP\_635) = 1 TMP\_636 = 0 TMP\_637 = 1 not(TMP\_637) = 0 TMP\_638 = 1 not(TMP\_638) = 0 TMP\_639 = 2 TMP\_640 = 0 not(TMP\_640) = 1 TMP\_641 = 0 not(TMP\_641) = 1 TMP\_642 = 1 not(TMP\_642) = 0 TMP\_643 = 1 not(TMP\_643) = 0 TMP\_644 = 1 not(TMP\_644) = 0 TMP\_645 = 2 TMP\_646 = 1 not(TMP\_646) = 0 TMP\_647 = 0 not(TMP\_647) = 1 TMP\_648 = 1 not(TMP\_648) = 0 TMP\_649 = 1 not(TMP\_649) = 0 TMP\_650 = 0 not(TMP\_650) = 1 TMP\_651 = 1 not(TMP\_651) = 0 TMP\_652 = 4 TMP\_653 = 0 not(TMP\_653) = 1 TMP\_654 = 0 not(TMP\_654) = 1 TMP\_655 = 0 TMP\_656 = 1 not(TMP\_656) = 0 TMP\_657 = 1 not(TMP\_657) = 0 TMP\_658 = 2 TMP\_659 = 0 not(TMP\_659) = 1 TMP\_660 = 0 not(TMP\_660) = 1 TMP\_661 = 1 not(TMP\_661) = 0 TMP\_662 = 1 not(TMP\_662) = 0 TMP\_663 = 1 not(TMP\_663) = 0 TMP\_664 = 2 TMP\_665 = 1 not(TMP\_665) = 0 TMP\_666 = 1 not(TMP\_666) = 0 TMP\_667 = 1 not(TMP\_667) = 0 TMP\_668 = 1 not(TMP\_668) = 0 TMP\_669 = 0 not(TMP\_669) = 1 TMP\_670 = 1 not(TMP\_670) = 0 TMP\_671 = 5 TMP\_672 = 0 not(TMP\_672) = 1 TMP\_673 = 0 not(TMP\_673) = 1 TMP\_674 = 0 TMP\_675 = 1 not(TMP\_675) = 0 TMP\_676 = 1 not(TMP\_676) = 0 TMP\_677 = 2 TMP\_678 = 0 not(TMP\_678) = 1 TMP\_679 = 0 not(TMP\_679) = 1 TMP\_680 = 1 not(TMP\_680) = 0 TMP\_681 = 1 not(TMP\_681) = 0 TMP\_682 = 1 not(TMP\_682) = 0 TMP\_683 = 2 Area\_0 = 60 Distance\_0\_Rule\_0 = 20 Distance\_1\_Rule\_0 = 3 Distance\_2\_Rule\_0 = 1 Area\_1 = 174 Distance\_0\_Rule\_1 = 58 Distance\_1\_Rule\_1 = 3 Distance\_2\_Rule\_1 = 1 Area\_2 = 116 Distance\_0\_Rule\_2 = 58 Distance\_1\_Rule\_2 = 2 Distance\_2\_Rule\_2 = 1 Area\_3 = 58 Distance\_0\_Rule\_3 = 58 Distance\_1\_Rule\_3 = 1 Distance\_2\_Rule\_3 = 1 Area\_4 = 120 Distance\_0\_Rule\_4 = 40 Distance\_1\_Rule\_4 = 3 Distance\_2\_Rule\_4 = 1 Area\_5 = 120 Distance\_0\_Rule\_5 = 40 Distance\_1\_Rule\_5 = 3 Distance\_2\_Rule\_5 = 1 Area\_6 = 3 -(Rule\_6\_LB) = -79 Distance\_0\_Rule\_6 = 1 -(Rule\_6\_LB) = 0 Distance\_1\_Rule\_6 = 3 -(Rule\_6\_LB) = -1 Distance\_2\_Rule\_6 = 1 Area\_7 = 3 -(Rule\_7\_LB) = -79 Distance\_0\_Rule\_7 = 1 -(Rule\_7\_LB) = 0 Distance\_1\_Rule\_7 = 3 -(Rule\_7\_LB) = 0 Distance\_2\_Rule\_7 = 1 Area\_8 = 63 -(Rule\_8\_LB) = 0 Distance\_0\_Rule\_8 = 21 -(Rule\_8\_LB) = 0 Distance\_1\_Rule\_8 = 3 -(Rule\_8\_LB) = 0 Distance\_2\_Rule\_8 = 1 Area\_9 = 3 -(Rule\_9\_LB) = -20 Distance\_0\_Rule\_9 = 1 -(Rule\_9\_LB) = 0 Distance\_1\_Rule\_9 = 3 -(Rule\_9\_LB) = -1 Distance\_2\_Rule\_9 = 1 TMP\_684 = 720 .

- Solution #7 found. 7 Solutions, Resolution 1.391s, 719 Nodes (516.9 n/s), 1337 Backtracks, 670 Fails, 0 Restarts

Rule\_6\_LB = 79 Rule\_6\_UB = 80 Rule\_6\_LB = 0 Rule\_6\_UB = 3 Rule\_6\_LB = 1 Rule\_6\_UB = 2 Rule\_7\_LB = 79 Rule\_7\_UB = 80 Rule\_7\_LB = 0 Rule\_7\_UB = 3 Rule\_7\_LB = 0 Rule\_7\_UB = 1 Rule\_8\_LB = 0 Rule\_8\_UB = 21 Rule\_8\_LB = 0 Rule\_8\_UB = 3 Rule\_8\_LB = 0 Rule\_8\_UB = 1 Rule\_9\_LB = 20 Rule\_9\_UB = 21 Rule\_9\_LB = 0 Rule\_9\_UB = 3 Rule\_9\_LB = 1 Rule\_9\_UB = 2 Overlaps\_0\_0 = 0 Overlaps\_0\_1 = 0 Overlaps\_0\_2 = 0 Overlaps\_0\_3 = 0 Overlaps\_0\_4 = 0 Overlaps\_0\_5 = 0 Overlaps\_0\_6 = 0 Overlaps\_0\_7 = 0 Overlaps\_0\_8 = 0 Overlaps\_0\_9 = 0 Overlaps\_1\_0 = 0 Overlaps\_1\_1 = 0 Overlaps\_1\_2 = 0 Overlaps\_1\_3 = 0 Overlaps\_1\_4 = 1 Overlaps\_1\_5 = 0 Overlaps\_1\_6 = 0 Overlaps\_1\_7 = 0 Overlaps\_1\_8 = 0 Overlaps\_1\_9 = 0 Overlaps\_2\_0 = 0 Overlaps\_2\_1 = 0 Overlaps\_2\_2 = 0 Overlaps\_2\_3 = 0 Overlaps\_2\_4 = 0 Overlaps\_2\_5 = 0 Overlaps\_2\_6 = 0 Overlaps\_2\_7 = 0 Overlaps\_2\_8 = 0 Overlaps\_2\_9 = 0 Overlaps\_3\_0 = 0 Overlaps\_3\_1 = 0 Overlaps\_3\_2 = 0 Overlaps\_3\_3 = 0 Overlaps\_3\_4 = 0 Overlaps\_3\_5 = 0 Overlaps\_3\_6 = 0 Overlaps\_3\_7 = 0 Overlaps\_3\_8 = 0 Overlaps\_3\_9 = 0 Overlaps\_4\_0 = 0 Overlaps\_4\_1 = 0 Overlaps\_4\_2 = 0 Overlaps\_4\_3 = 0 Overlaps\_4\_4 = 0 Overlaps\_4\_5 = 0 Overlaps\_4\_6 = 0 Overlaps\_4\_7 = 0 Overlaps\_4\_8 = 0 Overlaps\_4\_9 = 0 Overlaps\_5\_0 = 1 Overlaps\_5\_1 = 0 Overlaps\_5\_2 = 0 Overlaps\_5\_3 = 0 Overlaps\_5\_4 = 0 Overlaps\_5\_5 = 0 Overlaps\_5\_6 = 0 Overlaps\_5\_7 = 0 Overlaps\_5\_8 = 0 Overlaps\_5\_9 = 0 Overlaps\_6\_0 = 0 Overlaps\_6\_1 = 0 Overlaps\_6\_2 = 0 Overlaps\_6\_3 = 0 Overlaps\_6\_4 = 0 Overlaps\_6\_5 = 0 Overlaps\_6\_6 = 0 Overlaps\_6\_7 = 0 Overlaps\_6\_8 = 0 Overlaps\_6\_9 = 0 Overlaps\_7\_0 = 0 Overlaps\_7\_1 = 0 Overlaps\_7\_2 = 0 Overlaps\_7\_3 = 0 Overlaps\_7\_4 = 0 Overlaps\_7\_5 = 0 Overlaps\_7\_6 = 0 Overlaps\_7\_7 = 0 Overlaps\_7\_8 = 0 Overlaps\_7\_9 = 0 Overlaps\_8\_0 = 0 Overlaps\_8\_1 = 0 Overlaps\_8\_2 = 0 Overlaps\_8\_3 = 0 Overlaps\_8\_4 = 0 Overlaps\_8\_5 = 0 Overlaps\_8\_6 = 0 Overlaps\_8\_7 = 0 Overlaps\_8\_8 = 0 Overlaps\_8\_9 = 0 Overlaps\_9\_0 = 0 Overlaps\_9\_1 = 0 Overlaps\_9\_2 = 0 Overlaps\_9\_3 = 0 Overlaps\_9\_4 = 0 Overlaps\_9\_5 = 0 Overlaps\_9\_6 = 0 Overlaps\_9\_7 = 0 Overlaps\_9\_8 = 0 Overlaps\_9\_9 = 0 TMP\_0 = 0 not(TMP\_0) = 1 TMP\_1 = 1 not(TMP\_1) = 0 TMP\_2 = 1 not(TMP\_2) = 0 TMP\_3 = 1 not(TMP\_3) = 0 TMP\_4 = 1 not(TMP\_4) = 0 TMP\_5 = 1 not(TMP\_5) = 0 TMP\_6 = 5 TMP\_7 = 0 not(TMP\_7) = 1 TMP\_8 = 0 not(TMP\_8) = 1 TMP\_9 = 0 TMP\_10 = 1 not(TMP\_10) = 0 TMP\_11 = 1 not(TMP\_11) = 0 TMP\_12 = 2 TMP\_13 = 0 not(TMP\_13) = 1 TMP\_14 = 0 not(TMP\_14) = 1 TMP\_15 = 1 not(TMP\_15) = 0 TMP\_16 = 1 not(TMP\_16) = 0 TMP\_17 = 1 not(TMP\_17) = 0 TMP\_18 = 2 TMP\_19 = 0 not(TMP\_19) = 1 TMP\_20 = 1 not(TMP\_20) = 0 TMP\_21 = 1 not(TMP\_21) = 0 TMP\_22 = 1 not(TMP\_22) = 0 TMP\_23 = 1 not(TMP\_23) = 0 TMP\_24 = 1 not(TMP\_24) = 0 TMP\_25 = 5 TMP\_26 = 0 not(TMP\_26) = 1 TMP\_27 = 0 not(TMP\_27) = 1 TMP\_28 = 0 TMP\_29 = 1 not(TMP\_29) = 0 TMP\_30 = 1 not(TMP\_30) = 0 TMP\_31 = 2 TMP\_32 = 0 not(TMP\_32) = 1 TMP\_33 = 0 not(TMP\_33) = 1 TMP\_34 = 1 not(TMP\_34) = 0 TMP\_35 = 1 not(TMP\_35) = 0 TMP\_36 = 1 not(TMP\_36) = 0 TMP\_37 = 2 TMP\_38 = 0 not(TMP\_38) = 1 TMP\_39 = 1 not(TMP\_39) = 0 TMP\_40 = 1 not(TMP\_40) = 0 TMP\_41 = 1 not(TMP\_41) = 0 TMP\_42 = 0 not(TMP\_42) = 1 TMP\_43 = 1 not(TMP\_43) = 0 TMP\_44 = 4 TMP\_45 = 0 not(TMP\_45) = 1 TMP\_46 = 0 not(TMP\_46) = 1 TMP\_47 = 0 TMP\_48 = 1 not(TMP\_48) = 0 TMP\_49 = 1 not(TMP\_49) = 0 TMP\_50 = 2 TMP\_51 = 0 not(TMP\_51) = 1 TMP\_52 = 0 not(TMP\_52) = 1 TMP\_53 = 1 not(TMP\_53) = 0 TMP\_54 = 1 not(TMP\_54) = 0 TMP\_55 = 1 not(TMP\_55) = 0 TMP\_56 = 2 TMP\_57 = 0 not(TMP\_57) = 1 TMP\_58 = 1 not(TMP\_58) = 0 TMP\_59 = 1 not(TMP\_59) = 0 TMP\_60 = 1 not(TMP\_60) = 0 TMP\_61 = 0 not(TMP\_61) = 1 TMP\_62 = 1 not(TMP\_62) = 0 TMP\_63 = 4 TMP\_64 = 0 not(TMP\_64) = 1 TMP\_65 = 0 not(TMP\_65) = 1 TMP\_66 = 0 TMP\_67 = 1 not(TMP\_67) = 0 TMP\_68 = 1 not(TMP\_68) = 0 TMP\_69 = 2 TMP\_70 = 0 not(TMP\_70) = 1 TMP\_71 = 0 not(TMP\_71) = 1 TMP\_72 = 1 not(TMP\_72) = 0 TMP\_73 = 1 not(TMP\_73) = 0 TMP\_74 = 1 not(TMP\_74) = 0 TMP\_75 = 2 TMP\_76 = 1 not(TMP\_76) = 0 TMP\_77 = 0 not(TMP\_77) = 1 TMP\_78 = 1 not(TMP\_78) = 0 TMP\_79 = 1 not(TMP\_79) = 0 TMP\_80 = 0 not(TMP\_80) = 1 TMP\_81 = 1 not(TMP\_81) = 0 TMP\_82 = 4 TMP\_83 = 0 not(TMP\_83) = 1 TMP\_84 = 0 not(TMP\_84) = 1 TMP\_85 = 0 TMP\_86 = 1 not(TMP\_86) = 0 TMP\_87 = 1 not(TMP\_87) = 0 TMP\_88 = 2 TMP\_89 = 0 not(TMP\_89) = 1 TMP\_90 = 0 not(TMP\_90) = 1 TMP\_91 = 1 not(TMP\_91) = 0 TMP\_92 = 1 not(TMP\_92) = 0 TMP\_93 = 1 not(TMP\_93) = 0 TMP\_94 = 2 TMP\_95 = 1 not(TMP\_95) = 0 TMP\_96 = 0 not(TMP\_96) = 1 TMP\_97 = 1 not(TMP\_97) = 0 TMP\_98 = 1 not(TMP\_98) = 0 TMP\_99 = 1 not(TMP\_99) = 0 TMP\_100 = 1 not(TMP\_100) = 0 TMP\_101 = 5 TMP\_102 = 0 not(TMP\_102) = 1 TMP\_103 = 0 not(TMP\_103) = 1 TMP\_104 = 0 TMP\_105 = 1 not(TMP\_105) = 0 TMP\_106 = 1 not(TMP\_106) = 0 TMP\_107 = 2 TMP\_108 = 0 not(TMP\_108) = 1 TMP\_109 = 0 not(TMP\_109) = 1 TMP\_110 = 1 not(TMP\_110) = 0 TMP\_111 = 1 not(TMP\_111) = 0 TMP\_112 = 1 not(TMP\_112) = 0 TMP\_113 = 2 TMP\_114 = 1 not(TMP\_114) = 0 TMP\_115 = 1 not(TMP\_115) = 0 TMP\_116 = 1 not(TMP\_116) = 0 TMP\_117 = 1 not(TMP\_117) = 0 TMP\_118 = 0 not(TMP\_118) = 1 TMP\_119 = 1 not(TMP\_119) = 0 TMP\_120 = 5 TMP\_121 = 0 not(TMP\_121) = 1 TMP\_122 = 0 not(TMP\_122) = 1 TMP\_123 = 0 TMP\_124 = 1 not(TMP\_124) = 0 TMP\_125 = 1 not(TMP\_125) = 0 TMP\_126 = 2 TMP\_127 = 0 not(TMP\_127) = 1 TMP\_128 = 0 not(TMP\_128) = 1 TMP\_129 = 1 not(TMP\_129) = 0 TMP\_130 = 1 not(TMP\_130) = 0 TMP\_131 = 1 not(TMP\_131) = 0 TMP\_132 = 2 TMP\_133 = 0 not(TMP\_133) = 1 TMP\_134 = 1 not(TMP\_134) = 0 TMP\_135 = 1 not(TMP\_135) = 0 TMP\_136 = 1 not(TMP\_136) = 0 TMP\_137 = 0 not(TMP\_137) = 1 TMP\_138 = 1 not(TMP\_138) = 0 TMP\_139 = 4 TMP\_140 = 0 not(TMP\_140) = 1 TMP\_141 = 0 not(TMP\_141) = 1 TMP\_142 = 0 TMP\_143 = 1 not(TMP\_143) = 0 TMP\_144 = 1 not(TMP\_144) = 0 TMP\_145 = 2 TMP\_146 = 0 not(TMP\_146) = 1 TMP\_147 = 0 not(TMP\_147) = 1 TMP\_148 = 1 not(TMP\_148) = 0 TMP\_149 = 1 not(TMP\_149) = 0 TMP\_150 = 1 not(TMP\_150) = 0 TMP\_151 = 2 TMP\_152 = 0 not(TMP\_152) = 1 TMP\_153 = 1 not(TMP\_153) = 0 TMP\_154 = 1 not(TMP\_154) = 0 TMP\_155 = 1 not(TMP\_155) = 0 TMP\_156 = 1 not(TMP\_156) = 0 TMP\_157 = 1 not(TMP\_157) = 0 TMP\_158 = 5 TMP\_159 = 0 not(TMP\_159) = 1 TMP\_160 = 0 not(TMP\_160) = 1 TMP\_161 = 0 TMP\_162 = 1 not(TMP\_162) = 0 TMP\_163 = 1 not(TMP\_163) = 0 TMP\_164 = 2 TMP\_165 = 0 not(TMP\_165) = 1 TMP\_166 = 0 not(TMP\_166) = 1 TMP\_167 = 1 not(TMP\_167) = 0 TMP\_168 = 1 not(TMP\_168) = 0 TMP\_169 = 1 not(TMP\_169) = 0 TMP\_170 = 2 TMP\_171 = 0 not(TMP\_171) = 1 TMP\_172 = 1 not(TMP\_172) = 0 TMP\_173 = 1 not(TMP\_173) = 0 TMP\_174 = 1 not(TMP\_174) = 0 TMP\_175 = 1 not(TMP\_175) = 0 TMP\_176 = 0 not(TMP\_176) = 1 TMP\_177 = 4 TMP\_178 = 0 not(TMP\_178) = 1 TMP\_179 = 0 not(TMP\_179) = 1 TMP\_180 = 0 TMP\_181 = 1 not(TMP\_181) = 0 TMP\_182 = 1 not(TMP\_182) = 0 TMP\_183 = 2 TMP\_184 = 0 not(TMP\_184) = 1 TMP\_185 = 0 not(TMP\_185) = 1 TMP\_186 = 1 not(TMP\_186) = 0 TMP\_187 = 1 not(TMP\_187) = 0 TMP\_188 = 1 not(TMP\_188) = 0 TMP\_189 = 2 TMP\_190 = 0 not(TMP\_190) = 1 TMP\_191 = 1 not(TMP\_191) = 0 TMP\_192 = 1 not(TMP\_192) = 0 TMP\_193 = 1 not(TMP\_193) = 0 TMP\_194 = 1 not(TMP\_194) = 0 TMP\_195 = 0 not(TMP\_195) = 1 TMP\_196 = 4 TMP\_197 = 0 not(TMP\_197) = 1 TMP\_198 = 0 not(TMP\_198) = 1 TMP\_199 = 0 TMP\_200 = 1 not(TMP\_200) = 0 TMP\_201 = 1 not(TMP\_201) = 0 TMP\_202 = 2 TMP\_203 = 0 not(TMP\_203) = 1 TMP\_204 = 0 not(TMP\_204) = 1 TMP\_205 = 1 not(TMP\_205) = 0 TMP\_206 = 1 not(TMP\_206) = 0 TMP\_207 = 1 not(TMP\_207) = 0 TMP\_208 = 2 TMP\_209 = 0 not(TMP\_209) = 1 TMP\_210 = 1 not(TMP\_210) = 0 TMP\_211 = 1 not(TMP\_211) = 0 TMP\_212 = 1 not(TMP\_212) = 0 TMP\_213 = 1 not(TMP\_213) = 0 TMP\_214 = 1 not(TMP\_214) = 0 TMP\_215 = 5 TMP\_216 = 0 not(TMP\_216) = 1 TMP\_217 = 0 not(TMP\_217) = 1 TMP\_218 = 0 TMP\_219 = 1 not(TMP\_219) = 0 TMP\_220 = 1 not(TMP\_220) = 0 TMP\_221 = 2 TMP\_222 = 0 not(TMP\_222) = 1 TMP\_223 = 0 not(TMP\_223) = 1 TMP\_224 = 1 not(TMP\_224) = 0 TMP\_225 = 1 not(TMP\_225) = 0 TMP\_226 = 1 not(TMP\_226) = 0 TMP\_227 = 2 TMP\_228 = 0 not(TMP\_228) = 1 TMP\_229 = 1 not(TMP\_229) = 0 TMP\_230 = 1 not(TMP\_230) = 0 TMP\_231 = 1 not(TMP\_231) = 0 TMP\_232 = 1 not(TMP\_232) = 0 TMP\_233 = 1 not(TMP\_233) = 0 TMP\_234 = 5 TMP\_235 = 0 not(TMP\_235) = 1 TMP\_236 = 0 not(TMP\_236) = 1 TMP\_237 = 0 TMP\_238 = 1 not(TMP\_238) = 0 TMP\_239 = 1 not(TMP\_239) = 0 TMP\_240 = 2 TMP\_241 = 0 not(TMP\_241) = 1 TMP\_242 = 0 not(TMP\_242) = 1 TMP\_243 = 1 not(TMP\_243) = 0 TMP\_244 = 1 not(TMP\_244) = 0 TMP\_245 = 1 not(TMP\_245) = 0 TMP\_246 = 2 TMP\_247 = 1 not(TMP\_247) = 0 TMP\_248 = 0 not(TMP\_248) = 1 TMP\_249 = 1 not(TMP\_249) = 0 TMP\_250 = 1 not(TMP\_250) = 0 TMP\_251 = 1 not(TMP\_251) = 0 TMP\_252 = 1 not(TMP\_252) = 0 TMP\_253 = 5 TMP\_254 = 0 not(TMP\_254) = 1 TMP\_255 = 0 not(TMP\_255) = 1 TMP\_256 = 0 TMP\_257 = 1 not(TMP\_257) = 0 TMP\_258 = 1 not(TMP\_258) = 0 TMP\_259 = 2 TMP\_260 = 0 not(TMP\_260) = 1 TMP\_261 = 0 not(TMP\_261) = 1 TMP\_262 = 1 not(TMP\_262) = 0 TMP\_263 = 1 not(TMP\_263) = 0 TMP\_264 = 1 not(TMP\_264) = 0 TMP\_265 = 2 TMP\_266 = 1 not(TMP\_266) = 0 TMP\_267 = 0 not(TMP\_267) = 1 TMP\_268 = 1 not(TMP\_268) = 0 TMP\_269 = 1 not(TMP\_269) = 0 TMP\_270 = 1 not(TMP\_270) = 0 TMP\_271 = 0 not(TMP\_271) = 1 TMP\_272 = 4 TMP\_273 = 0 not(TMP\_273) = 1 TMP\_274 = 0 not(TMP\_274) = 1 TMP\_275 = 0 TMP\_276 = 1 not(TMP\_276) = 0 TMP\_277 = 1 not(TMP\_277) = 0 TMP\_278 = 2 TMP\_279 = 0 not(TMP\_279) = 1 TMP\_280 = 0 not(TMP\_280) = 1 TMP\_281 = 1 not(TMP\_281) = 0 TMP\_282 = 1 not(TMP\_282) = 0 TMP\_283 = 1 not(TMP\_283) = 0 TMP\_284 = 2 TMP\_285 = 1 not(TMP\_285) = 0 TMP\_286 = 1 not(TMP\_286) = 0 TMP\_287 = 1 not(TMP\_287) = 0 TMP\_288 = 1 not(TMP\_288) = 0 TMP\_289 = 1 not(TMP\_289) = 0 TMP\_290 = 0 not(TMP\_290) = 1 TMP\_291 = 5 TMP\_292 = 0 not(TMP\_292) = 1 TMP\_293 = 0 not(TMP\_293) = 1 TMP\_294 = 0 TMP\_295 = 1 not(TMP\_295) = 0 TMP\_296 = 1 not(TMP\_296) = 0 TMP\_297 = 2 TMP\_298 = 0 not(TMP\_298) = 1 TMP\_299 = 0 not(TMP\_299) = 1 TMP\_300 = 1 not(TMP\_300) = 0 TMP\_301 = 1 not(TMP\_301) = 0 TMP\_302 = 1 not(TMP\_302) = 0 TMP\_303 = 2 TMP\_304 = 0 not(TMP\_304) = 1 TMP\_305 = 1 not(TMP\_305) = 0 TMP\_306 = 1 not(TMP\_306) = 0 TMP\_307 = 1 not(TMP\_307) = 0 TMP\_308 = 1 not(TMP\_308) = 0 TMP\_309 = 1 not(TMP\_309) = 0 TMP\_310 = 5 TMP\_311 = 0 not(TMP\_311) = 1 TMP\_312 = 0 not(TMP\_312) = 1 TMP\_313 = 0 TMP\_314 = 1 not(TMP\_314) = 0 TMP\_315 = 1 not(TMP\_315) = 0 TMP\_316 = 2 TMP\_317 = 0 not(TMP\_317) = 1 TMP\_318 = 0 not(TMP\_318) = 1 TMP\_319 = 1 not(TMP\_319) = 0 TMP\_320 = 1 not(TMP\_320) = 0 TMP\_321 = 1 not(TMP\_321) = 0 TMP\_322 = 2 TMP\_323 = 0 not(TMP\_323) = 1 TMP\_324 = 1 not(TMP\_324) = 0 TMP\_325 = 1 not(TMP\_325) = 0 TMP\_326 = 1 not(TMP\_326) = 0 TMP\_327 = 1 not(TMP\_327) = 0 TMP\_328 = 0 not(TMP\_328) = 1 TMP\_329 = 4 TMP\_330 = 0 not(TMP\_330) = 1 TMP\_331 = 0 not(TMP\_331) = 1 TMP\_332 = 0 TMP\_333 = 1 not(TMP\_333) = 0 TMP\_334 = 1 not(TMP\_334) = 0 TMP\_335 = 2 TMP\_336 = 0 not(TMP\_336) = 1 TMP\_337 = 0 not(TMP\_337) = 1 TMP\_338 = 1 not(TMP\_338) = 0 TMP\_339 = 1 not(TMP\_339) = 0 TMP\_340 = 1 not(TMP\_340) = 0 TMP\_341 = 2 TMP\_342 = 1 not(TMP\_342) = 0 TMP\_343 = 1 not(TMP\_343) = 0 TMP\_344 = 1 not(TMP\_344) = 0 TMP\_345 = 1 not(TMP\_345) = 0 TMP\_346 = 1 not(TMP\_346) = 0 TMP\_347 = 0 not(TMP\_347) = 1 TMP\_348 = 5 TMP\_349 = 0 not(TMP\_349) = 1 TMP\_350 = 0 not(TMP\_350) = 1 TMP\_351 = 0 TMP\_352 = 1 not(TMP\_352) = 0 TMP\_353 = 1 not(TMP\_353) = 0 TMP\_354 = 2 TMP\_355 = 0 not(TMP\_355) = 1 TMP\_356 = 0 not(TMP\_356) = 1 TMP\_357 = 1 not(TMP\_357) = 0 TMP\_358 = 1 not(TMP\_358) = 0 TMP\_359 = 1 not(TMP\_359) = 0 TMP\_360 = 2 TMP\_361 = 1 not(TMP\_361) = 0 TMP\_362 = 0 not(TMP\_362) = 1 TMP\_363 = 1 not(TMP\_363) = 0 TMP\_364 = 1 not(TMP\_364) = 0 TMP\_365 = 1 not(TMP\_365) = 0 TMP\_366 = 0 not(TMP\_366) = 1 TMP\_367 = 4 TMP\_368 = 0 not(TMP\_368) = 1 TMP\_369 = 0 not(TMP\_369) = 1 TMP\_370 = 0 TMP\_371 = 1 not(TMP\_371) = 0 TMP\_372 = 1 not(TMP\_372) = 0 TMP\_373 = 2 TMP\_374 = 0 not(TMP\_374) = 1 TMP\_375 = 0 not(TMP\_375) = 1 TMP\_376 = 1 not(TMP\_376) = 0 TMP\_377 = 1 not(TMP\_377) = 0 TMP\_378 = 1 not(TMP\_378) = 0 TMP\_379 = 2 TMP\_380 = 1 not(TMP\_380) = 0 TMP\_381 = 0 not(TMP\_381) = 1 TMP\_382 = 1 not(TMP\_382) = 0 TMP\_383 = 1 not(TMP\_383) = 0 TMP\_384 = 1 not(TMP\_384) = 0 TMP\_385 = 1 not(TMP\_385) = 0 TMP\_386 = 5 TMP\_387 = 0 not(TMP\_387) = 1 TMP\_388 = 0 not(TMP\_388) = 1 TMP\_389 = 0 TMP\_390 = 1 not(TMP\_390) = 0 TMP\_391 = 1 not(TMP\_391) = 0 TMP\_392 = 2 TMP\_393 = 0 not(TMP\_393) = 1 TMP\_394 = 0 not(TMP\_394) = 1 TMP\_395 = 1 not(TMP\_395) = 0 TMP\_396 = 1 not(TMP\_396) = 0 TMP\_397 = 1 not(TMP\_397) = 0 TMP\_398 = 2 TMP\_399 = 1 not(TMP\_399) = 0 TMP\_400 = 0 not(TMP\_400) = 1 TMP\_401 = 1 not(TMP\_401) = 0 TMP\_402 = 1 not(TMP\_402) = 0 TMP\_403 = 1 not(TMP\_403) = 0 TMP\_404 = 1 not(TMP\_404) = 0 TMP\_405 = 5 TMP\_406 = 0 not(TMP\_406) = 1 TMP\_407 = 0 not(TMP\_407) = 1 TMP\_408 = 0 TMP\_409 = 1 not(TMP\_409) = 0 TMP\_410 = 1 not(TMP\_410) = 0 TMP\_411 = 2 TMP\_412 = 0 not(TMP\_412) = 1 TMP\_413 = 0 not(TMP\_413) = 1 TMP\_414 = 1 not(TMP\_414) = 0 TMP\_415 = 1 not(TMP\_415) = 0 TMP\_416 = 1 not(TMP\_416) = 0 TMP\_417 = 2 TMP\_418 = 1 not(TMP\_418) = 0 TMP\_419 = 0 not(TMP\_419) = 1 TMP\_420 = 1 not(TMP\_420) = 0 TMP\_421 = 1 not(TMP\_421) = 0 TMP\_422 = 1 not(TMP\_422) = 0 TMP\_423 = 1 not(TMP\_423) = 0 TMP\_424 = 5 TMP\_425 = 0 not(TMP\_425) = 1 TMP\_426 = 0 not(TMP\_426) = 1 TMP\_427 = 0 TMP\_428 = 1 not(TMP\_428) = 0 TMP\_429 = 1 not(TMP\_429) = 0 TMP\_430 = 2 TMP\_431 = 0 not(TMP\_431) = 1 TMP\_432 = 0 not(TMP\_432) = 1 TMP\_433 = 1 not(TMP\_433) = 0 TMP\_434 = 1 not(TMP\_434) = 0 TMP\_435 = 1 not(TMP\_435) = 0 TMP\_436 = 2 TMP\_437 = 1 not(TMP\_437) = 0 TMP\_438 = 0 not(TMP\_438) = 1 TMP\_439 = 1 not(TMP\_439) = 0 TMP\_440 = 1 not(TMP\_440) = 0 TMP\_441 = 1 not(TMP\_441) = 0 TMP\_442 = 0 not(TMP\_442) = 1 TMP\_443 = 4 TMP\_444 = 0 not(TMP\_444) = 1 TMP\_445 = 0 not(TMP\_445) = 1 TMP\_446 = 0 TMP\_447 = 1 not(TMP\_447) = 0 TMP\_448 = 1 not(TMP\_448) = 0 TMP\_449 = 2 TMP\_450 = 0 not(TMP\_450) = 1 TMP\_451 = 0 not(TMP\_451) = 1 TMP\_452 = 1 not(TMP\_452) = 0 TMP\_453 = 1 not(TMP\_453) = 0 TMP\_454 = 1 not(TMP\_454) = 0 TMP\_455 = 2 TMP\_456 = 1 not(TMP\_456) = 0 TMP\_457 = 0 not(TMP\_457) = 1 TMP\_458 = 1 not(TMP\_458) = 0 TMP\_459 = 1 not(TMP\_459) = 0 TMP\_460 = 1 not(TMP\_460) = 0 TMP\_461 = 0 not(TMP\_461) = 1 TMP\_462 = 4 TMP\_463 = 0 not(TMP\_463) = 1 TMP\_464 = 0 not(TMP\_464) = 1 TMP\_465 = 0 TMP\_466 = 1 not(TMP\_466) = 0 TMP\_467 = 1 not(TMP\_467) = 0 TMP\_468 = 2 TMP\_469 = 0 not(TMP\_469) = 1 TMP\_470 = 0 not(TMP\_470) = 1 TMP\_471 = 1 not(TMP\_471) = 0 TMP\_472 = 1 not(TMP\_472) = 0 TMP\_473 = 1 not(TMP\_473) = 0 TMP\_474 = 2 TMP\_475 = 1 not(TMP\_475) = 0 TMP\_476 = 0 not(TMP\_476) = 1 TMP\_477 = 1 not(TMP\_477) = 0 TMP\_478 = 1 not(TMP\_478) = 0 TMP\_479 = 1 not(TMP\_479) = 0 TMP\_480 = 1 not(TMP\_480) = 0 TMP\_481 = 5 TMP\_482 = 0 not(TMP\_482) = 1 TMP\_483 = 0 not(TMP\_483) = 1 TMP\_484 = 0 TMP\_485 = 1 not(TMP\_485) = 0 TMP\_486 = 1 not(TMP\_486) = 0 TMP\_487 = 2 TMP\_488 = 0 not(TMP\_488) = 1 TMP\_489 = 0 not(TMP\_489) = 1 TMP\_490 = 1 not(TMP\_490) = 0 TMP\_491 = 1 not(TMP\_491) = 0 TMP\_492 = 1 not(TMP\_492) = 0 TMP\_493 = 2 TMP\_494 = 1 not(TMP\_494) = 0 TMP\_495 = 1 not(TMP\_495) = 0 TMP\_496 = 1 not(TMP\_496) = 0 TMP\_497 = 1 not(TMP\_497) = 0 TMP\_498 = 1 not(TMP\_498) = 0 TMP\_499 = 0 not(TMP\_499) = 1 TMP\_500 = 5 TMP\_501 = 0 not(TMP\_501) = 1 TMP\_502 = 0 not(TMP\_502) = 1 TMP\_503 = 0 TMP\_504 = 1 not(TMP\_504) = 0 TMP\_505 = 1 not(TMP\_505) = 0 TMP\_506 = 2 TMP\_507 = 0 not(TMP\_507) = 1 TMP\_508 = 0 not(TMP\_508) = 1 TMP\_509 = 1 not(TMP\_509) = 0 TMP\_510 = 1 not(TMP\_510) = 0 TMP\_511 = 1 not(TMP\_511) = 0 TMP\_512 = 2 TMP\_513 = 0 not(TMP\_513) = 1 TMP\_514 = 1 not(TMP\_514) = 0 TMP\_515 = 1 not(TMP\_515) = 0 TMP\_516 = 1 not(TMP\_516) = 0 TMP\_517 = 1 not(TMP\_517) = 0 TMP\_518 = 1 not(TMP\_518) = 0 TMP\_519 = 5 TMP\_520 = 0 not(TMP\_520) = 1 TMP\_521 = 0 not(TMP\_521) = 1 TMP\_522 = 0 TMP\_523 = 1 not(TMP\_523) = 0 TMP\_524 = 1 not(TMP\_524) = 0 TMP\_525 = 2 TMP\_526 = 0 not(TMP\_526) = 1 TMP\_527 = 0 not(TMP\_527) = 1 TMP\_528 = 1 not(TMP\_528) = 0 TMP\_529 = 1 not(TMP\_529) = 0 TMP\_530 = 1 not(TMP\_530) = 0 TMP\_531 = 2 TMP\_532 = 1 not(TMP\_532) = 0 TMP\_533 = 0 not(TMP\_533) = 1 TMP\_534 = 1 not(TMP\_534) = 0 TMP\_535 = 1 not(TMP\_535) = 0 TMP\_536 = 1 not(TMP\_536) = 0 TMP\_537 = 1 not(TMP\_537) = 0 TMP\_538 = 5 TMP\_539 = 0 not(TMP\_539) = 1 TMP\_540 = 0 not(TMP\_540) = 1 TMP\_541 = 0 TMP\_542 = 1 not(TMP\_542) = 0 TMP\_543 = 1 not(TMP\_543) = 0 TMP\_544 = 2 TMP\_545 = 0 not(TMP\_545) = 1 TMP\_546 = 0 not(TMP\_546) = 1 TMP\_547 = 1 not(TMP\_547) = 0 TMP\_548 = 1 not(TMP\_548) = 0 TMP\_549 = 1 not(TMP\_549) = 0 TMP\_550 = 2 TMP\_551 = 1 not(TMP\_551) = 0 TMP\_552 = 0 not(TMP\_552) = 1 TMP\_553 = 1 not(TMP\_553) = 0 TMP\_554 = 1 not(TMP\_554) = 0 TMP\_555 = 0 not(TMP\_555) = 1 TMP\_556 = 1 not(TMP\_556) = 0 TMP\_557 = 4 TMP\_558 = 0 not(TMP\_558) = 1 TMP\_559 = 0 not(TMP\_559) = 1 TMP\_560 = 0 TMP\_561 = 1 not(TMP\_561) = 0 TMP\_562 = 1 not(TMP\_562) = 0 TMP\_563 = 2 TMP\_564 = 0 not(TMP\_564) = 1 TMP\_565 = 0 not(TMP\_565) = 1 TMP\_566 = 1 not(TMP\_566) = 0 TMP\_567 = 1 not(TMP\_567) = 0 TMP\_568 = 1 not(TMP\_568) = 0 TMP\_569 = 2 TMP\_570 = 1 not(TMP\_570) = 0 TMP\_571 = 0 not(TMP\_571) = 1 TMP\_572 = 1 not(TMP\_572) = 0 TMP\_573 = 1 not(TMP\_573) = 0 TMP\_574 = 0 not(TMP\_574) = 1 TMP\_575 = 1 not(TMP\_575) = 0 TMP\_576 = 4 TMP\_577 = 0 not(TMP\_577) = 1 TMP\_578 = 0 not(TMP\_578) = 1 TMP\_579 = 0 TMP\_580 = 1 not(TMP\_580) = 0 TMP\_581 = 1 not(TMP\_581) = 0 TMP\_582 = 2 TMP\_583 = 0 not(TMP\_583) = 1 TMP\_584 = 0 not(TMP\_584) = 1 TMP\_585 = 1 not(TMP\_585) = 0 TMP\_586 = 1 not(TMP\_586) = 0 TMP\_587 = 1 not(TMP\_587) = 0 TMP\_588 = 2 TMP\_589 = 1 not(TMP\_589) = 0 TMP\_590 = 0 not(TMP\_590) = 1 TMP\_591 = 1 not(TMP\_591) = 0 TMP\_592 = 1 not(TMP\_592) = 0 TMP\_593 = 0 not(TMP\_593) = 1 TMP\_594 = 1 not(TMP\_594) = 0 TMP\_595 = 4 TMP\_596 = 0 not(TMP\_596) = 1 TMP\_597 = 0 not(TMP\_597) = 1 TMP\_598 = 0 TMP\_599 = 1 not(TMP\_599) = 0 TMP\_600 = 1 not(TMP\_600) = 0 TMP\_601 = 2 TMP\_602 = 0 not(TMP\_602) = 1 TMP\_603 = 0 not(TMP\_603) = 1 TMP\_604 = 1 not(TMP\_604) = 0 TMP\_605 = 1 not(TMP\_605) = 0 TMP\_606 = 1 not(TMP\_606) = 0 TMP\_607 = 2 TMP\_608 = 1 not(TMP\_608) = 0 TMP\_609 = 0 not(TMP\_609) = 1 TMP\_610 = 1 not(TMP\_610) = 0 TMP\_611 = 1 not(TMP\_611) = 0 TMP\_612 = 1 not(TMP\_612) = 0 TMP\_613 = 1 not(TMP\_613) = 0 TMP\_614 = 5 TMP\_615 = 0 not(TMP\_615) = 1 TMP\_616 = 0 not(TMP\_616) = 1 TMP\_617 = 0 TMP\_618 = 1 not(TMP\_618) = 0 TMP\_619 = 1 not(TMP\_619) = 0 TMP\_620 = 2 TMP\_621 = 0 not(TMP\_621) = 1 TMP\_622 = 0 not(TMP\_622) = 1 TMP\_623 = 1 not(TMP\_623) = 0 TMP\_624 = 1 not(TMP\_624) = 0 TMP\_625 = 1 not(TMP\_625) = 0 TMP\_626 = 2 TMP\_627 = 1 not(TMP\_627) = 0 TMP\_628 = 0 not(TMP\_628) = 1 TMP\_629 = 1 not(TMP\_629) = 0 TMP\_630 = 1 not(TMP\_630) = 0 TMP\_631 = 1 not(TMP\_631) = 0 TMP\_632 = 1 not(TMP\_632) = 0 TMP\_633 = 5 TMP\_634 = 0 not(TMP\_634) = 1 TMP\_635 = 0 not(TMP\_635) = 1 TMP\_636 = 0 TMP\_637 = 1 not(TMP\_637) = 0 TMP\_638 = 1 not(TMP\_638) = 0 TMP\_639 = 2 TMP\_640 = 0 not(TMP\_640) = 1 TMP\_641 = 0 not(TMP\_641) = 1 TMP\_642 = 1 not(TMP\_642) = 0 TMP\_643 = 1 not(TMP\_643) = 0 TMP\_644 = 1 not(TMP\_644) = 0 TMP\_645 = 2 TMP\_646 = 1 not(TMP\_646) = 0 TMP\_647 = 0 not(TMP\_647) = 1 TMP\_648 = 1 not(TMP\_648) = 0 TMP\_649 = 1 not(TMP\_649) = 0 TMP\_650 = 0 not(TMP\_650) = 1 TMP\_651 = 1 not(TMP\_651) = 0 TMP\_652 = 4 TMP\_653 = 0 not(TMP\_653) = 1 TMP\_654 = 0 not(TMP\_654) = 1 TMP\_655 = 0 TMP\_656 = 1 not(TMP\_656) = 0 TMP\_657 = 1 not(TMP\_657) = 0 TMP\_658 = 2 TMP\_659 = 0 not(TMP\_659) = 1 TMP\_660 = 0 not(TMP\_660) = 1 TMP\_661 = 1 not(TMP\_661) = 0 TMP\_662 = 1 not(TMP\_662) = 0 TMP\_663 = 1 not(TMP\_663) = 0 TMP\_664 = 2 TMP\_665 = 1 not(TMP\_665) = 0 TMP\_666 = 1 not(TMP\_666) = 0 TMP\_667 = 1 not(TMP\_667) = 0 TMP\_668 = 1 not(TMP\_668) = 0 TMP\_669 = 0 not(TMP\_669) = 1 TMP\_670 = 1 not(TMP\_670) = 0 TMP\_671 = 5 TMP\_672 = 0 not(TMP\_672) = 1 TMP\_673 = 0 not(TMP\_673) = 1 TMP\_674 = 0 TMP\_675 = 1 not(TMP\_675) = 0 TMP\_676 = 1 not(TMP\_676) = 0 TMP\_677 = 2 TMP\_678 = 0 not(TMP\_678) = 1 TMP\_679 = 0 not(TMP\_679) = 1 TMP\_680 = 1 not(TMP\_680) = 0 TMP\_681 = 1 not(TMP\_681) = 0 TMP\_682 = 1 not(TMP\_682) = 0 TMP\_683 = 2 Area\_0 = 60 Distance\_0\_Rule\_0 = 20 Distance\_1\_Rule\_0 = 3 Distance\_2\_Rule\_0 = 1 Area\_1 = 174 Distance\_0\_Rule\_1 = 58 Distance\_1\_Rule\_1 = 3 Distance\_2\_Rule\_1 = 1 Area\_2 = 116 Distance\_0\_Rule\_2 = 58 Distance\_1\_Rule\_2 = 2 Distance\_2\_Rule\_2 = 1 Area\_3 = 58 Distance\_0\_Rule\_3 = 58 Distance\_1\_Rule\_3 = 1 Distance\_2\_Rule\_3 = 1 Area\_4 = 120 Distance\_0\_Rule\_4 = 40 Distance\_1\_Rule\_4 = 3 Distance\_2\_Rule\_4 = 1 Area\_5 = 120 Distance\_0\_Rule\_5 = 40 Distance\_1\_Rule\_5 = 3 Distance\_2\_Rule\_5 = 1 Area\_6 = 3 -(Rule\_6\_LB) = -79 Distance\_0\_Rule\_6 = 1 -(Rule\_6\_LB) = 0 Distance\_1\_Rule\_6 = 3 -(Rule\_6\_LB) = -1 Distance\_2\_Rule\_6 = 1 Area\_7 = 3 -(Rule\_7\_LB) = -79 Distance\_0\_Rule\_7 = 1 -(Rule\_7\_LB) = 0 Distance\_1\_Rule\_7 = 3 -(Rule\_7\_LB) = 0 Distance\_2\_Rule\_7 = 1 Area\_8 = 63 -(Rule\_8\_LB) = 0 Distance\_0\_Rule\_8 = 21 -(Rule\_8\_LB) = 0 Distance\_1\_Rule\_8 = 3 -(Rule\_8\_LB) = 0 Distance\_2\_Rule\_8 = 1 Area\_9 = 3 -(Rule\_9\_LB) = -20 Distance\_0\_Rule\_9 = 1 -(Rule\_9\_LB) = 0 Distance\_1\_Rule\_9 = 3 -(Rule\_9\_LB) = -1 Distance\_2\_Rule\_9 = 1 TMP\_684 = 720 .

- Solution #8 found. 8 Solutions, Resolution 1.420s, 720 Nodes (507.2 n/s), 1338 Backtracks, 670 Fails, 0 Restarts

Rule\_6\_LB = 79 Rule\_6\_UB = 80 Rule\_6\_LB = 0 Rule\_6\_UB = 3 Rule\_6\_LB = 1 Rule\_6\_UB = 2 Rule\_7\_LB = 79 Rule\_7\_UB = 80 Rule\_7\_LB = 0 Rule\_7\_UB = 3 Rule\_7\_LB = 0 Rule\_7\_UB = 1 Rule\_8\_LB = 0 Rule\_8\_UB = 21 Rule\_8\_LB = 0 Rule\_8\_UB = 3 Rule\_8\_LB = 0 Rule\_8\_UB = 1 Rule\_9\_LB = 20 Rule\_9\_UB = 21 Rule\_9\_LB = 0 Rule\_9\_UB = 3 Rule\_9\_LB = 1 Rule\_9\_UB = 2 Overlaps\_0\_0 = 0 Overlaps\_0\_1 = 0 Overlaps\_0\_2 = 0 Overlaps\_0\_3 = 0 Overlaps\_0\_4 = 0 Overlaps\_0\_5 = 0 Overlaps\_0\_6 = 0 Overlaps\_0\_7 = 0 Overlaps\_0\_8 = 0 Overlaps\_0\_9 = 0 Overlaps\_1\_0 = 0 Overlaps\_1\_1 = 0 Overlaps\_1\_2 = 0 Overlaps\_1\_3 = 0 Overlaps\_1\_4 = 1 Overlaps\_1\_5 = 0 Overlaps\_1\_6 = 0 Overlaps\_1\_7 = 0 Overlaps\_1\_8 = 0 Overlaps\_1\_9 = 0 Overlaps\_2\_0 = 1 Overlaps\_2\_1 = 0 Overlaps\_2\_2 = 0 Overlaps\_2\_3 = 0 Overlaps\_2\_4 = 0 Overlaps\_2\_5 = 0 Overlaps\_2\_6 = 0 Overlaps\_2\_7 = 0 Overlaps\_2\_8 = 0 Overlaps\_2\_9 = 0 Overlaps\_3\_0 = 0 Overlaps\_3\_1 = 0 Overlaps\_3\_2 = 0 Overlaps\_3\_3 = 0 Overlaps\_3\_4 = 0 Overlaps\_3\_5 = 0 Overlaps\_3\_6 = 0 Overlaps\_3\_7 = 0 Overlaps\_3\_8 = 0 Overlaps\_3\_9 = 0 Overlaps\_4\_0 = 0 Overlaps\_4\_1 = 0 Overlaps\_4\_2 = 0 Overlaps\_4\_3 = 0 Overlaps\_4\_4 = 0 Overlaps\_4\_5 = 0 Overlaps\_4\_6 = 0 Overlaps\_4\_7 = 0 Overlaps\_4\_8 = 0 Overlaps\_4\_9 = 0 Overlaps\_5\_0 = 1 Overlaps\_5\_1 = 0 Overlaps\_5\_2 = 0 Overlaps\_5\_3 = 0 Overlaps\_5\_4 = 0 Overlaps\_5\_5 = 0 Overlaps\_5\_6 = 0 Overlaps\_5\_7 = 0 Overlaps\_5\_8 = 0 Overlaps\_5\_9 = 0 Overlaps\_6\_0 = 0 Overlaps\_6\_1 = 0 Overlaps\_6\_2 = 0 Overlaps\_6\_3 = 0 Overlaps\_6\_4 = 0 Overlaps\_6\_5 = 0 Overlaps\_6\_6 = 0 Overlaps\_6\_7 = 0 Overlaps\_6\_8 = 0 Overlaps\_6\_9 = 0 Overlaps\_7\_0 = 0 Overlaps\_7\_1 = 0 Overlaps\_7\_2 = 0 Overlaps\_7\_3 = 0 Overlaps\_7\_4 = 0 Overlaps\_7\_5 = 0 Overlaps\_7\_6 = 0 Overlaps\_7\_7 = 0 Overlaps\_7\_8 = 0 Overlaps\_7\_9 = 0 Overlaps\_8\_0 = 0 Overlaps\_8\_1 = 0 Overlaps\_8\_2 = 0 Overlaps\_8\_3 = 0 Overlaps\_8\_4 = 0 Overlaps\_8\_5 = 0 Overlaps\_8\_6 = 0 Overlaps\_8\_7 = 0 Overlaps\_8\_8 = 0 Overlaps\_8\_9 = 0 Overlaps\_9\_0 = 0 Overlaps\_9\_1 = 0 Overlaps\_9\_2 = 0 Overlaps\_9\_3 = 0 Overlaps\_9\_4 = 0 Overlaps\_9\_5 = 0 Overlaps\_9\_6 = 0 Overlaps\_9\_7 = 0 Overlaps\_9\_8 = 0 Overlaps\_9\_9 = 0 TMP\_0 = 0 not(TMP\_0) = 1 TMP\_1 = 1 not(TMP\_1) = 0 TMP\_2 = 1 not(TMP\_2) = 0 TMP\_3 = 1 not(TMP\_3) = 0 TMP\_4 = 1 not(TMP\_4) = 0 TMP\_5 = 1 not(TMP\_5) = 0 TMP\_6 = 5 TMP\_7 = 0 not(TMP\_7) = 1 TMP\_8 = 0 not(TMP\_8) = 1 TMP\_9 = 0 TMP\_10 = 1 not(TMP\_10) = 0 TMP\_11 = 1 not(TMP\_11) = 0 TMP\_12 = 2 TMP\_13 = 0 not(TMP\_13) = 1 TMP\_14 = 0 not(TMP\_14) = 1 TMP\_15 = 1 not(TMP\_15) = 0 TMP\_16 = 1 not(TMP\_16) = 0 TMP\_17 = 1 not(TMP\_17) = 0 TMP\_18 = 2 TMP\_19 = 0 not(TMP\_19) = 1 TMP\_20 = 1 not(TMP\_20) = 0 TMP\_21 = 1 not(TMP\_21) = 0 TMP\_22 = 1 not(TMP\_22) = 0 TMP\_23 = 1 not(TMP\_23) = 0 TMP\_24 = 1 not(TMP\_24) = 0 TMP\_25 = 5 TMP\_26 = 0 not(TMP\_26) = 1 TMP\_27 = 0 not(TMP\_27) = 1 TMP\_28 = 0 TMP\_29 = 1 not(TMP\_29) = 0 TMP\_30 = 1 not(TMP\_30) = 0 TMP\_31 = 2 TMP\_32 = 0 not(TMP\_32) = 1 TMP\_33 = 0 not(TMP\_33) = 1 TMP\_34 = 1 not(TMP\_34) = 0 TMP\_35 = 1 not(TMP\_35) = 0 TMP\_36 = 1 not(TMP\_36) = 0 TMP\_37 = 2 TMP\_38 = 0 not(TMP\_38) = 1 TMP\_39 = 1 not(TMP\_39) = 0 TMP\_40 = 1 not(TMP\_40) = 0 TMP\_41 = 1 not(TMP\_41) = 0 TMP\_42 = 0 not(TMP\_42) = 1 TMP\_43 = 1 not(TMP\_43) = 0 TMP\_44 = 4 TMP\_45 = 0 not(TMP\_45) = 1 TMP\_46 = 0 not(TMP\_46) = 1 TMP\_47 = 0 TMP\_48 = 1 not(TMP\_48) = 0 TMP\_49 = 1 not(TMP\_49) = 0 TMP\_50 = 2 TMP\_51 = 0 not(TMP\_51) = 1 TMP\_52 = 0 not(TMP\_52) = 1 TMP\_53 = 1 not(TMP\_53) = 0 TMP\_54 = 1 not(TMP\_54) = 0 TMP\_55 = 1 not(TMP\_55) = 0 TMP\_56 = 2 TMP\_57 = 0 not(TMP\_57) = 1 TMP\_58 = 1 not(TMP\_58) = 0 TMP\_59 = 1 not(TMP\_59) = 0 TMP\_60 = 1 not(TMP\_60) = 0 TMP\_61 = 0 not(TMP\_61) = 1 TMP\_62 = 1 not(TMP\_62) = 0 TMP\_63 = 4 TMP\_64 = 0 not(TMP\_64) = 1 TMP\_65 = 0 not(TMP\_65) = 1 TMP\_66 = 0 TMP\_67 = 1 not(TMP\_67) = 0 TMP\_68 = 1 not(TMP\_68) = 0 TMP\_69 = 2 TMP\_70 = 0 not(TMP\_70) = 1 TMP\_71 = 0 not(TMP\_71) = 1 TMP\_72 = 1 not(TMP\_72) = 0 TMP\_73 = 1 not(TMP\_73) = 0 TMP\_74 = 1 not(TMP\_74) = 0 TMP\_75 = 2 TMP\_76 = 1 not(TMP\_76) = 0 TMP\_77 = 0 not(TMP\_77) = 1 TMP\_78 = 1 not(TMP\_78) = 0 TMP\_79 = 1 not(TMP\_79) = 0 TMP\_80 = 0 not(TMP\_80) = 1 TMP\_81 = 1 not(TMP\_81) = 0 TMP\_82 = 4 TMP\_83 = 0 not(TMP\_83) = 1 TMP\_84 = 0 not(TMP\_84) = 1 TMP\_85 = 0 TMP\_86 = 1 not(TMP\_86) = 0 TMP\_87 = 1 not(TMP\_87) = 0 TMP\_88 = 2 TMP\_89 = 0 not(TMP\_89) = 1 TMP\_90 = 0 not(TMP\_90) = 1 TMP\_91 = 1 not(TMP\_91) = 0 TMP\_92 = 1 not(TMP\_92) = 0 TMP\_93 = 1 not(TMP\_93) = 0 TMP\_94 = 2 TMP\_95 = 1 not(TMP\_95) = 0 TMP\_96 = 0 not(TMP\_96) = 1 TMP\_97 = 1 not(TMP\_97) = 0 TMP\_98 = 1 not(TMP\_98) = 0 TMP\_99 = 1 not(TMP\_99) = 0 TMP\_100 = 1 not(TMP\_100) = 0 TMP\_101 = 5 TMP\_102 = 0 not(TMP\_102) = 1 TMP\_103 = 0 not(TMP\_103) = 1 TMP\_104 = 0 TMP\_105 = 1 not(TMP\_105) = 0 TMP\_106 = 1 not(TMP\_106) = 0 TMP\_107 = 2 TMP\_108 = 0 not(TMP\_108) = 1 TMP\_109 = 0 not(TMP\_109) = 1 TMP\_110 = 1 not(TMP\_110) = 0 TMP\_111 = 1 not(TMP\_111) = 0 TMP\_112 = 1 not(TMP\_112) = 0 TMP\_113 = 2 TMP\_114 = 1 not(TMP\_114) = 0 TMP\_115 = 1 not(TMP\_115) = 0 TMP\_116 = 1 not(TMP\_116) = 0 TMP\_117 = 1 not(TMP\_117) = 0 TMP\_118 = 0 not(TMP\_118) = 1 TMP\_119 = 1 not(TMP\_119) = 0 TMP\_120 = 5 TMP\_121 = 0 not(TMP\_121) = 1 TMP\_122 = 0 not(TMP\_122) = 1 TMP\_123 = 0 TMP\_124 = 1 not(TMP\_124) = 0 TMP\_125 = 1 not(TMP\_125) = 0 TMP\_126 = 2 TMP\_127 = 0 not(TMP\_127) = 1 TMP\_128 = 0 not(TMP\_128) = 1 TMP\_129 = 1 not(TMP\_129) = 0 TMP\_130 = 1 not(TMP\_130) = 0 TMP\_131 = 1 not(TMP\_131) = 0 TMP\_132 = 2 TMP\_133 = 0 not(TMP\_133) = 1 TMP\_134 = 1 not(TMP\_134) = 0 TMP\_135 = 1 not(TMP\_135) = 0 TMP\_136 = 1 not(TMP\_136) = 0 TMP\_137 = 0 not(TMP\_137) = 1 TMP\_138 = 1 not(TMP\_138) = 0 TMP\_139 = 4 TMP\_140 = 0 not(TMP\_140) = 1 TMP\_141 = 0 not(TMP\_141) = 1 TMP\_142 = 0 TMP\_143 = 1 not(TMP\_143) = 0 TMP\_144 = 1 not(TMP\_144) = 0 TMP\_145 = 2 TMP\_146 = 0 not(TMP\_146) = 1 TMP\_147 = 0 not(TMP\_147) = 1 TMP\_148 = 1 not(TMP\_148) = 0 TMP\_149 = 1 not(TMP\_149) = 0 TMP\_150 = 1 not(TMP\_150) = 0 TMP\_151 = 2 TMP\_152 = 0 not(TMP\_152) = 1 TMP\_153 = 1 not(TMP\_153) = 0 TMP\_154 = 1 not(TMP\_154) = 0 TMP\_155 = 1 not(TMP\_155) = 0 TMP\_156 = 1 not(TMP\_156) = 0 TMP\_157 = 1 not(TMP\_157) = 0 TMP\_158 = 5 TMP\_159 = 0 not(TMP\_159) = 1 TMP\_160 = 0 not(TMP\_160) = 1 TMP\_161 = 0 TMP\_162 = 1 not(TMP\_162) = 0 TMP\_163 = 1 not(TMP\_163) = 0 TMP\_164 = 2 TMP\_165 = 0 not(TMP\_165) = 1 TMP\_166 = 0 not(TMP\_166) = 1 TMP\_167 = 1 not(TMP\_167) = 0 TMP\_168 = 1 not(TMP\_168) = 0 TMP\_169 = 1 not(TMP\_169) = 0 TMP\_170 = 2 TMP\_171 = 0 not(TMP\_171) = 1 TMP\_172 = 1 not(TMP\_172) = 0 TMP\_173 = 1 not(TMP\_173) = 0 TMP\_174 = 1 not(TMP\_174) = 0 TMP\_175 = 1 not(TMP\_175) = 0 TMP\_176 = 0 not(TMP\_176) = 1 TMP\_177 = 4 TMP\_178 = 0 not(TMP\_178) = 1 TMP\_179 = 0 not(TMP\_179) = 1 TMP\_180 = 0 TMP\_181 = 1 not(TMP\_181) = 0 TMP\_182 = 1 not(TMP\_182) = 0 TMP\_183 = 2 TMP\_184 = 0 not(TMP\_184) = 1 TMP\_185 = 0 not(TMP\_185) = 1 TMP\_186 = 1 not(TMP\_186) = 0 TMP\_187 = 1 not(TMP\_187) = 0 TMP\_188 = 1 not(TMP\_188) = 0 TMP\_189 = 2 TMP\_190 = 0 not(TMP\_190) = 1 TMP\_191 = 1 not(TMP\_191) = 0 TMP\_192 = 1 not(TMP\_192) = 0 TMP\_193 = 1 not(TMP\_193) = 0 TMP\_194 = 1 not(TMP\_194) = 0 TMP\_195 = 0 not(TMP\_195) = 1 TMP\_196 = 4 TMP\_197 = 0 not(TMP\_197) = 1 TMP\_198 = 0 not(TMP\_198) = 1 TMP\_199 = 0 TMP\_200 = 1 not(TMP\_200) = 0 TMP\_201 = 1 not(TMP\_201) = 0 TMP\_202 = 2 TMP\_203 = 0 not(TMP\_203) = 1 TMP\_204 = 0 not(TMP\_204) = 1 TMP\_205 = 1 not(TMP\_205) = 0 TMP\_206 = 1 not(TMP\_206) = 0 TMP\_207 = 1 not(TMP\_207) = 0 TMP\_208 = 2 TMP\_209 = 0 not(TMP\_209) = 1 TMP\_210 = 1 not(TMP\_210) = 0 TMP\_211 = 1 not(TMP\_211) = 0 TMP\_212 = 1 not(TMP\_212) = 0 TMP\_213 = 1 not(TMP\_213) = 0 TMP\_214 = 1 not(TMP\_214) = 0 TMP\_215 = 5 TMP\_216 = 0 not(TMP\_216) = 1 TMP\_217 = 0 not(TMP\_217) = 1 TMP\_218 = 0 TMP\_219 = 1 not(TMP\_219) = 0 TMP\_220 = 1 not(TMP\_220) = 0 TMP\_221 = 2 TMP\_222 = 0 not(TMP\_222) = 1 TMP\_223 = 0 not(TMP\_223) = 1 TMP\_224 = 1 not(TMP\_224) = 0 TMP\_225 = 1 not(TMP\_225) = 0 TMP\_226 = 1 not(TMP\_226) = 0 TMP\_227 = 2 TMP\_228 = 0 not(TMP\_228) = 1 TMP\_229 = 1 not(TMP\_229) = 0 TMP\_230 = 1 not(TMP\_230) = 0 TMP\_231 = 1 not(TMP\_231) = 0 TMP\_232 = 1 not(TMP\_232) = 0 TMP\_233 = 1 not(TMP\_233) = 0 TMP\_234 = 5 TMP\_235 = 0 not(TMP\_235) = 1 TMP\_236 = 0 not(TMP\_236) = 1 TMP\_237 = 0 TMP\_238 = 1 not(TMP\_238) = 0 TMP\_239 = 1 not(TMP\_239) = 0 TMP\_240 = 2 TMP\_241 = 0 not(TMP\_241) = 1 TMP\_242 = 0 not(TMP\_242) = 1 TMP\_243 = 1 not(TMP\_243) = 0 TMP\_244 = 1 not(TMP\_244) = 0 TMP\_245 = 1 not(TMP\_245) = 0 TMP\_246 = 2 TMP\_247 = 1 not(TMP\_247) = 0 TMP\_248 = 0 not(TMP\_248) = 1 TMP\_249 = 1 not(TMP\_249) = 0 TMP\_250 = 1 not(TMP\_250) = 0 TMP\_251 = 1 not(TMP\_251) = 0 TMP\_252 = 1 not(TMP\_252) = 0 TMP\_253 = 5 TMP\_254 = 0 not(TMP\_254) = 1 TMP\_255 = 0 not(TMP\_255) = 1 TMP\_256 = 0 TMP\_257 = 1 not(TMP\_257) = 0 TMP\_258 = 1 not(TMP\_258) = 0 TMP\_259 = 2 TMP\_260 = 0 not(TMP\_260) = 1 TMP\_261 = 0 not(TMP\_261) = 1 TMP\_262 = 1 not(TMP\_262) = 0 TMP\_263 = 1 not(TMP\_263) = 0 TMP\_264 = 1 not(TMP\_264) = 0 TMP\_265 = 2 TMP\_266 = 1 not(TMP\_266) = 0 TMP\_267 = 0 not(TMP\_267) = 1 TMP\_268 = 1 not(TMP\_268) = 0 TMP\_269 = 1 not(TMP\_269) = 0 TMP\_270 = 1 not(TMP\_270) = 0 TMP\_271 = 0 not(TMP\_271) = 1 TMP\_272 = 4 TMP\_273 = 0 not(TMP\_273) = 1 TMP\_274 = 0 not(TMP\_274) = 1 TMP\_275 = 0 TMP\_276 = 1 not(TMP\_276) = 0 TMP\_277 = 1 not(TMP\_277) = 0 TMP\_278 = 2 TMP\_279 = 0 not(TMP\_279) = 1 TMP\_280 = 0 not(TMP\_280) = 1 TMP\_281 = 1 not(TMP\_281) = 0 TMP\_282 = 1 not(TMP\_282) = 0 TMP\_283 = 1 not(TMP\_283) = 0 TMP\_284 = 2 TMP\_285 = 1 not(TMP\_285) = 0 TMP\_286 = 1 not(TMP\_286) = 0 TMP\_287 = 1 not(TMP\_287) = 0 TMP\_288 = 1 not(TMP\_288) = 0 TMP\_289 = 1 not(TMP\_289) = 0 TMP\_290 = 0 not(TMP\_290) = 1 TMP\_291 = 5 TMP\_292 = 0 not(TMP\_292) = 1 TMP\_293 = 0 not(TMP\_293) = 1 TMP\_294 = 0 TMP\_295 = 1 not(TMP\_295) = 0 TMP\_296 = 1 not(TMP\_296) = 0 TMP\_297 = 2 TMP\_298 = 0 not(TMP\_298) = 1 TMP\_299 = 0 not(TMP\_299) = 1 TMP\_300 = 1 not(TMP\_300) = 0 TMP\_301 = 1 not(TMP\_301) = 0 TMP\_302 = 1 not(TMP\_302) = 0 TMP\_303 = 2 TMP\_304 = 0 not(TMP\_304) = 1 TMP\_305 = 1 not(TMP\_305) = 0 TMP\_306 = 1 not(TMP\_306) = 0 TMP\_307 = 1 not(TMP\_307) = 0 TMP\_308 = 1 not(TMP\_308) = 0 TMP\_309 = 1 not(TMP\_309) = 0 TMP\_310 = 5 TMP\_311 = 0 not(TMP\_311) = 1 TMP\_312 = 0 not(TMP\_312) = 1 TMP\_313 = 0 TMP\_314 = 1 not(TMP\_314) = 0 TMP\_315 = 1 not(TMP\_315) = 0 TMP\_316 = 2 TMP\_317 = 0 not(TMP\_317) = 1 TMP\_318 = 0 not(TMP\_318) = 1 TMP\_319 = 1 not(TMP\_319) = 0 TMP\_320 = 1 not(TMP\_320) = 0 TMP\_321 = 1 not(TMP\_321) = 0 TMP\_322 = 2 TMP\_323 = 0 not(TMP\_323) = 1 TMP\_324 = 1 not(TMP\_324) = 0 TMP\_325 = 1 not(TMP\_325) = 0 TMP\_326 = 1 not(TMP\_326) = 0 TMP\_327 = 1 not(TMP\_327) = 0 TMP\_328 = 0 not(TMP\_328) = 1 TMP\_329 = 4 TMP\_330 = 0 not(TMP\_330) = 1 TMP\_331 = 0 not(TMP\_331) = 1 TMP\_332 = 0 TMP\_333 = 1 not(TMP\_333) = 0 TMP\_334 = 1 not(TMP\_334) = 0 TMP\_335 = 2 TMP\_336 = 0 not(TMP\_336) = 1 TMP\_337 = 0 not(TMP\_337) = 1 TMP\_338 = 1 not(TMP\_338) = 0 TMP\_339 = 1 not(TMP\_339) = 0 TMP\_340 = 1 not(TMP\_340) = 0 TMP\_341 = 2 TMP\_342 = 1 not(TMP\_342) = 0 TMP\_343 = 1 not(TMP\_343) = 0 TMP\_344 = 1 not(TMP\_344) = 0 TMP\_345 = 1 not(TMP\_345) = 0 TMP\_346 = 1 not(TMP\_346) = 0 TMP\_347 = 0 not(TMP\_347) = 1 TMP\_348 = 5 TMP\_349 = 0 not(TMP\_349) = 1 TMP\_350 = 0 not(TMP\_350) = 1 TMP\_351 = 0 TMP\_352 = 1 not(TMP\_352) = 0 TMP\_353 = 1 not(TMP\_353) = 0 TMP\_354 = 2 TMP\_355 = 0 not(TMP\_355) = 1 TMP\_356 = 0 not(TMP\_356) = 1 TMP\_357 = 1 not(TMP\_357) = 0 TMP\_358 = 1 not(TMP\_358) = 0 TMP\_359 = 1 not(TMP\_359) = 0 TMP\_360 = 2 TMP\_361 = 1 not(TMP\_361) = 0 TMP\_362 = 0 not(TMP\_362) = 1 TMP\_363 = 1 not(TMP\_363) = 0 TMP\_364 = 1 not(TMP\_364) = 0 TMP\_365 = 1 not(TMP\_365) = 0 TMP\_366 = 0 not(TMP\_366) = 1 TMP\_367 = 4 TMP\_368 = 0 not(TMP\_368) = 1 TMP\_369 = 0 not(TMP\_369) = 1 TMP\_370 = 0 TMP\_371 = 1 not(TMP\_371) = 0 TMP\_372 = 1 not(TMP\_372) = 0 TMP\_373 = 2 TMP\_374 = 0 not(TMP\_374) = 1 TMP\_375 = 0 not(TMP\_375) = 1 TMP\_376 = 1 not(TMP\_376) = 0 TMP\_377 = 1 not(TMP\_377) = 0 TMP\_378 = 1 not(TMP\_378) = 0 TMP\_379 = 2 TMP\_380 = 1 not(TMP\_380) = 0 TMP\_381 = 0 not(TMP\_381) = 1 TMP\_382 = 1 not(TMP\_382) = 0 TMP\_383 = 1 not(TMP\_383) = 0 TMP\_384 = 1 not(TMP\_384) = 0 TMP\_385 = 1 not(TMP\_385) = 0 TMP\_386 = 5 TMP\_387 = 0 not(TMP\_387) = 1 TMP\_388 = 0 not(TMP\_388) = 1 TMP\_389 = 0 TMP\_390 = 1 not(TMP\_390) = 0 TMP\_391 = 1 not(TMP\_391) = 0 TMP\_392 = 2 TMP\_393 = 0 not(TMP\_393) = 1 TMP\_394 = 0 not(TMP\_394) = 1 TMP\_395 = 1 not(TMP\_395) = 0 TMP\_396 = 1 not(TMP\_396) = 0 TMP\_397 = 1 not(TMP\_397) = 0 TMP\_398 = 2 TMP\_399 = 1 not(TMP\_399) = 0 TMP\_400 = 0 not(TMP\_400) = 1 TMP\_401 = 1 not(TMP\_401) = 0 TMP\_402 = 1 not(TMP\_402) = 0 TMP\_403 = 1 not(TMP\_403) = 0 TMP\_404 = 1 not(TMP\_404) = 0 TMP\_405 = 5 TMP\_406 = 0 not(TMP\_406) = 1 TMP\_407 = 0 not(TMP\_407) = 1 TMP\_408 = 0 TMP\_409 = 1 not(TMP\_409) = 0 TMP\_410 = 1 not(TMP\_410) = 0 TMP\_411 = 2 TMP\_412 = 0 not(TMP\_412) = 1 TMP\_413 = 0 not(TMP\_413) = 1 TMP\_414 = 1 not(TMP\_414) = 0 TMP\_415 = 1 not(TMP\_415) = 0 TMP\_416 = 1 not(TMP\_416) = 0 TMP\_417 = 2 TMP\_418 = 1 not(TMP\_418) = 0 TMP\_419 = 0 not(TMP\_419) = 1 TMP\_420 = 1 not(TMP\_420) = 0 TMP\_421 = 1 not(TMP\_421) = 0 TMP\_422 = 1 not(TMP\_422) = 0 TMP\_423 = 1 not(TMP\_423) = 0 TMP\_424 = 5 TMP\_425 = 0 not(TMP\_425) = 1 TMP\_426 = 0 not(TMP\_426) = 1 TMP\_427 = 0 TMP\_428 = 1 not(TMP\_428) = 0 TMP\_429 = 1 not(TMP\_429) = 0 TMP\_430 = 2 TMP\_431 = 0 not(TMP\_431) = 1 TMP\_432 = 0 not(TMP\_432) = 1 TMP\_433 = 1 not(TMP\_433) = 0 TMP\_434 = 1 not(TMP\_434) = 0 TMP\_435 = 1 not(TMP\_435) = 0 TMP\_436 = 2 TMP\_437 = 1 not(TMP\_437) = 0 TMP\_438 = 0 not(TMP\_438) = 1 TMP\_439 = 1 not(TMP\_439) = 0 TMP\_440 = 1 not(TMP\_440) = 0 TMP\_441 = 1 not(TMP\_441) = 0 TMP\_442 = 0 not(TMP\_442) = 1 TMP\_443 = 4 TMP\_444 = 0 not(TMP\_444) = 1 TMP\_445 = 0 not(TMP\_445) = 1 TMP\_446 = 0 TMP\_447 = 1 not(TMP\_447) = 0 TMP\_448 = 1 not(TMP\_448) = 0 TMP\_449 = 2 TMP\_450 = 0 not(TMP\_450) = 1 TMP\_451 = 0 not(TMP\_451) = 1 TMP\_452 = 1 not(TMP\_452) = 0 TMP\_453 = 1 not(TMP\_453) = 0 TMP\_454 = 1 not(TMP\_454) = 0 TMP\_455 = 2 TMP\_456 = 1 not(TMP\_456) = 0 TMP\_457 = 0 not(TMP\_457) = 1 TMP\_458 = 1 not(TMP\_458) = 0 TMP\_459 = 1 not(TMP\_459) = 0 TMP\_460 = 1 not(TMP\_460) = 0 TMP\_461 = 0 not(TMP\_461) = 1 TMP\_462 = 4 TMP\_463 = 0 not(TMP\_463) = 1 TMP\_464 = 0 not(TMP\_464) = 1 TMP\_465 = 0 TMP\_466 = 1 not(TMP\_466) = 0 TMP\_467 = 1 not(TMP\_467) = 0 TMP\_468 = 2 TMP\_469 = 0 not(TMP\_469) = 1 TMP\_470 = 0 not(TMP\_470) = 1 TMP\_471 = 1 not(TMP\_471) = 0 TMP\_472 = 1 not(TMP\_472) = 0 TMP\_473 = 1 not(TMP\_473) = 0 TMP\_474 = 2 TMP\_475 = 1 not(TMP\_475) = 0 TMP\_476 = 0 not(TMP\_476) = 1 TMP\_477 = 1 not(TMP\_477) = 0 TMP\_478 = 1 not(TMP\_478) = 0 TMP\_479 = 1 not(TMP\_479) = 0 TMP\_480 = 1 not(TMP\_480) = 0 TMP\_481 = 5 TMP\_482 = 0 not(TMP\_482) = 1 TMP\_483 = 0 not(TMP\_483) = 1 TMP\_484 = 0 TMP\_485 = 1 not(TMP\_485) = 0 TMP\_486 = 1 not(TMP\_486) = 0 TMP\_487 = 2 TMP\_488 = 0 not(TMP\_488) = 1 TMP\_489 = 0 not(TMP\_489) = 1 TMP\_490 = 1 not(TMP\_490) = 0 TMP\_491 = 1 not(TMP\_491) = 0 TMP\_492 = 1 not(TMP\_492) = 0 TMP\_493 = 2 TMP\_494 = 1 not(TMP\_494) = 0 TMP\_495 = 1 not(TMP\_495) = 0 TMP\_496 = 1 not(TMP\_496) = 0 TMP\_497 = 1 not(TMP\_497) = 0 TMP\_498 = 1 not(TMP\_498) = 0 TMP\_499 = 0 not(TMP\_499) = 1 TMP\_500 = 5 TMP\_501 = 0 not(TMP\_501) = 1 TMP\_502 = 0 not(TMP\_502) = 1 TMP\_503 = 0 TMP\_504 = 1 not(TMP\_504) = 0 TMP\_505 = 1 not(TMP\_505) = 0 TMP\_506 = 2 TMP\_507 = 0 not(TMP\_507) = 1 TMP\_508 = 0 not(TMP\_508) = 1 TMP\_509 = 1 not(TMP\_509) = 0 TMP\_510 = 1 not(TMP\_510) = 0 TMP\_511 = 1 not(TMP\_511) = 0 TMP\_512 = 2 TMP\_513 = 0 not(TMP\_513) = 1 TMP\_514 = 1 not(TMP\_514) = 0 TMP\_515 = 1 not(TMP\_515) = 0 TMP\_516 = 1 not(TMP\_516) = 0 TMP\_517 = 1 not(TMP\_517) = 0 TMP\_518 = 1 not(TMP\_518) = 0 TMP\_519 = 5 TMP\_520 = 0 not(TMP\_520) = 1 TMP\_521 = 0 not(TMP\_521) = 1 TMP\_522 = 0 TMP\_523 = 1 not(TMP\_523) = 0 TMP\_524 = 1 not(TMP\_524) = 0 TMP\_525 = 2 TMP\_526 = 0 not(TMP\_526) = 1 TMP\_527 = 0 not(TMP\_527) = 1 TMP\_528 = 1 not(TMP\_528) = 0 TMP\_529 = 1 not(TMP\_529) = 0 TMP\_530 = 1 not(TMP\_530) = 0 TMP\_531 = 2 TMP\_532 = 1 not(TMP\_532) = 0 TMP\_533 = 0 not(TMP\_533) = 1 TMP\_534 = 1 not(TMP\_534) = 0 TMP\_535 = 1 not(TMP\_535) = 0 TMP\_536 = 1 not(TMP\_536) = 0 TMP\_537 = 1 not(TMP\_537) = 0 TMP\_538 = 5 TMP\_539 = 0 not(TMP\_539) = 1 TMP\_540 = 0 not(TMP\_540) = 1 TMP\_541 = 0 TMP\_542 = 1 not(TMP\_542) = 0 TMP\_543 = 1 not(TMP\_543) = 0 TMP\_544 = 2 TMP\_545 = 0 not(TMP\_545) = 1 TMP\_546 = 0 not(TMP\_546) = 1 TMP\_547 = 1 not(TMP\_547) = 0 TMP\_548 = 1 not(TMP\_548) = 0 TMP\_549 = 1 not(TMP\_549) = 0 TMP\_550 = 2 TMP\_551 = 1 not(TMP\_551) = 0 TMP\_552 = 0 not(TMP\_552) = 1 TMP\_553 = 1 not(TMP\_553) = 0 TMP\_554 = 1 not(TMP\_554) = 0 TMP\_555 = 0 not(TMP\_555) = 1 TMP\_556 = 1 not(TMP\_556) = 0 TMP\_557 = 4 TMP\_558 = 0 not(TMP\_558) = 1 TMP\_559 = 0 not(TMP\_559) = 1 TMP\_560 = 0 TMP\_561 = 1 not(TMP\_561) = 0 TMP\_562 = 1 not(TMP\_562) = 0 TMP\_563 = 2 TMP\_564 = 0 not(TMP\_564) = 1 TMP\_565 = 0 not(TMP\_565) = 1 TMP\_566 = 1 not(TMP\_566) = 0 TMP\_567 = 1 not(TMP\_567) = 0 TMP\_568 = 1 not(TMP\_568) = 0 TMP\_569 = 2 TMP\_570 = 1 not(TMP\_570) = 0 TMP\_571 = 0 not(TMP\_571) = 1 TMP\_572 = 1 not(TMP\_572) = 0 TMP\_573 = 1 not(TMP\_573) = 0 TMP\_574 = 0 not(TMP\_574) = 1 TMP\_575 = 1 not(TMP\_575) = 0 TMP\_576 = 4 TMP\_577 = 0 not(TMP\_577) = 1 TMP\_578 = 0 not(TMP\_578) = 1 TMP\_579 = 0 TMP\_580 = 1 not(TMP\_580) = 0 TMP\_581 = 1 not(TMP\_581) = 0 TMP\_582 = 2 TMP\_583 = 0 not(TMP\_583) = 1 TMP\_584 = 0 not(TMP\_584) = 1 TMP\_585 = 1 not(TMP\_585) = 0 TMP\_586 = 1 not(TMP\_586) = 0 TMP\_587 = 1 not(TMP\_587) = 0 TMP\_588 = 2 TMP\_589 = 1 not(TMP\_589) = 0 TMP\_590 = 0 not(TMP\_590) = 1 TMP\_591 = 1 not(TMP\_591) = 0 TMP\_592 = 1 not(TMP\_592) = 0 TMP\_593 = 0 not(TMP\_593) = 1 TMP\_594 = 1 not(TMP\_594) = 0 TMP\_595 = 4 TMP\_596 = 0 not(TMP\_596) = 1 TMP\_597 = 0 not(TMP\_597) = 1 TMP\_598 = 0 TMP\_599 = 1 not(TMP\_599) = 0 TMP\_600 = 1 not(TMP\_600) = 0 TMP\_601 = 2 TMP\_602 = 0 not(TMP\_602) = 1 TMP\_603 = 0 not(TMP\_603) = 1 TMP\_604 = 1 not(TMP\_604) = 0 TMP\_605 = 1 not(TMP\_605) = 0 TMP\_606 = 1 not(TMP\_606) = 0 TMP\_607 = 2 TMP\_608 = 1 not(TMP\_608) = 0 TMP\_609 = 0 not(TMP\_609) = 1 TMP\_610 = 1 not(TMP\_610) = 0 TMP\_611 = 1 not(TMP\_611) = 0 TMP\_612 = 1 not(TMP\_612) = 0 TMP\_613 = 1 not(TMP\_613) = 0 TMP\_614 = 5 TMP\_615 = 0 not(TMP\_615) = 1 TMP\_616 = 0 not(TMP\_616) = 1 TMP\_617 = 0 TMP\_618 = 1 not(TMP\_618) = 0 TMP\_619 = 1 not(TMP\_619) = 0 TMP\_620 = 2 TMP\_621 = 0 not(TMP\_621) = 1 TMP\_622 = 0 not(TMP\_622) = 1 TMP\_623 = 1 not(TMP\_623) = 0 TMP\_624 = 1 not(TMP\_624) = 0 TMP\_625 = 1 not(TMP\_625) = 0 TMP\_626 = 2 TMP\_627 = 1 not(TMP\_627) = 0 TMP\_628 = 0 not(TMP\_628) = 1 TMP\_629 = 1 not(TMP\_629) = 0 TMP\_630 = 1 not(TMP\_630) = 0 TMP\_631 = 1 not(TMP\_631) = 0 TMP\_632 = 1 not(TMP\_632) = 0 TMP\_633 = 5 TMP\_634 = 0 not(TMP\_634) = 1 TMP\_635 = 0 not(TMP\_635) = 1 TMP\_636 = 0 TMP\_637 = 1 not(TMP\_637) = 0 TMP\_638 = 1 not(TMP\_638) = 0 TMP\_639 = 2 TMP\_640 = 0 not(TMP\_640) = 1 TMP\_641 = 0 not(TMP\_641) = 1 TMP\_642 = 1 not(TMP\_642) = 0 TMP\_643 = 1 not(TMP\_643) = 0 TMP\_644 = 1 not(TMP\_644) = 0 TMP\_645 = 2 TMP\_646 = 1 not(TMP\_646) = 0 TMP\_647 = 0 not(TMP\_647) = 1 TMP\_648 = 1 not(TMP\_648) = 0 TMP\_649 = 1 not(TMP\_649) = 0 TMP\_650 = 0 not(TMP\_650) = 1 TMP\_651 = 1 not(TMP\_651) = 0 TMP\_652 = 4 TMP\_653 = 0 not(TMP\_653) = 1 TMP\_654 = 0 not(TMP\_654) = 1 TMP\_655 = 0 TMP\_656 = 1 not(TMP\_656) = 0 TMP\_657 = 1 not(TMP\_657) = 0 TMP\_658 = 2 TMP\_659 = 0 not(TMP\_659) = 1 TMP\_660 = 0 not(TMP\_660) = 1 TMP\_661 = 1 not(TMP\_661) = 0 TMP\_662 = 1 not(TMP\_662) = 0 TMP\_663 = 1 not(TMP\_663) = 0 TMP\_664 = 2 TMP\_665 = 1 not(TMP\_665) = 0 TMP\_666 = 1 not(TMP\_666) = 0 TMP\_667 = 1 not(TMP\_667) = 0 TMP\_668 = 1 not(TMP\_668) = 0 TMP\_669 = 0 not(TMP\_669) = 1 TMP\_670 = 1 not(TMP\_670) = 0 TMP\_671 = 5 TMP\_672 = 0 not(TMP\_672) = 1 TMP\_673 = 0 not(TMP\_673) = 1 TMP\_674 = 0 TMP\_675 = 1 not(TMP\_675) = 0 TMP\_676 = 1 not(TMP\_676) = 0 TMP\_677 = 2 TMP\_678 = 0 not(TMP\_678) = 1 TMP\_679 = 0 not(TMP\_679) = 1 TMP\_680 = 1 not(TMP\_680) = 0 TMP\_681 = 1 not(TMP\_681) = 0 TMP\_682 = 1 not(TMP\_682) = 0 TMP\_683 = 2 Area\_0 = 60 Distance\_0\_Rule\_0 = 20 Distance\_1\_Rule\_0 = 3 Distance\_2\_Rule\_0 = 1 Area\_1 = 174 Distance\_0\_Rule\_1 = 58 Distance\_1\_Rule\_1 = 3 Distance\_2\_Rule\_1 = 1 Area\_2 = 116 Distance\_0\_Rule\_2 = 58 Distance\_1\_Rule\_2 = 2 Distance\_2\_Rule\_2 = 1 Area\_3 = 58 Distance\_0\_Rule\_3 = 58 Distance\_1\_Rule\_3 = 1 Distance\_2\_Rule\_3 = 1 Area\_4 = 120 Distance\_0\_Rule\_4 = 40 Distance\_1\_Rule\_4 = 3 Distance\_2\_Rule\_4 = 1 Area\_5 = 120 Distance\_0\_Rule\_5 = 40 Distance\_1\_Rule\_5 = 3 Distance\_2\_Rule\_5 = 1 Area\_6 = 3 -(Rule\_6\_LB) = -79 Distance\_0\_Rule\_6 = 1 -(Rule\_6\_LB) = 0 Distance\_1\_Rule\_6 = 3 -(Rule\_6\_LB) = -1 Distance\_2\_Rule\_6 = 1 Area\_7 = 3 -(Rule\_7\_LB) = -79 Distance\_0\_Rule\_7 = 1 -(Rule\_7\_LB) = 0 Distance\_1\_Rule\_7 = 3 -(Rule\_7\_LB) = 0 Distance\_2\_Rule\_7 = 1 Area\_8 = 63 -(Rule\_8\_LB) = 0 Distance\_0\_Rule\_8 = 21 -(Rule\_8\_LB) = 0 Distance\_1\_Rule\_8 = 3 -(Rule\_8\_LB) = 0 Distance\_2\_Rule\_8 = 1 Area\_9 = 3 -(Rule\_9\_LB) = -20 Distance\_0\_Rule\_9 = 1 -(Rule\_9\_LB) = 0 Distance\_1\_Rule\_9 = 3 -(Rule\_9\_LB) = -1 Distance\_2\_Rule\_9 = 1 TMP\_684 = 720 .

- Solution #9 found. 9 Solutions, Resolution 1.441s, 724 Nodes (502.4 n/s), 1342 Backtracks, 670 Fails, 0 Restarts

Rule\_6\_LB = 79 Rule\_6\_UB = 80 Rule\_6\_LB = 0 Rule\_6\_UB = 3 Rule\_6\_LB = 1 Rule\_6\_UB = 2 Rule\_7\_LB = 79 Rule\_7\_UB = 80 Rule\_7\_LB = 0 Rule\_7\_UB = 3 Rule\_7\_LB = 0 Rule\_7\_UB = 1 Rule\_8\_LB = 0 Rule\_8\_UB = 21 Rule\_8\_LB = 0 Rule\_8\_UB = 3 Rule\_8\_LB = 0 Rule\_8\_UB = 1 Rule\_9\_LB = 20 Rule\_9\_UB = 21 Rule\_9\_LB = 0 Rule\_9\_UB = 3 Rule\_9\_LB = 1 Rule\_9\_UB = 2 Overlaps\_0\_0 = 0 Overlaps\_0\_1 = 0 Overlaps\_0\_2 = 0 Overlaps\_0\_3 = 0 Overlaps\_0\_4 = 0 Overlaps\_0\_5 = 0 Overlaps\_0\_6 = 0 Overlaps\_0\_7 = 0 Overlaps\_0\_8 = 0 Overlaps\_0\_9 = 0 Overlaps\_1\_0 = 0 Overlaps\_1\_1 = 0 Overlaps\_1\_2 = 1 Overlaps\_1\_3 = 0 Overlaps\_1\_4 = 0 Overlaps\_1\_5 = 0 Overlaps\_1\_6 = 0 Overlaps\_1\_7 = 0 Overlaps\_1\_8 = 0 Overlaps\_1\_9 = 0 Overlaps\_2\_0 = 0 Overlaps\_2\_1 = 0 Overlaps\_2\_2 = 0 Overlaps\_2\_3 = 0 Overlaps\_2\_4 = 0 Overlaps\_2\_5 = 0 Overlaps\_2\_6 = 0 Overlaps\_2\_7 = 0 Overlaps\_2\_8 = 0 Overlaps\_2\_9 = 0 Overlaps\_3\_0 = 0 Overlaps\_3\_1 = 0 Overlaps\_3\_2 = 0 Overlaps\_3\_3 = 0 Overlaps\_3\_4 = 0 Overlaps\_3\_5 = 0 Overlaps\_3\_6 = 0 Overlaps\_3\_7 = 0 Overlaps\_3\_8 = 0 Overlaps\_3\_9 = 0 Overlaps\_4\_0 = 0 Overlaps\_4\_1 = 0 Overlaps\_4\_2 = 0 Overlaps\_4\_3 = 0 Overlaps\_4\_4 = 0 Overlaps\_4\_5 = 0 Overlaps\_4\_6 = 0 Overlaps\_4\_7 = 0 Overlaps\_4\_8 = 0 Overlaps\_4\_9 = 0 Overlaps\_5\_0 = 0 Overlaps\_5\_1 = 0 Overlaps\_5\_2 = 0 Overlaps\_5\_3 = 0 Overlaps\_5\_4 = 0 Overlaps\_5\_5 = 0 Overlaps\_5\_6 = 0 Overlaps\_5\_7 = 0 Overlaps\_5\_8 = 0 Overlaps\_5\_9 = 0 Overlaps\_6\_0 = 0 Overlaps\_6\_1 = 0 Overlaps\_6\_2 = 0 Overlaps\_6\_3 = 0 Overlaps\_6\_4 = 0 Overlaps\_6\_5 = 0 Overlaps\_6\_6 = 0 Overlaps\_6\_7 = 0 Overlaps\_6\_8 = 0 Overlaps\_6\_9 = 0 Overlaps\_7\_0 = 0 Overlaps\_7\_1 = 0 Overlaps\_7\_2 = 0 Overlaps\_7\_3 = 0 Overlaps\_7\_4 = 0 Overlaps\_7\_5 = 0 Overlaps\_7\_6 = 0 Overlaps\_7\_7 = 0 Overlaps\_7\_8 = 0 Overlaps\_7\_9 = 0 Overlaps\_8\_0 = 0 Overlaps\_8\_1 = 0 Overlaps\_8\_2 = 0 Overlaps\_8\_3 = 0 Overlaps\_8\_4 = 0 Overlaps\_8\_5 = 0 Overlaps\_8\_6 = 0 Overlaps\_8\_7 = 0 Overlaps\_8\_8 = 0 Overlaps\_8\_9 = 0 Overlaps\_9\_0 = 0 Overlaps\_9\_1 = 0 Overlaps\_9\_2 = 0 Overlaps\_9\_3 = 0 Overlaps\_9\_4 = 0 Overlaps\_9\_5 = 0 Overlaps\_9\_6 = 0 Overlaps\_9\_7 = 0 Overlaps\_9\_8 = 0 Overlaps\_9\_9 = 0 TMP\_0 = 0 not(TMP\_0) = 1 TMP\_1 = 1 not(TMP\_1) = 0 TMP\_2 = 1 not(TMP\_2) = 0 TMP\_3 = 1 not(TMP\_3) = 0 TMP\_4 = 1 not(TMP\_4) = 0 TMP\_5 = 1 not(TMP\_5) = 0 TMP\_6 = 5 TMP\_7 = 0 not(TMP\_7) = 1 TMP\_8 = 0 not(TMP\_8) = 1 TMP\_9 = 0 TMP\_10 = 1 not(TMP\_10) = 0 TMP\_11 = 1 not(TMP\_11) = 0 TMP\_12 = 2 TMP\_13 = 0 not(TMP\_13) = 1 TMP\_14 = 0 not(TMP\_14) = 1 TMP\_15 = 1 not(TMP\_15) = 0 TMP\_16 = 1 not(TMP\_16) = 0 TMP\_17 = 1 not(TMP\_17) = 0 TMP\_18 = 2 TMP\_19 = 0 not(TMP\_19) = 1 TMP\_20 = 1 not(TMP\_20) = 0 TMP\_21 = 1 not(TMP\_21) = 0 TMP\_22 = 1 not(TMP\_22) = 0 TMP\_23 = 1 not(TMP\_23) = 0 TMP\_24 = 1 not(TMP\_24) = 0 TMP\_25 = 5 TMP\_26 = 0 not(TMP\_26) = 1 TMP\_27 = 0 not(TMP\_27) = 1 TMP\_28 = 0 TMP\_29 = 1 not(TMP\_29) = 0 TMP\_30 = 1 not(TMP\_30) = 0 TMP\_31 = 2 TMP\_32 = 0 not(TMP\_32) = 1 TMP\_33 = 0 not(TMP\_33) = 1 TMP\_34 = 1 not(TMP\_34) = 0 TMP\_35 = 1 not(TMP\_35) = 0 TMP\_36 = 1 not(TMP\_36) = 0 TMP\_37 = 2 TMP\_38 = 0 not(TMP\_38) = 1 TMP\_39 = 1 not(TMP\_39) = 0 TMP\_40 = 1 not(TMP\_40) = 0 TMP\_41 = 1 not(TMP\_41) = 0 TMP\_42 = 0 not(TMP\_42) = 1 TMP\_43 = 1 not(TMP\_43) = 0 TMP\_44 = 4 TMP\_45 = 0 not(TMP\_45) = 1 TMP\_46 = 0 not(TMP\_46) = 1 TMP\_47 = 0 TMP\_48 = 1 not(TMP\_48) = 0 TMP\_49 = 1 not(TMP\_49) = 0 TMP\_50 = 2 TMP\_51 = 0 not(TMP\_51) = 1 TMP\_52 = 0 not(TMP\_52) = 1 TMP\_53 = 1 not(TMP\_53) = 0 TMP\_54 = 1 not(TMP\_54) = 0 TMP\_55 = 1 not(TMP\_55) = 0 TMP\_56 = 2 TMP\_57 = 0 not(TMP\_57) = 1 TMP\_58 = 1 not(TMP\_58) = 0 TMP\_59 = 1 not(TMP\_59) = 0 TMP\_60 = 1 not(TMP\_60) = 0 TMP\_61 = 0 not(TMP\_61) = 1 TMP\_62 = 1 not(TMP\_62) = 0 TMP\_63 = 4 TMP\_64 = 0 not(TMP\_64) = 1 TMP\_65 = 0 not(TMP\_65) = 1 TMP\_66 = 0 TMP\_67 = 1 not(TMP\_67) = 0 TMP\_68 = 1 not(TMP\_68) = 0 TMP\_69 = 2 TMP\_70 = 0 not(TMP\_70) = 1 TMP\_71 = 0 not(TMP\_71) = 1 TMP\_72 = 1 not(TMP\_72) = 0 TMP\_73 = 1 not(TMP\_73) = 0 TMP\_74 = 1 not(TMP\_74) = 0 TMP\_75 = 2 TMP\_76 = 1 not(TMP\_76) = 0 TMP\_77 = 0 not(TMP\_77) = 1 TMP\_78 = 1 not(TMP\_78) = 0 TMP\_79 = 1 not(TMP\_79) = 0 TMP\_80 = 0 not(TMP\_80) = 1 TMP\_81 = 1 not(TMP\_81) = 0 TMP\_82 = 4 TMP\_83 = 0 not(TMP\_83) = 1 TMP\_84 = 0 not(TMP\_84) = 1 TMP\_85 = 0 TMP\_86 = 1 not(TMP\_86) = 0 TMP\_87 = 1 not(TMP\_87) = 0 TMP\_88 = 2 TMP\_89 = 0 not(TMP\_89) = 1 TMP\_90 = 0 not(TMP\_90) = 1 TMP\_91 = 1 not(TMP\_91) = 0 TMP\_92 = 1 not(TMP\_92) = 0 TMP\_93 = 1 not(TMP\_93) = 0 TMP\_94 = 2 TMP\_95 = 1 not(TMP\_95) = 0 TMP\_96 = 0 not(TMP\_96) = 1 TMP\_97 = 1 not(TMP\_97) = 0 TMP\_98 = 1 not(TMP\_98) = 0 TMP\_99 = 1 not(TMP\_99) = 0 TMP\_100 = 1 not(TMP\_100) = 0 TMP\_101 = 5 TMP\_102 = 0 not(TMP\_102) = 1 TMP\_103 = 0 not(TMP\_103) = 1 TMP\_104 = 0 TMP\_105 = 1 not(TMP\_105) = 0 TMP\_106 = 1 not(TMP\_106) = 0 TMP\_107 = 2 TMP\_108 = 0 not(TMP\_108) = 1 TMP\_109 = 0 not(TMP\_109) = 1 TMP\_110 = 1 not(TMP\_110) = 0 TMP\_111 = 1 not(TMP\_111) = 0 TMP\_112 = 1 not(TMP\_112) = 0 TMP\_113 = 2 TMP\_114 = 1 not(TMP\_114) = 0 TMP\_115 = 1 not(TMP\_115) = 0 TMP\_116 = 1 not(TMP\_116) = 0 TMP\_117 = 1 not(TMP\_117) = 0 TMP\_118 = 0 not(TMP\_118) = 1 TMP\_119 = 1 not(TMP\_119) = 0 TMP\_120 = 5 TMP\_121 = 0 not(TMP\_121) = 1 TMP\_122 = 0 not(TMP\_122) = 1 TMP\_123 = 0 TMP\_124 = 1 not(TMP\_124) = 0 TMP\_125 = 1 not(TMP\_125) = 0 TMP\_126 = 2 TMP\_127 = 0 not(TMP\_127) = 1 TMP\_128 = 0 not(TMP\_128) = 1 TMP\_129 = 1 not(TMP\_129) = 0 TMP\_130 = 1 not(TMP\_130) = 0 TMP\_131 = 1 not(TMP\_131) = 0 TMP\_132 = 2 TMP\_133 = 0 not(TMP\_133) = 1 TMP\_134 = 1 not(TMP\_134) = 0 TMP\_135 = 1 not(TMP\_135) = 0 TMP\_136 = 1 not(TMP\_136) = 0 TMP\_137 = 0 not(TMP\_137) = 1 TMP\_138 = 1 not(TMP\_138) = 0 TMP\_139 = 4 TMP\_140 = 0 not(TMP\_140) = 1 TMP\_141 = 0 not(TMP\_141) = 1 TMP\_142 = 0 TMP\_143 = 1 not(TMP\_143) = 0 TMP\_144 = 1 not(TMP\_144) = 0 TMP\_145 = 2 TMP\_146 = 0 not(TMP\_146) = 1 TMP\_147 = 0 not(TMP\_147) = 1 TMP\_148 = 1 not(TMP\_148) = 0 TMP\_149 = 1 not(TMP\_149) = 0 TMP\_150 = 1 not(TMP\_150) = 0 TMP\_151 = 2 TMP\_152 = 0 not(TMP\_152) = 1 TMP\_153 = 1 not(TMP\_153) = 0 TMP\_154 = 1 not(TMP\_154) = 0 TMP\_155 = 1 not(TMP\_155) = 0 TMP\_156 = 1 not(TMP\_156) = 0 TMP\_157 = 1 not(TMP\_157) = 0 TMP\_158 = 5 TMP\_159 = 0 not(TMP\_159) = 1 TMP\_160 = 0 not(TMP\_160) = 1 TMP\_161 = 0 TMP\_162 = 1 not(TMP\_162) = 0 TMP\_163 = 1 not(TMP\_163) = 0 TMP\_164 = 2 TMP\_165 = 0 not(TMP\_165) = 1 TMP\_166 = 0 not(TMP\_166) = 1 TMP\_167 = 1 not(TMP\_167) = 0 TMP\_168 = 1 not(TMP\_168) = 0 TMP\_169 = 1 not(TMP\_169) = 0 TMP\_170 = 2 TMP\_171 = 0 not(TMP\_171) = 1 TMP\_172 = 1 not(TMP\_172) = 0 TMP\_173 = 1 not(TMP\_173) = 0 TMP\_174 = 1 not(TMP\_174) = 0 TMP\_175 = 1 not(TMP\_175) = 0 TMP\_176 = 0 not(TMP\_176) = 1 TMP\_177 = 4 TMP\_178 = 0 not(TMP\_178) = 1 TMP\_179 = 0 not(TMP\_179) = 1 TMP\_180 = 0 TMP\_181 = 1 not(TMP\_181) = 0 TMP\_182 = 1 not(TMP\_182) = 0 TMP\_183 = 2 TMP\_184 = 0 not(TMP\_184) = 1 TMP\_185 = 0 not(TMP\_185) = 1 TMP\_186 = 1 not(TMP\_186) = 0 TMP\_187 = 1 not(TMP\_187) = 0 TMP\_188 = 1 not(TMP\_188) = 0 TMP\_189 = 2 TMP\_190 = 0 not(TMP\_190) = 1 TMP\_191 = 1 not(TMP\_191) = 0 TMP\_192 = 1 not(TMP\_192) = 0 TMP\_193 = 1 not(TMP\_193) = 0 TMP\_194 = 1 not(TMP\_194) = 0 TMP\_195 = 0 not(TMP\_195) = 1 TMP\_196 = 4 TMP\_197 = 0 not(TMP\_197) = 1 TMP\_198 = 0 not(TMP\_198) = 1 TMP\_199 = 0 TMP\_200 = 1 not(TMP\_200) = 0 TMP\_201 = 1 not(TMP\_201) = 0 TMP\_202 = 2 TMP\_203 = 0 not(TMP\_203) = 1 TMP\_204 = 0 not(TMP\_204) = 1 TMP\_205 = 1 not(TMP\_205) = 0 TMP\_206 = 1 not(TMP\_206) = 0 TMP\_207 = 1 not(TMP\_207) = 0 TMP\_208 = 2 TMP\_209 = 0 not(TMP\_209) = 1 TMP\_210 = 1 not(TMP\_210) = 0 TMP\_211 = 1 not(TMP\_211) = 0 TMP\_212 = 1 not(TMP\_212) = 0 TMP\_213 = 1 not(TMP\_213) = 0 TMP\_214 = 1 not(TMP\_214) = 0 TMP\_215 = 5 TMP\_216 = 0 not(TMP\_216) = 1 TMP\_217 = 0 not(TMP\_217) = 1 TMP\_218 = 0 TMP\_219 = 1 not(TMP\_219) = 0 TMP\_220 = 1 not(TMP\_220) = 0 TMP\_221 = 2 TMP\_222 = 0 not(TMP\_222) = 1 TMP\_223 = 0 not(TMP\_223) = 1 TMP\_224 = 1 not(TMP\_224) = 0 TMP\_225 = 1 not(TMP\_225) = 0 TMP\_226 = 1 not(TMP\_226) = 0 TMP\_227 = 2 TMP\_228 = 0 not(TMP\_228) = 1 TMP\_229 = 1 not(TMP\_229) = 0 TMP\_230 = 1 not(TMP\_230) = 0 TMP\_231 = 1 not(TMP\_231) = 0 TMP\_232 = 1 not(TMP\_232) = 0 TMP\_233 = 1 not(TMP\_233) = 0 TMP\_234 = 5 TMP\_235 = 0 not(TMP\_235) = 1 TMP\_236 = 0 not(TMP\_236) = 1 TMP\_237 = 0 TMP\_238 = 1 not(TMP\_238) = 0 TMP\_239 = 1 not(TMP\_239) = 0 TMP\_240 = 2 TMP\_241 = 0 not(TMP\_241) = 1 TMP\_242 = 0 not(TMP\_242) = 1 TMP\_243 = 1 not(TMP\_243) = 0 TMP\_244 = 1 not(TMP\_244) = 0 TMP\_245 = 1 not(TMP\_245) = 0 TMP\_246 = 2 TMP\_247 = 1 not(TMP\_247) = 0 TMP\_248 = 0 not(TMP\_248) = 1 TMP\_249 = 1 not(TMP\_249) = 0 TMP\_250 = 1 not(TMP\_250) = 0 TMP\_251 = 1 not(TMP\_251) = 0 TMP\_252 = 1 not(TMP\_252) = 0 TMP\_253 = 5 TMP\_254 = 0 not(TMP\_254) = 1 TMP\_255 = 0 not(TMP\_255) = 1 TMP\_256 = 0 TMP\_257 = 1 not(TMP\_257) = 0 TMP\_258 = 1 not(TMP\_258) = 0 TMP\_259 = 2 TMP\_260 = 0 not(TMP\_260) = 1 TMP\_261 = 0 not(TMP\_261) = 1 TMP\_262 = 1 not(TMP\_262) = 0 TMP\_263 = 1 not(TMP\_263) = 0 TMP\_264 = 1 not(TMP\_264) = 0 TMP\_265 = 2 TMP\_266 = 1 not(TMP\_266) = 0 TMP\_267 = 0 not(TMP\_267) = 1 TMP\_268 = 1 not(TMP\_268) = 0 TMP\_269 = 1 not(TMP\_269) = 0 TMP\_270 = 1 not(TMP\_270) = 0 TMP\_271 = 0 not(TMP\_271) = 1 TMP\_272 = 4 TMP\_273 = 0 not(TMP\_273) = 1 TMP\_274 = 0 not(TMP\_274) = 1 TMP\_275 = 0 TMP\_276 = 1 not(TMP\_276) = 0 TMP\_277 = 1 not(TMP\_277) = 0 TMP\_278 = 2 TMP\_279 = 0 not(TMP\_279) = 1 TMP\_280 = 0 not(TMP\_280) = 1 TMP\_281 = 1 not(TMP\_281) = 0 TMP\_282 = 1 not(TMP\_282) = 0 TMP\_283 = 1 not(TMP\_283) = 0 TMP\_284 = 2 TMP\_285 = 1 not(TMP\_285) = 0 TMP\_286 = 1 not(TMP\_286) = 0 TMP\_287 = 1 not(TMP\_287) = 0 TMP\_288 = 1 not(TMP\_288) = 0 TMP\_289 = 1 not(TMP\_289) = 0 TMP\_290 = 0 not(TMP\_290) = 1 TMP\_291 = 5 TMP\_292 = 0 not(TMP\_292) = 1 TMP\_293 = 0 not(TMP\_293) = 1 TMP\_294 = 0 TMP\_295 = 1 not(TMP\_295) = 0 TMP\_296 = 1 not(TMP\_296) = 0 TMP\_297 = 2 TMP\_298 = 0 not(TMP\_298) = 1 TMP\_299 = 0 not(TMP\_299) = 1 TMP\_300 = 1 not(TMP\_300) = 0 TMP\_301 = 1 not(TMP\_301) = 0 TMP\_302 = 1 not(TMP\_302) = 0 TMP\_303 = 2 TMP\_304 = 0 not(TMP\_304) = 1 TMP\_305 = 1 not(TMP\_305) = 0 TMP\_306 = 1 not(TMP\_306) = 0 TMP\_307 = 1 not(TMP\_307) = 0 TMP\_308 = 1 not(TMP\_308) = 0 TMP\_309 = 1 not(TMP\_309) = 0 TMP\_310 = 5 TMP\_311 = 0 not(TMP\_311) = 1 TMP\_312 = 0 not(TMP\_312) = 1 TMP\_313 = 0 TMP\_314 = 1 not(TMP\_314) = 0 TMP\_315 = 1 not(TMP\_315) = 0 TMP\_316 = 2 TMP\_317 = 0 not(TMP\_317) = 1 TMP\_318 = 0 not(TMP\_318) = 1 TMP\_319 = 1 not(TMP\_319) = 0 TMP\_320 = 1 not(TMP\_320) = 0 TMP\_321 = 1 not(TMP\_321) = 0 TMP\_322 = 2 TMP\_323 = 0 not(TMP\_323) = 1 TMP\_324 = 1 not(TMP\_324) = 0 TMP\_325 = 1 not(TMP\_325) = 0 TMP\_326 = 1 not(TMP\_326) = 0 TMP\_327 = 1 not(TMP\_327) = 0 TMP\_328 = 0 not(TMP\_328) = 1 TMP\_329 = 4 TMP\_330 = 0 not(TMP\_330) = 1 TMP\_331 = 0 not(TMP\_331) = 1 TMP\_332 = 0 TMP\_333 = 1 not(TMP\_333) = 0 TMP\_334 = 1 not(TMP\_334) = 0 TMP\_335 = 2 TMP\_336 = 0 not(TMP\_336) = 1 TMP\_337 = 0 not(TMP\_337) = 1 TMP\_338 = 1 not(TMP\_338) = 0 TMP\_339 = 1 not(TMP\_339) = 0 TMP\_340 = 1 not(TMP\_340) = 0 TMP\_341 = 2 TMP\_342 = 1 not(TMP\_342) = 0 TMP\_343 = 1 not(TMP\_343) = 0 TMP\_344 = 1 not(TMP\_344) = 0 TMP\_345 = 1 not(TMP\_345) = 0 TMP\_346 = 1 not(TMP\_346) = 0 TMP\_347 = 0 not(TMP\_347) = 1 TMP\_348 = 5 TMP\_349 = 0 not(TMP\_349) = 1 TMP\_350 = 0 not(TMP\_350) = 1 TMP\_351 = 0 TMP\_352 = 1 not(TMP\_352) = 0 TMP\_353 = 1 not(TMP\_353) = 0 TMP\_354 = 2 TMP\_355 = 0 not(TMP\_355) = 1 TMP\_356 = 0 not(TMP\_356) = 1 TMP\_357 = 1 not(TMP\_357) = 0 TMP\_358 = 1 not(TMP\_358) = 0 TMP\_359 = 1 not(TMP\_359) = 0 TMP\_360 = 2 TMP\_361 = 1 not(TMP\_361) = 0 TMP\_362 = 0 not(TMP\_362) = 1 TMP\_363 = 1 not(TMP\_363) = 0 TMP\_364 = 1 not(TMP\_364) = 0 TMP\_365 = 1 not(TMP\_365) = 0 TMP\_366 = 0 not(TMP\_366) = 1 TMP\_367 = 4 TMP\_368 = 0 not(TMP\_368) = 1 TMP\_369 = 0 not(TMP\_369) = 1 TMP\_370 = 0 TMP\_371 = 1 not(TMP\_371) = 0 TMP\_372 = 1 not(TMP\_372) = 0 TMP\_373 = 2 TMP\_374 = 0 not(TMP\_374) = 1 TMP\_375 = 0 not(TMP\_375) = 1 TMP\_376 = 1 not(TMP\_376) = 0 TMP\_377 = 1 not(TMP\_377) = 0 TMP\_378 = 1 not(TMP\_378) = 0 TMP\_379 = 2 TMP\_380 = 1 not(TMP\_380) = 0 TMP\_381 = 0 not(TMP\_381) = 1 TMP\_382 = 1 not(TMP\_382) = 0 TMP\_383 = 1 not(TMP\_383) = 0 TMP\_384 = 1 not(TMP\_384) = 0 TMP\_385 = 1 not(TMP\_385) = 0 TMP\_386 = 5 TMP\_387 = 0 not(TMP\_387) = 1 TMP\_388 = 0 not(TMP\_388) = 1 TMP\_389 = 0 TMP\_390 = 1 not(TMP\_390) = 0 TMP\_391 = 1 not(TMP\_391) = 0 TMP\_392 = 2 TMP\_393 = 0 not(TMP\_393) = 1 TMP\_394 = 0 not(TMP\_394) = 1 TMP\_395 = 1 not(TMP\_395) = 0 TMP\_396 = 1 not(TMP\_396) = 0 TMP\_397 = 1 not(TMP\_397) = 0 TMP\_398 = 2 TMP\_399 = 1 not(TMP\_399) = 0 TMP\_400 = 0 not(TMP\_400) = 1 TMP\_401 = 1 not(TMP\_401) = 0 TMP\_402 = 1 not(TMP\_402) = 0 TMP\_403 = 1 not(TMP\_403) = 0 TMP\_404 = 1 not(TMP\_404) = 0 TMP\_405 = 5 TMP\_406 = 0 not(TMP\_406) = 1 TMP\_407 = 0 not(TMP\_407) = 1 TMP\_408 = 0 TMP\_409 = 1 not(TMP\_409) = 0 TMP\_410 = 1 not(TMP\_410) = 0 TMP\_411 = 2 TMP\_412 = 0 not(TMP\_412) = 1 TMP\_413 = 0 not(TMP\_413) = 1 TMP\_414 = 1 not(TMP\_414) = 0 TMP\_415 = 1 not(TMP\_415) = 0 TMP\_416 = 1 not(TMP\_416) = 0 TMP\_417 = 2 TMP\_418 = 1 not(TMP\_418) = 0 TMP\_419 = 0 not(TMP\_419) = 1 TMP\_420 = 1 not(TMP\_420) = 0 TMP\_421 = 1 not(TMP\_421) = 0 TMP\_422 = 1 not(TMP\_422) = 0 TMP\_423 = 1 not(TMP\_423) = 0 TMP\_424 = 5 TMP\_425 = 0 not(TMP\_425) = 1 TMP\_426 = 0 not(TMP\_426) = 1 TMP\_427 = 0 TMP\_428 = 1 not(TMP\_428) = 0 TMP\_429 = 1 not(TMP\_429) = 0 TMP\_430 = 2 TMP\_431 = 0 not(TMP\_431) = 1 TMP\_432 = 0 not(TMP\_432) = 1 TMP\_433 = 1 not(TMP\_433) = 0 TMP\_434 = 1 not(TMP\_434) = 0 TMP\_435 = 1 not(TMP\_435) = 0 TMP\_436 = 2 TMP\_437 = 1 not(TMP\_437) = 0 TMP\_438 = 0 not(TMP\_438) = 1 TMP\_439 = 1 not(TMP\_439) = 0 TMP\_440 = 1 not(TMP\_440) = 0 TMP\_441 = 1 not(TMP\_441) = 0 TMP\_442 = 0 not(TMP\_442) = 1 TMP\_443 = 4 TMP\_444 = 0 not(TMP\_444) = 1 TMP\_445 = 0 not(TMP\_445) = 1 TMP\_446 = 0 TMP\_447 = 1 not(TMP\_447) = 0 TMP\_448 = 1 not(TMP\_448) = 0 TMP\_449 = 2 TMP\_450 = 0 not(TMP\_450) = 1 TMP\_451 = 0 not(TMP\_451) = 1 TMP\_452 = 1 not(TMP\_452) = 0 TMP\_453 = 1 not(TMP\_453) = 0 TMP\_454 = 1 not(TMP\_454) = 0 TMP\_455 = 2 TMP\_456 = 1 not(TMP\_456) = 0 TMP\_457 = 0 not(TMP\_457) = 1 TMP\_458 = 1 not(TMP\_458) = 0 TMP\_459 = 1 not(TMP\_459) = 0 TMP\_460 = 1 not(TMP\_460) = 0 TMP\_461 = 0 not(TMP\_461) = 1 TMP\_462 = 4 TMP\_463 = 0 not(TMP\_463) = 1 TMP\_464 = 0 not(TMP\_464) = 1 TMP\_465 = 0 TMP\_466 = 1 not(TMP\_466) = 0 TMP\_467 = 1 not(TMP\_467) = 0 TMP\_468 = 2 TMP\_469 = 0 not(TMP\_469) = 1 TMP\_470 = 0 not(TMP\_470) = 1 TMP\_471 = 1 not(TMP\_471) = 0 TMP\_472 = 1 not(TMP\_472) = 0 TMP\_473 = 1 not(TMP\_473) = 0 TMP\_474 = 2 TMP\_475 = 1 not(TMP\_475) = 0 TMP\_476 = 0 not(TMP\_476) = 1 TMP\_477 = 1 not(TMP\_477) = 0 TMP\_478 = 1 not(TMP\_478) = 0 TMP\_479 = 1 not(TMP\_479) = 0 TMP\_480 = 1 not(TMP\_480) = 0 TMP\_481 = 5 TMP\_482 = 0 not(TMP\_482) = 1 TMP\_483 = 0 not(TMP\_483) = 1 TMP\_484 = 0 TMP\_485 = 1 not(TMP\_485) = 0 TMP\_486 = 1 not(TMP\_486) = 0 TMP\_487 = 2 TMP\_488 = 0 not(TMP\_488) = 1 TMP\_489 = 0 not(TMP\_489) = 1 TMP\_490 = 1 not(TMP\_490) = 0 TMP\_491 = 1 not(TMP\_491) = 0 TMP\_492 = 1 not(TMP\_492) = 0 TMP\_493 = 2 TMP\_494 = 1 not(TMP\_494) = 0 TMP\_495 = 1 not(TMP\_495) = 0 TMP\_496 = 1 not(TMP\_496) = 0 TMP\_497 = 1 not(TMP\_497) = 0 TMP\_498 = 1 not(TMP\_498) = 0 TMP\_499 = 0 not(TMP\_499) = 1 TMP\_500 = 5 TMP\_501 = 0 not(TMP\_501) = 1 TMP\_502 = 0 not(TMP\_502) = 1 TMP\_503 = 0 TMP\_504 = 1 not(TMP\_504) = 0 TMP\_505 = 1 not(TMP\_505) = 0 TMP\_506 = 2 TMP\_507 = 0 not(TMP\_507) = 1 TMP\_508 = 0 not(TMP\_508) = 1 TMP\_509 = 1 not(TMP\_509) = 0 TMP\_510 = 1 not(TMP\_510) = 0 TMP\_511 = 1 not(TMP\_511) = 0 TMP\_512 = 2 TMP\_513 = 0 not(TMP\_513) = 1 TMP\_514 = 1 not(TMP\_514) = 0 TMP\_515 = 1 not(TMP\_515) = 0 TMP\_516 = 1 not(TMP\_516) = 0 TMP\_517 = 1 not(TMP\_517) = 0 TMP\_518 = 1 not(TMP\_518) = 0 TMP\_519 = 5 TMP\_520 = 0 not(TMP\_520) = 1 TMP\_521 = 0 not(TMP\_521) = 1 TMP\_522 = 0 TMP\_523 = 1 not(TMP\_523) = 0 TMP\_524 = 1 not(TMP\_524) = 0 TMP\_525 = 2 TMP\_526 = 0 not(TMP\_526) = 1 TMP\_527 = 0 not(TMP\_527) = 1 TMP\_528 = 1 not(TMP\_528) = 0 TMP\_529 = 1 not(TMP\_529) = 0 TMP\_530 = 1 not(TMP\_530) = 0 TMP\_531 = 2 TMP\_532 = 1 not(TMP\_532) = 0 TMP\_533 = 0 not(TMP\_533) = 1 TMP\_534 = 1 not(TMP\_534) = 0 TMP\_535 = 1 not(TMP\_535) = 0 TMP\_536 = 1 not(TMP\_536) = 0 TMP\_537 = 1 not(TMP\_537) = 0 TMP\_538 = 5 TMP\_539 = 0 not(TMP\_539) = 1 TMP\_540 = 0 not(TMP\_540) = 1 TMP\_541 = 0 TMP\_542 = 1 not(TMP\_542) = 0 TMP\_543 = 1 not(TMP\_543) = 0 TMP\_544 = 2 TMP\_545 = 0 not(TMP\_545) = 1 TMP\_546 = 0 not(TMP\_546) = 1 TMP\_547 = 1 not(TMP\_547) = 0 TMP\_548 = 1 not(TMP\_548) = 0 TMP\_549 = 1 not(TMP\_549) = 0 TMP\_550 = 2 TMP\_551 = 1 not(TMP\_551) = 0 TMP\_552 = 0 not(TMP\_552) = 1 TMP\_553 = 1 not(TMP\_553) = 0 TMP\_554 = 1 not(TMP\_554) = 0 TMP\_555 = 0 not(TMP\_555) = 1 TMP\_556 = 1 not(TMP\_556) = 0 TMP\_557 = 4 TMP\_558 = 0 not(TMP\_558) = 1 TMP\_559 = 0 not(TMP\_559) = 1 TMP\_560 = 0 TMP\_561 = 1 not(TMP\_561) = 0 TMP\_562 = 1 not(TMP\_562) = 0 TMP\_563 = 2 TMP\_564 = 0 not(TMP\_564) = 1 TMP\_565 = 0 not(TMP\_565) = 1 TMP\_566 = 1 not(TMP\_566) = 0 TMP\_567 = 1 not(TMP\_567) = 0 TMP\_568 = 1 not(TMP\_568) = 0 TMP\_569 = 2 TMP\_570 = 1 not(TMP\_570) = 0 TMP\_571 = 0 not(TMP\_571) = 1 TMP\_572 = 1 not(TMP\_572) = 0 TMP\_573 = 1 not(TMP\_573) = 0 TMP\_574 = 0 not(TMP\_574) = 1 TMP\_575 = 1 not(TMP\_575) = 0 TMP\_576 = 4 TMP\_577 = 0 not(TMP\_577) = 1 TMP\_578 = 0 not(TMP\_578) = 1 TMP\_579 = 0 TMP\_580 = 1 not(TMP\_580) = 0 TMP\_581 = 1 not(TMP\_581) = 0 TMP\_582 = 2 TMP\_583 = 0 not(TMP\_583) = 1 TMP\_584 = 0 not(TMP\_584) = 1 TMP\_585 = 1 not(TMP\_585) = 0 TMP\_586 = 1 not(TMP\_586) = 0 TMP\_587 = 1 not(TMP\_587) = 0 TMP\_588 = 2 TMP\_589 = 1 not(TMP\_589) = 0 TMP\_590 = 0 not(TMP\_590) = 1 TMP\_591 = 1 not(TMP\_591) = 0 TMP\_592 = 1 not(TMP\_592) = 0 TMP\_593 = 0 not(TMP\_593) = 1 TMP\_594 = 1 not(TMP\_594) = 0 TMP\_595 = 4 TMP\_596 = 0 not(TMP\_596) = 1 TMP\_597 = 0 not(TMP\_597) = 1 TMP\_598 = 0 TMP\_599 = 1 not(TMP\_599) = 0 TMP\_600 = 1 not(TMP\_600) = 0 TMP\_601 = 2 TMP\_602 = 0 not(TMP\_602) = 1 TMP\_603 = 0 not(TMP\_603) = 1 TMP\_604 = 1 not(TMP\_604) = 0 TMP\_605 = 1 not(TMP\_605) = 0 TMP\_606 = 1 not(TMP\_606) = 0 TMP\_607 = 2 TMP\_608 = 1 not(TMP\_608) = 0 TMP\_609 = 0 not(TMP\_609) = 1 TMP\_610 = 1 not(TMP\_610) = 0 TMP\_611 = 1 not(TMP\_611) = 0 TMP\_612 = 1 not(TMP\_612) = 0 TMP\_613 = 1 not(TMP\_613) = 0 TMP\_614 = 5 TMP\_615 = 0 not(TMP\_615) = 1 TMP\_616 = 0 not(TMP\_616) = 1 TMP\_617 = 0 TMP\_618 = 1 not(TMP\_618) = 0 TMP\_619 = 1 not(TMP\_619) = 0 TMP\_620 = 2 TMP\_621 = 0 not(TMP\_621) = 1 TMP\_622 = 0 not(TMP\_622) = 1 TMP\_623 = 1 not(TMP\_623) = 0 TMP\_624 = 1 not(TMP\_624) = 0 TMP\_625 = 1 not(TMP\_625) = 0 TMP\_626 = 2 TMP\_627 = 1 not(TMP\_627) = 0 TMP\_628 = 0 not(TMP\_628) = 1 TMP\_629 = 1 not(TMP\_629) = 0 TMP\_630 = 1 not(TMP\_630) = 0 TMP\_631 = 1 not(TMP\_631) = 0 TMP\_632 = 1 not(TMP\_632) = 0 TMP\_633 = 5 TMP\_634 = 0 not(TMP\_634) = 1 TMP\_635 = 0 not(TMP\_635) = 1 TMP\_636 = 0 TMP\_637 = 1 not(TMP\_637) = 0 TMP\_638 = 1 not(TMP\_638) = 0 TMP\_639 = 2 TMP\_640 = 0 not(TMP\_640) = 1 TMP\_641 = 0 not(TMP\_641) = 1 TMP\_642 = 1 not(TMP\_642) = 0 TMP\_643 = 1 not(TMP\_643) = 0 TMP\_644 = 1 not(TMP\_644) = 0 TMP\_645 = 2 TMP\_646 = 1 not(TMP\_646) = 0 TMP\_647 = 0 not(TMP\_647) = 1 TMP\_648 = 1 not(TMP\_648) = 0 TMP\_649 = 1 not(TMP\_649) = 0 TMP\_650 = 0 not(TMP\_650) = 1 TMP\_651 = 1 not(TMP\_651) = 0 TMP\_652 = 4 TMP\_653 = 0 not(TMP\_653) = 1 TMP\_654 = 0 not(TMP\_654) = 1 TMP\_655 = 0 TMP\_656 = 1 not(TMP\_656) = 0 TMP\_657 = 1 not(TMP\_657) = 0 TMP\_658 = 2 TMP\_659 = 0 not(TMP\_659) = 1 TMP\_660 = 0 not(TMP\_660) = 1 TMP\_661 = 1 not(TMP\_661) = 0 TMP\_662 = 1 not(TMP\_662) = 0 TMP\_663 = 1 not(TMP\_663) = 0 TMP\_664 = 2 TMP\_665 = 1 not(TMP\_665) = 0 TMP\_666 = 1 not(TMP\_666) = 0 TMP\_667 = 1 not(TMP\_667) = 0 TMP\_668 = 1 not(TMP\_668) = 0 TMP\_669 = 0 not(TMP\_669) = 1 TMP\_670 = 1 not(TMP\_670) = 0 TMP\_671 = 5 TMP\_672 = 0 not(TMP\_672) = 1 TMP\_673 = 0 not(TMP\_673) = 1 TMP\_674 = 0 TMP\_675 = 1 not(TMP\_675) = 0 TMP\_676 = 1 not(TMP\_676) = 0 TMP\_677 = 2 TMP\_678 = 0 not(TMP\_678) = 1 TMP\_679 = 0 not(TMP\_679) = 1 TMP\_680 = 1 not(TMP\_680) = 0 TMP\_681 = 1 not(TMP\_681) = 0 TMP\_682 = 1 not(TMP\_682) = 0 TMP\_683 = 2 Area\_0 = 60 Distance\_0\_Rule\_0 = 20 Distance\_1\_Rule\_0 = 3 Distance\_2\_Rule\_0 = 1 Area\_1 = 174 Distance\_0\_Rule\_1 = 58 Distance\_1\_Rule\_1 = 3 Distance\_2\_Rule\_1 = 1 Area\_2 = 116 Distance\_0\_Rule\_2 = 58 Distance\_1\_Rule\_2 = 2 Distance\_2\_Rule\_2 = 1 Area\_3 = 58 Distance\_0\_Rule\_3 = 58 Distance\_1\_Rule\_3 = 1 Distance\_2\_Rule\_3 = 1 Area\_4 = 120 Distance\_0\_Rule\_4 = 40 Distance\_1\_Rule\_4 = 3 Distance\_2\_Rule\_4 = 1 Area\_5 = 120 Distance\_0\_Rule\_5 = 40 Distance\_1\_Rule\_5 = 3 Distance\_2\_Rule\_5 = 1 Area\_6 = 3 -(Rule\_6\_LB) = -79 Distance\_0\_Rule\_6 = 1 -(Rule\_6\_LB) = 0 Distance\_1\_Rule\_6 = 3 -(Rule\_6\_LB) = -1 Distance\_2\_Rule\_6 = 1 Area\_7 = 3 -(Rule\_7\_LB) = -79 Distance\_0\_Rule\_7 = 1 -(Rule\_7\_LB) = 0 Distance\_1\_Rule\_7 = 3 -(Rule\_7\_LB) = 0 Distance\_2\_Rule\_7 = 1 Area\_8 = 63 -(Rule\_8\_LB) = 0 Distance\_0\_Rule\_8 = 21 -(Rule\_8\_LB) = 0 Distance\_1\_Rule\_8 = 3 -(Rule\_8\_LB) = 0 Distance\_2\_Rule\_8 = 1 Area\_9 = 3 -(Rule\_9\_LB) = -20 Distance\_0\_Rule\_9 = 1 -(Rule\_9\_LB) = 0 Distance\_1\_Rule\_9 = 3 -(Rule\_9\_LB) = -1 Distance\_2\_Rule\_9 = 1 TMP\_684 = 720 .

- Solution #10 found. 10 Solutions, Resolution 1.448s, 725 Nodes (500.6 n/s), 1343 Backtracks, 670 Fails, 0 Restarts

Rule\_6\_LB = 79 Rule\_6\_UB = 80 Rule\_6\_LB = 0 Rule\_6\_UB = 3 Rule\_6\_LB = 1 Rule\_6\_UB = 2 Rule\_7\_LB = 79 Rule\_7\_UB = 80 Rule\_7\_LB = 0 Rule\_7\_UB = 3 Rule\_7\_LB = 0 Rule\_7\_UB = 1 Rule\_8\_LB = 0 Rule\_8\_UB = 21 Rule\_8\_LB = 0 Rule\_8\_UB = 3 Rule\_8\_LB = 0 Rule\_8\_UB = 1 Rule\_9\_LB = 20 Rule\_9\_UB = 21 Rule\_9\_LB = 0 Rule\_9\_UB = 3 Rule\_9\_LB = 1 Rule\_9\_UB = 2 Overlaps\_0\_0 = 0 Overlaps\_0\_1 = 0 Overlaps\_0\_2 = 0 Overlaps\_0\_3 = 0 Overlaps\_0\_4 = 0 Overlaps\_0\_5 = 0 Overlaps\_0\_6 = 0 Overlaps\_0\_7 = 0 Overlaps\_0\_8 = 0 Overlaps\_0\_9 = 0 Overlaps\_1\_0 = 0 Overlaps\_1\_1 = 0 Overlaps\_1\_2 = 1 Overlaps\_1\_3 = 0 Overlaps\_1\_4 = 1 Overlaps\_1\_5 = 0 Overlaps\_1\_6 = 0 Overlaps\_1\_7 = 0 Overlaps\_1\_8 = 0 Overlaps\_1\_9 = 0 Overlaps\_2\_0 = 0 Overlaps\_2\_1 = 0 Overlaps\_2\_2 = 0 Overlaps\_2\_3 = 0 Overlaps\_2\_4 = 0 Overlaps\_2\_5 = 0 Overlaps\_2\_6 = 0 Overlaps\_2\_7 = 0 Overlaps\_2\_8 = 0 Overlaps\_2\_9 = 0 Overlaps\_3\_0 = 0 Overlaps\_3\_1 = 0 Overlaps\_3\_2 = 0 Overlaps\_3\_3 = 0 Overlaps\_3\_4 = 0 Overlaps\_3\_5 = 0 Overlaps\_3\_6 = 0 Overlaps\_3\_7 = 0 Overlaps\_3\_8 = 0 Overlaps\_3\_9 = 0 Overlaps\_4\_0 = 0 Overlaps\_4\_1 = 0 Overlaps\_4\_2 = 0 Overlaps\_4\_3 = 0 Overlaps\_4\_4 = 0 Overlaps\_4\_5 = 0 Overlaps\_4\_6 = 0 Overlaps\_4\_7 = 0 Overlaps\_4\_8 = 0 Overlaps\_4\_9 = 0 Overlaps\_5\_0 = 0 Overlaps\_5\_1 = 0 Overlaps\_5\_2 = 0 Overlaps\_5\_3 = 0 Overlaps\_5\_4 = 0 Overlaps\_5\_5 = 0 Overlaps\_5\_6 = 0 Overlaps\_5\_7 = 0 Overlaps\_5\_8 = 0 Overlaps\_5\_9 = 0 Overlaps\_6\_0 = 0 Overlaps\_6\_1 = 0 Overlaps\_6\_2 = 0 Overlaps\_6\_3 = 0 Overlaps\_6\_4 = 0 Overlaps\_6\_5 = 0 Overlaps\_6\_6 = 0 Overlaps\_6\_7 = 0 Overlaps\_6\_8 = 0 Overlaps\_6\_9 = 0 Overlaps\_7\_0 = 0 Overlaps\_7\_1 = 0 Overlaps\_7\_2 = 0 Overlaps\_7\_3 = 0 Overlaps\_7\_4 = 0 Overlaps\_7\_5 = 0 Overlaps\_7\_6 = 0 Overlaps\_7\_7 = 0 Overlaps\_7\_8 = 0 Overlaps\_7\_9 = 0 Overlaps\_8\_0 = 0 Overlaps\_8\_1 = 0 Overlaps\_8\_2 = 0 Overlaps\_8\_3 = 0 Overlaps\_8\_4 = 0 Overlaps\_8\_5 = 0 Overlaps\_8\_6 = 0 Overlaps\_8\_7 = 0 Overlaps\_8\_8 = 0 Overlaps\_8\_9 = 0 Overlaps\_9\_0 = 0 Overlaps\_9\_1 = 0 Overlaps\_9\_2 = 0 Overlaps\_9\_3 = 0 Overlaps\_9\_4 = 0 Overlaps\_9\_5 = 0 Overlaps\_9\_6 = 0 Overlaps\_9\_7 = 0 Overlaps\_9\_8 = 0 Overlaps\_9\_9 = 0 TMP\_0 = 0 not(TMP\_0) = 1 TMP\_1 = 1 not(TMP\_1) = 0 TMP\_2 = 1 not(TMP\_2) = 0 TMP\_3 = 1 not(TMP\_3) = 0 TMP\_4 = 1 not(TMP\_4) = 0 TMP\_5 = 1 not(TMP\_5) = 0 TMP\_6 = 5 TMP\_7 = 0 not(TMP\_7) = 1 TMP\_8 = 0 not(TMP\_8) = 1 TMP\_9 = 0 TMP\_10 = 1 not(TMP\_10) = 0 TMP\_11 = 1 not(TMP\_11) = 0 TMP\_12 = 2 TMP\_13 = 0 not(TMP\_13) = 1 TMP\_14 = 0 not(TMP\_14) = 1 TMP\_15 = 1 not(TMP\_15) = 0 TMP\_16 = 1 not(TMP\_16) = 0 TMP\_17 = 1 not(TMP\_17) = 0 TMP\_18 = 2 TMP\_19 = 0 not(TMP\_19) = 1 TMP\_20 = 1 not(TMP\_20) = 0 TMP\_21 = 1 not(TMP\_21) = 0 TMP\_22 = 1 not(TMP\_22) = 0 TMP\_23 = 1 not(TMP\_23) = 0 TMP\_24 = 1 not(TMP\_24) = 0 TMP\_25 = 5 TMP\_26 = 0 not(TMP\_26) = 1 TMP\_27 = 0 not(TMP\_27) = 1 TMP\_28 = 0 TMP\_29 = 1 not(TMP\_29) = 0 TMP\_30 = 1 not(TMP\_30) = 0 TMP\_31 = 2 TMP\_32 = 0 not(TMP\_32) = 1 TMP\_33 = 0 not(TMP\_33) = 1 TMP\_34 = 1 not(TMP\_34) = 0 TMP\_35 = 1 not(TMP\_35) = 0 TMP\_36 = 1 not(TMP\_36) = 0 TMP\_37 = 2 TMP\_38 = 0 not(TMP\_38) = 1 TMP\_39 = 1 not(TMP\_39) = 0 TMP\_40 = 1 not(TMP\_40) = 0 TMP\_41 = 1 not(TMP\_41) = 0 TMP\_42 = 0 not(TMP\_42) = 1 TMP\_43 = 1 not(TMP\_43) = 0 TMP\_44 = 4 TMP\_45 = 0 not(TMP\_45) = 1 TMP\_46 = 0 not(TMP\_46) = 1 TMP\_47 = 0 TMP\_48 = 1 not(TMP\_48) = 0 TMP\_49 = 1 not(TMP\_49) = 0 TMP\_50 = 2 TMP\_51 = 0 not(TMP\_51) = 1 TMP\_52 = 0 not(TMP\_52) = 1 TMP\_53 = 1 not(TMP\_53) = 0 TMP\_54 = 1 not(TMP\_54) = 0 TMP\_55 = 1 not(TMP\_55) = 0 TMP\_56 = 2 TMP\_57 = 0 not(TMP\_57) = 1 TMP\_58 = 1 not(TMP\_58) = 0 TMP\_59 = 1 not(TMP\_59) = 0 TMP\_60 = 1 not(TMP\_60) = 0 TMP\_61 = 0 not(TMP\_61) = 1 TMP\_62 = 1 not(TMP\_62) = 0 TMP\_63 = 4 TMP\_64 = 0 not(TMP\_64) = 1 TMP\_65 = 0 not(TMP\_65) = 1 TMP\_66 = 0 TMP\_67 = 1 not(TMP\_67) = 0 TMP\_68 = 1 not(TMP\_68) = 0 TMP\_69 = 2 TMP\_70 = 0 not(TMP\_70) = 1 TMP\_71 = 0 not(TMP\_71) = 1 TMP\_72 = 1 not(TMP\_72) = 0 TMP\_73 = 1 not(TMP\_73) = 0 TMP\_74 = 1 not(TMP\_74) = 0 TMP\_75 = 2 TMP\_76 = 1 not(TMP\_76) = 0 TMP\_77 = 0 not(TMP\_77) = 1 TMP\_78 = 1 not(TMP\_78) = 0 TMP\_79 = 1 not(TMP\_79) = 0 TMP\_80 = 0 not(TMP\_80) = 1 TMP\_81 = 1 not(TMP\_81) = 0 TMP\_82 = 4 TMP\_83 = 0 not(TMP\_83) = 1 TMP\_84 = 0 not(TMP\_84) = 1 TMP\_85 = 0 TMP\_86 = 1 not(TMP\_86) = 0 TMP\_87 = 1 not(TMP\_87) = 0 TMP\_88 = 2 TMP\_89 = 0 not(TMP\_89) = 1 TMP\_90 = 0 not(TMP\_90) = 1 TMP\_91 = 1 not(TMP\_91) = 0 TMP\_92 = 1 not(TMP\_92) = 0 TMP\_93 = 1 not(TMP\_93) = 0 TMP\_94 = 2 TMP\_95 = 1 not(TMP\_95) = 0 TMP\_96 = 0 not(TMP\_96) = 1 TMP\_97 = 1 not(TMP\_97) = 0 TMP\_98 = 1 not(TMP\_98) = 0 TMP\_99 = 1 not(TMP\_99) = 0 TMP\_100 = 1 not(TMP\_100) = 0 TMP\_101 = 5 TMP\_102 = 0 not(TMP\_102) = 1 TMP\_103 = 0 not(TMP\_103) = 1 TMP\_104 = 0 TMP\_105 = 1 not(TMP\_105) = 0 TMP\_106 = 1 not(TMP\_106) = 0 TMP\_107 = 2 TMP\_108 = 0 not(TMP\_108) = 1 TMP\_109 = 0 not(TMP\_109) = 1 TMP\_110 = 1 not(TMP\_110) = 0 TMP\_111 = 1 not(TMP\_111) = 0 TMP\_112 = 1 not(TMP\_112) = 0 TMP\_113 = 2 TMP\_114 = 1 not(TMP\_114) = 0 TMP\_115 = 1 not(TMP\_115) = 0 TMP\_116 = 1 not(TMP\_116) = 0 TMP\_117 = 1 not(TMP\_117) = 0 TMP\_118 = 0 not(TMP\_118) = 1 TMP\_119 = 1 not(TMP\_119) = 0 TMP\_120 = 5 TMP\_121 = 0 not(TMP\_121) = 1 TMP\_122 = 0 not(TMP\_122) = 1 TMP\_123 = 0 TMP\_124 = 1 not(TMP\_124) = 0 TMP\_125 = 1 not(TMP\_125) = 0 TMP\_126 = 2 TMP\_127 = 0 not(TMP\_127) = 1 TMP\_128 = 0 not(TMP\_128) = 1 TMP\_129 = 1 not(TMP\_129) = 0 TMP\_130 = 1 not(TMP\_130) = 0 TMP\_131 = 1 not(TMP\_131) = 0 TMP\_132 = 2 TMP\_133 = 0 not(TMP\_133) = 1 TMP\_134 = 1 not(TMP\_134) = 0 TMP\_135 = 1 not(TMP\_135) = 0 TMP\_136 = 1 not(TMP\_136) = 0 TMP\_137 = 0 not(TMP\_137) = 1 TMP\_138 = 1 not(TMP\_138) = 0 TMP\_139 = 4 TMP\_140 = 0 not(TMP\_140) = 1 TMP\_141 = 0 not(TMP\_141) = 1 TMP\_142 = 0 TMP\_143 = 1 not(TMP\_143) = 0 TMP\_144 = 1 not(TMP\_144) = 0 TMP\_145 = 2 TMP\_146 = 0 not(TMP\_146) = 1 TMP\_147 = 0 not(TMP\_147) = 1 TMP\_148 = 1 not(TMP\_148) = 0 TMP\_149 = 1 not(TMP\_149) = 0 TMP\_150 = 1 not(TMP\_150) = 0 TMP\_151 = 2 TMP\_152 = 0 not(TMP\_152) = 1 TMP\_153 = 1 not(TMP\_153) = 0 TMP\_154 = 1 not(TMP\_154) = 0 TMP\_155 = 1 not(TMP\_155) = 0 TMP\_156 = 1 not(TMP\_156) = 0 TMP\_157 = 1 not(TMP\_157) = 0 TMP\_158 = 5 TMP\_159 = 0 not(TMP\_159) = 1 TMP\_160 = 0 not(TMP\_160) = 1 TMP\_161 = 0 TMP\_162 = 1 not(TMP\_162) = 0 TMP\_163 = 1 not(TMP\_163) = 0 TMP\_164 = 2 TMP\_165 = 0 not(TMP\_165) = 1 TMP\_166 = 0 not(TMP\_166) = 1 TMP\_167 = 1 not(TMP\_167) = 0 TMP\_168 = 1 not(TMP\_168) = 0 TMP\_169 = 1 not(TMP\_169) = 0 TMP\_170 = 2 TMP\_171 = 0 not(TMP\_171) = 1 TMP\_172 = 1 not(TMP\_172) = 0 TMP\_173 = 1 not(TMP\_173) = 0 TMP\_174 = 1 not(TMP\_174) = 0 TMP\_175 = 1 not(TMP\_175) = 0 TMP\_176 = 0 not(TMP\_176) = 1 TMP\_177 = 4 TMP\_178 = 0 not(TMP\_178) = 1 TMP\_179 = 0 not(TMP\_179) = 1 TMP\_180 = 0 TMP\_181 = 1 not(TMP\_181) = 0 TMP\_182 = 1 not(TMP\_182) = 0 TMP\_183 = 2 TMP\_184 = 0 not(TMP\_184) = 1 TMP\_185 = 0 not(TMP\_185) = 1 TMP\_186 = 1 not(TMP\_186) = 0 TMP\_187 = 1 not(TMP\_187) = 0 TMP\_188 = 1 not(TMP\_188) = 0 TMP\_189 = 2 TMP\_190 = 0 not(TMP\_190) = 1 TMP\_191 = 1 not(TMP\_191) = 0 TMP\_192 = 1 not(TMP\_192) = 0 TMP\_193 = 1 not(TMP\_193) = 0 TMP\_194 = 1 not(TMP\_194) = 0 TMP\_195 = 0 not(TMP\_195) = 1 TMP\_196 = 4 TMP\_197 = 0 not(TMP\_197) = 1 TMP\_198 = 0 not(TMP\_198) = 1 TMP\_199 = 0 TMP\_200 = 1 not(TMP\_200) = 0 TMP\_201 = 1 not(TMP\_201) = 0 TMP\_202 = 2 TMP\_203 = 0 not(TMP\_203) = 1 TMP\_204 = 0 not(TMP\_204) = 1 TMP\_205 = 1 not(TMP\_205) = 0 TMP\_206 = 1 not(TMP\_206) = 0 TMP\_207 = 1 not(TMP\_207) = 0 TMP\_208 = 2 TMP\_209 = 0 not(TMP\_209) = 1 TMP\_210 = 1 not(TMP\_210) = 0 TMP\_211 = 1 not(TMP\_211) = 0 TMP\_212 = 1 not(TMP\_212) = 0 TMP\_213 = 1 not(TMP\_213) = 0 TMP\_214 = 1 not(TMP\_214) = 0 TMP\_215 = 5 TMP\_216 = 0 not(TMP\_216) = 1 TMP\_217 = 0 not(TMP\_217) = 1 TMP\_218 = 0 TMP\_219 = 1 not(TMP\_219) = 0 TMP\_220 = 1 not(TMP\_220) = 0 TMP\_221 = 2 TMP\_222 = 0 not(TMP\_222) = 1 TMP\_223 = 0 not(TMP\_223) = 1 TMP\_224 = 1 not(TMP\_224) = 0 TMP\_225 = 1 not(TMP\_225) = 0 TMP\_226 = 1 not(TMP\_226) = 0 TMP\_227 = 2 TMP\_228 = 0 not(TMP\_228) = 1 TMP\_229 = 1 not(TMP\_229) = 0 TMP\_230 = 1 not(TMP\_230) = 0 TMP\_231 = 1 not(TMP\_231) = 0 TMP\_232 = 1 not(TMP\_232) = 0 TMP\_233 = 1 not(TMP\_233) = 0 TMP\_234 = 5 TMP\_235 = 0 not(TMP\_235) = 1 TMP\_236 = 0 not(TMP\_236) = 1 TMP\_237 = 0 TMP\_238 = 1 not(TMP\_238) = 0 TMP\_239 = 1 not(TMP\_239) = 0 TMP\_240 = 2 TMP\_241 = 0 not(TMP\_241) = 1 TMP\_242 = 0 not(TMP\_242) = 1 TMP\_243 = 1 not(TMP\_243) = 0 TMP\_244 = 1 not(TMP\_244) = 0 TMP\_245 = 1 not(TMP\_245) = 0 TMP\_246 = 2 TMP\_247 = 1 not(TMP\_247) = 0 TMP\_248 = 0 not(TMP\_248) = 1 TMP\_249 = 1 not(TMP\_249) = 0 TMP\_250 = 1 not(TMP\_250) = 0 TMP\_251 = 1 not(TMP\_251) = 0 TMP\_252 = 1 not(TMP\_252) = 0 TMP\_253 = 5 TMP\_254 = 0 not(TMP\_254) = 1 TMP\_255 = 0 not(TMP\_255) = 1 TMP\_256 = 0 TMP\_257 = 1 not(TMP\_257) = 0 TMP\_258 = 1 not(TMP\_258) = 0 TMP\_259 = 2 TMP\_260 = 0 not(TMP\_260) = 1 TMP\_261 = 0 not(TMP\_261) = 1 TMP\_262 = 1 not(TMP\_262) = 0 TMP\_263 = 1 not(TMP\_263) = 0 TMP\_264 = 1 not(TMP\_264) = 0 TMP\_265 = 2 TMP\_266 = 1 not(TMP\_266) = 0 TMP\_267 = 0 not(TMP\_267) = 1 TMP\_268 = 1 not(TMP\_268) = 0 TMP\_269 = 1 not(TMP\_269) = 0 TMP\_270 = 1 not(TMP\_270) = 0 TMP\_271 = 0 not(TMP\_271) = 1 TMP\_272 = 4 TMP\_273 = 0 not(TMP\_273) = 1 TMP\_274 = 0 not(TMP\_274) = 1 TMP\_275 = 0 TMP\_276 = 1 not(TMP\_276) = 0 TMP\_277 = 1 not(TMP\_277) = 0 TMP\_278 = 2 TMP\_279 = 0 not(TMP\_279) = 1 TMP\_280 = 0 not(TMP\_280) = 1 TMP\_281 = 1 not(TMP\_281) = 0 TMP\_282 = 1 not(TMP\_282) = 0 TMP\_283 = 1 not(TMP\_283) = 0 TMP\_284 = 2 TMP\_285 = 1 not(TMP\_285) = 0 TMP\_286 = 1 not(TMP\_286) = 0 TMP\_287 = 1 not(TMP\_287) = 0 TMP\_288 = 1 not(TMP\_288) = 0 TMP\_289 = 1 not(TMP\_289) = 0 TMP\_290 = 0 not(TMP\_290) = 1 TMP\_291 = 5 TMP\_292 = 0 not(TMP\_292) = 1 TMP\_293 = 0 not(TMP\_293) = 1 TMP\_294 = 0 TMP\_295 = 1 not(TMP\_295) = 0 TMP\_296 = 1 not(TMP\_296) = 0 TMP\_297 = 2 TMP\_298 = 0 not(TMP\_298) = 1 TMP\_299 = 0 not(TMP\_299) = 1 TMP\_300 = 1 not(TMP\_300) = 0 TMP\_301 = 1 not(TMP\_301) = 0 TMP\_302 = 1 not(TMP\_302) = 0 TMP\_303 = 2 TMP\_304 = 0 not(TMP\_304) = 1 TMP\_305 = 1 not(TMP\_305) = 0 TMP\_306 = 1 not(TMP\_306) = 0 TMP\_307 = 1 not(TMP\_307) = 0 TMP\_308 = 1 not(TMP\_308) = 0 TMP\_309 = 1 not(TMP\_309) = 0 TMP\_310 = 5 TMP\_311 = 0 not(TMP\_311) = 1 TMP\_312 = 0 not(TMP\_312) = 1 TMP\_313 = 0 TMP\_314 = 1 not(TMP\_314) = 0 TMP\_315 = 1 not(TMP\_315) = 0 TMP\_316 = 2 TMP\_317 = 0 not(TMP\_317) = 1 TMP\_318 = 0 not(TMP\_318) = 1 TMP\_319 = 1 not(TMP\_319) = 0 TMP\_320 = 1 not(TMP\_320) = 0 TMP\_321 = 1 not(TMP\_321) = 0 TMP\_322 = 2 TMP\_323 = 0 not(TMP\_323) = 1 TMP\_324 = 1 not(TMP\_324) = 0 TMP\_325 = 1 not(TMP\_325) = 0 TMP\_326 = 1 not(TMP\_326) = 0 TMP\_327 = 1 not(TMP\_327) = 0 TMP\_328 = 0 not(TMP\_328) = 1 TMP\_329 = 4 TMP\_330 = 0 not(TMP\_330) = 1 TMP\_331 = 0 not(TMP\_331) = 1 TMP\_332 = 0 TMP\_333 = 1 not(TMP\_333) = 0 TMP\_334 = 1 not(TMP\_334) = 0 TMP\_335 = 2 TMP\_336 = 0 not(TMP\_336) = 1 TMP\_337 = 0 not(TMP\_337) = 1 TMP\_338 = 1 not(TMP\_338) = 0 TMP\_339 = 1 not(TMP\_339) = 0 TMP\_340 = 1 not(TMP\_340) = 0 TMP\_341 = 2 TMP\_342 = 1 not(TMP\_342) = 0 TMP\_343 = 1 not(TMP\_343) = 0 TMP\_344 = 1 not(TMP\_344) = 0 TMP\_345 = 1 not(TMP\_345) = 0 TMP\_346 = 1 not(TMP\_346) = 0 TMP\_347 = 0 not(TMP\_347) = 1 TMP\_348 = 5 TMP\_349 = 0 not(TMP\_349) = 1 TMP\_350 = 0 not(TMP\_350) = 1 TMP\_351 = 0 TMP\_352 = 1 not(TMP\_352) = 0 TMP\_353 = 1 not(TMP\_353) = 0 TMP\_354 = 2 TMP\_355 = 0 not(TMP\_355) = 1 TMP\_356 = 0 not(TMP\_356) = 1 TMP\_357 = 1 not(TMP\_357) = 0 TMP\_358 = 1 not(TMP\_358) = 0 TMP\_359 = 1 not(TMP\_359) = 0 TMP\_360 = 2 TMP\_361 = 1 not(TMP\_361) = 0 TMP\_362 = 0 not(TMP\_362) = 1 TMP\_363 = 1 not(TMP\_363) = 0 TMP\_364 = 1 not(TMP\_364) = 0 TMP\_365 = 1 not(TMP\_365) = 0 TMP\_366 = 0 not(TMP\_366) = 1 TMP\_367 = 4 TMP\_368 = 0 not(TMP\_368) = 1 TMP\_369 = 0 not(TMP\_369) = 1 TMP\_370 = 0 TMP\_371 = 1 not(TMP\_371) = 0 TMP\_372 = 1 not(TMP\_372) = 0 TMP\_373 = 2 TMP\_374 = 0 not(TMP\_374) = 1 TMP\_375 = 0 not(TMP\_375) = 1 TMP\_376 = 1 not(TMP\_376) = 0 TMP\_377 = 1 not(TMP\_377) = 0 TMP\_378 = 1 not(TMP\_378) = 0 TMP\_379 = 2 TMP\_380 = 1 not(TMP\_380) = 0 TMP\_381 = 0 not(TMP\_381) = 1 TMP\_382 = 1 not(TMP\_382) = 0 TMP\_383 = 1 not(TMP\_383) = 0 TMP\_384 = 1 not(TMP\_384) = 0 TMP\_385 = 1 not(TMP\_385) = 0 TMP\_386 = 5 TMP\_387 = 0 not(TMP\_387) = 1 TMP\_388 = 0 not(TMP\_388) = 1 TMP\_389 = 0 TMP\_390 = 1 not(TMP\_390) = 0 TMP\_391 = 1 not(TMP\_391) = 0 TMP\_392 = 2 TMP\_393 = 0 not(TMP\_393) = 1 TMP\_394 = 0 not(TMP\_394) = 1 TMP\_395 = 1 not(TMP\_395) = 0 TMP\_396 = 1 not(TMP\_396) = 0 TMP\_397 = 1 not(TMP\_397) = 0 TMP\_398 = 2 TMP\_399 = 1 not(TMP\_399) = 0 TMP\_400 = 0 not(TMP\_400) = 1 TMP\_401 = 1 not(TMP\_401) = 0 TMP\_402 = 1 not(TMP\_402) = 0 TMP\_403 = 1 not(TMP\_403) = 0 TMP\_404 = 1 not(TMP\_404) = 0 TMP\_405 = 5 TMP\_406 = 0 not(TMP\_406) = 1 TMP\_407 = 0 not(TMP\_407) = 1 TMP\_408 = 0 TMP\_409 = 1 not(TMP\_409) = 0 TMP\_410 = 1 not(TMP\_410) = 0 TMP\_411 = 2 TMP\_412 = 0 not(TMP\_412) = 1 TMP\_413 = 0 not(TMP\_413) = 1 TMP\_414 = 1 not(TMP\_414) = 0 TMP\_415 = 1 not(TMP\_415) = 0 TMP\_416 = 1 not(TMP\_416) = 0 TMP\_417 = 2 TMP\_418 = 1 not(TMP\_418) = 0 TMP\_419 = 0 not(TMP\_419) = 1 TMP\_420 = 1 not(TMP\_420) = 0 TMP\_421 = 1 not(TMP\_421) = 0 TMP\_422 = 1 not(TMP\_422) = 0 TMP\_423 = 1 not(TMP\_423) = 0 TMP\_424 = 5 TMP\_425 = 0 not(TMP\_425) = 1 TMP\_426 = 0 not(TMP\_426) = 1 TMP\_427 = 0 TMP\_428 = 1 not(TMP\_428) = 0 TMP\_429 = 1 not(TMP\_429) = 0 TMP\_430 = 2 TMP\_431 = 0 not(TMP\_431) = 1 TMP\_432 = 0 not(TMP\_432) = 1 TMP\_433 = 1 not(TMP\_433) = 0 TMP\_434 = 1 not(TMP\_434) = 0 TMP\_435 = 1 not(TMP\_435) = 0 TMP\_436 = 2 TMP\_437 = 1 not(TMP\_437) = 0 TMP\_438 = 0 not(TMP\_438) = 1 TMP\_439 = 1 not(TMP\_439) = 0 TMP\_440 = 1 not(TMP\_440) = 0 TMP\_441 = 1 not(TMP\_441) = 0 TMP\_442 = 0 not(TMP\_442) = 1 TMP\_443 = 4 TMP\_444 = 0 not(TMP\_444) = 1 TMP\_445 = 0 not(TMP\_445) = 1 TMP\_446 = 0 TMP\_447 = 1 not(TMP\_447) = 0 TMP\_448 = 1 not(TMP\_448) = 0 TMP\_449 = 2 TMP\_450 = 0 not(TMP\_450) = 1 TMP\_451 = 0 not(TMP\_451) = 1 TMP\_452 = 1 not(TMP\_452) = 0 TMP\_453 = 1 not(TMP\_453) = 0 TMP\_454 = 1 not(TMP\_454) = 0 TMP\_455 = 2 TMP\_456 = 1 not(TMP\_456) = 0 TMP\_457 = 0 not(TMP\_457) = 1 TMP\_458 = 1 not(TMP\_458) = 0 TMP\_459 = 1 not(TMP\_459) = 0 TMP\_460 = 1 not(TMP\_460) = 0 TMP\_461 = 0 not(TMP\_461) = 1 TMP\_462 = 4 TMP\_463 = 0 not(TMP\_463) = 1 TMP\_464 = 0 not(TMP\_464) = 1 TMP\_465 = 0 TMP\_466 = 1 not(TMP\_466) = 0 TMP\_467 = 1 not(TMP\_467) = 0 TMP\_468 = 2 TMP\_469 = 0 not(TMP\_469) = 1 TMP\_470 = 0 not(TMP\_470) = 1 TMP\_471 = 1 not(TMP\_471) = 0 TMP\_472 = 1 not(TMP\_472) = 0 TMP\_473 = 1 not(TMP\_473) = 0 TMP\_474 = 2 TMP\_475 = 1 not(TMP\_475) = 0 TMP\_476 = 0 not(TMP\_476) = 1 TMP\_477 = 1 not(TMP\_477) = 0 TMP\_478 = 1 not(TMP\_478) = 0 TMP\_479 = 1 not(TMP\_479) = 0 TMP\_480 = 1 not(TMP\_480) = 0 TMP\_481 = 5 TMP\_482 = 0 not(TMP\_482) = 1 TMP\_483 = 0 not(TMP\_483) = 1 TMP\_484 = 0 TMP\_485 = 1 not(TMP\_485) = 0 TMP\_486 = 1 not(TMP\_486) = 0 TMP\_487 = 2 TMP\_488 = 0 not(TMP\_488) = 1 TMP\_489 = 0 not(TMP\_489) = 1 TMP\_490 = 1 not(TMP\_490) = 0 TMP\_491 = 1 not(TMP\_491) = 0 TMP\_492 = 1 not(TMP\_492) = 0 TMP\_493 = 2 TMP\_494 = 1 not(TMP\_494) = 0 TMP\_495 = 1 not(TMP\_495) = 0 TMP\_496 = 1 not(TMP\_496) = 0 TMP\_497 = 1 not(TMP\_497) = 0 TMP\_498 = 1 not(TMP\_498) = 0 TMP\_499 = 0 not(TMP\_499) = 1 TMP\_500 = 5 TMP\_501 = 0 not(TMP\_501) = 1 TMP\_502 = 0 not(TMP\_502) = 1 TMP\_503 = 0 TMP\_504 = 1 not(TMP\_504) = 0 TMP\_505 = 1 not(TMP\_505) = 0 TMP\_506 = 2 TMP\_507 = 0 not(TMP\_507) = 1 TMP\_508 = 0 not(TMP\_508) = 1 TMP\_509 = 1 not(TMP\_509) = 0 TMP\_510 = 1 not(TMP\_510) = 0 TMP\_511 = 1 not(TMP\_511) = 0 TMP\_512 = 2 TMP\_513 = 0 not(TMP\_513) = 1 TMP\_514 = 1 not(TMP\_514) = 0 TMP\_515 = 1 not(TMP\_515) = 0 TMP\_516 = 1 not(TMP\_516) = 0 TMP\_517 = 1 not(TMP\_517) = 0 TMP\_518 = 1 not(TMP\_518) = 0 TMP\_519 = 5 TMP\_520 = 0 not(TMP\_520) = 1 TMP\_521 = 0 not(TMP\_521) = 1 TMP\_522 = 0 TMP\_523 = 1 not(TMP\_523) = 0 TMP\_524 = 1 not(TMP\_524) = 0 TMP\_525 = 2 TMP\_526 = 0 not(TMP\_526) = 1 TMP\_527 = 0 not(TMP\_527) = 1 TMP\_528 = 1 not(TMP\_528) = 0 TMP\_529 = 1 not(TMP\_529) = 0 TMP\_530 = 1 not(TMP\_530) = 0 TMP\_531 = 2 TMP\_532 = 1 not(TMP\_532) = 0 TMP\_533 = 0 not(TMP\_533) = 1 TMP\_534 = 1 not(TMP\_534) = 0 TMP\_535 = 1 not(TMP\_535) = 0 TMP\_536 = 1 not(TMP\_536) = 0 TMP\_537 = 1 not(TMP\_537) = 0 TMP\_538 = 5 TMP\_539 = 0 not(TMP\_539) = 1 TMP\_540 = 0 not(TMP\_540) = 1 TMP\_541 = 0 TMP\_542 = 1 not(TMP\_542) = 0 TMP\_543 = 1 not(TMP\_543) = 0 TMP\_544 = 2 TMP\_545 = 0 not(TMP\_545) = 1 TMP\_546 = 0 not(TMP\_546) = 1 TMP\_547 = 1 not(TMP\_547) = 0 TMP\_548 = 1 not(TMP\_548) = 0 TMP\_549 = 1 not(TMP\_549) = 0 TMP\_550 = 2 TMP\_551 = 1 not(TMP\_551) = 0 TMP\_552 = 0 not(TMP\_552) = 1 TMP\_553 = 1 not(TMP\_553) = 0 TMP\_554 = 1 not(TMP\_554) = 0 TMP\_555 = 0 not(TMP\_555) = 1 TMP\_556 = 1 not(TMP\_556) = 0 TMP\_557 = 4 TMP\_558 = 0 not(TMP\_558) = 1 TMP\_559 = 0 not(TMP\_559) = 1 TMP\_560 = 0 TMP\_561 = 1 not(TMP\_561) = 0 TMP\_562 = 1 not(TMP\_562) = 0 TMP\_563 = 2 TMP\_564 = 0 not(TMP\_564) = 1 TMP\_565 = 0 not(TMP\_565) = 1 TMP\_566 = 1 not(TMP\_566) = 0 TMP\_567 = 1 not(TMP\_567) = 0 TMP\_568 = 1 not(TMP\_568) = 0 TMP\_569 = 2 TMP\_570 = 1 not(TMP\_570) = 0 TMP\_571 = 0 not(TMP\_571) = 1 TMP\_572 = 1 not(TMP\_572) = 0 TMP\_573 = 1 not(TMP\_573) = 0 TMP\_574 = 0 not(TMP\_574) = 1 TMP\_575 = 1 not(TMP\_575) = 0 TMP\_576 = 4 TMP\_577 = 0 not(TMP\_577) = 1 TMP\_578 = 0 not(TMP\_578) = 1 TMP\_579 = 0 TMP\_580 = 1 not(TMP\_580) = 0 TMP\_581 = 1 not(TMP\_581) = 0 TMP\_582 = 2 TMP\_583 = 0 not(TMP\_583) = 1 TMP\_584 = 0 not(TMP\_584) = 1 TMP\_585 = 1 not(TMP\_585) = 0 TMP\_586 = 1 not(TMP\_586) = 0 TMP\_587 = 1 not(TMP\_587) = 0 TMP\_588 = 2 TMP\_589 = 1 not(TMP\_589) = 0 TMP\_590 = 0 not(TMP\_590) = 1 TMP\_591 = 1 not(TMP\_591) = 0 TMP\_592 = 1 not(TMP\_592) = 0 TMP\_593 = 0 not(TMP\_593) = 1 TMP\_594 = 1 not(TMP\_594) = 0 TMP\_595 = 4 TMP\_596 = 0 not(TMP\_596) = 1 TMP\_597 = 0 not(TMP\_597) = 1 TMP\_598 = 0 TMP\_599 = 1 not(TMP\_599) = 0 TMP\_600 = 1 not(TMP\_600) = 0 TMP\_601 = 2 TMP\_602 = 0 not(TMP\_602) = 1 TMP\_603 = 0 not(TMP\_603) = 1 TMP\_604 = 1 not(TMP\_604) = 0 TMP\_605 = 1 not(TMP\_605) = 0 TMP\_606 = 1 not(TMP\_606) = 0 TMP\_607 = 2 TMP\_608 = 1 not(TMP\_608) = 0 TMP\_609 = 0 not(TMP\_609) = 1 TMP\_610 = 1 not(TMP\_610) = 0 TMP\_611 = 1 not(TMP\_611) = 0 TMP\_612 = 1 not(TMP\_612) = 0 TMP\_613 = 1 not(TMP\_613) = 0 TMP\_614 = 5 TMP\_615 = 0 not(TMP\_615) = 1 TMP\_616 = 0 not(TMP\_616) = 1 TMP\_617 = 0 TMP\_618 = 1 not(TMP\_618) = 0 TMP\_619 = 1 not(TMP\_619) = 0 TMP\_620 = 2 TMP\_621 = 0 not(TMP\_621) = 1 TMP\_622 = 0 not(TMP\_622) = 1 TMP\_623 = 1 not(TMP\_623) = 0 TMP\_624 = 1 not(TMP\_624) = 0 TMP\_625 = 1 not(TMP\_625) = 0 TMP\_626 = 2 TMP\_627 = 1 not(TMP\_627) = 0 TMP\_628 = 0 not(TMP\_628) = 1 TMP\_629 = 1 not(TMP\_629) = 0 TMP\_630 = 1 not(TMP\_630) = 0 TMP\_631 = 1 not(TMP\_631) = 0 TMP\_632 = 1 not(TMP\_632) = 0 TMP\_633 = 5 TMP\_634 = 0 not(TMP\_634) = 1 TMP\_635 = 0 not(TMP\_635) = 1 TMP\_636 = 0 TMP\_637 = 1 not(TMP\_637) = 0 TMP\_638 = 1 not(TMP\_638) = 0 TMP\_639 = 2 TMP\_640 = 0 not(TMP\_640) = 1 TMP\_641 = 0 not(TMP\_641) = 1 TMP\_642 = 1 not(TMP\_642) = 0 TMP\_643 = 1 not(TMP\_643) = 0 TMP\_644 = 1 not(TMP\_644) = 0 TMP\_645 = 2 TMP\_646 = 1 not(TMP\_646) = 0 TMP\_647 = 0 not(TMP\_647) = 1 TMP\_648 = 1 not(TMP\_648) = 0 TMP\_649 = 1 not(TMP\_649) = 0 TMP\_650 = 0 not(TMP\_650) = 1 TMP\_651 = 1 not(TMP\_651) = 0 TMP\_652 = 4 TMP\_653 = 0 not(TMP\_653) = 1 TMP\_654 = 0 not(TMP\_654) = 1 TMP\_655 = 0 TMP\_656 = 1 not(TMP\_656) = 0 TMP\_657 = 1 not(TMP\_657) = 0 TMP\_658 = 2 TMP\_659 = 0 not(TMP\_659) = 1 TMP\_660 = 0 not(TMP\_660) = 1 TMP\_661 = 1 not(TMP\_661) = 0 TMP\_662 = 1 not(TMP\_662) = 0 TMP\_663 = 1 not(TMP\_663) = 0 TMP\_664 = 2 TMP\_665 = 1 not(TMP\_665) = 0 TMP\_666 = 1 not(TMP\_666) = 0 TMP\_667 = 1 not(TMP\_667) = 0 TMP\_668 = 1 not(TMP\_668) = 0 TMP\_669 = 0 not(TMP\_669) = 1 TMP\_670 = 1 not(TMP\_670) = 0 TMP\_671 = 5 TMP\_672 = 0 not(TMP\_672) = 1 TMP\_673 = 0 not(TMP\_673) = 1 TMP\_674 = 0 TMP\_675 = 1 not(TMP\_675) = 0 TMP\_676 = 1 not(TMP\_676) = 0 TMP\_677 = 2 TMP\_678 = 0 not(TMP\_678) = 1 TMP\_679 = 0 not(TMP\_679) = 1 TMP\_680 = 1 not(TMP\_680) = 0 TMP\_681 = 1 not(TMP\_681) = 0 TMP\_682 = 1 not(TMP\_682) = 0 TMP\_683 = 2 Area\_0 = 60 Distance\_0\_Rule\_0 = 20 Distance\_1\_Rule\_0 = 3 Distance\_2\_Rule\_0 = 1 Area\_1 = 174 Distance\_0\_Rule\_1 = 58 Distance\_1\_Rule\_1 = 3 Distance\_2\_Rule\_1 = 1 Area\_2 = 116 Distance\_0\_Rule\_2 = 58 Distance\_1\_Rule\_2 = 2 Distance\_2\_Rule\_2 = 1 Area\_3 = 58 Distance\_0\_Rule\_3 = 58 Distance\_1\_Rule\_3 = 1 Distance\_2\_Rule\_3 = 1 Area\_4 = 120 Distance\_0\_Rule\_4 = 40 Distance\_1\_Rule\_4 = 3 Distance\_2\_Rule\_4 = 1 Area\_5 = 120 Distance\_0\_Rule\_5 = 40 Distance\_1\_Rule\_5 = 3 Distance\_2\_Rule\_5 = 1 Area\_6 = 3 -(Rule\_6\_LB) = -79 Distance\_0\_Rule\_6 = 1 -(Rule\_6\_LB) = 0 Distance\_1\_Rule\_6 = 3 -(Rule\_6\_LB) = -1 Distance\_2\_Rule\_6 = 1 Area\_7 = 3 -(Rule\_7\_LB) = -79 Distance\_0\_Rule\_7 = 1 -(Rule\_7\_LB) = 0 Distance\_1\_Rule\_7 = 3 -(Rule\_7\_LB) = 0 Distance\_2\_Rule\_7 = 1 Area\_8 = 63 -(Rule\_8\_LB) = 0 Distance\_0\_Rule\_8 = 21 -(Rule\_8\_LB) = 0 Distance\_1\_Rule\_8 = 3 -(Rule\_8\_LB) = 0 Distance\_2\_Rule\_8 = 1 Area\_9 = 3 -(Rule\_9\_LB) = -20 Distance\_0\_Rule\_9 = 1 -(Rule\_9\_LB) = 0 Distance\_1\_Rule\_9 = 3 -(Rule\_9\_LB) = -1 Distance\_2\_Rule\_9 = 1 TMP\_684 = 720 .

- Solution #11 found. 11 Solutions, Resolution 1.453s, 727 Nodes (500.2 n/s), 1345 Backtracks, 670 Fails, 0 Restarts

Rule\_6\_LB = 79 Rule\_6\_UB = 80 Rule\_6\_LB = 0 Rule\_6\_UB = 3 Rule\_6\_LB = 1 Rule\_6\_UB = 2 Rule\_7\_LB = 79 Rule\_7\_UB = 80 Rule\_7\_LB = 0 Rule\_7\_UB = 3 Rule\_7\_LB = 0 Rule\_7\_UB = 1 Rule\_8\_LB = 0 Rule\_8\_UB = 21 Rule\_8\_LB = 0 Rule\_8\_UB = 3 Rule\_8\_LB = 0 Rule\_8\_UB = 1 Rule\_9\_LB = 20 Rule\_9\_UB = 21 Rule\_9\_LB = 0 Rule\_9\_UB = 3 Rule\_9\_LB = 1 Rule\_9\_UB = 2 Overlaps\_0\_0 = 0 Overlaps\_0\_1 = 0 Overlaps\_0\_2 = 0 Overlaps\_0\_3 = 0 Overlaps\_0\_4 = 0 Overlaps\_0\_5 = 0 Overlaps\_0\_6 = 0 Overlaps\_0\_7 = 0 Overlaps\_0\_8 = 0 Overlaps\_0\_9 = 0 Overlaps\_1\_0 = 0 Overlaps\_1\_1 = 0 Overlaps\_1\_2 = 1 Overlaps\_1\_3 = 0 Overlaps\_1\_4 = 0 Overlaps\_1\_5 = 0 Overlaps\_1\_6 = 0 Overlaps\_1\_7 = 0 Overlaps\_1\_8 = 0 Overlaps\_1\_9 = 0 Overlaps\_2\_0 = 0 Overlaps\_2\_1 = 0 Overlaps\_2\_2 = 0 Overlaps\_2\_3 = 0 Overlaps\_2\_4 = 0 Overlaps\_2\_5 = 0 Overlaps\_2\_6 = 0 Overlaps\_2\_7 = 0 Overlaps\_2\_8 = 0 Overlaps\_2\_9 = 0 Overlaps\_3\_0 = 0 Overlaps\_3\_1 = 0 Overlaps\_3\_2 = 0 Overlaps\_3\_3 = 0 Overlaps\_3\_4 = 0 Overlaps\_3\_5 = 0 Overlaps\_3\_6 = 0 Overlaps\_3\_7 = 0 Overlaps\_3\_8 = 0 Overlaps\_3\_9 = 0 Overlaps\_4\_0 = 0 Overlaps\_4\_1 = 0 Overlaps\_4\_2 = 0 Overlaps\_4\_3 = 0 Overlaps\_4\_4 = 0 Overlaps\_4\_5 = 0 Overlaps\_4\_6 = 0 Overlaps\_4\_7 = 0 Overlaps\_4\_8 = 0 Overlaps\_4\_9 = 0 Overlaps\_5\_0 = 1 Overlaps\_5\_1 = 0 Overlaps\_5\_2 = 0 Overlaps\_5\_3 = 0 Overlaps\_5\_4 = 0 Overlaps\_5\_5 = 0 Overlaps\_5\_6 = 0 Overlaps\_5\_7 = 0 Overlaps\_5\_8 = 0 Overlaps\_5\_9 = 0 Overlaps\_6\_0 = 0 Overlaps\_6\_1 = 0 Overlaps\_6\_2 = 0 Overlaps\_6\_3 = 0 Overlaps\_6\_4 = 0 Overlaps\_6\_5 = 0 Overlaps\_6\_6 = 0 Overlaps\_6\_7 = 0 Overlaps\_6\_8 = 0 Overlaps\_6\_9 = 0 Overlaps\_7\_0 = 0 Overlaps\_7\_1 = 0 Overlaps\_7\_2 = 0 Overlaps\_7\_3 = 0 Overlaps\_7\_4 = 0 Overlaps\_7\_5 = 0 Overlaps\_7\_6 = 0 Overlaps\_7\_7 = 0 Overlaps\_7\_8 = 0 Overlaps\_7\_9 = 0 Overlaps\_8\_0 = 0 Overlaps\_8\_1 = 0 Overlaps\_8\_2 = 0 Overlaps\_8\_3 = 0 Overlaps\_8\_4 = 0 Overlaps\_8\_5 = 0 Overlaps\_8\_6 = 0 Overlaps\_8\_7 = 0 Overlaps\_8\_8 = 0 Overlaps\_8\_9 = 0 Overlaps\_9\_0 = 0 Overlaps\_9\_1 = 0 Overlaps\_9\_2 = 0 Overlaps\_9\_3 = 0 Overlaps\_9\_4 = 0 Overlaps\_9\_5 = 0 Overlaps\_9\_6 = 0 Overlaps\_9\_7 = 0 Overlaps\_9\_8 = 0 Overlaps\_9\_9 = 0 TMP\_0 = 0 not(TMP\_0) = 1 TMP\_1 = 1 not(TMP\_1) = 0 TMP\_2 = 1 not(TMP\_2) = 0 TMP\_3 = 1 not(TMP\_3) = 0 TMP\_4 = 1 not(TMP\_4) = 0 TMP\_5 = 1 not(TMP\_5) = 0 TMP\_6 = 5 TMP\_7 = 0 not(TMP\_7) = 1 TMP\_8 = 0 not(TMP\_8) = 1 TMP\_9 = 0 TMP\_10 = 1 not(TMP\_10) = 0 TMP\_11 = 1 not(TMP\_11) = 0 TMP\_12 = 2 TMP\_13 = 0 not(TMP\_13) = 1 TMP\_14 = 0 not(TMP\_14) = 1 TMP\_15 = 1 not(TMP\_15) = 0 TMP\_16 = 1 not(TMP\_16) = 0 TMP\_17 = 1 not(TMP\_17) = 0 TMP\_18 = 2 TMP\_19 = 0 not(TMP\_19) = 1 TMP\_20 = 1 not(TMP\_20) = 0 TMP\_21 = 1 not(TMP\_21) = 0 TMP\_22 = 1 not(TMP\_22) = 0 TMP\_23 = 1 not(TMP\_23) = 0 TMP\_24 = 1 not(TMP\_24) = 0 TMP\_25 = 5 TMP\_26 = 0 not(TMP\_26) = 1 TMP\_27 = 0 not(TMP\_27) = 1 TMP\_28 = 0 TMP\_29 = 1 not(TMP\_29) = 0 TMP\_30 = 1 not(TMP\_30) = 0 TMP\_31 = 2 TMP\_32 = 0 not(TMP\_32) = 1 TMP\_33 = 0 not(TMP\_33) = 1 TMP\_34 = 1 not(TMP\_34) = 0 TMP\_35 = 1 not(TMP\_35) = 0 TMP\_36 = 1 not(TMP\_36) = 0 TMP\_37 = 2 TMP\_38 = 0 not(TMP\_38) = 1 TMP\_39 = 1 not(TMP\_39) = 0 TMP\_40 = 1 not(TMP\_40) = 0 TMP\_41 = 1 not(TMP\_41) = 0 TMP\_42 = 0 not(TMP\_42) = 1 TMP\_43 = 1 not(TMP\_43) = 0 TMP\_44 = 4 TMP\_45 = 0 not(TMP\_45) = 1 TMP\_46 = 0 not(TMP\_46) = 1 TMP\_47 = 0 TMP\_48 = 1 not(TMP\_48) = 0 TMP\_49 = 1 not(TMP\_49) = 0 TMP\_50 = 2 TMP\_51 = 0 not(TMP\_51) = 1 TMP\_52 = 0 not(TMP\_52) = 1 TMP\_53 = 1 not(TMP\_53) = 0 TMP\_54 = 1 not(TMP\_54) = 0 TMP\_55 = 1 not(TMP\_55) = 0 TMP\_56 = 2 TMP\_57 = 0 not(TMP\_57) = 1 TMP\_58 = 1 not(TMP\_58) = 0 TMP\_59 = 1 not(TMP\_59) = 0 TMP\_60 = 1 not(TMP\_60) = 0 TMP\_61 = 0 not(TMP\_61) = 1 TMP\_62 = 1 not(TMP\_62) = 0 TMP\_63 = 4 TMP\_64 = 0 not(TMP\_64) = 1 TMP\_65 = 0 not(TMP\_65) = 1 TMP\_66 = 0 TMP\_67 = 1 not(TMP\_67) = 0 TMP\_68 = 1 not(TMP\_68) = 0 TMP\_69 = 2 TMP\_70 = 0 not(TMP\_70) = 1 TMP\_71 = 0 not(TMP\_71) = 1 TMP\_72 = 1 not(TMP\_72) = 0 TMP\_73 = 1 not(TMP\_73) = 0 TMP\_74 = 1 not(TMP\_74) = 0 TMP\_75 = 2 TMP\_76 = 1 not(TMP\_76) = 0 TMP\_77 = 0 not(TMP\_77) = 1 TMP\_78 = 1 not(TMP\_78) = 0 TMP\_79 = 1 not(TMP\_79) = 0 TMP\_80 = 0 not(TMP\_80) = 1 TMP\_81 = 1 not(TMP\_81) = 0 TMP\_82 = 4 TMP\_83 = 0 not(TMP\_83) = 1 TMP\_84 = 0 not(TMP\_84) = 1 TMP\_85 = 0 TMP\_86 = 1 not(TMP\_86) = 0 TMP\_87 = 1 not(TMP\_87) = 0 TMP\_88 = 2 TMP\_89 = 0 not(TMP\_89) = 1 TMP\_90 = 0 not(TMP\_90) = 1 TMP\_91 = 1 not(TMP\_91) = 0 TMP\_92 = 1 not(TMP\_92) = 0 TMP\_93 = 1 not(TMP\_93) = 0 TMP\_94 = 2 TMP\_95 = 1 not(TMP\_95) = 0 TMP\_96 = 0 not(TMP\_96) = 1 TMP\_97 = 1 not(TMP\_97) = 0 TMP\_98 = 1 not(TMP\_98) = 0 TMP\_99 = 1 not(TMP\_99) = 0 TMP\_100 = 1 not(TMP\_100) = 0 TMP\_101 = 5 TMP\_102 = 0 not(TMP\_102) = 1 TMP\_103 = 0 not(TMP\_103) = 1 TMP\_104 = 0 TMP\_105 = 1 not(TMP\_105) = 0 TMP\_106 = 1 not(TMP\_106) = 0 TMP\_107 = 2 TMP\_108 = 0 not(TMP\_108) = 1 TMP\_109 = 0 not(TMP\_109) = 1 TMP\_110 = 1 not(TMP\_110) = 0 TMP\_111 = 1 not(TMP\_111) = 0 TMP\_112 = 1 not(TMP\_112) = 0 TMP\_113 = 2 TMP\_114 = 1 not(TMP\_114) = 0 TMP\_115 = 1 not(TMP\_115) = 0 TMP\_116 = 1 not(TMP\_116) = 0 TMP\_117 = 1 not(TMP\_117) = 0 TMP\_118 = 0 not(TMP\_118) = 1 TMP\_119 = 1 not(TMP\_119) = 0 TMP\_120 = 5 TMP\_121 = 0 not(TMP\_121) = 1 TMP\_122 = 0 not(TMP\_122) = 1 TMP\_123 = 0 TMP\_124 = 1 not(TMP\_124) = 0 TMP\_125 = 1 not(TMP\_125) = 0 TMP\_126 = 2 TMP\_127 = 0 not(TMP\_127) = 1 TMP\_128 = 0 not(TMP\_128) = 1 TMP\_129 = 1 not(TMP\_129) = 0 TMP\_130 = 1 not(TMP\_130) = 0 TMP\_131 = 1 not(TMP\_131) = 0 TMP\_132 = 2 TMP\_133 = 0 not(TMP\_133) = 1 TMP\_134 = 1 not(TMP\_134) = 0 TMP\_135 = 1 not(TMP\_135) = 0 TMP\_136 = 1 not(TMP\_136) = 0 TMP\_137 = 0 not(TMP\_137) = 1 TMP\_138 = 1 not(TMP\_138) = 0 TMP\_139 = 4 TMP\_140 = 0 not(TMP\_140) = 1 TMP\_141 = 0 not(TMP\_141) = 1 TMP\_142 = 0 TMP\_143 = 1 not(TMP\_143) = 0 TMP\_144 = 1 not(TMP\_144) = 0 TMP\_145 = 2 TMP\_146 = 0 not(TMP\_146) = 1 TMP\_147 = 0 not(TMP\_147) = 1 TMP\_148 = 1 not(TMP\_148) = 0 TMP\_149 = 1 not(TMP\_149) = 0 TMP\_150 = 1 not(TMP\_150) = 0 TMP\_151 = 2 TMP\_152 = 0 not(TMP\_152) = 1 TMP\_153 = 1 not(TMP\_153) = 0 TMP\_154 = 1 not(TMP\_154) = 0 TMP\_155 = 1 not(TMP\_155) = 0 TMP\_156 = 1 not(TMP\_156) = 0 TMP\_157 = 1 not(TMP\_157) = 0 TMP\_158 = 5 TMP\_159 = 0 not(TMP\_159) = 1 TMP\_160 = 0 not(TMP\_160) = 1 TMP\_161 = 0 TMP\_162 = 1 not(TMP\_162) = 0 TMP\_163 = 1 not(TMP\_163) = 0 TMP\_164 = 2 TMP\_165 = 0 not(TMP\_165) = 1 TMP\_166 = 0 not(TMP\_166) = 1 TMP\_167 = 1 not(TMP\_167) = 0 TMP\_168 = 1 not(TMP\_168) = 0 TMP\_169 = 1 not(TMP\_169) = 0 TMP\_170 = 2 TMP\_171 = 0 not(TMP\_171) = 1 TMP\_172 = 1 not(TMP\_172) = 0 TMP\_173 = 1 not(TMP\_173) = 0 TMP\_174 = 1 not(TMP\_174) = 0 TMP\_175 = 1 not(TMP\_175) = 0 TMP\_176 = 0 not(TMP\_176) = 1 TMP\_177 = 4 TMP\_178 = 0 not(TMP\_178) = 1 TMP\_179 = 0 not(TMP\_179) = 1 TMP\_180 = 0 TMP\_181 = 1 not(TMP\_181) = 0 TMP\_182 = 1 not(TMP\_182) = 0 TMP\_183 = 2 TMP\_184 = 0 not(TMP\_184) = 1 TMP\_185 = 0 not(TMP\_185) = 1 TMP\_186 = 1 not(TMP\_186) = 0 TMP\_187 = 1 not(TMP\_187) = 0 TMP\_188 = 1 not(TMP\_188) = 0 TMP\_189 = 2 TMP\_190 = 0 not(TMP\_190) = 1 TMP\_191 = 1 not(TMP\_191) = 0 TMP\_192 = 1 not(TMP\_192) = 0 TMP\_193 = 1 not(TMP\_193) = 0 TMP\_194 = 1 not(TMP\_194) = 0 TMP\_195 = 0 not(TMP\_195) = 1 TMP\_196 = 4 TMP\_197 = 0 not(TMP\_197) = 1 TMP\_198 = 0 not(TMP\_198) = 1 TMP\_199 = 0 TMP\_200 = 1 not(TMP\_200) = 0 TMP\_201 = 1 not(TMP\_201) = 0 TMP\_202 = 2 TMP\_203 = 0 not(TMP\_203) = 1 TMP\_204 = 0 not(TMP\_204) = 1 TMP\_205 = 1 not(TMP\_205) = 0 TMP\_206 = 1 not(TMP\_206) = 0 TMP\_207 = 1 not(TMP\_207) = 0 TMP\_208 = 2 TMP\_209 = 0 not(TMP\_209) = 1 TMP\_210 = 1 not(TMP\_210) = 0 TMP\_211 = 1 not(TMP\_211) = 0 TMP\_212 = 1 not(TMP\_212) = 0 TMP\_213 = 1 not(TMP\_213) = 0 TMP\_214 = 1 not(TMP\_214) = 0 TMP\_215 = 5 TMP\_216 = 0 not(TMP\_216) = 1 TMP\_217 = 0 not(TMP\_217) = 1 TMP\_218 = 0 TMP\_219 = 1 not(TMP\_219) = 0 TMP\_220 = 1 not(TMP\_220) = 0 TMP\_221 = 2 TMP\_222 = 0 not(TMP\_222) = 1 TMP\_223 = 0 not(TMP\_223) = 1 TMP\_224 = 1 not(TMP\_224) = 0 TMP\_225 = 1 not(TMP\_225) = 0 TMP\_226 = 1 not(TMP\_226) = 0 TMP\_227 = 2 TMP\_228 = 0 not(TMP\_228) = 1 TMP\_229 = 1 not(TMP\_229) = 0 TMP\_230 = 1 not(TMP\_230) = 0 TMP\_231 = 1 not(TMP\_231) = 0 TMP\_232 = 1 not(TMP\_232) = 0 TMP\_233 = 1 not(TMP\_233) = 0 TMP\_234 = 5 TMP\_235 = 0 not(TMP\_235) = 1 TMP\_236 = 0 not(TMP\_236) = 1 TMP\_237 = 0 TMP\_238 = 1 not(TMP\_238) = 0 TMP\_239 = 1 not(TMP\_239) = 0 TMP\_240 = 2 TMP\_241 = 0 not(TMP\_241) = 1 TMP\_242 = 0 not(TMP\_242) = 1 TMP\_243 = 1 not(TMP\_243) = 0 TMP\_244 = 1 not(TMP\_244) = 0 TMP\_245 = 1 not(TMP\_245) = 0 TMP\_246 = 2 TMP\_247 = 1 not(TMP\_247) = 0 TMP\_248 = 0 not(TMP\_248) = 1 TMP\_249 = 1 not(TMP\_249) = 0 TMP\_250 = 1 not(TMP\_250) = 0 TMP\_251 = 1 not(TMP\_251) = 0 TMP\_252 = 1 not(TMP\_252) = 0 TMP\_253 = 5 TMP\_254 = 0 not(TMP\_254) = 1 TMP\_255 = 0 not(TMP\_255) = 1 TMP\_256 = 0 TMP\_257 = 1 not(TMP\_257) = 0 TMP\_258 = 1 not(TMP\_258) = 0 TMP\_259 = 2 TMP\_260 = 0 not(TMP\_260) = 1 TMP\_261 = 0 not(TMP\_261) = 1 TMP\_262 = 1 not(TMP\_262) = 0 TMP\_263 = 1 not(TMP\_263) = 0 TMP\_264 = 1 not(TMP\_264) = 0 TMP\_265 = 2 TMP\_266 = 1 not(TMP\_266) = 0 TMP\_267 = 0 not(TMP\_267) = 1 TMP\_268 = 1 not(TMP\_268) = 0 TMP\_269 = 1 not(TMP\_269) = 0 TMP\_270 = 1 not(TMP\_270) = 0 TMP\_271 = 0 not(TMP\_271) = 1 TMP\_272 = 4 TMP\_273 = 0 not(TMP\_273) = 1 TMP\_274 = 0 not(TMP\_274) = 1 TMP\_275 = 0 TMP\_276 = 1 not(TMP\_276) = 0 TMP\_277 = 1 not(TMP\_277) = 0 TMP\_278 = 2 TMP\_279 = 0 not(TMP\_279) = 1 TMP\_280 = 0 not(TMP\_280) = 1 TMP\_281 = 1 not(TMP\_281) = 0 TMP\_282 = 1 not(TMP\_282) = 0 TMP\_283 = 1 not(TMP\_283) = 0 TMP\_284 = 2 TMP\_285 = 1 not(TMP\_285) = 0 TMP\_286 = 1 not(TMP\_286) = 0 TMP\_287 = 1 not(TMP\_287) = 0 TMP\_288 = 1 not(TMP\_288) = 0 TMP\_289 = 1 not(TMP\_289) = 0 TMP\_290 = 0 not(TMP\_290) = 1 TMP\_291 = 5 TMP\_292 = 0 not(TMP\_292) = 1 TMP\_293 = 0 not(TMP\_293) = 1 TMP\_294 = 0 TMP\_295 = 1 not(TMP\_295) = 0 TMP\_296 = 1 not(TMP\_296) = 0 TMP\_297 = 2 TMP\_298 = 0 not(TMP\_298) = 1 TMP\_299 = 0 not(TMP\_299) = 1 TMP\_300 = 1 not(TMP\_300) = 0 TMP\_301 = 1 not(TMP\_301) = 0 TMP\_302 = 1 not(TMP\_302) = 0 TMP\_303 = 2 TMP\_304 = 0 not(TMP\_304) = 1 TMP\_305 = 1 not(TMP\_305) = 0 TMP\_306 = 1 not(TMP\_306) = 0 TMP\_307 = 1 not(TMP\_307) = 0 TMP\_308 = 1 not(TMP\_308) = 0 TMP\_309 = 1 not(TMP\_309) = 0 TMP\_310 = 5 TMP\_311 = 0 not(TMP\_311) = 1 TMP\_312 = 0 not(TMP\_312) = 1 TMP\_313 = 0 TMP\_314 = 1 not(TMP\_314) = 0 TMP\_315 = 1 not(TMP\_315) = 0 TMP\_316 = 2 TMP\_317 = 0 not(TMP\_317) = 1 TMP\_318 = 0 not(TMP\_318) = 1 TMP\_319 = 1 not(TMP\_319) = 0 TMP\_320 = 1 not(TMP\_320) = 0 TMP\_321 = 1 not(TMP\_321) = 0 TMP\_322 = 2 TMP\_323 = 0 not(TMP\_323) = 1 TMP\_324 = 1 not(TMP\_324) = 0 TMP\_325 = 1 not(TMP\_325) = 0 TMP\_326 = 1 not(TMP\_326) = 0 TMP\_327 = 1 not(TMP\_327) = 0 TMP\_328 = 0 not(TMP\_328) = 1 TMP\_329 = 4 TMP\_330 = 0 not(TMP\_330) = 1 TMP\_331 = 0 not(TMP\_331) = 1 TMP\_332 = 0 TMP\_333 = 1 not(TMP\_333) = 0 TMP\_334 = 1 not(TMP\_334) = 0 TMP\_335 = 2 TMP\_336 = 0 not(TMP\_336) = 1 TMP\_337 = 0 not(TMP\_337) = 1 TMP\_338 = 1 not(TMP\_338) = 0 TMP\_339 = 1 not(TMP\_339) = 0 TMP\_340 = 1 not(TMP\_340) = 0 TMP\_341 = 2 TMP\_342 = 1 not(TMP\_342) = 0 TMP\_343 = 1 not(TMP\_343) = 0 TMP\_344 = 1 not(TMP\_344) = 0 TMP\_345 = 1 not(TMP\_345) = 0 TMP\_346 = 1 not(TMP\_346) = 0 TMP\_347 = 0 not(TMP\_347) = 1 TMP\_348 = 5 TMP\_349 = 0 not(TMP\_349) = 1 TMP\_350 = 0 not(TMP\_350) = 1 TMP\_351 = 0 TMP\_352 = 1 not(TMP\_352) = 0 TMP\_353 = 1 not(TMP\_353) = 0 TMP\_354 = 2 TMP\_355 = 0 not(TMP\_355) = 1 TMP\_356 = 0 not(TMP\_356) = 1 TMP\_357 = 1 not(TMP\_357) = 0 TMP\_358 = 1 not(TMP\_358) = 0 TMP\_359 = 1 not(TMP\_359) = 0 TMP\_360 = 2 TMP\_361 = 1 not(TMP\_361) = 0 TMP\_362 = 0 not(TMP\_362) = 1 TMP\_363 = 1 not(TMP\_363) = 0 TMP\_364 = 1 not(TMP\_364) = 0 TMP\_365 = 1 not(TMP\_365) = 0 TMP\_366 = 0 not(TMP\_366) = 1 TMP\_367 = 4 TMP\_368 = 0 not(TMP\_368) = 1 TMP\_369 = 0 not(TMP\_369) = 1 TMP\_370 = 0 TMP\_371 = 1 not(TMP\_371) = 0 TMP\_372 = 1 not(TMP\_372) = 0 TMP\_373 = 2 TMP\_374 = 0 not(TMP\_374) = 1 TMP\_375 = 0 not(TMP\_375) = 1 TMP\_376 = 1 not(TMP\_376) = 0 TMP\_377 = 1 not(TMP\_377) = 0 TMP\_378 = 1 not(TMP\_378) = 0 TMP\_379 = 2 TMP\_380 = 1 not(TMP\_380) = 0 TMP\_381 = 0 not(TMP\_381) = 1 TMP\_382 = 1 not(TMP\_382) = 0 TMP\_383 = 1 not(TMP\_383) = 0 TMP\_384 = 1 not(TMP\_384) = 0 TMP\_385 = 1 not(TMP\_385) = 0 TMP\_386 = 5 TMP\_387 = 0 not(TMP\_387) = 1 TMP\_388 = 0 not(TMP\_388) = 1 TMP\_389 = 0 TMP\_390 = 1 not(TMP\_390) = 0 TMP\_391 = 1 not(TMP\_391) = 0 TMP\_392 = 2 TMP\_393 = 0 not(TMP\_393) = 1 TMP\_394 = 0 not(TMP\_394) = 1 TMP\_395 = 1 not(TMP\_395) = 0 TMP\_396 = 1 not(TMP\_396) = 0 TMP\_397 = 1 not(TMP\_397) = 0 TMP\_398 = 2 TMP\_399 = 1 not(TMP\_399) = 0 TMP\_400 = 0 not(TMP\_400) = 1 TMP\_401 = 1 not(TMP\_401) = 0 TMP\_402 = 1 not(TMP\_402) = 0 TMP\_403 = 1 not(TMP\_403) = 0 TMP\_404 = 1 not(TMP\_404) = 0 TMP\_405 = 5 TMP\_406 = 0 not(TMP\_406) = 1 TMP\_407 = 0 not(TMP\_407) = 1 TMP\_408 = 0 TMP\_409 = 1 not(TMP\_409) = 0 TMP\_410 = 1 not(TMP\_410) = 0 TMP\_411 = 2 TMP\_412 = 0 not(TMP\_412) = 1 TMP\_413 = 0 not(TMP\_413) = 1 TMP\_414 = 1 not(TMP\_414) = 0 TMP\_415 = 1 not(TMP\_415) = 0 TMP\_416 = 1 not(TMP\_416) = 0 TMP\_417 = 2 TMP\_418 = 1 not(TMP\_418) = 0 TMP\_419 = 0 not(TMP\_419) = 1 TMP\_420 = 1 not(TMP\_420) = 0 TMP\_421 = 1 not(TMP\_421) = 0 TMP\_422 = 1 not(TMP\_422) = 0 TMP\_423 = 1 not(TMP\_423) = 0 TMP\_424 = 5 TMP\_425 = 0 not(TMP\_425) = 1 TMP\_426 = 0 not(TMP\_426) = 1 TMP\_427 = 0 TMP\_428 = 1 not(TMP\_428) = 0 TMP\_429 = 1 not(TMP\_429) = 0 TMP\_430 = 2 TMP\_431 = 0 not(TMP\_431) = 1 TMP\_432 = 0 not(TMP\_432) = 1 TMP\_433 = 1 not(TMP\_433) = 0 TMP\_434 = 1 not(TMP\_434) = 0 TMP\_435 = 1 not(TMP\_435) = 0 TMP\_436 = 2 TMP\_437 = 1 not(TMP\_437) = 0 TMP\_438 = 0 not(TMP\_438) = 1 TMP\_439 = 1 not(TMP\_439) = 0 TMP\_440 = 1 not(TMP\_440) = 0 TMP\_441 = 1 not(TMP\_441) = 0 TMP\_442 = 0 not(TMP\_442) = 1 TMP\_443 = 4 TMP\_444 = 0 not(TMP\_444) = 1 TMP\_445 = 0 not(TMP\_445) = 1 TMP\_446 = 0 TMP\_447 = 1 not(TMP\_447) = 0 TMP\_448 = 1 not(TMP\_448) = 0 TMP\_449 = 2 TMP\_450 = 0 not(TMP\_450) = 1 TMP\_451 = 0 not(TMP\_451) = 1 TMP\_452 = 1 not(TMP\_452) = 0 TMP\_453 = 1 not(TMP\_453) = 0 TMP\_454 = 1 not(TMP\_454) = 0 TMP\_455 = 2 TMP\_456 = 1 not(TMP\_456) = 0 TMP\_457 = 0 not(TMP\_457) = 1 TMP\_458 = 1 not(TMP\_458) = 0 TMP\_459 = 1 not(TMP\_459) = 0 TMP\_460 = 1 not(TMP\_460) = 0 TMP\_461 = 0 not(TMP\_461) = 1 TMP\_462 = 4 TMP\_463 = 0 not(TMP\_463) = 1 TMP\_464 = 0 not(TMP\_464) = 1 TMP\_465 = 0 TMP\_466 = 1 not(TMP\_466) = 0 TMP\_467 = 1 not(TMP\_467) = 0 TMP\_468 = 2 TMP\_469 = 0 not(TMP\_469) = 1 TMP\_470 = 0 not(TMP\_470) = 1 TMP\_471 = 1 not(TMP\_471) = 0 TMP\_472 = 1 not(TMP\_472) = 0 TMP\_473 = 1 not(TMP\_473) = 0 TMP\_474 = 2 TMP\_475 = 1 not(TMP\_475) = 0 TMP\_476 = 0 not(TMP\_476) = 1 TMP\_477 = 1 not(TMP\_477) = 0 TMP\_478 = 1 not(TMP\_478) = 0 TMP\_479 = 1 not(TMP\_479) = 0 TMP\_480 = 1 not(TMP\_480) = 0 TMP\_481 = 5 TMP\_482 = 0 not(TMP\_482) = 1 TMP\_483 = 0 not(TMP\_483) = 1 TMP\_484 = 0 TMP\_485 = 1 not(TMP\_485) = 0 TMP\_486 = 1 not(TMP\_486) = 0 TMP\_487 = 2 TMP\_488 = 0 not(TMP\_488) = 1 TMP\_489 = 0 not(TMP\_489) = 1 TMP\_490 = 1 not(TMP\_490) = 0 TMP\_491 = 1 not(TMP\_491) = 0 TMP\_492 = 1 not(TMP\_492) = 0 TMP\_493 = 2 TMP\_494 = 1 not(TMP\_494) = 0 TMP\_495 = 1 not(TMP\_495) = 0 TMP\_496 = 1 not(TMP\_496) = 0 TMP\_497 = 1 not(TMP\_497) = 0 TMP\_498 = 1 not(TMP\_498) = 0 TMP\_499 = 0 not(TMP\_499) = 1 TMP\_500 = 5 TMP\_501 = 0 not(TMP\_501) = 1 TMP\_502 = 0 not(TMP\_502) = 1 TMP\_503 = 0 TMP\_504 = 1 not(TMP\_504) = 0 TMP\_505 = 1 not(TMP\_505) = 0 TMP\_506 = 2 TMP\_507 = 0 not(TMP\_507) = 1 TMP\_508 = 0 not(TMP\_508) = 1 TMP\_509 = 1 not(TMP\_509) = 0 TMP\_510 = 1 not(TMP\_510) = 0 TMP\_511 = 1 not(TMP\_511) = 0 TMP\_512 = 2 TMP\_513 = 0 not(TMP\_513) = 1 TMP\_514 = 1 not(TMP\_514) = 0 TMP\_515 = 1 not(TMP\_515) = 0 TMP\_516 = 1 not(TMP\_516) = 0 TMP\_517 = 1 not(TMP\_517) = 0 TMP\_518 = 1 not(TMP\_518) = 0 TMP\_519 = 5 TMP\_520 = 0 not(TMP\_520) = 1 TMP\_521 = 0 not(TMP\_521) = 1 TMP\_522 = 0 TMP\_523 = 1 not(TMP\_523) = 0 TMP\_524 = 1 not(TMP\_524) = 0 TMP\_525 = 2 TMP\_526 = 0 not(TMP\_526) = 1 TMP\_527 = 0 not(TMP\_527) = 1 TMP\_528 = 1 not(TMP\_528) = 0 TMP\_529 = 1 not(TMP\_529) = 0 TMP\_530 = 1 not(TMP\_530) = 0 TMP\_531 = 2 TMP\_532 = 1 not(TMP\_532) = 0 TMP\_533 = 0 not(TMP\_533) = 1 TMP\_534 = 1 not(TMP\_534) = 0 TMP\_535 = 1 not(TMP\_535) = 0 TMP\_536 = 1 not(TMP\_536) = 0 TMP\_537 = 1 not(TMP\_537) = 0 TMP\_538 = 5 TMP\_539 = 0 not(TMP\_539) = 1 TMP\_540 = 0 not(TMP\_540) = 1 TMP\_541 = 0 TMP\_542 = 1 not(TMP\_542) = 0 TMP\_543 = 1 not(TMP\_543) = 0 TMP\_544 = 2 TMP\_545 = 0 not(TMP\_545) = 1 TMP\_546 = 0 not(TMP\_546) = 1 TMP\_547 = 1 not(TMP\_547) = 0 TMP\_548 = 1 not(TMP\_548) = 0 TMP\_549 = 1 not(TMP\_549) = 0 TMP\_550 = 2 TMP\_551 = 1 not(TMP\_551) = 0 TMP\_552 = 0 not(TMP\_552) = 1 TMP\_553 = 1 not(TMP\_553) = 0 TMP\_554 = 1 not(TMP\_554) = 0 TMP\_555 = 0 not(TMP\_555) = 1 TMP\_556 = 1 not(TMP\_556) = 0 TMP\_557 = 4 TMP\_558 = 0 not(TMP\_558) = 1 TMP\_559 = 0 not(TMP\_559) = 1 TMP\_560 = 0 TMP\_561 = 1 not(TMP\_561) = 0 TMP\_562 = 1 not(TMP\_562) = 0 TMP\_563 = 2 TMP\_564 = 0 not(TMP\_564) = 1 TMP\_565 = 0 not(TMP\_565) = 1 TMP\_566 = 1 not(TMP\_566) = 0 TMP\_567 = 1 not(TMP\_567) = 0 TMP\_568 = 1 not(TMP\_568) = 0 TMP\_569 = 2 TMP\_570 = 1 not(TMP\_570) = 0 TMP\_571 = 0 not(TMP\_571) = 1 TMP\_572 = 1 not(TMP\_572) = 0 TMP\_573 = 1 not(TMP\_573) = 0 TMP\_574 = 0 not(TMP\_574) = 1 TMP\_575 = 1 not(TMP\_575) = 0 TMP\_576 = 4 TMP\_577 = 0 not(TMP\_577) = 1 TMP\_578 = 0 not(TMP\_578) = 1 TMP\_579 = 0 TMP\_580 = 1 not(TMP\_580) = 0 TMP\_581 = 1 not(TMP\_581) = 0 TMP\_582 = 2 TMP\_583 = 0 not(TMP\_583) = 1 TMP\_584 = 0 not(TMP\_584) = 1 TMP\_585 = 1 not(TMP\_585) = 0 TMP\_586 = 1 not(TMP\_586) = 0 TMP\_587 = 1 not(TMP\_587) = 0 TMP\_588 = 2 TMP\_589 = 1 not(TMP\_589) = 0 TMP\_590 = 0 not(TMP\_590) = 1 TMP\_591 = 1 not(TMP\_591) = 0 TMP\_592 = 1 not(TMP\_592) = 0 TMP\_593 = 0 not(TMP\_593) = 1 TMP\_594 = 1 not(TMP\_594) = 0 TMP\_595 = 4 TMP\_596 = 0 not(TMP\_596) = 1 TMP\_597 = 0 not(TMP\_597) = 1 TMP\_598 = 0 TMP\_599 = 1 not(TMP\_599) = 0 TMP\_600 = 1 not(TMP\_600) = 0 TMP\_601 = 2 TMP\_602 = 0 not(TMP\_602) = 1 TMP\_603 = 0 not(TMP\_603) = 1 TMP\_604 = 1 not(TMP\_604) = 0 TMP\_605 = 1 not(TMP\_605) = 0 TMP\_606 = 1 not(TMP\_606) = 0 TMP\_607 = 2 TMP\_608 = 1 not(TMP\_608) = 0 TMP\_609 = 0 not(TMP\_609) = 1 TMP\_610 = 1 not(TMP\_610) = 0 TMP\_611 = 1 not(TMP\_611) = 0 TMP\_612 = 1 not(TMP\_612) = 0 TMP\_613 = 1 not(TMP\_613) = 0 TMP\_614 = 5 TMP\_615 = 0 not(TMP\_615) = 1 TMP\_616 = 0 not(TMP\_616) = 1 TMP\_617 = 0 TMP\_618 = 1 not(TMP\_618) = 0 TMP\_619 = 1 not(TMP\_619) = 0 TMP\_620 = 2 TMP\_621 = 0 not(TMP\_621) = 1 TMP\_622 = 0 not(TMP\_622) = 1 TMP\_623 = 1 not(TMP\_623) = 0 TMP\_624 = 1 not(TMP\_624) = 0 TMP\_625 = 1 not(TMP\_625) = 0 TMP\_626 = 2 TMP\_627 = 1 not(TMP\_627) = 0 TMP\_628 = 0 not(TMP\_628) = 1 TMP\_629 = 1 not(TMP\_629) = 0 TMP\_630 = 1 not(TMP\_630) = 0 TMP\_631 = 1 not(TMP\_631) = 0 TMP\_632 = 1 not(TMP\_632) = 0 TMP\_633 = 5 TMP\_634 = 0 not(TMP\_634) = 1 TMP\_635 = 0 not(TMP\_635) = 1 TMP\_636 = 0 TMP\_637 = 1 not(TMP\_637) = 0 TMP\_638 = 1 not(TMP\_638) = 0 TMP\_639 = 2 TMP\_640 = 0 not(TMP\_640) = 1 TMP\_641 = 0 not(TMP\_641) = 1 TMP\_642 = 1 not(TMP\_642) = 0 TMP\_643 = 1 not(TMP\_643) = 0 TMP\_644 = 1 not(TMP\_644) = 0 TMP\_645 = 2 TMP\_646 = 1 not(TMP\_646) = 0 TMP\_647 = 0 not(TMP\_647) = 1 TMP\_648 = 1 not(TMP\_648) = 0 TMP\_649 = 1 not(TMP\_649) = 0 TMP\_650 = 0 not(TMP\_650) = 1 TMP\_651 = 1 not(TMP\_651) = 0 TMP\_652 = 4 TMP\_653 = 0 not(TMP\_653) = 1 TMP\_654 = 0 not(TMP\_654) = 1 TMP\_655 = 0 TMP\_656 = 1 not(TMP\_656) = 0 TMP\_657 = 1 not(TMP\_657) = 0 TMP\_658 = 2 TMP\_659 = 0 not(TMP\_659) = 1 TMP\_660 = 0 not(TMP\_660) = 1 TMP\_661 = 1 not(TMP\_661) = 0 TMP\_662 = 1 not(TMP\_662) = 0 TMP\_663 = 1 not(TMP\_663) = 0 TMP\_664 = 2 TMP\_665 = 1 not(TMP\_665) = 0 TMP\_666 = 1 not(TMP\_666) = 0 TMP\_667 = 1 not(TMP\_667) = 0 TMP\_668 = 1 not(TMP\_668) = 0 TMP\_669 = 0 not(TMP\_669) = 1 TMP\_670 = 1 not(TMP\_670) = 0 TMP\_671 = 5 TMP\_672 = 0 not(TMP\_672) = 1 TMP\_673 = 0 not(TMP\_673) = 1 TMP\_674 = 0 TMP\_675 = 1 not(TMP\_675) = 0 TMP\_676 = 1 not(TMP\_676) = 0 TMP\_677 = 2 TMP\_678 = 0 not(TMP\_678) = 1 TMP\_679 = 0 not(TMP\_679) = 1 TMP\_680 = 1 not(TMP\_680) = 0 TMP\_681 = 1 not(TMP\_681) = 0 TMP\_682 = 1 not(TMP\_682) = 0 TMP\_683 = 2 Area\_0 = 60 Distance\_0\_Rule\_0 = 20 Distance\_1\_Rule\_0 = 3 Distance\_2\_Rule\_0 = 1 Area\_1 = 174 Distance\_0\_Rule\_1 = 58 Distance\_1\_Rule\_1 = 3 Distance\_2\_Rule\_1 = 1 Area\_2 = 116 Distance\_0\_Rule\_2 = 58 Distance\_1\_Rule\_2 = 2 Distance\_2\_Rule\_2 = 1 Area\_3 = 58 Distance\_0\_Rule\_3 = 58 Distance\_1\_Rule\_3 = 1 Distance\_2\_Rule\_3 = 1 Area\_4 = 120 Distance\_0\_Rule\_4 = 40 Distance\_1\_Rule\_4 = 3 Distance\_2\_Rule\_4 = 1 Area\_5 = 120 Distance\_0\_Rule\_5 = 40 Distance\_1\_Rule\_5 = 3 Distance\_2\_Rule\_5 = 1 Area\_6 = 3 -(Rule\_6\_LB) = -79 Distance\_0\_Rule\_6 = 1 -(Rule\_6\_LB) = 0 Distance\_1\_Rule\_6 = 3 -(Rule\_6\_LB) = -1 Distance\_2\_Rule\_6 = 1 Area\_7 = 3 -(Rule\_7\_LB) = -79 Distance\_0\_Rule\_7 = 1 -(Rule\_7\_LB) = 0 Distance\_1\_Rule\_7 = 3 -(Rule\_7\_LB) = 0 Distance\_2\_Rule\_7 = 1 Area\_8 = 63 -(Rule\_8\_LB) = 0 Distance\_0\_Rule\_8 = 21 -(Rule\_8\_LB) = 0 Distance\_1\_Rule\_8 = 3 -(Rule\_8\_LB) = 0 Distance\_2\_Rule\_8 = 1 Area\_9 = 3 -(Rule\_9\_LB) = -20 Distance\_0\_Rule\_9 = 1 -(Rule\_9\_LB) = 0 Distance\_1\_Rule\_9 = 3 -(Rule\_9\_LB) = -1 Distance\_2\_Rule\_9 = 1 TMP\_684 = 720 .

- Solution #12 found. 12 Solutions, Resolution 1.459s, 728 Nodes (499.0 n/s), 1346 Backtracks, 670 Fails, 0 Restarts

Rule\_6\_LB = 79 Rule\_6\_UB = 80 Rule\_6\_LB = 0 Rule\_6\_UB = 3 Rule\_6\_LB = 1 Rule\_6\_UB = 2 Rule\_7\_LB = 79 Rule\_7\_UB = 80 Rule\_7\_LB = 0 Rule\_7\_UB = 3 Rule\_7\_LB = 0 Rule\_7\_UB = 1 Rule\_8\_LB = 0 Rule\_8\_UB = 21 Rule\_8\_LB = 0 Rule\_8\_UB = 3 Rule\_8\_LB = 0 Rule\_8\_UB = 1 Rule\_9\_LB = 20 Rule\_9\_UB = 21 Rule\_9\_LB = 0 Rule\_9\_UB = 3 Rule\_9\_LB = 1 Rule\_9\_UB = 2 Overlaps\_0\_0 = 0 Overlaps\_0\_1 = 0 Overlaps\_0\_2 = 0 Overlaps\_0\_3 = 0 Overlaps\_0\_4 = 0 Overlaps\_0\_5 = 0 Overlaps\_0\_6 = 0 Overlaps\_0\_7 = 0 Overlaps\_0\_8 = 0 Overlaps\_0\_9 = 0 Overlaps\_1\_0 = 0 Overlaps\_1\_1 = 0 Overlaps\_1\_2 = 1 Overlaps\_1\_3 = 0 Overlaps\_1\_4 = 1 Overlaps\_1\_5 = 0 Overlaps\_1\_6 = 0 Overlaps\_1\_7 = 0 Overlaps\_1\_8 = 0 Overlaps\_1\_9 = 0 Overlaps\_2\_0 = 0 Overlaps\_2\_1 = 0 Overlaps\_2\_2 = 0 Overlaps\_2\_3 = 0 Overlaps\_2\_4 = 0 Overlaps\_2\_5 = 0 Overlaps\_2\_6 = 0 Overlaps\_2\_7 = 0 Overlaps\_2\_8 = 0 Overlaps\_2\_9 = 0 Overlaps\_3\_0 = 0 Overlaps\_3\_1 = 0 Overlaps\_3\_2 = 0 Overlaps\_3\_3 = 0 Overlaps\_3\_4 = 0 Overlaps\_3\_5 = 0 Overlaps\_3\_6 = 0 Overlaps\_3\_7 = 0 Overlaps\_3\_8 = 0 Overlaps\_3\_9 = 0 Overlaps\_4\_0 = 0 Overlaps\_4\_1 = 0 Overlaps\_4\_2 = 0 Overlaps\_4\_3 = 0 Overlaps\_4\_4 = 0 Overlaps\_4\_5 = 0 Overlaps\_4\_6 = 0 Overlaps\_4\_7 = 0 Overlaps\_4\_8 = 0 Overlaps\_4\_9 = 0 Overlaps\_5\_0 = 1 Overlaps\_5\_1 = 0 Overlaps\_5\_2 = 0 Overlaps\_5\_3 = 0 Overlaps\_5\_4 = 0 Overlaps\_5\_5 = 0 Overlaps\_5\_6 = 0 Overlaps\_5\_7 = 0 Overlaps\_5\_8 = 0 Overlaps\_5\_9 = 0 Overlaps\_6\_0 = 0 Overlaps\_6\_1 = 0 Overlaps\_6\_2 = 0 Overlaps\_6\_3 = 0 Overlaps\_6\_4 = 0 Overlaps\_6\_5 = 0 Overlaps\_6\_6 = 0 Overlaps\_6\_7 = 0 Overlaps\_6\_8 = 0 Overlaps\_6\_9 = 0 Overlaps\_7\_0 = 0 Overlaps\_7\_1 = 0 Overlaps\_7\_2 = 0 Overlaps\_7\_3 = 0 Overlaps\_7\_4 = 0 Overlaps\_7\_5 = 0 Overlaps\_7\_6 = 0 Overlaps\_7\_7 = 0 Overlaps\_7\_8 = 0 Overlaps\_7\_9 = 0 Overlaps\_8\_0 = 0 Overlaps\_8\_1 = 0 Overlaps\_8\_2 = 0 Overlaps\_8\_3 = 0 Overlaps\_8\_4 = 0 Overlaps\_8\_5 = 0 Overlaps\_8\_6 = 0 Overlaps\_8\_7 = 0 Overlaps\_8\_8 = 0 Overlaps\_8\_9 = 0 Overlaps\_9\_0 = 0 Overlaps\_9\_1 = 0 Overlaps\_9\_2 = 0 Overlaps\_9\_3 = 0 Overlaps\_9\_4 = 0 Overlaps\_9\_5 = 0 Overlaps\_9\_6 = 0 Overlaps\_9\_7 = 0 Overlaps\_9\_8 = 0 Overlaps\_9\_9 = 0 TMP\_0 = 0 not(TMP\_0) = 1 TMP\_1 = 1 not(TMP\_1) = 0 TMP\_2 = 1 not(TMP\_2) = 0 TMP\_3 = 1 not(TMP\_3) = 0 TMP\_4 = 1 not(TMP\_4) = 0 TMP\_5 = 1 not(TMP\_5) = 0 TMP\_6 = 5 TMP\_7 = 0 not(TMP\_7) = 1 TMP\_8 = 0 not(TMP\_8) = 1 TMP\_9 = 0 TMP\_10 = 1 not(TMP\_10) = 0 TMP\_11 = 1 not(TMP\_11) = 0 TMP\_12 = 2 TMP\_13 = 0 not(TMP\_13) = 1 TMP\_14 = 0 not(TMP\_14) = 1 TMP\_15 = 1 not(TMP\_15) = 0 TMP\_16 = 1 not(TMP\_16) = 0 TMP\_17 = 1 not(TMP\_17) = 0 TMP\_18 = 2 TMP\_19 = 0 not(TMP\_19) = 1 TMP\_20 = 1 not(TMP\_20) = 0 TMP\_21 = 1 not(TMP\_21) = 0 TMP\_22 = 1 not(TMP\_22) = 0 TMP\_23 = 1 not(TMP\_23) = 0 TMP\_24 = 1 not(TMP\_24) = 0 TMP\_25 = 5 TMP\_26 = 0 not(TMP\_26) = 1 TMP\_27 = 0 not(TMP\_27) = 1 TMP\_28 = 0 TMP\_29 = 1 not(TMP\_29) = 0 TMP\_30 = 1 not(TMP\_30) = 0 TMP\_31 = 2 TMP\_32 = 0 not(TMP\_32) = 1 TMP\_33 = 0 not(TMP\_33) = 1 TMP\_34 = 1 not(TMP\_34) = 0 TMP\_35 = 1 not(TMP\_35) = 0 TMP\_36 = 1 not(TMP\_36) = 0 TMP\_37 = 2 TMP\_38 = 0 not(TMP\_38) = 1 TMP\_39 = 1 not(TMP\_39) = 0 TMP\_40 = 1 not(TMP\_40) = 0 TMP\_41 = 1 not(TMP\_41) = 0 TMP\_42 = 0 not(TMP\_42) = 1 TMP\_43 = 1 not(TMP\_43) = 0 TMP\_44 = 4 TMP\_45 = 0 not(TMP\_45) = 1 TMP\_46 = 0 not(TMP\_46) = 1 TMP\_47 = 0 TMP\_48 = 1 not(TMP\_48) = 0 TMP\_49 = 1 not(TMP\_49) = 0 TMP\_50 = 2 TMP\_51 = 0 not(TMP\_51) = 1 TMP\_52 = 0 not(TMP\_52) = 1 TMP\_53 = 1 not(TMP\_53) = 0 TMP\_54 = 1 not(TMP\_54) = 0 TMP\_55 = 1 not(TMP\_55) = 0 TMP\_56 = 2 TMP\_57 = 0 not(TMP\_57) = 1 TMP\_58 = 1 not(TMP\_58) = 0 TMP\_59 = 1 not(TMP\_59) = 0 TMP\_60 = 1 not(TMP\_60) = 0 TMP\_61 = 0 not(TMP\_61) = 1 TMP\_62 = 1 not(TMP\_62) = 0 TMP\_63 = 4 TMP\_64 = 0 not(TMP\_64) = 1 TMP\_65 = 0 not(TMP\_65) = 1 TMP\_66 = 0 TMP\_67 = 1 not(TMP\_67) = 0 TMP\_68 = 1 not(TMP\_68) = 0 TMP\_69 = 2 TMP\_70 = 0 not(TMP\_70) = 1 TMP\_71 = 0 not(TMP\_71) = 1 TMP\_72 = 1 not(TMP\_72) = 0 TMP\_73 = 1 not(TMP\_73) = 0 TMP\_74 = 1 not(TMP\_74) = 0 TMP\_75 = 2 TMP\_76 = 1 not(TMP\_76) = 0 TMP\_77 = 0 not(TMP\_77) = 1 TMP\_78 = 1 not(TMP\_78) = 0 TMP\_79 = 1 not(TMP\_79) = 0 TMP\_80 = 0 not(TMP\_80) = 1 TMP\_81 = 1 not(TMP\_81) = 0 TMP\_82 = 4 TMP\_83 = 0 not(TMP\_83) = 1 TMP\_84 = 0 not(TMP\_84) = 1 TMP\_85 = 0 TMP\_86 = 1 not(TMP\_86) = 0 TMP\_87 = 1 not(TMP\_87) = 0 TMP\_88 = 2 TMP\_89 = 0 not(TMP\_89) = 1 TMP\_90 = 0 not(TMP\_90) = 1 TMP\_91 = 1 not(TMP\_91) = 0 TMP\_92 = 1 not(TMP\_92) = 0 TMP\_93 = 1 not(TMP\_93) = 0 TMP\_94 = 2 TMP\_95 = 1 not(TMP\_95) = 0 TMP\_96 = 0 not(TMP\_96) = 1 TMP\_97 = 1 not(TMP\_97) = 0 TMP\_98 = 1 not(TMP\_98) = 0 TMP\_99 = 1 not(TMP\_99) = 0 TMP\_100 = 1 not(TMP\_100) = 0 TMP\_101 = 5 TMP\_102 = 0 not(TMP\_102) = 1 TMP\_103 = 0 not(TMP\_103) = 1 TMP\_104 = 0 TMP\_105 = 1 not(TMP\_105) = 0 TMP\_106 = 1 not(TMP\_106) = 0 TMP\_107 = 2 TMP\_108 = 0 not(TMP\_108) = 1 TMP\_109 = 0 not(TMP\_109) = 1 TMP\_110 = 1 not(TMP\_110) = 0 TMP\_111 = 1 not(TMP\_111) = 0 TMP\_112 = 1 not(TMP\_112) = 0 TMP\_113 = 2 TMP\_114 = 1 not(TMP\_114) = 0 TMP\_115 = 1 not(TMP\_115) = 0 TMP\_116 = 1 not(TMP\_116) = 0 TMP\_117 = 1 not(TMP\_117) = 0 TMP\_118 = 0 not(TMP\_118) = 1 TMP\_119 = 1 not(TMP\_119) = 0 TMP\_120 = 5 TMP\_121 = 0 not(TMP\_121) = 1 TMP\_122 = 0 not(TMP\_122) = 1 TMP\_123 = 0 TMP\_124 = 1 not(TMP\_124) = 0 TMP\_125 = 1 not(TMP\_125) = 0 TMP\_126 = 2 TMP\_127 = 0 not(TMP\_127) = 1 TMP\_128 = 0 not(TMP\_128) = 1 TMP\_129 = 1 not(TMP\_129) = 0 TMP\_130 = 1 not(TMP\_130) = 0 TMP\_131 = 1 not(TMP\_131) = 0 TMP\_132 = 2 TMP\_133 = 0 not(TMP\_133) = 1 TMP\_134 = 1 not(TMP\_134) = 0 TMP\_135 = 1 not(TMP\_135) = 0 TMP\_136 = 1 not(TMP\_136) = 0 TMP\_137 = 0 not(TMP\_137) = 1 TMP\_138 = 1 not(TMP\_138) = 0 TMP\_139 = 4 TMP\_140 = 0 not(TMP\_140) = 1 TMP\_141 = 0 not(TMP\_141) = 1 TMP\_142 = 0 TMP\_143 = 1 not(TMP\_143) = 0 TMP\_144 = 1 not(TMP\_144) = 0 TMP\_145 = 2 TMP\_146 = 0 not(TMP\_146) = 1 TMP\_147 = 0 not(TMP\_147) = 1 TMP\_148 = 1 not(TMP\_148) = 0 TMP\_149 = 1 not(TMP\_149) = 0 TMP\_150 = 1 not(TMP\_150) = 0 TMP\_151 = 2 TMP\_152 = 0 not(TMP\_152) = 1 TMP\_153 = 1 not(TMP\_153) = 0 TMP\_154 = 1 not(TMP\_154) = 0 TMP\_155 = 1 not(TMP\_155) = 0 TMP\_156 = 1 not(TMP\_156) = 0 TMP\_157 = 1 not(TMP\_157) = 0 TMP\_158 = 5 TMP\_159 = 0 not(TMP\_159) = 1 TMP\_160 = 0 not(TMP\_160) = 1 TMP\_161 = 0 TMP\_162 = 1 not(TMP\_162) = 0 TMP\_163 = 1 not(TMP\_163) = 0 TMP\_164 = 2 TMP\_165 = 0 not(TMP\_165) = 1 TMP\_166 = 0 not(TMP\_166) = 1 TMP\_167 = 1 not(TMP\_167) = 0 TMP\_168 = 1 not(TMP\_168) = 0 TMP\_169 = 1 not(TMP\_169) = 0 TMP\_170 = 2 TMP\_171 = 0 not(TMP\_171) = 1 TMP\_172 = 1 not(TMP\_172) = 0 TMP\_173 = 1 not(TMP\_173) = 0 TMP\_174 = 1 not(TMP\_174) = 0 TMP\_175 = 1 not(TMP\_175) = 0 TMP\_176 = 0 not(TMP\_176) = 1 TMP\_177 = 4 TMP\_178 = 0 not(TMP\_178) = 1 TMP\_179 = 0 not(TMP\_179) = 1 TMP\_180 = 0 TMP\_181 = 1 not(TMP\_181) = 0 TMP\_182 = 1 not(TMP\_182) = 0 TMP\_183 = 2 TMP\_184 = 0 not(TMP\_184) = 1 TMP\_185 = 0 not(TMP\_185) = 1 TMP\_186 = 1 not(TMP\_186) = 0 TMP\_187 = 1 not(TMP\_187) = 0 TMP\_188 = 1 not(TMP\_188) = 0 TMP\_189 = 2 TMP\_190 = 0 not(TMP\_190) = 1 TMP\_191 = 1 not(TMP\_191) = 0 TMP\_192 = 1 not(TMP\_192) = 0 TMP\_193 = 1 not(TMP\_193) = 0 TMP\_194 = 1 not(TMP\_194) = 0 TMP\_195 = 0 not(TMP\_195) = 1 TMP\_196 = 4 TMP\_197 = 0 not(TMP\_197) = 1 TMP\_198 = 0 not(TMP\_198) = 1 TMP\_199 = 0 TMP\_200 = 1 not(TMP\_200) = 0 TMP\_201 = 1 not(TMP\_201) = 0 TMP\_202 = 2 TMP\_203 = 0 not(TMP\_203) = 1 TMP\_204 = 0 not(TMP\_204) = 1 TMP\_205 = 1 not(TMP\_205) = 0 TMP\_206 = 1 not(TMP\_206) = 0 TMP\_207 = 1 not(TMP\_207) = 0 TMP\_208 = 2 TMP\_209 = 0 not(TMP\_209) = 1 TMP\_210 = 1 not(TMP\_210) = 0 TMP\_211 = 1 not(TMP\_211) = 0 TMP\_212 = 1 not(TMP\_212) = 0 TMP\_213 = 1 not(TMP\_213) = 0 TMP\_214 = 1 not(TMP\_214) = 0 TMP\_215 = 5 TMP\_216 = 0 not(TMP\_216) = 1 TMP\_217 = 0 not(TMP\_217) = 1 TMP\_218 = 0 TMP\_219 = 1 not(TMP\_219) = 0 TMP\_220 = 1 not(TMP\_220) = 0 TMP\_221 = 2 TMP\_222 = 0 not(TMP\_222) = 1 TMP\_223 = 0 not(TMP\_223) = 1 TMP\_224 = 1 not(TMP\_224) = 0 TMP\_225 = 1 not(TMP\_225) = 0 TMP\_226 = 1 not(TMP\_226) = 0 TMP\_227 = 2 TMP\_228 = 0 not(TMP\_228) = 1 TMP\_229 = 1 not(TMP\_229) = 0 TMP\_230 = 1 not(TMP\_230) = 0 TMP\_231 = 1 not(TMP\_231) = 0 TMP\_232 = 1 not(TMP\_232) = 0 TMP\_233 = 1 not(TMP\_233) = 0 TMP\_234 = 5 TMP\_235 = 0 not(TMP\_235) = 1 TMP\_236 = 0 not(TMP\_236) = 1 TMP\_237 = 0 TMP\_238 = 1 not(TMP\_238) = 0 TMP\_239 = 1 not(TMP\_239) = 0 TMP\_240 = 2 TMP\_241 = 0 not(TMP\_241) = 1 TMP\_242 = 0 not(TMP\_242) = 1 TMP\_243 = 1 not(TMP\_243) = 0 TMP\_244 = 1 not(TMP\_244) = 0 TMP\_245 = 1 not(TMP\_245) = 0 TMP\_246 = 2 TMP\_247 = 1 not(TMP\_247) = 0 TMP\_248 = 0 not(TMP\_248) = 1 TMP\_249 = 1 not(TMP\_249) = 0 TMP\_250 = 1 not(TMP\_250) = 0 TMP\_251 = 1 not(TMP\_251) = 0 TMP\_252 = 1 not(TMP\_252) = 0 TMP\_253 = 5 TMP\_254 = 0 not(TMP\_254) = 1 TMP\_255 = 0 not(TMP\_255) = 1 TMP\_256 = 0 TMP\_257 = 1 not(TMP\_257) = 0 TMP\_258 = 1 not(TMP\_258) = 0 TMP\_259 = 2 TMP\_260 = 0 not(TMP\_260) = 1 TMP\_261 = 0 not(TMP\_261) = 1 TMP\_262 = 1 not(TMP\_262) = 0 TMP\_263 = 1 not(TMP\_263) = 0 TMP\_264 = 1 not(TMP\_264) = 0 TMP\_265 = 2 TMP\_266 = 1 not(TMP\_266) = 0 TMP\_267 = 0 not(TMP\_267) = 1 TMP\_268 = 1 not(TMP\_268) = 0 TMP\_269 = 1 not(TMP\_269) = 0 TMP\_270 = 1 not(TMP\_270) = 0 TMP\_271 = 0 not(TMP\_271) = 1 TMP\_272 = 4 TMP\_273 = 0 not(TMP\_273) = 1 TMP\_274 = 0 not(TMP\_274) = 1 TMP\_275 = 0 TMP\_276 = 1 not(TMP\_276) = 0 TMP\_277 = 1 not(TMP\_277) = 0 TMP\_278 = 2 TMP\_279 = 0 not(TMP\_279) = 1 TMP\_280 = 0 not(TMP\_280) = 1 TMP\_281 = 1 not(TMP\_281) = 0 TMP\_282 = 1 not(TMP\_282) = 0 TMP\_283 = 1 not(TMP\_283) = 0 TMP\_284 = 2 TMP\_285 = 1 not(TMP\_285) = 0 TMP\_286 = 1 not(TMP\_286) = 0 TMP\_287 = 1 not(TMP\_287) = 0 TMP\_288 = 1 not(TMP\_288) = 0 TMP\_289 = 1 not(TMP\_289) = 0 TMP\_290 = 0 not(TMP\_290) = 1 TMP\_291 = 5 TMP\_292 = 0 not(TMP\_292) = 1 TMP\_293 = 0 not(TMP\_293) = 1 TMP\_294 = 0 TMP\_295 = 1 not(TMP\_295) = 0 TMP\_296 = 1 not(TMP\_296) = 0 TMP\_297 = 2 TMP\_298 = 0 not(TMP\_298) = 1 TMP\_299 = 0 not(TMP\_299) = 1 TMP\_300 = 1 not(TMP\_300) = 0 TMP\_301 = 1 not(TMP\_301) = 0 TMP\_302 = 1 not(TMP\_302) = 0 TMP\_303 = 2 TMP\_304 = 0 not(TMP\_304) = 1 TMP\_305 = 1 not(TMP\_305) = 0 TMP\_306 = 1 not(TMP\_306) = 0 TMP\_307 = 1 not(TMP\_307) = 0 TMP\_308 = 1 not(TMP\_308) = 0 TMP\_309 = 1 not(TMP\_309) = 0 TMP\_310 = 5 TMP\_311 = 0 not(TMP\_311) = 1 TMP\_312 = 0 not(TMP\_312) = 1 TMP\_313 = 0 TMP\_314 = 1 not(TMP\_314) = 0 TMP\_315 = 1 not(TMP\_315) = 0 TMP\_316 = 2 TMP\_317 = 0 not(TMP\_317) = 1 TMP\_318 = 0 not(TMP\_318) = 1 TMP\_319 = 1 not(TMP\_319) = 0 TMP\_320 = 1 not(TMP\_320) = 0 TMP\_321 = 1 not(TMP\_321) = 0 TMP\_322 = 2 TMP\_323 = 0 not(TMP\_323) = 1 TMP\_324 = 1 not(TMP\_324) = 0 TMP\_325 = 1 not(TMP\_325) = 0 TMP\_326 = 1 not(TMP\_326) = 0 TMP\_327 = 1 not(TMP\_327) = 0 TMP\_328 = 0 not(TMP\_328) = 1 TMP\_329 = 4 TMP\_330 = 0 not(TMP\_330) = 1 TMP\_331 = 0 not(TMP\_331) = 1 TMP\_332 = 0 TMP\_333 = 1 not(TMP\_333) = 0 TMP\_334 = 1 not(TMP\_334) = 0 TMP\_335 = 2 TMP\_336 = 0 not(TMP\_336) = 1 TMP\_337 = 0 not(TMP\_337) = 1 TMP\_338 = 1 not(TMP\_338) = 0 TMP\_339 = 1 not(TMP\_339) = 0 TMP\_340 = 1 not(TMP\_340) = 0 TMP\_341 = 2 TMP\_342 = 1 not(TMP\_342) = 0 TMP\_343 = 1 not(TMP\_343) = 0 TMP\_344 = 1 not(TMP\_344) = 0 TMP\_345 = 1 not(TMP\_345) = 0 TMP\_346 = 1 not(TMP\_346) = 0 TMP\_347 = 0 not(TMP\_347) = 1 TMP\_348 = 5 TMP\_349 = 0 not(TMP\_349) = 1 TMP\_350 = 0 not(TMP\_350) = 1 TMP\_351 = 0 TMP\_352 = 1 not(TMP\_352) = 0 TMP\_353 = 1 not(TMP\_353) = 0 TMP\_354 = 2 TMP\_355 = 0 not(TMP\_355) = 1 TMP\_356 = 0 not(TMP\_356) = 1 TMP\_357 = 1 not(TMP\_357) = 0 TMP\_358 = 1 not(TMP\_358) = 0 TMP\_359 = 1 not(TMP\_359) = 0 TMP\_360 = 2 TMP\_361 = 1 not(TMP\_361) = 0 TMP\_362 = 0 not(TMP\_362) = 1 TMP\_363 = 1 not(TMP\_363) = 0 TMP\_364 = 1 not(TMP\_364) = 0 TMP\_365 = 1 not(TMP\_365) = 0 TMP\_366 = 0 not(TMP\_366) = 1 TMP\_367 = 4 TMP\_368 = 0 not(TMP\_368) = 1 TMP\_369 = 0 not(TMP\_369) = 1 TMP\_370 = 0 TMP\_371 = 1 not(TMP\_371) = 0 TMP\_372 = 1 not(TMP\_372) = 0 TMP\_373 = 2 TMP\_374 = 0 not(TMP\_374) = 1 TMP\_375 = 0 not(TMP\_375) = 1 TMP\_376 = 1 not(TMP\_376) = 0 TMP\_377 = 1 not(TMP\_377) = 0 TMP\_378 = 1 not(TMP\_378) = 0 TMP\_379 = 2 TMP\_380 = 1 not(TMP\_380) = 0 TMP\_381 = 0 not(TMP\_381) = 1 TMP\_382 = 1 not(TMP\_382) = 0 TMP\_383 = 1 not(TMP\_383) = 0 TMP\_384 = 1 not(TMP\_384) = 0 TMP\_385 = 1 not(TMP\_385) = 0 TMP\_386 = 5 TMP\_387 = 0 not(TMP\_387) = 1 TMP\_388 = 0 not(TMP\_388) = 1 TMP\_389 = 0 TMP\_390 = 1 not(TMP\_390) = 0 TMP\_391 = 1 not(TMP\_391) = 0 TMP\_392 = 2 TMP\_393 = 0 not(TMP\_393) = 1 TMP\_394 = 0 not(TMP\_394) = 1 TMP\_395 = 1 not(TMP\_395) = 0 TMP\_396 = 1 not(TMP\_396) = 0 TMP\_397 = 1 not(TMP\_397) = 0 TMP\_398 = 2 TMP\_399 = 1 not(TMP\_399) = 0 TMP\_400 = 0 not(TMP\_400) = 1 TMP\_401 = 1 not(TMP\_401) = 0 TMP\_402 = 1 not(TMP\_402) = 0 TMP\_403 = 1 not(TMP\_403) = 0 TMP\_404 = 1 not(TMP\_404) = 0 TMP\_405 = 5 TMP\_406 = 0 not(TMP\_406) = 1 TMP\_407 = 0 not(TMP\_407) = 1 TMP\_408 = 0 TMP\_409 = 1 not(TMP\_409) = 0 TMP\_410 = 1 not(TMP\_410) = 0 TMP\_411 = 2 TMP\_412 = 0 not(TMP\_412) = 1 TMP\_413 = 0 not(TMP\_413) = 1 TMP\_414 = 1 not(TMP\_414) = 0 TMP\_415 = 1 not(TMP\_415) = 0 TMP\_416 = 1 not(TMP\_416) = 0 TMP\_417 = 2 TMP\_418 = 1 not(TMP\_418) = 0 TMP\_419 = 0 not(TMP\_419) = 1 TMP\_420 = 1 not(TMP\_420) = 0 TMP\_421 = 1 not(TMP\_421) = 0 TMP\_422 = 1 not(TMP\_422) = 0 TMP\_423 = 1 not(TMP\_423) = 0 TMP\_424 = 5 TMP\_425 = 0 not(TMP\_425) = 1 TMP\_426 = 0 not(TMP\_426) = 1 TMP\_427 = 0 TMP\_428 = 1 not(TMP\_428) = 0 TMP\_429 = 1 not(TMP\_429) = 0 TMP\_430 = 2 TMP\_431 = 0 not(TMP\_431) = 1 TMP\_432 = 0 not(TMP\_432) = 1 TMP\_433 = 1 not(TMP\_433) = 0 TMP\_434 = 1 not(TMP\_434) = 0 TMP\_435 = 1 not(TMP\_435) = 0 TMP\_436 = 2 TMP\_437 = 1 not(TMP\_437) = 0 TMP\_438 = 0 not(TMP\_438) = 1 TMP\_439 = 1 not(TMP\_439) = 0 TMP\_440 = 1 not(TMP\_440) = 0 TMP\_441 = 1 not(TMP\_441) = 0 TMP\_442 = 0 not(TMP\_442) = 1 TMP\_443 = 4 TMP\_444 = 0 not(TMP\_444) = 1 TMP\_445 = 0 not(TMP\_445) = 1 TMP\_446 = 0 TMP\_447 = 1 not(TMP\_447) = 0 TMP\_448 = 1 not(TMP\_448) = 0 TMP\_449 = 2 TMP\_450 = 0 not(TMP\_450) = 1 TMP\_451 = 0 not(TMP\_451) = 1 TMP\_452 = 1 not(TMP\_452) = 0 TMP\_453 = 1 not(TMP\_453) = 0 TMP\_454 = 1 not(TMP\_454) = 0 TMP\_455 = 2 TMP\_456 = 1 not(TMP\_456) = 0 TMP\_457 = 0 not(TMP\_457) = 1 TMP\_458 = 1 not(TMP\_458) = 0 TMP\_459 = 1 not(TMP\_459) = 0 TMP\_460 = 1 not(TMP\_460) = 0 TMP\_461 = 0 not(TMP\_461) = 1 TMP\_462 = 4 TMP\_463 = 0 not(TMP\_463) = 1 TMP\_464 = 0 not(TMP\_464) = 1 TMP\_465 = 0 TMP\_466 = 1 not(TMP\_466) = 0 TMP\_467 = 1 not(TMP\_467) = 0 TMP\_468 = 2 TMP\_469 = 0 not(TMP\_469) = 1 TMP\_470 = 0 not(TMP\_470) = 1 TMP\_471 = 1 not(TMP\_471) = 0 TMP\_472 = 1 not(TMP\_472) = 0 TMP\_473 = 1 not(TMP\_473) = 0 TMP\_474 = 2 TMP\_475 = 1 not(TMP\_475) = 0 TMP\_476 = 0 not(TMP\_476) = 1 TMP\_477 = 1 not(TMP\_477) = 0 TMP\_478 = 1 not(TMP\_478) = 0 TMP\_479 = 1 not(TMP\_479) = 0 TMP\_480 = 1 not(TMP\_480) = 0 TMP\_481 = 5 TMP\_482 = 0 not(TMP\_482) = 1 TMP\_483 = 0 not(TMP\_483) = 1 TMP\_484 = 0 TMP\_485 = 1 not(TMP\_485) = 0 TMP\_486 = 1 not(TMP\_486) = 0 TMP\_487 = 2 TMP\_488 = 0 not(TMP\_488) = 1 TMP\_489 = 0 not(TMP\_489) = 1 TMP\_490 = 1 not(TMP\_490) = 0 TMP\_491 = 1 not(TMP\_491) = 0 TMP\_492 = 1 not(TMP\_492) = 0 TMP\_493 = 2 TMP\_494 = 1 not(TMP\_494) = 0 TMP\_495 = 1 not(TMP\_495) = 0 TMP\_496 = 1 not(TMP\_496) = 0 TMP\_497 = 1 not(TMP\_497) = 0 TMP\_498 = 1 not(TMP\_498) = 0 TMP\_499 = 0 not(TMP\_499) = 1 TMP\_500 = 5 TMP\_501 = 0 not(TMP\_501) = 1 TMP\_502 = 0 not(TMP\_502) = 1 TMP\_503 = 0 TMP\_504 = 1 not(TMP\_504) = 0 TMP\_505 = 1 not(TMP\_505) = 0 TMP\_506 = 2 TMP\_507 = 0 not(TMP\_507) = 1 TMP\_508 = 0 not(TMP\_508) = 1 TMP\_509 = 1 not(TMP\_509) = 0 TMP\_510 = 1 not(TMP\_510) = 0 TMP\_511 = 1 not(TMP\_511) = 0 TMP\_512 = 2 TMP\_513 = 0 not(TMP\_513) = 1 TMP\_514 = 1 not(TMP\_514) = 0 TMP\_515 = 1 not(TMP\_515) = 0 TMP\_516 = 1 not(TMP\_516) = 0 TMP\_517 = 1 not(TMP\_517) = 0 TMP\_518 = 1 not(TMP\_518) = 0 TMP\_519 = 5 TMP\_520 = 0 not(TMP\_520) = 1 TMP\_521 = 0 not(TMP\_521) = 1 TMP\_522 = 0 TMP\_523 = 1 not(TMP\_523) = 0 TMP\_524 = 1 not(TMP\_524) = 0 TMP\_525 = 2 TMP\_526 = 0 not(TMP\_526) = 1 TMP\_527 = 0 not(TMP\_527) = 1 TMP\_528 = 1 not(TMP\_528) = 0 TMP\_529 = 1 not(TMP\_529) = 0 TMP\_530 = 1 not(TMP\_530) = 0 TMP\_531 = 2 TMP\_532 = 1 not(TMP\_532) = 0 TMP\_533 = 0 not(TMP\_533) = 1 TMP\_534 = 1 not(TMP\_534) = 0 TMP\_535 = 1 not(TMP\_535) = 0 TMP\_536 = 1 not(TMP\_536) = 0 TMP\_537 = 1 not(TMP\_537) = 0 TMP\_538 = 5 TMP\_539 = 0 not(TMP\_539) = 1 TMP\_540 = 0 not(TMP\_540) = 1 TMP\_541 = 0 TMP\_542 = 1 not(TMP\_542) = 0 TMP\_543 = 1 not(TMP\_543) = 0 TMP\_544 = 2 TMP\_545 = 0 not(TMP\_545) = 1 TMP\_546 = 0 not(TMP\_546) = 1 TMP\_547 = 1 not(TMP\_547) = 0 TMP\_548 = 1 not(TMP\_548) = 0 TMP\_549 = 1 not(TMP\_549) = 0 TMP\_550 = 2 TMP\_551 = 1 not(TMP\_551) = 0 TMP\_552 = 0 not(TMP\_552) = 1 TMP\_553 = 1 not(TMP\_553) = 0 TMP\_554 = 1 not(TMP\_554) = 0 TMP\_555 = 0 not(TMP\_555) = 1 TMP\_556 = 1 not(TMP\_556) = 0 TMP\_557 = 4 TMP\_558 = 0 not(TMP\_558) = 1 TMP\_559 = 0 not(TMP\_559) = 1 TMP\_560 = 0 TMP\_561 = 1 not(TMP\_561) = 0 TMP\_562 = 1 not(TMP\_562) = 0 TMP\_563 = 2 TMP\_564 = 0 not(TMP\_564) = 1 TMP\_565 = 0 not(TMP\_565) = 1 TMP\_566 = 1 not(TMP\_566) = 0 TMP\_567 = 1 not(TMP\_567) = 0 TMP\_568 = 1 not(TMP\_568) = 0 TMP\_569 = 2 TMP\_570 = 1 not(TMP\_570) = 0 TMP\_571 = 0 not(TMP\_571) = 1 TMP\_572 = 1 not(TMP\_572) = 0 TMP\_573 = 1 not(TMP\_573) = 0 TMP\_574 = 0 not(TMP\_574) = 1 TMP\_575 = 1 not(TMP\_575) = 0 TMP\_576 = 4 TMP\_577 = 0 not(TMP\_577) = 1 TMP\_578 = 0 not(TMP\_578) = 1 TMP\_579 = 0 TMP\_580 = 1 not(TMP\_580) = 0 TMP\_581 = 1 not(TMP\_581) = 0 TMP\_582 = 2 TMP\_583 = 0 not(TMP\_583) = 1 TMP\_584 = 0 not(TMP\_584) = 1 TMP\_585 = 1 not(TMP\_585) = 0 TMP\_586 = 1 not(TMP\_586) = 0 TMP\_587 = 1 not(TMP\_587) = 0 TMP\_588 = 2 TMP\_589 = 1 not(TMP\_589) = 0 TMP\_590 = 0 not(TMP\_590) = 1 TMP\_591 = 1 not(TMP\_591) = 0 TMP\_592 = 1 not(TMP\_592) = 0 TMP\_593 = 0 not(TMP\_593) = 1 TMP\_594 = 1 not(TMP\_594) = 0 TMP\_595 = 4 TMP\_596 = 0 not(TMP\_596) = 1 TMP\_597 = 0 not(TMP\_597) = 1 TMP\_598 = 0 TMP\_599 = 1 not(TMP\_599) = 0 TMP\_600 = 1 not(TMP\_600) = 0 TMP\_601 = 2 TMP\_602 = 0 not(TMP\_602) = 1 TMP\_603 = 0 not(TMP\_603) = 1 TMP\_604 = 1 not(TMP\_604) = 0 TMP\_605 = 1 not(TMP\_605) = 0 TMP\_606 = 1 not(TMP\_606) = 0 TMP\_607 = 2 TMP\_608 = 1 not(TMP\_608) = 0 TMP\_609 = 0 not(TMP\_609) = 1 TMP\_610 = 1 not(TMP\_610) = 0 TMP\_611 = 1 not(TMP\_611) = 0 TMP\_612 = 1 not(TMP\_612) = 0 TMP\_613 = 1 not(TMP\_613) = 0 TMP\_614 = 5 TMP\_615 = 0 not(TMP\_615) = 1 TMP\_616 = 0 not(TMP\_616) = 1 TMP\_617 = 0 TMP\_618 = 1 not(TMP\_618) = 0 TMP\_619 = 1 not(TMP\_619) = 0 TMP\_620 = 2 TMP\_621 = 0 not(TMP\_621) = 1 TMP\_622 = 0 not(TMP\_622) = 1 TMP\_623 = 1 not(TMP\_623) = 0 TMP\_624 = 1 not(TMP\_624) = 0 TMP\_625 = 1 not(TMP\_625) = 0 TMP\_626 = 2 TMP\_627 = 1 not(TMP\_627) = 0 TMP\_628 = 0 not(TMP\_628) = 1 TMP\_629 = 1 not(TMP\_629) = 0 TMP\_630 = 1 not(TMP\_630) = 0 TMP\_631 = 1 not(TMP\_631) = 0 TMP\_632 = 1 not(TMP\_632) = 0 TMP\_633 = 5 TMP\_634 = 0 not(TMP\_634) = 1 TMP\_635 = 0 not(TMP\_635) = 1 TMP\_636 = 0 TMP\_637 = 1 not(TMP\_637) = 0 TMP\_638 = 1 not(TMP\_638) = 0 TMP\_639 = 2 TMP\_640 = 0 not(TMP\_640) = 1 TMP\_641 = 0 not(TMP\_641) = 1 TMP\_642 = 1 not(TMP\_642) = 0 TMP\_643 = 1 not(TMP\_643) = 0 TMP\_644 = 1 not(TMP\_644) = 0 TMP\_645 = 2 TMP\_646 = 1 not(TMP\_646) = 0 TMP\_647 = 0 not(TMP\_647) = 1 TMP\_648 = 1 not(TMP\_648) = 0 TMP\_649 = 1 not(TMP\_649) = 0 TMP\_650 = 0 not(TMP\_650) = 1 TMP\_651 = 1 not(TMP\_651) = 0 TMP\_652 = 4 TMP\_653 = 0 not(TMP\_653) = 1 TMP\_654 = 0 not(TMP\_654) = 1 TMP\_655 = 0 TMP\_656 = 1 not(TMP\_656) = 0 TMP\_657 = 1 not(TMP\_657) = 0 TMP\_658 = 2 TMP\_659 = 0 not(TMP\_659) = 1 TMP\_660 = 0 not(TMP\_660) = 1 TMP\_661 = 1 not(TMP\_661) = 0 TMP\_662 = 1 not(TMP\_662) = 0 TMP\_663 = 1 not(TMP\_663) = 0 TMP\_664 = 2 TMP\_665 = 1 not(TMP\_665) = 0 TMP\_666 = 1 not(TMP\_666) = 0 TMP\_667 = 1 not(TMP\_667) = 0 TMP\_668 = 1 not(TMP\_668) = 0 TMP\_669 = 0 not(TMP\_669) = 1 TMP\_670 = 1 not(TMP\_670) = 0 TMP\_671 = 5 TMP\_672 = 0 not(TMP\_672) = 1 TMP\_673 = 0 not(TMP\_673) = 1 TMP\_674 = 0 TMP\_675 = 1 not(TMP\_675) = 0 TMP\_676 = 1 not(TMP\_676) = 0 TMP\_677 = 2 TMP\_678 = 0 not(TMP\_678) = 1 TMP\_679 = 0 not(TMP\_679) = 1 TMP\_680 = 1 not(TMP\_680) = 0 TMP\_681 = 1 not(TMP\_681) = 0 TMP\_682 = 1 not(TMP\_682) = 0 TMP\_683 = 2 Area\_0 = 60 Distance\_0\_Rule\_0 = 20 Distance\_1\_Rule\_0 = 3 Distance\_2\_Rule\_0 = 1 Area\_1 = 174 Distance\_0\_Rule\_1 = 58 Distance\_1\_Rule\_1 = 3 Distance\_2\_Rule\_1 = 1 Area\_2 = 116 Distance\_0\_Rule\_2 = 58 Distance\_1\_Rule\_2 = 2 Distance\_2\_Rule\_2 = 1 Area\_3 = 58 Distance\_0\_Rule\_3 = 58 Distance\_1\_Rule\_3 = 1 Distance\_2\_Rule\_3 = 1 Area\_4 = 120 Distance\_0\_Rule\_4 = 40 Distance\_1\_Rule\_4 = 3 Distance\_2\_Rule\_4 = 1 Area\_5 = 120 Distance\_0\_Rule\_5 = 40 Distance\_1\_Rule\_5 = 3 Distance\_2\_Rule\_5 = 1 Area\_6 = 3 -(Rule\_6\_LB) = -79 Distance\_0\_Rule\_6 = 1 -(Rule\_6\_LB) = 0 Distance\_1\_Rule\_6 = 3 -(Rule\_6\_LB) = -1 Distance\_2\_Rule\_6 = 1 Area\_7 = 3 -(Rule\_7\_LB) = -79 Distance\_0\_Rule\_7 = 1 -(Rule\_7\_LB) = 0 Distance\_1\_Rule\_7 = 3 -(Rule\_7\_LB) = 0 Distance\_2\_Rule\_7 = 1 Area\_8 = 63 -(Rule\_8\_LB) = 0 Distance\_0\_Rule\_8 = 21 -(Rule\_8\_LB) = 0 Distance\_1\_Rule\_8 = 3 -(Rule\_8\_LB) = 0 Distance\_2\_Rule\_8 = 1 Area\_9 = 3 -(Rule\_9\_LB) = -20 Distance\_0\_Rule\_9 = 1 -(Rule\_9\_LB) = 0 Distance\_1\_Rule\_9 = 3 -(Rule\_9\_LB) = -1 Distance\_2\_Rule\_9 = 1 TMP\_684 = 720 .

- Solution #13 found. 13 Solutions, Resolution 1.466s, 731 Nodes (498.7 n/s), 1349 Backtracks, 670 Fails, 0 Restarts

Rule\_6\_LB = 79 Rule\_6\_UB = 80 Rule\_6\_LB = 0 Rule\_6\_UB = 3 Rule\_6\_LB = 1 Rule\_6\_UB = 2 Rule\_7\_LB = 79 Rule\_7\_UB = 80 Rule\_7\_LB = 0 Rule\_7\_UB = 3 Rule\_7\_LB = 0 Rule\_7\_UB = 1 Rule\_8\_LB = 0 Rule\_8\_UB = 21 Rule\_8\_LB = 0 Rule\_8\_UB = 3 Rule\_8\_LB = 0 Rule\_8\_UB = 1 Rule\_9\_LB = 20 Rule\_9\_UB = 21 Rule\_9\_LB = 0 Rule\_9\_UB = 3 Rule\_9\_LB = 1 Rule\_9\_UB = 2 Overlaps\_0\_0 = 0 Overlaps\_0\_1 = 0 Overlaps\_0\_2 = 0 Overlaps\_0\_3 = 0 Overlaps\_0\_4 = 0 Overlaps\_0\_5 = 0 Overlaps\_0\_6 = 0 Overlaps\_0\_7 = 0 Overlaps\_0\_8 = 0 Overlaps\_0\_9 = 0 Overlaps\_1\_0 = 0 Overlaps\_1\_1 = 0 Overlaps\_1\_2 = 1 Overlaps\_1\_3 = 0 Overlaps\_1\_4 = 0 Overlaps\_1\_5 = 0 Overlaps\_1\_6 = 0 Overlaps\_1\_7 = 0 Overlaps\_1\_8 = 0 Overlaps\_1\_9 = 0 Overlaps\_2\_0 = 1 Overlaps\_2\_1 = 0 Overlaps\_2\_2 = 0 Overlaps\_2\_3 = 0 Overlaps\_2\_4 = 0 Overlaps\_2\_5 = 0 Overlaps\_2\_6 = 0 Overlaps\_2\_7 = 0 Overlaps\_2\_8 = 0 Overlaps\_2\_9 = 0 Overlaps\_3\_0 = 0 Overlaps\_3\_1 = 0 Overlaps\_3\_2 = 0 Overlaps\_3\_3 = 0 Overlaps\_3\_4 = 0 Overlaps\_3\_5 = 0 Overlaps\_3\_6 = 0 Overlaps\_3\_7 = 0 Overlaps\_3\_8 = 0 Overlaps\_3\_9 = 0 Overlaps\_4\_0 = 0 Overlaps\_4\_1 = 0 Overlaps\_4\_2 = 0 Overlaps\_4\_3 = 0 Overlaps\_4\_4 = 0 Overlaps\_4\_5 = 0 Overlaps\_4\_6 = 0 Overlaps\_4\_7 = 0 Overlaps\_4\_8 = 0 Overlaps\_4\_9 = 0 Overlaps\_5\_0 = 0 Overlaps\_5\_1 = 0 Overlaps\_5\_2 = 0 Overlaps\_5\_3 = 0 Overlaps\_5\_4 = 0 Overlaps\_5\_5 = 0 Overlaps\_5\_6 = 0 Overlaps\_5\_7 = 0 Overlaps\_5\_8 = 0 Overlaps\_5\_9 = 0 Overlaps\_6\_0 = 0 Overlaps\_6\_1 = 0 Overlaps\_6\_2 = 0 Overlaps\_6\_3 = 0 Overlaps\_6\_4 = 0 Overlaps\_6\_5 = 0 Overlaps\_6\_6 = 0 Overlaps\_6\_7 = 0 Overlaps\_6\_8 = 0 Overlaps\_6\_9 = 0 Overlaps\_7\_0 = 0 Overlaps\_7\_1 = 0 Overlaps\_7\_2 = 0 Overlaps\_7\_3 = 0 Overlaps\_7\_4 = 0 Overlaps\_7\_5 = 0 Overlaps\_7\_6 = 0 Overlaps\_7\_7 = 0 Overlaps\_7\_8 = 0 Overlaps\_7\_9 = 0 Overlaps\_8\_0 = 0 Overlaps\_8\_1 = 0 Overlaps\_8\_2 = 0 Overlaps\_8\_3 = 0 Overlaps\_8\_4 = 0 Overlaps\_8\_5 = 0 Overlaps\_8\_6 = 0 Overlaps\_8\_7 = 0 Overlaps\_8\_8 = 0 Overlaps\_8\_9 = 0 Overlaps\_9\_0 = 0 Overlaps\_9\_1 = 0 Overlaps\_9\_2 = 0 Overlaps\_9\_3 = 0 Overlaps\_9\_4 = 0 Overlaps\_9\_5 = 0 Overlaps\_9\_6 = 0 Overlaps\_9\_7 = 0 Overlaps\_9\_8 = 0 Overlaps\_9\_9 = 0 TMP\_0 = 0 not(TMP\_0) = 1 TMP\_1 = 1 not(TMP\_1) = 0 TMP\_2 = 1 not(TMP\_2) = 0 TMP\_3 = 1 not(TMP\_3) = 0 TMP\_4 = 1 not(TMP\_4) = 0 TMP\_5 = 1 not(TMP\_5) = 0 TMP\_6 = 5 TMP\_7 = 0 not(TMP\_7) = 1 TMP\_8 = 0 not(TMP\_8) = 1 TMP\_9 = 0 TMP\_10 = 1 not(TMP\_10) = 0 TMP\_11 = 1 not(TMP\_11) = 0 TMP\_12 = 2 TMP\_13 = 0 not(TMP\_13) = 1 TMP\_14 = 0 not(TMP\_14) = 1 TMP\_15 = 1 not(TMP\_15) = 0 TMP\_16 = 1 not(TMP\_16) = 0 TMP\_17 = 1 not(TMP\_17) = 0 TMP\_18 = 2 TMP\_19 = 0 not(TMP\_19) = 1 TMP\_20 = 1 not(TMP\_20) = 0 TMP\_21 = 1 not(TMP\_21) = 0 TMP\_22 = 1 not(TMP\_22) = 0 TMP\_23 = 1 not(TMP\_23) = 0 TMP\_24 = 1 not(TMP\_24) = 0 TMP\_25 = 5 TMP\_26 = 0 not(TMP\_26) = 1 TMP\_27 = 0 not(TMP\_27) = 1 TMP\_28 = 0 TMP\_29 = 1 not(TMP\_29) = 0 TMP\_30 = 1 not(TMP\_30) = 0 TMP\_31 = 2 TMP\_32 = 0 not(TMP\_32) = 1 TMP\_33 = 0 not(TMP\_33) = 1 TMP\_34 = 1 not(TMP\_34) = 0 TMP\_35 = 1 not(TMP\_35) = 0 TMP\_36 = 1 not(TMP\_36) = 0 TMP\_37 = 2 TMP\_38 = 0 not(TMP\_38) = 1 TMP\_39 = 1 not(TMP\_39) = 0 TMP\_40 = 1 not(TMP\_40) = 0 TMP\_41 = 1 not(TMP\_41) = 0 TMP\_42 = 0 not(TMP\_42) = 1 TMP\_43 = 1 not(TMP\_43) = 0 TMP\_44 = 4 TMP\_45 = 0 not(TMP\_45) = 1 TMP\_46 = 0 not(TMP\_46) = 1 TMP\_47 = 0 TMP\_48 = 1 not(TMP\_48) = 0 TMP\_49 = 1 not(TMP\_49) = 0 TMP\_50 = 2 TMP\_51 = 0 not(TMP\_51) = 1 TMP\_52 = 0 not(TMP\_52) = 1 TMP\_53 = 1 not(TMP\_53) = 0 TMP\_54 = 1 not(TMP\_54) = 0 TMP\_55 = 1 not(TMP\_55) = 0 TMP\_56 = 2 TMP\_57 = 0 not(TMP\_57) = 1 TMP\_58 = 1 not(TMP\_58) = 0 TMP\_59 = 1 not(TMP\_59) = 0 TMP\_60 = 1 not(TMP\_60) = 0 TMP\_61 = 0 not(TMP\_61) = 1 TMP\_62 = 1 not(TMP\_62) = 0 TMP\_63 = 4 TMP\_64 = 0 not(TMP\_64) = 1 TMP\_65 = 0 not(TMP\_65) = 1 TMP\_66 = 0 TMP\_67 = 1 not(TMP\_67) = 0 TMP\_68 = 1 not(TMP\_68) = 0 TMP\_69 = 2 TMP\_70 = 0 not(TMP\_70) = 1 TMP\_71 = 0 not(TMP\_71) = 1 TMP\_72 = 1 not(TMP\_72) = 0 TMP\_73 = 1 not(TMP\_73) = 0 TMP\_74 = 1 not(TMP\_74) = 0 TMP\_75 = 2 TMP\_76 = 1 not(TMP\_76) = 0 TMP\_77 = 0 not(TMP\_77) = 1 TMP\_78 = 1 not(TMP\_78) = 0 TMP\_79 = 1 not(TMP\_79) = 0 TMP\_80 = 0 not(TMP\_80) = 1 TMP\_81 = 1 not(TMP\_81) = 0 TMP\_82 = 4 TMP\_83 = 0 not(TMP\_83) = 1 TMP\_84 = 0 not(TMP\_84) = 1 TMP\_85 = 0 TMP\_86 = 1 not(TMP\_86) = 0 TMP\_87 = 1 not(TMP\_87) = 0 TMP\_88 = 2 TMP\_89 = 0 not(TMP\_89) = 1 TMP\_90 = 0 not(TMP\_90) = 1 TMP\_91 = 1 not(TMP\_91) = 0 TMP\_92 = 1 not(TMP\_92) = 0 TMP\_93 = 1 not(TMP\_93) = 0 TMP\_94 = 2 TMP\_95 = 1 not(TMP\_95) = 0 TMP\_96 = 0 not(TMP\_96) = 1 TMP\_97 = 1 not(TMP\_97) = 0 TMP\_98 = 1 not(TMP\_98) = 0 TMP\_99 = 1 not(TMP\_99) = 0 TMP\_100 = 1 not(TMP\_100) = 0 TMP\_101 = 5 TMP\_102 = 0 not(TMP\_102) = 1 TMP\_103 = 0 not(TMP\_103) = 1 TMP\_104 = 0 TMP\_105 = 1 not(TMP\_105) = 0 TMP\_106 = 1 not(TMP\_106) = 0 TMP\_107 = 2 TMP\_108 = 0 not(TMP\_108) = 1 TMP\_109 = 0 not(TMP\_109) = 1 TMP\_110 = 1 not(TMP\_110) = 0 TMP\_111 = 1 not(TMP\_111) = 0 TMP\_112 = 1 not(TMP\_112) = 0 TMP\_113 = 2 TMP\_114 = 1 not(TMP\_114) = 0 TMP\_115 = 1 not(TMP\_115) = 0 TMP\_116 = 1 not(TMP\_116) = 0 TMP\_117 = 1 not(TMP\_117) = 0 TMP\_118 = 0 not(TMP\_118) = 1 TMP\_119 = 1 not(TMP\_119) = 0 TMP\_120 = 5 TMP\_121 = 0 not(TMP\_121) = 1 TMP\_122 = 0 not(TMP\_122) = 1 TMP\_123 = 0 TMP\_124 = 1 not(TMP\_124) = 0 TMP\_125 = 1 not(TMP\_125) = 0 TMP\_126 = 2 TMP\_127 = 0 not(TMP\_127) = 1 TMP\_128 = 0 not(TMP\_128) = 1 TMP\_129 = 1 not(TMP\_129) = 0 TMP\_130 = 1 not(TMP\_130) = 0 TMP\_131 = 1 not(TMP\_131) = 0 TMP\_132 = 2 TMP\_133 = 0 not(TMP\_133) = 1 TMP\_134 = 1 not(TMP\_134) = 0 TMP\_135 = 1 not(TMP\_135) = 0 TMP\_136 = 1 not(TMP\_136) = 0 TMP\_137 = 0 not(TMP\_137) = 1 TMP\_138 = 1 not(TMP\_138) = 0 TMP\_139 = 4 TMP\_140 = 0 not(TMP\_140) = 1 TMP\_141 = 0 not(TMP\_141) = 1 TMP\_142 = 0 TMP\_143 = 1 not(TMP\_143) = 0 TMP\_144 = 1 not(TMP\_144) = 0 TMP\_145 = 2 TMP\_146 = 0 not(TMP\_146) = 1 TMP\_147 = 0 not(TMP\_147) = 1 TMP\_148 = 1 not(TMP\_148) = 0 TMP\_149 = 1 not(TMP\_149) = 0 TMP\_150 = 1 not(TMP\_150) = 0 TMP\_151 = 2 TMP\_152 = 0 not(TMP\_152) = 1 TMP\_153 = 1 not(TMP\_153) = 0 TMP\_154 = 1 not(TMP\_154) = 0 TMP\_155 = 1 not(TMP\_155) = 0 TMP\_156 = 1 not(TMP\_156) = 0 TMP\_157 = 1 not(TMP\_157) = 0 TMP\_158 = 5 TMP\_159 = 0 not(TMP\_159) = 1 TMP\_160 = 0 not(TMP\_160) = 1 TMP\_161 = 0 TMP\_162 = 1 not(TMP\_162) = 0 TMP\_163 = 1 not(TMP\_163) = 0 TMP\_164 = 2 TMP\_165 = 0 not(TMP\_165) = 1 TMP\_166 = 0 not(TMP\_166) = 1 TMP\_167 = 1 not(TMP\_167) = 0 TMP\_168 = 1 not(TMP\_168) = 0 TMP\_169 = 1 not(TMP\_169) = 0 TMP\_170 = 2 TMP\_171 = 0 not(TMP\_171) = 1 TMP\_172 = 1 not(TMP\_172) = 0 TMP\_173 = 1 not(TMP\_173) = 0 TMP\_174 = 1 not(TMP\_174) = 0 TMP\_175 = 1 not(TMP\_175) = 0 TMP\_176 = 0 not(TMP\_176) = 1 TMP\_177 = 4 TMP\_178 = 0 not(TMP\_178) = 1 TMP\_179 = 0 not(TMP\_179) = 1 TMP\_180 = 0 TMP\_181 = 1 not(TMP\_181) = 0 TMP\_182 = 1 not(TMP\_182) = 0 TMP\_183 = 2 TMP\_184 = 0 not(TMP\_184) = 1 TMP\_185 = 0 not(TMP\_185) = 1 TMP\_186 = 1 not(TMP\_186) = 0 TMP\_187 = 1 not(TMP\_187) = 0 TMP\_188 = 1 not(TMP\_188) = 0 TMP\_189 = 2 TMP\_190 = 0 not(TMP\_190) = 1 TMP\_191 = 1 not(TMP\_191) = 0 TMP\_192 = 1 not(TMP\_192) = 0 TMP\_193 = 1 not(TMP\_193) = 0 TMP\_194 = 1 not(TMP\_194) = 0 TMP\_195 = 0 not(TMP\_195) = 1 TMP\_196 = 4 TMP\_197 = 0 not(TMP\_197) = 1 TMP\_198 = 0 not(TMP\_198) = 1 TMP\_199 = 0 TMP\_200 = 1 not(TMP\_200) = 0 TMP\_201 = 1 not(TMP\_201) = 0 TMP\_202 = 2 TMP\_203 = 0 not(TMP\_203) = 1 TMP\_204 = 0 not(TMP\_204) = 1 TMP\_205 = 1 not(TMP\_205) = 0 TMP\_206 = 1 not(TMP\_206) = 0 TMP\_207 = 1 not(TMP\_207) = 0 TMP\_208 = 2 TMP\_209 = 0 not(TMP\_209) = 1 TMP\_210 = 1 not(TMP\_210) = 0 TMP\_211 = 1 not(TMP\_211) = 0 TMP\_212 = 1 not(TMP\_212) = 0 TMP\_213 = 1 not(TMP\_213) = 0 TMP\_214 = 1 not(TMP\_214) = 0 TMP\_215 = 5 TMP\_216 = 0 not(TMP\_216) = 1 TMP\_217 = 0 not(TMP\_217) = 1 TMP\_218 = 0 TMP\_219 = 1 not(TMP\_219) = 0 TMP\_220 = 1 not(TMP\_220) = 0 TMP\_221 = 2 TMP\_222 = 0 not(TMP\_222) = 1 TMP\_223 = 0 not(TMP\_223) = 1 TMP\_224 = 1 not(TMP\_224) = 0 TMP\_225 = 1 not(TMP\_225) = 0 TMP\_226 = 1 not(TMP\_226) = 0 TMP\_227 = 2 TMP\_228 = 0 not(TMP\_228) = 1 TMP\_229 = 1 not(TMP\_229) = 0 TMP\_230 = 1 not(TMP\_230) = 0 TMP\_231 = 1 not(TMP\_231) = 0 TMP\_232 = 1 not(TMP\_232) = 0 TMP\_233 = 1 not(TMP\_233) = 0 TMP\_234 = 5 TMP\_235 = 0 not(TMP\_235) = 1 TMP\_236 = 0 not(TMP\_236) = 1 TMP\_237 = 0 TMP\_238 = 1 not(TMP\_238) = 0 TMP\_239 = 1 not(TMP\_239) = 0 TMP\_240 = 2 TMP\_241 = 0 not(TMP\_241) = 1 TMP\_242 = 0 not(TMP\_242) = 1 TMP\_243 = 1 not(TMP\_243) = 0 TMP\_244 = 1 not(TMP\_244) = 0 TMP\_245 = 1 not(TMP\_245) = 0 TMP\_246 = 2 TMP\_247 = 1 not(TMP\_247) = 0 TMP\_248 = 0 not(TMP\_248) = 1 TMP\_249 = 1 not(TMP\_249) = 0 TMP\_250 = 1 not(TMP\_250) = 0 TMP\_251 = 1 not(TMP\_251) = 0 TMP\_252 = 1 not(TMP\_252) = 0 TMP\_253 = 5 TMP\_254 = 0 not(TMP\_254) = 1 TMP\_255 = 0 not(TMP\_255) = 1 TMP\_256 = 0 TMP\_257 = 1 not(TMP\_257) = 0 TMP\_258 = 1 not(TMP\_258) = 0 TMP\_259 = 2 TMP\_260 = 0 not(TMP\_260) = 1 TMP\_261 = 0 not(TMP\_261) = 1 TMP\_262 = 1 not(TMP\_262) = 0 TMP\_263 = 1 not(TMP\_263) = 0 TMP\_264 = 1 not(TMP\_264) = 0 TMP\_265 = 2 TMP\_266 = 1 not(TMP\_266) = 0 TMP\_267 = 0 not(TMP\_267) = 1 TMP\_268 = 1 not(TMP\_268) = 0 TMP\_269 = 1 not(TMP\_269) = 0 TMP\_270 = 1 not(TMP\_270) = 0 TMP\_271 = 0 not(TMP\_271) = 1 TMP\_272 = 4 TMP\_273 = 0 not(TMP\_273) = 1 TMP\_274 = 0 not(TMP\_274) = 1 TMP\_275 = 0 TMP\_276 = 1 not(TMP\_276) = 0 TMP\_277 = 1 not(TMP\_277) = 0 TMP\_278 = 2 TMP\_279 = 0 not(TMP\_279) = 1 TMP\_280 = 0 not(TMP\_280) = 1 TMP\_281 = 1 not(TMP\_281) = 0 TMP\_282 = 1 not(TMP\_282) = 0 TMP\_283 = 1 not(TMP\_283) = 0 TMP\_284 = 2 TMP\_285 = 1 not(TMP\_285) = 0 TMP\_286 = 1 not(TMP\_286) = 0 TMP\_287 = 1 not(TMP\_287) = 0 TMP\_288 = 1 not(TMP\_288) = 0 TMP\_289 = 1 not(TMP\_289) = 0 TMP\_290 = 0 not(TMP\_290) = 1 TMP\_291 = 5 TMP\_292 = 0 not(TMP\_292) = 1 TMP\_293 = 0 not(TMP\_293) = 1 TMP\_294 = 0 TMP\_295 = 1 not(TMP\_295) = 0 TMP\_296 = 1 not(TMP\_296) = 0 TMP\_297 = 2 TMP\_298 = 0 not(TMP\_298) = 1 TMP\_299 = 0 not(TMP\_299) = 1 TMP\_300 = 1 not(TMP\_300) = 0 TMP\_301 = 1 not(TMP\_301) = 0 TMP\_302 = 1 not(TMP\_302) = 0 TMP\_303 = 2 TMP\_304 = 0 not(TMP\_304) = 1 TMP\_305 = 1 not(TMP\_305) = 0 TMP\_306 = 1 not(TMP\_306) = 0 TMP\_307 = 1 not(TMP\_307) = 0 TMP\_308 = 1 not(TMP\_308) = 0 TMP\_309 = 1 not(TMP\_309) = 0 TMP\_310 = 5 TMP\_311 = 0 not(TMP\_311) = 1 TMP\_312 = 0 not(TMP\_312) = 1 TMP\_313 = 0 TMP\_314 = 1 not(TMP\_314) = 0 TMP\_315 = 1 not(TMP\_315) = 0 TMP\_316 = 2 TMP\_317 = 0 not(TMP\_317) = 1 TMP\_318 = 0 not(TMP\_318) = 1 TMP\_319 = 1 not(TMP\_319) = 0 TMP\_320 = 1 not(TMP\_320) = 0 TMP\_321 = 1 not(TMP\_321) = 0 TMP\_322 = 2 TMP\_323 = 0 not(TMP\_323) = 1 TMP\_324 = 1 not(TMP\_324) = 0 TMP\_325 = 1 not(TMP\_325) = 0 TMP\_326 = 1 not(TMP\_326) = 0 TMP\_327 = 1 not(TMP\_327) = 0 TMP\_328 = 0 not(TMP\_328) = 1 TMP\_329 = 4 TMP\_330 = 0 not(TMP\_330) = 1 TMP\_331 = 0 not(TMP\_331) = 1 TMP\_332 = 0 TMP\_333 = 1 not(TMP\_333) = 0 TMP\_334 = 1 not(TMP\_334) = 0 TMP\_335 = 2 TMP\_336 = 0 not(TMP\_336) = 1 TMP\_337 = 0 not(TMP\_337) = 1 TMP\_338 = 1 not(TMP\_338) = 0 TMP\_339 = 1 not(TMP\_339) = 0 TMP\_340 = 1 not(TMP\_340) = 0 TMP\_341 = 2 TMP\_342 = 1 not(TMP\_342) = 0 TMP\_343 = 1 not(TMP\_343) = 0 TMP\_344 = 1 not(TMP\_344) = 0 TMP\_345 = 1 not(TMP\_345) = 0 TMP\_346 = 1 not(TMP\_346) = 0 TMP\_347 = 0 not(TMP\_347) = 1 TMP\_348 = 5 TMP\_349 = 0 not(TMP\_349) = 1 TMP\_350 = 0 not(TMP\_350) = 1 TMP\_351 = 0 TMP\_352 = 1 not(TMP\_352) = 0 TMP\_353 = 1 not(TMP\_353) = 0 TMP\_354 = 2 TMP\_355 = 0 not(TMP\_355) = 1 TMP\_356 = 0 not(TMP\_356) = 1 TMP\_357 = 1 not(TMP\_357) = 0 TMP\_358 = 1 not(TMP\_358) = 0 TMP\_359 = 1 not(TMP\_359) = 0 TMP\_360 = 2 TMP\_361 = 1 not(TMP\_361) = 0 TMP\_362 = 0 not(TMP\_362) = 1 TMP\_363 = 1 not(TMP\_363) = 0 TMP\_364 = 1 not(TMP\_364) = 0 TMP\_365 = 1 not(TMP\_365) = 0 TMP\_366 = 0 not(TMP\_366) = 1 TMP\_367 = 4 TMP\_368 = 0 not(TMP\_368) = 1 TMP\_369 = 0 not(TMP\_369) = 1 TMP\_370 = 0 TMP\_371 = 1 not(TMP\_371) = 0 TMP\_372 = 1 not(TMP\_372) = 0 TMP\_373 = 2 TMP\_374 = 0 not(TMP\_374) = 1 TMP\_375 = 0 not(TMP\_375) = 1 TMP\_376 = 1 not(TMP\_376) = 0 TMP\_377 = 1 not(TMP\_377) = 0 TMP\_378 = 1 not(TMP\_378) = 0 TMP\_379 = 2 TMP\_380 = 1 not(TMP\_380) = 0 TMP\_381 = 0 not(TMP\_381) = 1 TMP\_382 = 1 not(TMP\_382) = 0 TMP\_383 = 1 not(TMP\_383) = 0 TMP\_384 = 1 not(TMP\_384) = 0 TMP\_385 = 1 not(TMP\_385) = 0 TMP\_386 = 5 TMP\_387 = 0 not(TMP\_387) = 1 TMP\_388 = 0 not(TMP\_388) = 1 TMP\_389 = 0 TMP\_390 = 1 not(TMP\_390) = 0 TMP\_391 = 1 not(TMP\_391) = 0 TMP\_392 = 2 TMP\_393 = 0 not(TMP\_393) = 1 TMP\_394 = 0 not(TMP\_394) = 1 TMP\_395 = 1 not(TMP\_395) = 0 TMP\_396 = 1 not(TMP\_396) = 0 TMP\_397 = 1 not(TMP\_397) = 0 TMP\_398 = 2 TMP\_399 = 1 not(TMP\_399) = 0 TMP\_400 = 0 not(TMP\_400) = 1 TMP\_401 = 1 not(TMP\_401) = 0 TMP\_402 = 1 not(TMP\_402) = 0 TMP\_403 = 1 not(TMP\_403) = 0 TMP\_404 = 1 not(TMP\_404) = 0 TMP\_405 = 5 TMP\_406 = 0 not(TMP\_406) = 1 TMP\_407 = 0 not(TMP\_407) = 1 TMP\_408 = 0 TMP\_409 = 1 not(TMP\_409) = 0 TMP\_410 = 1 not(TMP\_410) = 0 TMP\_411 = 2 TMP\_412 = 0 not(TMP\_412) = 1 TMP\_413 = 0 not(TMP\_413) = 1 TMP\_414 = 1 not(TMP\_414) = 0 TMP\_415 = 1 not(TMP\_415) = 0 TMP\_416 = 1 not(TMP\_416) = 0 TMP\_417 = 2 TMP\_418 = 1 not(TMP\_418) = 0 TMP\_419 = 0 not(TMP\_419) = 1 TMP\_420 = 1 not(TMP\_420) = 0 TMP\_421 = 1 not(TMP\_421) = 0 TMP\_422 = 1 not(TMP\_422) = 0 TMP\_423 = 1 not(TMP\_423) = 0 TMP\_424 = 5 TMP\_425 = 0 not(TMP\_425) = 1 TMP\_426 = 0 not(TMP\_426) = 1 TMP\_427 = 0 TMP\_428 = 1 not(TMP\_428) = 0 TMP\_429 = 1 not(TMP\_429) = 0 TMP\_430 = 2 TMP\_431 = 0 not(TMP\_431) = 1 TMP\_432 = 0 not(TMP\_432) = 1 TMP\_433 = 1 not(TMP\_433) = 0 TMP\_434 = 1 not(TMP\_434) = 0 TMP\_435 = 1 not(TMP\_435) = 0 TMP\_436 = 2 TMP\_437 = 1 not(TMP\_437) = 0 TMP\_438 = 0 not(TMP\_438) = 1 TMP\_439 = 1 not(TMP\_439) = 0 TMP\_440 = 1 not(TMP\_440) = 0 TMP\_441 = 1 not(TMP\_441) = 0 TMP\_442 = 0 not(TMP\_442) = 1 TMP\_443 = 4 TMP\_444 = 0 not(TMP\_444) = 1 TMP\_445 = 0 not(TMP\_445) = 1 TMP\_446 = 0 TMP\_447 = 1 not(TMP\_447) = 0 TMP\_448 = 1 not(TMP\_448) = 0 TMP\_449 = 2 TMP\_450 = 0 not(TMP\_450) = 1 TMP\_451 = 0 not(TMP\_451) = 1 TMP\_452 = 1 not(TMP\_452) = 0 TMP\_453 = 1 not(TMP\_453) = 0 TMP\_454 = 1 not(TMP\_454) = 0 TMP\_455 = 2 TMP\_456 = 1 not(TMP\_456) = 0 TMP\_457 = 0 not(TMP\_457) = 1 TMP\_458 = 1 not(TMP\_458) = 0 TMP\_459 = 1 not(TMP\_459) = 0 TMP\_460 = 1 not(TMP\_460) = 0 TMP\_461 = 0 not(TMP\_461) = 1 TMP\_462 = 4 TMP\_463 = 0 not(TMP\_463) = 1 TMP\_464 = 0 not(TMP\_464) = 1 TMP\_465 = 0 TMP\_466 = 1 not(TMP\_466) = 0 TMP\_467 = 1 not(TMP\_467) = 0 TMP\_468 = 2 TMP\_469 = 0 not(TMP\_469) = 1 TMP\_470 = 0 not(TMP\_470) = 1 TMP\_471 = 1 not(TMP\_471) = 0 TMP\_472 = 1 not(TMP\_472) = 0 TMP\_473 = 1 not(TMP\_473) = 0 TMP\_474 = 2 TMP\_475 = 1 not(TMP\_475) = 0 TMP\_476 = 0 not(TMP\_476) = 1 TMP\_477 = 1 not(TMP\_477) = 0 TMP\_478 = 1 not(TMP\_478) = 0 TMP\_479 = 1 not(TMP\_479) = 0 TMP\_480 = 1 not(TMP\_480) = 0 TMP\_481 = 5 TMP\_482 = 0 not(TMP\_482) = 1 TMP\_483 = 0 not(TMP\_483) = 1 TMP\_484 = 0 TMP\_485 = 1 not(TMP\_485) = 0 TMP\_486 = 1 not(TMP\_486) = 0 TMP\_487 = 2 TMP\_488 = 0 not(TMP\_488) = 1 TMP\_489 = 0 not(TMP\_489) = 1 TMP\_490 = 1 not(TMP\_490) = 0 TMP\_491 = 1 not(TMP\_491) = 0 TMP\_492 = 1 not(TMP\_492) = 0 TMP\_493 = 2 TMP\_494 = 1 not(TMP\_494) = 0 TMP\_495 = 1 not(TMP\_495) = 0 TMP\_496 = 1 not(TMP\_496) = 0 TMP\_497 = 1 not(TMP\_497) = 0 TMP\_498 = 1 not(TMP\_498) = 0 TMP\_499 = 0 not(TMP\_499) = 1 TMP\_500 = 5 TMP\_501 = 0 not(TMP\_501) = 1 TMP\_502 = 0 not(TMP\_502) = 1 TMP\_503 = 0 TMP\_504 = 1 not(TMP\_504) = 0 TMP\_505 = 1 not(TMP\_505) = 0 TMP\_506 = 2 TMP\_507 = 0 not(TMP\_507) = 1 TMP\_508 = 0 not(TMP\_508) = 1 TMP\_509 = 1 not(TMP\_509) = 0 TMP\_510 = 1 not(TMP\_510) = 0 TMP\_511 = 1 not(TMP\_511) = 0 TMP\_512 = 2 TMP\_513 = 0 not(TMP\_513) = 1 TMP\_514 = 1 not(TMP\_514) = 0 TMP\_515 = 1 not(TMP\_515) = 0 TMP\_516 = 1 not(TMP\_516) = 0 TMP\_517 = 1 not(TMP\_517) = 0 TMP\_518 = 1 not(TMP\_518) = 0 TMP\_519 = 5 TMP\_520 = 0 not(TMP\_520) = 1 TMP\_521 = 0 not(TMP\_521) = 1 TMP\_522 = 0 TMP\_523 = 1 not(TMP\_523) = 0 TMP\_524 = 1 not(TMP\_524) = 0 TMP\_525 = 2 TMP\_526 = 0 not(TMP\_526) = 1 TMP\_527 = 0 not(TMP\_527) = 1 TMP\_528 = 1 not(TMP\_528) = 0 TMP\_529 = 1 not(TMP\_529) = 0 TMP\_530 = 1 not(TMP\_530) = 0 TMP\_531 = 2 TMP\_532 = 1 not(TMP\_532) = 0 TMP\_533 = 0 not(TMP\_533) = 1 TMP\_534 = 1 not(TMP\_534) = 0 TMP\_535 = 1 not(TMP\_535) = 0 TMP\_536 = 1 not(TMP\_536) = 0 TMP\_537 = 1 not(TMP\_537) = 0 TMP\_538 = 5 TMP\_539 = 0 not(TMP\_539) = 1 TMP\_540 = 0 not(TMP\_540) = 1 TMP\_541 = 0 TMP\_542 = 1 not(TMP\_542) = 0 TMP\_543 = 1 not(TMP\_543) = 0 TMP\_544 = 2 TMP\_545 = 0 not(TMP\_545) = 1 TMP\_546 = 0 not(TMP\_546) = 1 TMP\_547 = 1 not(TMP\_547) = 0 TMP\_548 = 1 not(TMP\_548) = 0 TMP\_549 = 1 not(TMP\_549) = 0 TMP\_550 = 2 TMP\_551 = 1 not(TMP\_551) = 0 TMP\_552 = 0 not(TMP\_552) = 1 TMP\_553 = 1 not(TMP\_553) = 0 TMP\_554 = 1 not(TMP\_554) = 0 TMP\_555 = 0 not(TMP\_555) = 1 TMP\_556 = 1 not(TMP\_556) = 0 TMP\_557 = 4 TMP\_558 = 0 not(TMP\_558) = 1 TMP\_559 = 0 not(TMP\_559) = 1 TMP\_560 = 0 TMP\_561 = 1 not(TMP\_561) = 0 TMP\_562 = 1 not(TMP\_562) = 0 TMP\_563 = 2 TMP\_564 = 0 not(TMP\_564) = 1 TMP\_565 = 0 not(TMP\_565) = 1 TMP\_566 = 1 not(TMP\_566) = 0 TMP\_567 = 1 not(TMP\_567) = 0 TMP\_568 = 1 not(TMP\_568) = 0 TMP\_569 = 2 TMP\_570 = 1 not(TMP\_570) = 0 TMP\_571 = 0 not(TMP\_571) = 1 TMP\_572 = 1 not(TMP\_572) = 0 TMP\_573 = 1 not(TMP\_573) = 0 TMP\_574 = 0 not(TMP\_574) = 1 TMP\_575 = 1 not(TMP\_575) = 0 TMP\_576 = 4 TMP\_577 = 0 not(TMP\_577) = 1 TMP\_578 = 0 not(TMP\_578) = 1 TMP\_579 = 0 TMP\_580 = 1 not(TMP\_580) = 0 TMP\_581 = 1 not(TMP\_581) = 0 TMP\_582 = 2 TMP\_583 = 0 not(TMP\_583) = 1 TMP\_584 = 0 not(TMP\_584) = 1 TMP\_585 = 1 not(TMP\_585) = 0 TMP\_586 = 1 not(TMP\_586) = 0 TMP\_587 = 1 not(TMP\_587) = 0 TMP\_588 = 2 TMP\_589 = 1 not(TMP\_589) = 0 TMP\_590 = 0 not(TMP\_590) = 1 TMP\_591 = 1 not(TMP\_591) = 0 TMP\_592 = 1 not(TMP\_592) = 0 TMP\_593 = 0 not(TMP\_593) = 1 TMP\_594 = 1 not(TMP\_594) = 0 TMP\_595 = 4 TMP\_596 = 0 not(TMP\_596) = 1 TMP\_597 = 0 not(TMP\_597) = 1 TMP\_598 = 0 TMP\_599 = 1 not(TMP\_599) = 0 TMP\_600 = 1 not(TMP\_600) = 0 TMP\_601 = 2 TMP\_602 = 0 not(TMP\_602) = 1 TMP\_603 = 0 not(TMP\_603) = 1 TMP\_604 = 1 not(TMP\_604) = 0 TMP\_605 = 1 not(TMP\_605) = 0 TMP\_606 = 1 not(TMP\_606) = 0 TMP\_607 = 2 TMP\_608 = 1 not(TMP\_608) = 0 TMP\_609 = 0 not(TMP\_609) = 1 TMP\_610 = 1 not(TMP\_610) = 0 TMP\_611 = 1 not(TMP\_611) = 0 TMP\_612 = 1 not(TMP\_612) = 0 TMP\_613 = 1 not(TMP\_613) = 0 TMP\_614 = 5 TMP\_615 = 0 not(TMP\_615) = 1 TMP\_616 = 0 not(TMP\_616) = 1 TMP\_617 = 0 TMP\_618 = 1 not(TMP\_618) = 0 TMP\_619 = 1 not(TMP\_619) = 0 TMP\_620 = 2 TMP\_621 = 0 not(TMP\_621) = 1 TMP\_622 = 0 not(TMP\_622) = 1 TMP\_623 = 1 not(TMP\_623) = 0 TMP\_624 = 1 not(TMP\_624) = 0 TMP\_625 = 1 not(TMP\_625) = 0 TMP\_626 = 2 TMP\_627 = 1 not(TMP\_627) = 0 TMP\_628 = 0 not(TMP\_628) = 1 TMP\_629 = 1 not(TMP\_629) = 0 TMP\_630 = 1 not(TMP\_630) = 0 TMP\_631 = 1 not(TMP\_631) = 0 TMP\_632 = 1 not(TMP\_632) = 0 TMP\_633 = 5 TMP\_634 = 0 not(TMP\_634) = 1 TMP\_635 = 0 not(TMP\_635) = 1 TMP\_636 = 0 TMP\_637 = 1 not(TMP\_637) = 0 TMP\_638 = 1 not(TMP\_638) = 0 TMP\_639 = 2 TMP\_640 = 0 not(TMP\_640) = 1 TMP\_641 = 0 not(TMP\_641) = 1 TMP\_642 = 1 not(TMP\_642) = 0 TMP\_643 = 1 not(TMP\_643) = 0 TMP\_644 = 1 not(TMP\_644) = 0 TMP\_645 = 2 TMP\_646 = 1 not(TMP\_646) = 0 TMP\_647 = 0 not(TMP\_647) = 1 TMP\_648 = 1 not(TMP\_648) = 0 TMP\_649 = 1 not(TMP\_649) = 0 TMP\_650 = 0 not(TMP\_650) = 1 TMP\_651 = 1 not(TMP\_651) = 0 TMP\_652 = 4 TMP\_653 = 0 not(TMP\_653) = 1 TMP\_654 = 0 not(TMP\_654) = 1 TMP\_655 = 0 TMP\_656 = 1 not(TMP\_656) = 0 TMP\_657 = 1 not(TMP\_657) = 0 TMP\_658 = 2 TMP\_659 = 0 not(TMP\_659) = 1 TMP\_660 = 0 not(TMP\_660) = 1 TMP\_661 = 1 not(TMP\_661) = 0 TMP\_662 = 1 not(TMP\_662) = 0 TMP\_663 = 1 not(TMP\_663) = 0 TMP\_664 = 2 TMP\_665 = 1 not(TMP\_665) = 0 TMP\_666 = 1 not(TMP\_666) = 0 TMP\_667 = 1 not(TMP\_667) = 0 TMP\_668 = 1 not(TMP\_668) = 0 TMP\_669 = 0 not(TMP\_669) = 1 TMP\_670 = 1 not(TMP\_670) = 0 TMP\_671 = 5 TMP\_672 = 0 not(TMP\_672) = 1 TMP\_673 = 0 not(TMP\_673) = 1 TMP\_674 = 0 TMP\_675 = 1 not(TMP\_675) = 0 TMP\_676 = 1 not(TMP\_676) = 0 TMP\_677 = 2 TMP\_678 = 0 not(TMP\_678) = 1 TMP\_679 = 0 not(TMP\_679) = 1 TMP\_680 = 1 not(TMP\_680) = 0 TMP\_681 = 1 not(TMP\_681) = 0 TMP\_682 = 1 not(TMP\_682) = 0 TMP\_683 = 2 Area\_0 = 60 Distance\_0\_Rule\_0 = 20 Distance\_1\_Rule\_0 = 3 Distance\_2\_Rule\_0 = 1 Area\_1 = 174 Distance\_0\_Rule\_1 = 58 Distance\_1\_Rule\_1 = 3 Distance\_2\_Rule\_1 = 1 Area\_2 = 116 Distance\_0\_Rule\_2 = 58 Distance\_1\_Rule\_2 = 2 Distance\_2\_Rule\_2 = 1 Area\_3 = 58 Distance\_0\_Rule\_3 = 58 Distance\_1\_Rule\_3 = 1 Distance\_2\_Rule\_3 = 1 Area\_4 = 120 Distance\_0\_Rule\_4 = 40 Distance\_1\_Rule\_4 = 3 Distance\_2\_Rule\_4 = 1 Area\_5 = 120 Distance\_0\_Rule\_5 = 40 Distance\_1\_Rule\_5 = 3 Distance\_2\_Rule\_5 = 1 Area\_6 = 3 -(Rule\_6\_LB) = -79 Distance\_0\_Rule\_6 = 1 -(Rule\_6\_LB) = 0 Distance\_1\_Rule\_6 = 3 -(Rule\_6\_LB) = -1 Distance\_2\_Rule\_6 = 1 Area\_7 = 3 -(Rule\_7\_LB) = -79 Distance\_0\_Rule\_7 = 1 -(Rule\_7\_LB) = 0 Distance\_1\_Rule\_7 = 3 -(Rule\_7\_LB) = 0 Distance\_2\_Rule\_7 = 1 Area\_8 = 63 -(Rule\_8\_LB) = 0 Distance\_0\_Rule\_8 = 21 -(Rule\_8\_LB) = 0 Distance\_1\_Rule\_8 = 3 -(Rule\_8\_LB) = 0 Distance\_2\_Rule\_8 = 1 Area\_9 = 3 -(Rule\_9\_LB) = -20 Distance\_0\_Rule\_9 = 1 -(Rule\_9\_LB) = 0 Distance\_1\_Rule\_9 = 3 -(Rule\_9\_LB) = -1 Distance\_2\_Rule\_9 = 1 TMP\_684 = 720 .

- Solution #14 found. 14 Solutions, Resolution 1.472s, 732 Nodes (497.1 n/s), 1350 Backtracks, 670 Fails, 0 Restarts

Rule\_6\_LB = 79 Rule\_6\_UB = 80 Rule\_6\_LB = 0 Rule\_6\_UB = 3 Rule\_6\_LB = 1 Rule\_6\_UB = 2 Rule\_7\_LB = 79 Rule\_7\_UB = 80 Rule\_7\_LB = 0 Rule\_7\_UB = 3 Rule\_7\_LB = 0 Rule\_7\_UB = 1 Rule\_8\_LB = 0 Rule\_8\_UB = 21 Rule\_8\_LB = 0 Rule\_8\_UB = 3 Rule\_8\_LB = 0 Rule\_8\_UB = 1 Rule\_9\_LB = 20 Rule\_9\_UB = 21 Rule\_9\_LB = 0 Rule\_9\_UB = 3 Rule\_9\_LB = 1 Rule\_9\_UB = 2 Overlaps\_0\_0 = 0 Overlaps\_0\_1 = 0 Overlaps\_0\_2 = 0 Overlaps\_0\_3 = 0 Overlaps\_0\_4 = 0 Overlaps\_0\_5 = 0 Overlaps\_0\_6 = 0 Overlaps\_0\_7 = 0 Overlaps\_0\_8 = 0 Overlaps\_0\_9 = 0 Overlaps\_1\_0 = 0 Overlaps\_1\_1 = 0 Overlaps\_1\_2 = 1 Overlaps\_1\_3 = 0 Overlaps\_1\_4 = 0 Overlaps\_1\_5 = 0 Overlaps\_1\_6 = 0 Overlaps\_1\_7 = 0 Overlaps\_1\_8 = 0 Overlaps\_1\_9 = 0 Overlaps\_2\_0 = 1 Overlaps\_2\_1 = 0 Overlaps\_2\_2 = 0 Overlaps\_2\_3 = 0 Overlaps\_2\_4 = 0 Overlaps\_2\_5 = 0 Overlaps\_2\_6 = 0 Overlaps\_2\_7 = 0 Overlaps\_2\_8 = 0 Overlaps\_2\_9 = 0 Overlaps\_3\_0 = 0 Overlaps\_3\_1 = 0 Overlaps\_3\_2 = 0 Overlaps\_3\_3 = 0 Overlaps\_3\_4 = 0 Overlaps\_3\_5 = 0 Overlaps\_3\_6 = 0 Overlaps\_3\_7 = 0 Overlaps\_3\_8 = 0 Overlaps\_3\_9 = 0 Overlaps\_4\_0 = 0 Overlaps\_4\_1 = 0 Overlaps\_4\_2 = 0 Overlaps\_4\_3 = 0 Overlaps\_4\_4 = 0 Overlaps\_4\_5 = 0 Overlaps\_4\_6 = 0 Overlaps\_4\_7 = 0 Overlaps\_4\_8 = 0 Overlaps\_4\_9 = 0 Overlaps\_5\_0 = 1 Overlaps\_5\_1 = 0 Overlaps\_5\_2 = 0 Overlaps\_5\_3 = 0 Overlaps\_5\_4 = 0 Overlaps\_5\_5 = 0 Overlaps\_5\_6 = 0 Overlaps\_5\_7 = 0 Overlaps\_5\_8 = 0 Overlaps\_5\_9 = 0 Overlaps\_6\_0 = 0 Overlaps\_6\_1 = 0 Overlaps\_6\_2 = 0 Overlaps\_6\_3 = 0 Overlaps\_6\_4 = 0 Overlaps\_6\_5 = 0 Overlaps\_6\_6 = 0 Overlaps\_6\_7 = 0 Overlaps\_6\_8 = 0 Overlaps\_6\_9 = 0 Overlaps\_7\_0 = 0 Overlaps\_7\_1 = 0 Overlaps\_7\_2 = 0 Overlaps\_7\_3 = 0 Overlaps\_7\_4 = 0 Overlaps\_7\_5 = 0 Overlaps\_7\_6 = 0 Overlaps\_7\_7 = 0 Overlaps\_7\_8 = 0 Overlaps\_7\_9 = 0 Overlaps\_8\_0 = 0 Overlaps\_8\_1 = 0 Overlaps\_8\_2 = 0 Overlaps\_8\_3 = 0 Overlaps\_8\_4 = 0 Overlaps\_8\_5 = 0 Overlaps\_8\_6 = 0 Overlaps\_8\_7 = 0 Overlaps\_8\_8 = 0 Overlaps\_8\_9 = 0 Overlaps\_9\_0 = 0 Overlaps\_9\_1 = 0 Overlaps\_9\_2 = 0 Overlaps\_9\_3 = 0 Overlaps\_9\_4 = 0 Overlaps\_9\_5 = 0 Overlaps\_9\_6 = 0 Overlaps\_9\_7 = 0 Overlaps\_9\_8 = 0 Overlaps\_9\_9 = 0 TMP\_0 = 0 not(TMP\_0) = 1 TMP\_1 = 1 not(TMP\_1) = 0 TMP\_2 = 1 not(TMP\_2) = 0 TMP\_3 = 1 not(TMP\_3) = 0 TMP\_4 = 1 not(TMP\_4) = 0 TMP\_5 = 1 not(TMP\_5) = 0 TMP\_6 = 5 TMP\_7 = 0 not(TMP\_7) = 1 TMP\_8 = 0 not(TMP\_8) = 1 TMP\_9 = 0 TMP\_10 = 1 not(TMP\_10) = 0 TMP\_11 = 1 not(TMP\_11) = 0 TMP\_12 = 2 TMP\_13 = 0 not(TMP\_13) = 1 TMP\_14 = 0 not(TMP\_14) = 1 TMP\_15 = 1 not(TMP\_15) = 0 TMP\_16 = 1 not(TMP\_16) = 0 TMP\_17 = 1 not(TMP\_17) = 0 TMP\_18 = 2 TMP\_19 = 0 not(TMP\_19) = 1 TMP\_20 = 1 not(TMP\_20) = 0 TMP\_21 = 1 not(TMP\_21) = 0 TMP\_22 = 1 not(TMP\_22) = 0 TMP\_23 = 1 not(TMP\_23) = 0 TMP\_24 = 1 not(TMP\_24) = 0 TMP\_25 = 5 TMP\_26 = 0 not(TMP\_26) = 1 TMP\_27 = 0 not(TMP\_27) = 1 TMP\_28 = 0 TMP\_29 = 1 not(TMP\_29) = 0 TMP\_30 = 1 not(TMP\_30) = 0 TMP\_31 = 2 TMP\_32 = 0 not(TMP\_32) = 1 TMP\_33 = 0 not(TMP\_33) = 1 TMP\_34 = 1 not(TMP\_34) = 0 TMP\_35 = 1 not(TMP\_35) = 0 TMP\_36 = 1 not(TMP\_36) = 0 TMP\_37 = 2 TMP\_38 = 0 not(TMP\_38) = 1 TMP\_39 = 1 not(TMP\_39) = 0 TMP\_40 = 1 not(TMP\_40) = 0 TMP\_41 = 1 not(TMP\_41) = 0 TMP\_42 = 0 not(TMP\_42) = 1 TMP\_43 = 1 not(TMP\_43) = 0 TMP\_44 = 4 TMP\_45 = 0 not(TMP\_45) = 1 TMP\_46 = 0 not(TMP\_46) = 1 TMP\_47 = 0 TMP\_48 = 1 not(TMP\_48) = 0 TMP\_49 = 1 not(TMP\_49) = 0 TMP\_50 = 2 TMP\_51 = 0 not(TMP\_51) = 1 TMP\_52 = 0 not(TMP\_52) = 1 TMP\_53 = 1 not(TMP\_53) = 0 TMP\_54 = 1 not(TMP\_54) = 0 TMP\_55 = 1 not(TMP\_55) = 0 TMP\_56 = 2 TMP\_57 = 0 not(TMP\_57) = 1 TMP\_58 = 1 not(TMP\_58) = 0 TMP\_59 = 1 not(TMP\_59) = 0 TMP\_60 = 1 not(TMP\_60) = 0 TMP\_61 = 0 not(TMP\_61) = 1 TMP\_62 = 1 not(TMP\_62) = 0 TMP\_63 = 4 TMP\_64 = 0 not(TMP\_64) = 1 TMP\_65 = 0 not(TMP\_65) = 1 TMP\_66 = 0 TMP\_67 = 1 not(TMP\_67) = 0 TMP\_68 = 1 not(TMP\_68) = 0 TMP\_69 = 2 TMP\_70 = 0 not(TMP\_70) = 1 TMP\_71 = 0 not(TMP\_71) = 1 TMP\_72 = 1 not(TMP\_72) = 0 TMP\_73 = 1 not(TMP\_73) = 0 TMP\_74 = 1 not(TMP\_74) = 0 TMP\_75 = 2 TMP\_76 = 1 not(TMP\_76) = 0 TMP\_77 = 0 not(TMP\_77) = 1 TMP\_78 = 1 not(TMP\_78) = 0 TMP\_79 = 1 not(TMP\_79) = 0 TMP\_80 = 0 not(TMP\_80) = 1 TMP\_81 = 1 not(TMP\_81) = 0 TMP\_82 = 4 TMP\_83 = 0 not(TMP\_83) = 1 TMP\_84 = 0 not(TMP\_84) = 1 TMP\_85 = 0 TMP\_86 = 1 not(TMP\_86) = 0 TMP\_87 = 1 not(TMP\_87) = 0 TMP\_88 = 2 TMP\_89 = 0 not(TMP\_89) = 1 TMP\_90 = 0 not(TMP\_90) = 1 TMP\_91 = 1 not(TMP\_91) = 0 TMP\_92 = 1 not(TMP\_92) = 0 TMP\_93 = 1 not(TMP\_93) = 0 TMP\_94 = 2 TMP\_95 = 1 not(TMP\_95) = 0 TMP\_96 = 0 not(TMP\_96) = 1 TMP\_97 = 1 not(TMP\_97) = 0 TMP\_98 = 1 not(TMP\_98) = 0 TMP\_99 = 1 not(TMP\_99) = 0 TMP\_100 = 1 not(TMP\_100) = 0 TMP\_101 = 5 TMP\_102 = 0 not(TMP\_102) = 1 TMP\_103 = 0 not(TMP\_103) = 1 TMP\_104 = 0 TMP\_105 = 1 not(TMP\_105) = 0 TMP\_106 = 1 not(TMP\_106) = 0 TMP\_107 = 2 TMP\_108 = 0 not(TMP\_108) = 1 TMP\_109 = 0 not(TMP\_109) = 1 TMP\_110 = 1 not(TMP\_110) = 0 TMP\_111 = 1 not(TMP\_111) = 0 TMP\_112 = 1 not(TMP\_112) = 0 TMP\_113 = 2 TMP\_114 = 1 not(TMP\_114) = 0 TMP\_115 = 1 not(TMP\_115) = 0 TMP\_116 = 1 not(TMP\_116) = 0 TMP\_117 = 1 not(TMP\_117) = 0 TMP\_118 = 0 not(TMP\_118) = 1 TMP\_119 = 1 not(TMP\_119) = 0 TMP\_120 = 5 TMP\_121 = 0 not(TMP\_121) = 1 TMP\_122 = 0 not(TMP\_122) = 1 TMP\_123 = 0 TMP\_124 = 1 not(TMP\_124) = 0 TMP\_125 = 1 not(TMP\_125) = 0 TMP\_126 = 2 TMP\_127 = 0 not(TMP\_127) = 1 TMP\_128 = 0 not(TMP\_128) = 1 TMP\_129 = 1 not(TMP\_129) = 0 TMP\_130 = 1 not(TMP\_130) = 0 TMP\_131 = 1 not(TMP\_131) = 0 TMP\_132 = 2 TMP\_133 = 0 not(TMP\_133) = 1 TMP\_134 = 1 not(TMP\_134) = 0 TMP\_135 = 1 not(TMP\_135) = 0 TMP\_136 = 1 not(TMP\_136) = 0 TMP\_137 = 0 not(TMP\_137) = 1 TMP\_138 = 1 not(TMP\_138) = 0 TMP\_139 = 4 TMP\_140 = 0 not(TMP\_140) = 1 TMP\_141 = 0 not(TMP\_141) = 1 TMP\_142 = 0 TMP\_143 = 1 not(TMP\_143) = 0 TMP\_144 = 1 not(TMP\_144) = 0 TMP\_145 = 2 TMP\_146 = 0 not(TMP\_146) = 1 TMP\_147 = 0 not(TMP\_147) = 1 TMP\_148 = 1 not(TMP\_148) = 0 TMP\_149 = 1 not(TMP\_149) = 0 TMP\_150 = 1 not(TMP\_150) = 0 TMP\_151 = 2 TMP\_152 = 0 not(TMP\_152) = 1 TMP\_153 = 1 not(TMP\_153) = 0 TMP\_154 = 1 not(TMP\_154) = 0 TMP\_155 = 1 not(TMP\_155) = 0 TMP\_156 = 1 not(TMP\_156) = 0 TMP\_157 = 1 not(TMP\_157) = 0 TMP\_158 = 5 TMP\_159 = 0 not(TMP\_159) = 1 TMP\_160 = 0 not(TMP\_160) = 1 TMP\_161 = 0 TMP\_162 = 1 not(TMP\_162) = 0 TMP\_163 = 1 not(TMP\_163) = 0 TMP\_164 = 2 TMP\_165 = 0 not(TMP\_165) = 1 TMP\_166 = 0 not(TMP\_166) = 1 TMP\_167 = 1 not(TMP\_167) = 0 TMP\_168 = 1 not(TMP\_168) = 0 TMP\_169 = 1 not(TMP\_169) = 0 TMP\_170 = 2 TMP\_171 = 0 not(TMP\_171) = 1 TMP\_172 = 1 not(TMP\_172) = 0 TMP\_173 = 1 not(TMP\_173) = 0 TMP\_174 = 1 not(TMP\_174) = 0 TMP\_175 = 1 not(TMP\_175) = 0 TMP\_176 = 0 not(TMP\_176) = 1 TMP\_177 = 4 TMP\_178 = 0 not(TMP\_178) = 1 TMP\_179 = 0 not(TMP\_179) = 1 TMP\_180 = 0 TMP\_181 = 1 not(TMP\_181) = 0 TMP\_182 = 1 not(TMP\_182) = 0 TMP\_183 = 2 TMP\_184 = 0 not(TMP\_184) = 1 TMP\_185 = 0 not(TMP\_185) = 1 TMP\_186 = 1 not(TMP\_186) = 0 TMP\_187 = 1 not(TMP\_187) = 0 TMP\_188 = 1 not(TMP\_188) = 0 TMP\_189 = 2 TMP\_190 = 0 not(TMP\_190) = 1 TMP\_191 = 1 not(TMP\_191) = 0 TMP\_192 = 1 not(TMP\_192) = 0 TMP\_193 = 1 not(TMP\_193) = 0 TMP\_194 = 1 not(TMP\_194) = 0 TMP\_195 = 0 not(TMP\_195) = 1 TMP\_196 = 4 TMP\_197 = 0 not(TMP\_197) = 1 TMP\_198 = 0 not(TMP\_198) = 1 TMP\_199 = 0 TMP\_200 = 1 not(TMP\_200) = 0 TMP\_201 = 1 not(TMP\_201) = 0 TMP\_202 = 2 TMP\_203 = 0 not(TMP\_203) = 1 TMP\_204 = 0 not(TMP\_204) = 1 TMP\_205 = 1 not(TMP\_205) = 0 TMP\_206 = 1 not(TMP\_206) = 0 TMP\_207 = 1 not(TMP\_207) = 0 TMP\_208 = 2 TMP\_209 = 0 not(TMP\_209) = 1 TMP\_210 = 1 not(TMP\_210) = 0 TMP\_211 = 1 not(TMP\_211) = 0 TMP\_212 = 1 not(TMP\_212) = 0 TMP\_213 = 1 not(TMP\_213) = 0 TMP\_214 = 1 not(TMP\_214) = 0 TMP\_215 = 5 TMP\_216 = 0 not(TMP\_216) = 1 TMP\_217 = 0 not(TMP\_217) = 1 TMP\_218 = 0 TMP\_219 = 1 not(TMP\_219) = 0 TMP\_220 = 1 not(TMP\_220) = 0 TMP\_221 = 2 TMP\_222 = 0 not(TMP\_222) = 1 TMP\_223 = 0 not(TMP\_223) = 1 TMP\_224 = 1 not(TMP\_224) = 0 TMP\_225 = 1 not(TMP\_225) = 0 TMP\_226 = 1 not(TMP\_226) = 0 TMP\_227 = 2 TMP\_228 = 0 not(TMP\_228) = 1 TMP\_229 = 1 not(TMP\_229) = 0 TMP\_230 = 1 not(TMP\_230) = 0 TMP\_231 = 1 not(TMP\_231) = 0 TMP\_232 = 1 not(TMP\_232) = 0 TMP\_233 = 1 not(TMP\_233) = 0 TMP\_234 = 5 TMP\_235 = 0 not(TMP\_235) = 1 TMP\_236 = 0 not(TMP\_236) = 1 TMP\_237 = 0 TMP\_238 = 1 not(TMP\_238) = 0 TMP\_239 = 1 not(TMP\_239) = 0 TMP\_240 = 2 TMP\_241 = 0 not(TMP\_241) = 1 TMP\_242 = 0 not(TMP\_242) = 1 TMP\_243 = 1 not(TMP\_243) = 0 TMP\_244 = 1 not(TMP\_244) = 0 TMP\_245 = 1 not(TMP\_245) = 0 TMP\_246 = 2 TMP\_247 = 1 not(TMP\_247) = 0 TMP\_248 = 0 not(TMP\_248) = 1 TMP\_249 = 1 not(TMP\_249) = 0 TMP\_250 = 1 not(TMP\_250) = 0 TMP\_251 = 1 not(TMP\_251) = 0 TMP\_252 = 1 not(TMP\_252) = 0 TMP\_253 = 5 TMP\_254 = 0 not(TMP\_254) = 1 TMP\_255 = 0 not(TMP\_255) = 1 TMP\_256 = 0 TMP\_257 = 1 not(TMP\_257) = 0 TMP\_258 = 1 not(TMP\_258) = 0 TMP\_259 = 2 TMP\_260 = 0 not(TMP\_260) = 1 TMP\_261 = 0 not(TMP\_261) = 1 TMP\_262 = 1 not(TMP\_262) = 0 TMP\_263 = 1 not(TMP\_263) = 0 TMP\_264 = 1 not(TMP\_264) = 0 TMP\_265 = 2 TMP\_266 = 1 not(TMP\_266) = 0 TMP\_267 = 0 not(TMP\_267) = 1 TMP\_268 = 1 not(TMP\_268) = 0 TMP\_269 = 1 not(TMP\_269) = 0 TMP\_270 = 1 not(TMP\_270) = 0 TMP\_271 = 0 not(TMP\_271) = 1 TMP\_272 = 4 TMP\_273 = 0 not(TMP\_273) = 1 TMP\_274 = 0 not(TMP\_274) = 1 TMP\_275 = 0 TMP\_276 = 1 not(TMP\_276) = 0 TMP\_277 = 1 not(TMP\_277) = 0 TMP\_278 = 2 TMP\_279 = 0 not(TMP\_279) = 1 TMP\_280 = 0 not(TMP\_280) = 1 TMP\_281 = 1 not(TMP\_281) = 0 TMP\_282 = 1 not(TMP\_282) = 0 TMP\_283 = 1 not(TMP\_283) = 0 TMP\_284 = 2 TMP\_285 = 1 not(TMP\_285) = 0 TMP\_286 = 1 not(TMP\_286) = 0 TMP\_287 = 1 not(TMP\_287) = 0 TMP\_288 = 1 not(TMP\_288) = 0 TMP\_289 = 1 not(TMP\_289) = 0 TMP\_290 = 0 not(TMP\_290) = 1 TMP\_291 = 5 TMP\_292 = 0 not(TMP\_292) = 1 TMP\_293 = 0 not(TMP\_293) = 1 TMP\_294 = 0 TMP\_295 = 1 not(TMP\_295) = 0 TMP\_296 = 1 not(TMP\_296) = 0 TMP\_297 = 2 TMP\_298 = 0 not(TMP\_298) = 1 TMP\_299 = 0 not(TMP\_299) = 1 TMP\_300 = 1 not(TMP\_300) = 0 TMP\_301 = 1 not(TMP\_301) = 0 TMP\_302 = 1 not(TMP\_302) = 0 TMP\_303 = 2 TMP\_304 = 0 not(TMP\_304) = 1 TMP\_305 = 1 not(TMP\_305) = 0 TMP\_306 = 1 not(TMP\_306) = 0 TMP\_307 = 1 not(TMP\_307) = 0 TMP\_308 = 1 not(TMP\_308) = 0 TMP\_309 = 1 not(TMP\_309) = 0 TMP\_310 = 5 TMP\_311 = 0 not(TMP\_311) = 1 TMP\_312 = 0 not(TMP\_312) = 1 TMP\_313 = 0 TMP\_314 = 1 not(TMP\_314) = 0 TMP\_315 = 1 not(TMP\_315) = 0 TMP\_316 = 2 TMP\_317 = 0 not(TMP\_317) = 1 TMP\_318 = 0 not(TMP\_318) = 1 TMP\_319 = 1 not(TMP\_319) = 0 TMP\_320 = 1 not(TMP\_320) = 0 TMP\_321 = 1 not(TMP\_321) = 0 TMP\_322 = 2 TMP\_323 = 0 not(TMP\_323) = 1 TMP\_324 = 1 not(TMP\_324) = 0 TMP\_325 = 1 not(TMP\_325) = 0 TMP\_326 = 1 not(TMP\_326) = 0 TMP\_327 = 1 not(TMP\_327) = 0 TMP\_328 = 0 not(TMP\_328) = 1 TMP\_329 = 4 TMP\_330 = 0 not(TMP\_330) = 1 TMP\_331 = 0 not(TMP\_331) = 1 TMP\_332 = 0 TMP\_333 = 1 not(TMP\_333) = 0 TMP\_334 = 1 not(TMP\_334) = 0 TMP\_335 = 2 TMP\_336 = 0 not(TMP\_336) = 1 TMP\_337 = 0 not(TMP\_337) = 1 TMP\_338 = 1 not(TMP\_338) = 0 TMP\_339 = 1 not(TMP\_339) = 0 TMP\_340 = 1 not(TMP\_340) = 0 TMP\_341 = 2 TMP\_342 = 1 not(TMP\_342) = 0 TMP\_343 = 1 not(TMP\_343) = 0 TMP\_344 = 1 not(TMP\_344) = 0 TMP\_345 = 1 not(TMP\_345) = 0 TMP\_346 = 1 not(TMP\_346) = 0 TMP\_347 = 0 not(TMP\_347) = 1 TMP\_348 = 5 TMP\_349 = 0 not(TMP\_349) = 1 TMP\_350 = 0 not(TMP\_350) = 1 TMP\_351 = 0 TMP\_352 = 1 not(TMP\_352) = 0 TMP\_353 = 1 not(TMP\_353) = 0 TMP\_354 = 2 TMP\_355 = 0 not(TMP\_355) = 1 TMP\_356 = 0 not(TMP\_356) = 1 TMP\_357 = 1 not(TMP\_357) = 0 TMP\_358 = 1 not(TMP\_358) = 0 TMP\_359 = 1 not(TMP\_359) = 0 TMP\_360 = 2 TMP\_361 = 1 not(TMP\_361) = 0 TMP\_362 = 0 not(TMP\_362) = 1 TMP\_363 = 1 not(TMP\_363) = 0 TMP\_364 = 1 not(TMP\_364) = 0 TMP\_365 = 1 not(TMP\_365) = 0 TMP\_366 = 0 not(TMP\_366) = 1 TMP\_367 = 4 TMP\_368 = 0 not(TMP\_368) = 1 TMP\_369 = 0 not(TMP\_369) = 1 TMP\_370 = 0 TMP\_371 = 1 not(TMP\_371) = 0 TMP\_372 = 1 not(TMP\_372) = 0 TMP\_373 = 2 TMP\_374 = 0 not(TMP\_374) = 1 TMP\_375 = 0 not(TMP\_375) = 1 TMP\_376 = 1 not(TMP\_376) = 0 TMP\_377 = 1 not(TMP\_377) = 0 TMP\_378 = 1 not(TMP\_378) = 0 TMP\_379 = 2 TMP\_380 = 1 not(TMP\_380) = 0 TMP\_381 = 0 not(TMP\_381) = 1 TMP\_382 = 1 not(TMP\_382) = 0 TMP\_383 = 1 not(TMP\_383) = 0 TMP\_384 = 1 not(TMP\_384) = 0 TMP\_385 = 1 not(TMP\_385) = 0 TMP\_386 = 5 TMP\_387 = 0 not(TMP\_387) = 1 TMP\_388 = 0 not(TMP\_388) = 1 TMP\_389 = 0 TMP\_390 = 1 not(TMP\_390) = 0 TMP\_391 = 1 not(TMP\_391) = 0 TMP\_392 = 2 TMP\_393 = 0 not(TMP\_393) = 1 TMP\_394 = 0 not(TMP\_394) = 1 TMP\_395 = 1 not(TMP\_395) = 0 TMP\_396 = 1 not(TMP\_396) = 0 TMP\_397 = 1 not(TMP\_397) = 0 TMP\_398 = 2 TMP\_399 = 1 not(TMP\_399) = 0 TMP\_400 = 0 not(TMP\_400) = 1 TMP\_401 = 1 not(TMP\_401) = 0 TMP\_402 = 1 not(TMP\_402) = 0 TMP\_403 = 1 not(TMP\_403) = 0 TMP\_404 = 1 not(TMP\_404) = 0 TMP\_405 = 5 TMP\_406 = 0 not(TMP\_406) = 1 TMP\_407 = 0 not(TMP\_407) = 1 TMP\_408 = 0 TMP\_409 = 1 not(TMP\_409) = 0 TMP\_410 = 1 not(TMP\_410) = 0 TMP\_411 = 2 TMP\_412 = 0 not(TMP\_412) = 1 TMP\_413 = 0 not(TMP\_413) = 1 TMP\_414 = 1 not(TMP\_414) = 0 TMP\_415 = 1 not(TMP\_415) = 0 TMP\_416 = 1 not(TMP\_416) = 0 TMP\_417 = 2 TMP\_418 = 1 not(TMP\_418) = 0 TMP\_419 = 0 not(TMP\_419) = 1 TMP\_420 = 1 not(TMP\_420) = 0 TMP\_421 = 1 not(TMP\_421) = 0 TMP\_422 = 1 not(TMP\_422) = 0 TMP\_423 = 1 not(TMP\_423) = 0 TMP\_424 = 5 TMP\_425 = 0 not(TMP\_425) = 1 TMP\_426 = 0 not(TMP\_426) = 1 TMP\_427 = 0 TMP\_428 = 1 not(TMP\_428) = 0 TMP\_429 = 1 not(TMP\_429) = 0 TMP\_430 = 2 TMP\_431 = 0 not(TMP\_431) = 1 TMP\_432 = 0 not(TMP\_432) = 1 TMP\_433 = 1 not(TMP\_433) = 0 TMP\_434 = 1 not(TMP\_434) = 0 TMP\_435 = 1 not(TMP\_435) = 0 TMP\_436 = 2 TMP\_437 = 1 not(TMP\_437) = 0 TMP\_438 = 0 not(TMP\_438) = 1 TMP\_439 = 1 not(TMP\_439) = 0 TMP\_440 = 1 not(TMP\_440) = 0 TMP\_441 = 1 not(TMP\_441) = 0 TMP\_442 = 0 not(TMP\_442) = 1 TMP\_443 = 4 TMP\_444 = 0 not(TMP\_444) = 1 TMP\_445 = 0 not(TMP\_445) = 1 TMP\_446 = 0 TMP\_447 = 1 not(TMP\_447) = 0 TMP\_448 = 1 not(TMP\_448) = 0 TMP\_449 = 2 TMP\_450 = 0 not(TMP\_450) = 1 TMP\_451 = 0 not(TMP\_451) = 1 TMP\_452 = 1 not(TMP\_452) = 0 TMP\_453 = 1 not(TMP\_453) = 0 TMP\_454 = 1 not(TMP\_454) = 0 TMP\_455 = 2 TMP\_456 = 1 not(TMP\_456) = 0 TMP\_457 = 0 not(TMP\_457) = 1 TMP\_458 = 1 not(TMP\_458) = 0 TMP\_459 = 1 not(TMP\_459) = 0 TMP\_460 = 1 not(TMP\_460) = 0 TMP\_461 = 0 not(TMP\_461) = 1 TMP\_462 = 4 TMP\_463 = 0 not(TMP\_463) = 1 TMP\_464 = 0 not(TMP\_464) = 1 TMP\_465 = 0 TMP\_466 = 1 not(TMP\_466) = 0 TMP\_467 = 1 not(TMP\_467) = 0 TMP\_468 = 2 TMP\_469 = 0 not(TMP\_469) = 1 TMP\_470 = 0 not(TMP\_470) = 1 TMP\_471 = 1 not(TMP\_471) = 0 TMP\_472 = 1 not(TMP\_472) = 0 TMP\_473 = 1 not(TMP\_473) = 0 TMP\_474 = 2 TMP\_475 = 1 not(TMP\_475) = 0 TMP\_476 = 0 not(TMP\_476) = 1 TMP\_477 = 1 not(TMP\_477) = 0 TMP\_478 = 1 not(TMP\_478) = 0 TMP\_479 = 1 not(TMP\_479) = 0 TMP\_480 = 1 not(TMP\_480) = 0 TMP\_481 = 5 TMP\_482 = 0 not(TMP\_482) = 1 TMP\_483 = 0 not(TMP\_483) = 1 TMP\_484 = 0 TMP\_485 = 1 not(TMP\_485) = 0 TMP\_486 = 1 not(TMP\_486) = 0 TMP\_487 = 2 TMP\_488 = 0 not(TMP\_488) = 1 TMP\_489 = 0 not(TMP\_489) = 1 TMP\_490 = 1 not(TMP\_490) = 0 TMP\_491 = 1 not(TMP\_491) = 0 TMP\_492 = 1 not(TMP\_492) = 0 TMP\_493 = 2 TMP\_494 = 1 not(TMP\_494) = 0 TMP\_495 = 1 not(TMP\_495) = 0 TMP\_496 = 1 not(TMP\_496) = 0 TMP\_497 = 1 not(TMP\_497) = 0 TMP\_498 = 1 not(TMP\_498) = 0 TMP\_499 = 0 not(TMP\_499) = 1 TMP\_500 = 5 TMP\_501 = 0 not(TMP\_501) = 1 TMP\_502 = 0 not(TMP\_502) = 1 TMP\_503 = 0 TMP\_504 = 1 not(TMP\_504) = 0 TMP\_505 = 1 not(TMP\_505) = 0 TMP\_506 = 2 TMP\_507 = 0 not(TMP\_507) = 1 TMP\_508 = 0 not(TMP\_508) = 1 TMP\_509 = 1 not(TMP\_509) = 0 TMP\_510 = 1 not(TMP\_510) = 0 TMP\_511 = 1 not(TMP\_511) = 0 TMP\_512 = 2 TMP\_513 = 0 not(TMP\_513) = 1 TMP\_514 = 1 not(TMP\_514) = 0 TMP\_515 = 1 not(TMP\_515) = 0 TMP\_516 = 1 not(TMP\_516) = 0 TMP\_517 = 1 not(TMP\_517) = 0 TMP\_518 = 1 not(TMP\_518) = 0 TMP\_519 = 5 TMP\_520 = 0 not(TMP\_520) = 1 TMP\_521 = 0 not(TMP\_521) = 1 TMP\_522 = 0 TMP\_523 = 1 not(TMP\_523) = 0 TMP\_524 = 1 not(TMP\_524) = 0 TMP\_525 = 2 TMP\_526 = 0 not(TMP\_526) = 1 TMP\_527 = 0 not(TMP\_527) = 1 TMP\_528 = 1 not(TMP\_528) = 0 TMP\_529 = 1 not(TMP\_529) = 0 TMP\_530 = 1 not(TMP\_530) = 0 TMP\_531 = 2 TMP\_532 = 1 not(TMP\_532) = 0 TMP\_533 = 0 not(TMP\_533) = 1 TMP\_534 = 1 not(TMP\_534) = 0 TMP\_535 = 1 not(TMP\_535) = 0 TMP\_536 = 1 not(TMP\_536) = 0 TMP\_537 = 1 not(TMP\_537) = 0 TMP\_538 = 5 TMP\_539 = 0 not(TMP\_539) = 1 TMP\_540 = 0 not(TMP\_540) = 1 TMP\_541 = 0 TMP\_542 = 1 not(TMP\_542) = 0 TMP\_543 = 1 not(TMP\_543) = 0 TMP\_544 = 2 TMP\_545 = 0 not(TMP\_545) = 1 TMP\_546 = 0 not(TMP\_546) = 1 TMP\_547 = 1 not(TMP\_547) = 0 TMP\_548 = 1 not(TMP\_548) = 0 TMP\_549 = 1 not(TMP\_549) = 0 TMP\_550 = 2 TMP\_551 = 1 not(TMP\_551) = 0 TMP\_552 = 0 not(TMP\_552) = 1 TMP\_553 = 1 not(TMP\_553) = 0 TMP\_554 = 1 not(TMP\_554) = 0 TMP\_555 = 0 not(TMP\_555) = 1 TMP\_556 = 1 not(TMP\_556) = 0 TMP\_557 = 4 TMP\_558 = 0 not(TMP\_558) = 1 TMP\_559 = 0 not(TMP\_559) = 1 TMP\_560 = 0 TMP\_561 = 1 not(TMP\_561) = 0 TMP\_562 = 1 not(TMP\_562) = 0 TMP\_563 = 2 TMP\_564 = 0 not(TMP\_564) = 1 TMP\_565 = 0 not(TMP\_565) = 1 TMP\_566 = 1 not(TMP\_566) = 0 TMP\_567 = 1 not(TMP\_567) = 0 TMP\_568 = 1 not(TMP\_568) = 0 TMP\_569 = 2 TMP\_570 = 1 not(TMP\_570) = 0 TMP\_571 = 0 not(TMP\_571) = 1 TMP\_572 = 1 not(TMP\_572) = 0 TMP\_573 = 1 not(TMP\_573) = 0 TMP\_574 = 0 not(TMP\_574) = 1 TMP\_575 = 1 not(TMP\_575) = 0 TMP\_576 = 4 TMP\_577 = 0 not(TMP\_577) = 1 TMP\_578 = 0 not(TMP\_578) = 1 TMP\_579 = 0 TMP\_580 = 1 not(TMP\_580) = 0 TMP\_581 = 1 not(TMP\_581) = 0 TMP\_582 = 2 TMP\_583 = 0 not(TMP\_583) = 1 TMP\_584 = 0 not(TMP\_584) = 1 TMP\_585 = 1 not(TMP\_585) = 0 TMP\_586 = 1 not(TMP\_586) = 0 TMP\_587 = 1 not(TMP\_587) = 0 TMP\_588 = 2 TMP\_589 = 1 not(TMP\_589) = 0 TMP\_590 = 0 not(TMP\_590) = 1 TMP\_591 = 1 not(TMP\_591) = 0 TMP\_592 = 1 not(TMP\_592) = 0 TMP\_593 = 0 not(TMP\_593) = 1 TMP\_594 = 1 not(TMP\_594) = 0 TMP\_595 = 4 TMP\_596 = 0 not(TMP\_596) = 1 TMP\_597 = 0 not(TMP\_597) = 1 TMP\_598 = 0 TMP\_599 = 1 not(TMP\_599) = 0 TMP\_600 = 1 not(TMP\_600) = 0 TMP\_601 = 2 TMP\_602 = 0 not(TMP\_602) = 1 TMP\_603 = 0 not(TMP\_603) = 1 TMP\_604 = 1 not(TMP\_604) = 0 TMP\_605 = 1 not(TMP\_605) = 0 TMP\_606 = 1 not(TMP\_606) = 0 TMP\_607 = 2 TMP\_608 = 1 not(TMP\_608) = 0 TMP\_609 = 0 not(TMP\_609) = 1 TMP\_610 = 1 not(TMP\_610) = 0 TMP\_611 = 1 not(TMP\_611) = 0 TMP\_612 = 1 not(TMP\_612) = 0 TMP\_613 = 1 not(TMP\_613) = 0 TMP\_614 = 5 TMP\_615 = 0 not(TMP\_615) = 1 TMP\_616 = 0 not(TMP\_616) = 1 TMP\_617 = 0 TMP\_618 = 1 not(TMP\_618) = 0 TMP\_619 = 1 not(TMP\_619) = 0 TMP\_620 = 2 TMP\_621 = 0 not(TMP\_621) = 1 TMP\_622 = 0 not(TMP\_622) = 1 TMP\_623 = 1 not(TMP\_623) = 0 TMP\_624 = 1 not(TMP\_624) = 0 TMP\_625 = 1 not(TMP\_625) = 0 TMP\_626 = 2 TMP\_627 = 1 not(TMP\_627) = 0 TMP\_628 = 0 not(TMP\_628) = 1 TMP\_629 = 1 not(TMP\_629) = 0 TMP\_630 = 1 not(TMP\_630) = 0 TMP\_631 = 1 not(TMP\_631) = 0 TMP\_632 = 1 not(TMP\_632) = 0 TMP\_633 = 5 TMP\_634 = 0 not(TMP\_634) = 1 TMP\_635 = 0 not(TMP\_635) = 1 TMP\_636 = 0 TMP\_637 = 1 not(TMP\_637) = 0 TMP\_638 = 1 not(TMP\_638) = 0 TMP\_639 = 2 TMP\_640 = 0 not(TMP\_640) = 1 TMP\_641 = 0 not(TMP\_641) = 1 TMP\_642 = 1 not(TMP\_642) = 0 TMP\_643 = 1 not(TMP\_643) = 0 TMP\_644 = 1 not(TMP\_644) = 0 TMP\_645 = 2 TMP\_646 = 1 not(TMP\_646) = 0 TMP\_647 = 0 not(TMP\_647) = 1 TMP\_648 = 1 not(TMP\_648) = 0 TMP\_649 = 1 not(TMP\_649) = 0 TMP\_650 = 0 not(TMP\_650) = 1 TMP\_651 = 1 not(TMP\_651) = 0 TMP\_652 = 4 TMP\_653 = 0 not(TMP\_653) = 1 TMP\_654 = 0 not(TMP\_654) = 1 TMP\_655 = 0 TMP\_656 = 1 not(TMP\_656) = 0 TMP\_657 = 1 not(TMP\_657) = 0 TMP\_658 = 2 TMP\_659 = 0 not(TMP\_659) = 1 TMP\_660 = 0 not(TMP\_660) = 1 TMP\_661 = 1 not(TMP\_661) = 0 TMP\_662 = 1 not(TMP\_662) = 0 TMP\_663 = 1 not(TMP\_663) = 0 TMP\_664 = 2 TMP\_665 = 1 not(TMP\_665) = 0 TMP\_666 = 1 not(TMP\_666) = 0 TMP\_667 = 1 not(TMP\_667) = 0 TMP\_668 = 1 not(TMP\_668) = 0 TMP\_669 = 0 not(TMP\_669) = 1 TMP\_670 = 1 not(TMP\_670) = 0 TMP\_671 = 5 TMP\_672 = 0 not(TMP\_672) = 1 TMP\_673 = 0 not(TMP\_673) = 1 TMP\_674 = 0 TMP\_675 = 1 not(TMP\_675) = 0 TMP\_676 = 1 not(TMP\_676) = 0 TMP\_677 = 2 TMP\_678 = 0 not(TMP\_678) = 1 TMP\_679 = 0 not(TMP\_679) = 1 TMP\_680 = 1 not(TMP\_680) = 0 TMP\_681 = 1 not(TMP\_681) = 0 TMP\_682 = 1 not(TMP\_682) = 0 TMP\_683 = 2 Area\_0 = 60 Distance\_0\_Rule\_0 = 20 Distance\_1\_Rule\_0 = 3 Distance\_2\_Rule\_0 = 1 Area\_1 = 174 Distance\_0\_Rule\_1 = 58 Distance\_1\_Rule\_1 = 3 Distance\_2\_Rule\_1 = 1 Area\_2 = 116 Distance\_0\_Rule\_2 = 58 Distance\_1\_Rule\_2 = 2 Distance\_2\_Rule\_2 = 1 Area\_3 = 58 Distance\_0\_Rule\_3 = 58 Distance\_1\_Rule\_3 = 1 Distance\_2\_Rule\_3 = 1 Area\_4 = 120 Distance\_0\_Rule\_4 = 40 Distance\_1\_Rule\_4 = 3 Distance\_2\_Rule\_4 = 1 Area\_5 = 120 Distance\_0\_Rule\_5 = 40 Distance\_1\_Rule\_5 = 3 Distance\_2\_Rule\_5 = 1 Area\_6 = 3 -(Rule\_6\_LB) = -79 Distance\_0\_Rule\_6 = 1 -(Rule\_6\_LB) = 0 Distance\_1\_Rule\_6 = 3 -(Rule\_6\_LB) = -1 Distance\_2\_Rule\_6 = 1 Area\_7 = 3 -(Rule\_7\_LB) = -79 Distance\_0\_Rule\_7 = 1 -(Rule\_7\_LB) = 0 Distance\_1\_Rule\_7 = 3 -(Rule\_7\_LB) = 0 Distance\_2\_Rule\_7 = 1 Area\_8 = 63 -(Rule\_8\_LB) = 0 Distance\_0\_Rule\_8 = 21 -(Rule\_8\_LB) = 0 Distance\_1\_Rule\_8 = 3 -(Rule\_8\_LB) = 0 Distance\_2\_Rule\_8 = 1 Area\_9 = 3 -(Rule\_9\_LB) = -20 Distance\_0\_Rule\_9 = 1 -(Rule\_9\_LB) = 0 Distance\_1\_Rule\_9 = 3 -(Rule\_9\_LB) = -1 Distance\_2\_Rule\_9 = 1 TMP\_684 = 720 .

- Solution #15 found. 15 Solutions, Resolution 1.486s, 734 Nodes (494.0 n/s), 1352 Backtracks, 670 Fails, 0 Restarts

Rule\_6\_LB = 79 Rule\_6\_UB = 80 Rule\_6\_LB = 0 Rule\_6\_UB = 3 Rule\_6\_LB = 1 Rule\_6\_UB = 2 Rule\_7\_LB = 79 Rule\_7\_UB = 80 Rule\_7\_LB = 0 Rule\_7\_UB = 3 Rule\_7\_LB = 0 Rule\_7\_UB = 1 Rule\_8\_LB = 0 Rule\_8\_UB = 21 Rule\_8\_LB = 0 Rule\_8\_UB = 3 Rule\_8\_LB = 0 Rule\_8\_UB = 1 Rule\_9\_LB = 20 Rule\_9\_UB = 21 Rule\_9\_LB = 0 Rule\_9\_UB = 3 Rule\_9\_LB = 1 Rule\_9\_UB = 2 Overlaps\_0\_0 = 0 Overlaps\_0\_1 = 0 Overlaps\_0\_2 = 0 Overlaps\_0\_3 = 0 Overlaps\_0\_4 = 0 Overlaps\_0\_5 = 0 Overlaps\_0\_6 = 0 Overlaps\_0\_7 = 0 Overlaps\_0\_8 = 0 Overlaps\_0\_9 = 0 Overlaps\_1\_0 = 0 Overlaps\_1\_1 = 0 Overlaps\_1\_2 = 1 Overlaps\_1\_3 = 0 Overlaps\_1\_4 = 1 Overlaps\_1\_5 = 0 Overlaps\_1\_6 = 0 Overlaps\_1\_7 = 0 Overlaps\_1\_8 = 0 Overlaps\_1\_9 = 0 Overlaps\_2\_0 = 1 Overlaps\_2\_1 = 0 Overlaps\_2\_2 = 0 Overlaps\_2\_3 = 0 Overlaps\_2\_4 = 0 Overlaps\_2\_5 = 0 Overlaps\_2\_6 = 0 Overlaps\_2\_7 = 0 Overlaps\_2\_8 = 0 Overlaps\_2\_9 = 0 Overlaps\_3\_0 = 0 Overlaps\_3\_1 = 0 Overlaps\_3\_2 = 0 Overlaps\_3\_3 = 0 Overlaps\_3\_4 = 0 Overlaps\_3\_5 = 0 Overlaps\_3\_6 = 0 Overlaps\_3\_7 = 0 Overlaps\_3\_8 = 0 Overlaps\_3\_9 = 0 Overlaps\_4\_0 = 0 Overlaps\_4\_1 = 0 Overlaps\_4\_2 = 0 Overlaps\_4\_3 = 0 Overlaps\_4\_4 = 0 Overlaps\_4\_5 = 0 Overlaps\_4\_6 = 0 Overlaps\_4\_7 = 0 Overlaps\_4\_8 = 0 Overlaps\_4\_9 = 0 Overlaps\_5\_0 = 0 Overlaps\_5\_1 = 0 Overlaps\_5\_2 = 0 Overlaps\_5\_3 = 0 Overlaps\_5\_4 = 0 Overlaps\_5\_5 = 0 Overlaps\_5\_6 = 0 Overlaps\_5\_7 = 0 Overlaps\_5\_8 = 0 Overlaps\_5\_9 = 0 Overlaps\_6\_0 = 0 Overlaps\_6\_1 = 0 Overlaps\_6\_2 = 0 Overlaps\_6\_3 = 0 Overlaps\_6\_4 = 0 Overlaps\_6\_5 = 0 Overlaps\_6\_6 = 0 Overlaps\_6\_7 = 0 Overlaps\_6\_8 = 0 Overlaps\_6\_9 = 0 Overlaps\_7\_0 = 0 Overlaps\_7\_1 = 0 Overlaps\_7\_2 = 0 Overlaps\_7\_3 = 0 Overlaps\_7\_4 = 0 Overlaps\_7\_5 = 0 Overlaps\_7\_6 = 0 Overlaps\_7\_7 = 0 Overlaps\_7\_8 = 0 Overlaps\_7\_9 = 0 Overlaps\_8\_0 = 0 Overlaps\_8\_1 = 0 Overlaps\_8\_2 = 0 Overlaps\_8\_3 = 0 Overlaps\_8\_4 = 0 Overlaps\_8\_5 = 0 Overlaps\_8\_6 = 0 Overlaps\_8\_7 = 0 Overlaps\_8\_8 = 0 Overlaps\_8\_9 = 0 Overlaps\_9\_0 = 0 Overlaps\_9\_1 = 0 Overlaps\_9\_2 = 0 Overlaps\_9\_3 = 0 Overlaps\_9\_4 = 0 Overlaps\_9\_5 = 0 Overlaps\_9\_6 = 0 Overlaps\_9\_7 = 0 Overlaps\_9\_8 = 0 Overlaps\_9\_9 = 0 TMP\_0 = 0 not(TMP\_0) = 1 TMP\_1 = 1 not(TMP\_1) = 0 TMP\_2 = 1 not(TMP\_2) = 0 TMP\_3 = 1 not(TMP\_3) = 0 TMP\_4 = 1 not(TMP\_4) = 0 TMP\_5 = 1 not(TMP\_5) = 0 TMP\_6 = 5 TMP\_7 = 0 not(TMP\_7) = 1 TMP\_8 = 0 not(TMP\_8) = 1 TMP\_9 = 0 TMP\_10 = 1 not(TMP\_10) = 0 TMP\_11 = 1 not(TMP\_11) = 0 TMP\_12 = 2 TMP\_13 = 0 not(TMP\_13) = 1 TMP\_14 = 0 not(TMP\_14) = 1 TMP\_15 = 1 not(TMP\_15) = 0 TMP\_16 = 1 not(TMP\_16) = 0 TMP\_17 = 1 not(TMP\_17) = 0 TMP\_18 = 2 TMP\_19 = 0 not(TMP\_19) = 1 TMP\_20 = 1 not(TMP\_20) = 0 TMP\_21 = 1 not(TMP\_21) = 0 TMP\_22 = 1 not(TMP\_22) = 0 TMP\_23 = 1 not(TMP\_23) = 0 TMP\_24 = 1 not(TMP\_24) = 0 TMP\_25 = 5 TMP\_26 = 0 not(TMP\_26) = 1 TMP\_27 = 0 not(TMP\_27) = 1 TMP\_28 = 0 TMP\_29 = 1 not(TMP\_29) = 0 TMP\_30 = 1 not(TMP\_30) = 0 TMP\_31 = 2 TMP\_32 = 0 not(TMP\_32) = 1 TMP\_33 = 0 not(TMP\_33) = 1 TMP\_34 = 1 not(TMP\_34) = 0 TMP\_35 = 1 not(TMP\_35) = 0 TMP\_36 = 1 not(TMP\_36) = 0 TMP\_37 = 2 TMP\_38 = 0 not(TMP\_38) = 1 TMP\_39 = 1 not(TMP\_39) = 0 TMP\_40 = 1 not(TMP\_40) = 0 TMP\_41 = 1 not(TMP\_41) = 0 TMP\_42 = 0 not(TMP\_42) = 1 TMP\_43 = 1 not(TMP\_43) = 0 TMP\_44 = 4 TMP\_45 = 0 not(TMP\_45) = 1 TMP\_46 = 0 not(TMP\_46) = 1 TMP\_47 = 0 TMP\_48 = 1 not(TMP\_48) = 0 TMP\_49 = 1 not(TMP\_49) = 0 TMP\_50 = 2 TMP\_51 = 0 not(TMP\_51) = 1 TMP\_52 = 0 not(TMP\_52) = 1 TMP\_53 = 1 not(TMP\_53) = 0 TMP\_54 = 1 not(TMP\_54) = 0 TMP\_55 = 1 not(TMP\_55) = 0 TMP\_56 = 2 TMP\_57 = 0 not(TMP\_57) = 1 TMP\_58 = 1 not(TMP\_58) = 0 TMP\_59 = 1 not(TMP\_59) = 0 TMP\_60 = 1 not(TMP\_60) = 0 TMP\_61 = 0 not(TMP\_61) = 1 TMP\_62 = 1 not(TMP\_62) = 0 TMP\_63 = 4 TMP\_64 = 0 not(TMP\_64) = 1 TMP\_65 = 0 not(TMP\_65) = 1 TMP\_66 = 0 TMP\_67 = 1 not(TMP\_67) = 0 TMP\_68 = 1 not(TMP\_68) = 0 TMP\_69 = 2 TMP\_70 = 0 not(TMP\_70) = 1 TMP\_71 = 0 not(TMP\_71) = 1 TMP\_72 = 1 not(TMP\_72) = 0 TMP\_73 = 1 not(TMP\_73) = 0 TMP\_74 = 1 not(TMP\_74) = 0 TMP\_75 = 2 TMP\_76 = 1 not(TMP\_76) = 0 TMP\_77 = 0 not(TMP\_77) = 1 TMP\_78 = 1 not(TMP\_78) = 0 TMP\_79 = 1 not(TMP\_79) = 0 TMP\_80 = 0 not(TMP\_80) = 1 TMP\_81 = 1 not(TMP\_81) = 0 TMP\_82 = 4 TMP\_83 = 0 not(TMP\_83) = 1 TMP\_84 = 0 not(TMP\_84) = 1 TMP\_85 = 0 TMP\_86 = 1 not(TMP\_86) = 0 TMP\_87 = 1 not(TMP\_87) = 0 TMP\_88 = 2 TMP\_89 = 0 not(TMP\_89) = 1 TMP\_90 = 0 not(TMP\_90) = 1 TMP\_91 = 1 not(TMP\_91) = 0 TMP\_92 = 1 not(TMP\_92) = 0 TMP\_93 = 1 not(TMP\_93) = 0 TMP\_94 = 2 TMP\_95 = 1 not(TMP\_95) = 0 TMP\_96 = 0 not(TMP\_96) = 1 TMP\_97 = 1 not(TMP\_97) = 0 TMP\_98 = 1 not(TMP\_98) = 0 TMP\_99 = 1 not(TMP\_99) = 0 TMP\_100 = 1 not(TMP\_100) = 0 TMP\_101 = 5 TMP\_102 = 0 not(TMP\_102) = 1 TMP\_103 = 0 not(TMP\_103) = 1 TMP\_104 = 0 TMP\_105 = 1 not(TMP\_105) = 0 TMP\_106 = 1 not(TMP\_106) = 0 TMP\_107 = 2 TMP\_108 = 0 not(TMP\_108) = 1 TMP\_109 = 0 not(TMP\_109) = 1 TMP\_110 = 1 not(TMP\_110) = 0 TMP\_111 = 1 not(TMP\_111) = 0 TMP\_112 = 1 not(TMP\_112) = 0 TMP\_113 = 2 TMP\_114 = 1 not(TMP\_114) = 0 TMP\_115 = 1 not(TMP\_115) = 0 TMP\_116 = 1 not(TMP\_116) = 0 TMP\_117 = 1 not(TMP\_117) = 0 TMP\_118 = 0 not(TMP\_118) = 1 TMP\_119 = 1 not(TMP\_119) = 0 TMP\_120 = 5 TMP\_121 = 0 not(TMP\_121) = 1 TMP\_122 = 0 not(TMP\_122) = 1 TMP\_123 = 0 TMP\_124 = 1 not(TMP\_124) = 0 TMP\_125 = 1 not(TMP\_125) = 0 TMP\_126 = 2 TMP\_127 = 0 not(TMP\_127) = 1 TMP\_128 = 0 not(TMP\_128) = 1 TMP\_129 = 1 not(TMP\_129) = 0 TMP\_130 = 1 not(TMP\_130) = 0 TMP\_131 = 1 not(TMP\_131) = 0 TMP\_132 = 2 TMP\_133 = 0 not(TMP\_133) = 1 TMP\_134 = 1 not(TMP\_134) = 0 TMP\_135 = 1 not(TMP\_135) = 0 TMP\_136 = 1 not(TMP\_136) = 0 TMP\_137 = 0 not(TMP\_137) = 1 TMP\_138 = 1 not(TMP\_138) = 0 TMP\_139 = 4 TMP\_140 = 0 not(TMP\_140) = 1 TMP\_141 = 0 not(TMP\_141) = 1 TMP\_142 = 0 TMP\_143 = 1 not(TMP\_143) = 0 TMP\_144 = 1 not(TMP\_144) = 0 TMP\_145 = 2 TMP\_146 = 0 not(TMP\_146) = 1 TMP\_147 = 0 not(TMP\_147) = 1 TMP\_148 = 1 not(TMP\_148) = 0 TMP\_149 = 1 not(TMP\_149) = 0 TMP\_150 = 1 not(TMP\_150) = 0 TMP\_151 = 2 TMP\_152 = 0 not(TMP\_152) = 1 TMP\_153 = 1 not(TMP\_153) = 0 TMP\_154 = 1 not(TMP\_154) = 0 TMP\_155 = 1 not(TMP\_155) = 0 TMP\_156 = 1 not(TMP\_156) = 0 TMP\_157 = 1 not(TMP\_157) = 0 TMP\_158 = 5 TMP\_159 = 0 not(TMP\_159) = 1 TMP\_160 = 0 not(TMP\_160) = 1 TMP\_161 = 0 TMP\_162 = 1 not(TMP\_162) = 0 TMP\_163 = 1 not(TMP\_163) = 0 TMP\_164 = 2 TMP\_165 = 0 not(TMP\_165) = 1 TMP\_166 = 0 not(TMP\_166) = 1 TMP\_167 = 1 not(TMP\_167) = 0 TMP\_168 = 1 not(TMP\_168) = 0 TMP\_169 = 1 not(TMP\_169) = 0 TMP\_170 = 2 TMP\_171 = 0 not(TMP\_171) = 1 TMP\_172 = 1 not(TMP\_172) = 0 TMP\_173 = 1 not(TMP\_173) = 0 TMP\_174 = 1 not(TMP\_174) = 0 TMP\_175 = 1 not(TMP\_175) = 0 TMP\_176 = 0 not(TMP\_176) = 1 TMP\_177 = 4 TMP\_178 = 0 not(TMP\_178) = 1 TMP\_179 = 0 not(TMP\_179) = 1 TMP\_180 = 0 TMP\_181 = 1 not(TMP\_181) = 0 TMP\_182 = 1 not(TMP\_182) = 0 TMP\_183 = 2 TMP\_184 = 0 not(TMP\_184) = 1 TMP\_185 = 0 not(TMP\_185) = 1 TMP\_186 = 1 not(TMP\_186) = 0 TMP\_187 = 1 not(TMP\_187) = 0 TMP\_188 = 1 not(TMP\_188) = 0 TMP\_189 = 2 TMP\_190 = 0 not(TMP\_190) = 1 TMP\_191 = 1 not(TMP\_191) = 0 TMP\_192 = 1 not(TMP\_192) = 0 TMP\_193 = 1 not(TMP\_193) = 0 TMP\_194 = 1 not(TMP\_194) = 0 TMP\_195 = 0 not(TMP\_195) = 1 TMP\_196 = 4 TMP\_197 = 0 not(TMP\_197) = 1 TMP\_198 = 0 not(TMP\_198) = 1 TMP\_199 = 0 TMP\_200 = 1 not(TMP\_200) = 0 TMP\_201 = 1 not(TMP\_201) = 0 TMP\_202 = 2 TMP\_203 = 0 not(TMP\_203) = 1 TMP\_204 = 0 not(TMP\_204) = 1 TMP\_205 = 1 not(TMP\_205) = 0 TMP\_206 = 1 not(TMP\_206) = 0 TMP\_207 = 1 not(TMP\_207) = 0 TMP\_208 = 2 TMP\_209 = 0 not(TMP\_209) = 1 TMP\_210 = 1 not(TMP\_210) = 0 TMP\_211 = 1 not(TMP\_211) = 0 TMP\_212 = 1 not(TMP\_212) = 0 TMP\_213 = 1 not(TMP\_213) = 0 TMP\_214 = 1 not(TMP\_214) = 0 TMP\_215 = 5 TMP\_216 = 0 not(TMP\_216) = 1 TMP\_217 = 0 not(TMP\_217) = 1 TMP\_218 = 0 TMP\_219 = 1 not(TMP\_219) = 0 TMP\_220 = 1 not(TMP\_220) = 0 TMP\_221 = 2 TMP\_222 = 0 not(TMP\_222) = 1 TMP\_223 = 0 not(TMP\_223) = 1 TMP\_224 = 1 not(TMP\_224) = 0 TMP\_225 = 1 not(TMP\_225) = 0 TMP\_226 = 1 not(TMP\_226) = 0 TMP\_227 = 2 TMP\_228 = 0 not(TMP\_228) = 1 TMP\_229 = 1 not(TMP\_229) = 0 TMP\_230 = 1 not(TMP\_230) = 0 TMP\_231 = 1 not(TMP\_231) = 0 TMP\_232 = 1 not(TMP\_232) = 0 TMP\_233 = 1 not(TMP\_233) = 0 TMP\_234 = 5 TMP\_235 = 0 not(TMP\_235) = 1 TMP\_236 = 0 not(TMP\_236) = 1 TMP\_237 = 0 TMP\_238 = 1 not(TMP\_238) = 0 TMP\_239 = 1 not(TMP\_239) = 0 TMP\_240 = 2 TMP\_241 = 0 not(TMP\_241) = 1 TMP\_242 = 0 not(TMP\_242) = 1 TMP\_243 = 1 not(TMP\_243) = 0 TMP\_244 = 1 not(TMP\_244) = 0 TMP\_245 = 1 not(TMP\_245) = 0 TMP\_246 = 2 TMP\_247 = 1 not(TMP\_247) = 0 TMP\_248 = 0 not(TMP\_248) = 1 TMP\_249 = 1 not(TMP\_249) = 0 TMP\_250 = 1 not(TMP\_250) = 0 TMP\_251 = 1 not(TMP\_251) = 0 TMP\_252 = 1 not(TMP\_252) = 0 TMP\_253 = 5 TMP\_254 = 0 not(TMP\_254) = 1 TMP\_255 = 0 not(TMP\_255) = 1 TMP\_256 = 0 TMP\_257 = 1 not(TMP\_257) = 0 TMP\_258 = 1 not(TMP\_258) = 0 TMP\_259 = 2 TMP\_260 = 0 not(TMP\_260) = 1 TMP\_261 = 0 not(TMP\_261) = 1 TMP\_262 = 1 not(TMP\_262) = 0 TMP\_263 = 1 not(TMP\_263) = 0 TMP\_264 = 1 not(TMP\_264) = 0 TMP\_265 = 2 TMP\_266 = 1 not(TMP\_266) = 0 TMP\_267 = 0 not(TMP\_267) = 1 TMP\_268 = 1 not(TMP\_268) = 0 TMP\_269 = 1 not(TMP\_269) = 0 TMP\_270 = 1 not(TMP\_270) = 0 TMP\_271 = 0 not(TMP\_271) = 1 TMP\_272 = 4 TMP\_273 = 0 not(TMP\_273) = 1 TMP\_274 = 0 not(TMP\_274) = 1 TMP\_275 = 0 TMP\_276 = 1 not(TMP\_276) = 0 TMP\_277 = 1 not(TMP\_277) = 0 TMP\_278 = 2 TMP\_279 = 0 not(TMP\_279) = 1 TMP\_280 = 0 not(TMP\_280) = 1 TMP\_281 = 1 not(TMP\_281) = 0 TMP\_282 = 1 not(TMP\_282) = 0 TMP\_283 = 1 not(TMP\_283) = 0 TMP\_284 = 2 TMP\_285 = 1 not(TMP\_285) = 0 TMP\_286 = 1 not(TMP\_286) = 0 TMP\_287 = 1 not(TMP\_287) = 0 TMP\_288 = 1 not(TMP\_288) = 0 TMP\_289 = 1 not(TMP\_289) = 0 TMP\_290 = 0 not(TMP\_290) = 1 TMP\_291 = 5 TMP\_292 = 0 not(TMP\_292) = 1 TMP\_293 = 0 not(TMP\_293) = 1 TMP\_294 = 0 TMP\_295 = 1 not(TMP\_295) = 0 TMP\_296 = 1 not(TMP\_296) = 0 TMP\_297 = 2 TMP\_298 = 0 not(TMP\_298) = 1 TMP\_299 = 0 not(TMP\_299) = 1 TMP\_300 = 1 not(TMP\_300) = 0 TMP\_301 = 1 not(TMP\_301) = 0 TMP\_302 = 1 not(TMP\_302) = 0 TMP\_303 = 2 TMP\_304 = 0 not(TMP\_304) = 1 TMP\_305 = 1 not(TMP\_305) = 0 TMP\_306 = 1 not(TMP\_306) = 0 TMP\_307 = 1 not(TMP\_307) = 0 TMP\_308 = 1 not(TMP\_308) = 0 TMP\_309 = 1 not(TMP\_309) = 0 TMP\_310 = 5 TMP\_311 = 0 not(TMP\_311) = 1 TMP\_312 = 0 not(TMP\_312) = 1 TMP\_313 = 0 TMP\_314 = 1 not(TMP\_314) = 0 TMP\_315 = 1 not(TMP\_315) = 0 TMP\_316 = 2 TMP\_317 = 0 not(TMP\_317) = 1 TMP\_318 = 0 not(TMP\_318) = 1 TMP\_319 = 1 not(TMP\_319) = 0 TMP\_320 = 1 not(TMP\_320) = 0 TMP\_321 = 1 not(TMP\_321) = 0 TMP\_322 = 2 TMP\_323 = 0 not(TMP\_323) = 1 TMP\_324 = 1 not(TMP\_324) = 0 TMP\_325 = 1 not(TMP\_325) = 0 TMP\_326 = 1 not(TMP\_326) = 0 TMP\_327 = 1 not(TMP\_327) = 0 TMP\_328 = 0 not(TMP\_328) = 1 TMP\_329 = 4 TMP\_330 = 0 not(TMP\_330) = 1 TMP\_331 = 0 not(TMP\_331) = 1 TMP\_332 = 0 TMP\_333 = 1 not(TMP\_333) = 0 TMP\_334 = 1 not(TMP\_334) = 0 TMP\_335 = 2 TMP\_336 = 0 not(TMP\_336) = 1 TMP\_337 = 0 not(TMP\_337) = 1 TMP\_338 = 1 not(TMP\_338) = 0 TMP\_339 = 1 not(TMP\_339) = 0 TMP\_340 = 1 not(TMP\_340) = 0 TMP\_341 = 2 TMP\_342 = 1 not(TMP\_342) = 0 TMP\_343 = 1 not(TMP\_343) = 0 TMP\_344 = 1 not(TMP\_344) = 0 TMP\_345 = 1 not(TMP\_345) = 0 TMP\_346 = 1 not(TMP\_346) = 0 TMP\_347 = 0 not(TMP\_347) = 1 TMP\_348 = 5 TMP\_349 = 0 not(TMP\_349) = 1 TMP\_350 = 0 not(TMP\_350) = 1 TMP\_351 = 0 TMP\_352 = 1 not(TMP\_352) = 0 TMP\_353 = 1 not(TMP\_353) = 0 TMP\_354 = 2 TMP\_355 = 0 not(TMP\_355) = 1 TMP\_356 = 0 not(TMP\_356) = 1 TMP\_357 = 1 not(TMP\_357) = 0 TMP\_358 = 1 not(TMP\_358) = 0 TMP\_359 = 1 not(TMP\_359) = 0 TMP\_360 = 2 TMP\_361 = 1 not(TMP\_361) = 0 TMP\_362 = 0 not(TMP\_362) = 1 TMP\_363 = 1 not(TMP\_363) = 0 TMP\_364 = 1 not(TMP\_364) = 0 TMP\_365 = 1 not(TMP\_365) = 0 TMP\_366 = 0 not(TMP\_366) = 1 TMP\_367 = 4 TMP\_368 = 0 not(TMP\_368) = 1 TMP\_369 = 0 not(TMP\_369) = 1 TMP\_370 = 0 TMP\_371 = 1 not(TMP\_371) = 0 TMP\_372 = 1 not(TMP\_372) = 0 TMP\_373 = 2 TMP\_374 = 0 not(TMP\_374) = 1 TMP\_375 = 0 not(TMP\_375) = 1 TMP\_376 = 1 not(TMP\_376) = 0 TMP\_377 = 1 not(TMP\_377) = 0 TMP\_378 = 1 not(TMP\_378) = 0 TMP\_379 = 2 TMP\_380 = 1 not(TMP\_380) = 0 TMP\_381 = 0 not(TMP\_381) = 1 TMP\_382 = 1 not(TMP\_382) = 0 TMP\_383 = 1 not(TMP\_383) = 0 TMP\_384 = 1 not(TMP\_384) = 0 TMP\_385 = 1 not(TMP\_385) = 0 TMP\_386 = 5 TMP\_387 = 0 not(TMP\_387) = 1 TMP\_388 = 0 not(TMP\_388) = 1 TMP\_389 = 0 TMP\_390 = 1 not(TMP\_390) = 0 TMP\_391 = 1 not(TMP\_391) = 0 TMP\_392 = 2 TMP\_393 = 0 not(TMP\_393) = 1 TMP\_394 = 0 not(TMP\_394) = 1 TMP\_395 = 1 not(TMP\_395) = 0 TMP\_396 = 1 not(TMP\_396) = 0 TMP\_397 = 1 not(TMP\_397) = 0 TMP\_398 = 2 TMP\_399 = 1 not(TMP\_399) = 0 TMP\_400 = 0 not(TMP\_400) = 1 TMP\_401 = 1 not(TMP\_401) = 0 TMP\_402 = 1 not(TMP\_402) = 0 TMP\_403 = 1 not(TMP\_403) = 0 TMP\_404 = 1 not(TMP\_404) = 0 TMP\_405 = 5 TMP\_406 = 0 not(TMP\_406) = 1 TMP\_407 = 0 not(TMP\_407) = 1 TMP\_408 = 0 TMP\_409 = 1 not(TMP\_409) = 0 TMP\_410 = 1 not(TMP\_410) = 0 TMP\_411 = 2 TMP\_412 = 0 not(TMP\_412) = 1 TMP\_413 = 0 not(TMP\_413) = 1 TMP\_414 = 1 not(TMP\_414) = 0 TMP\_415 = 1 not(TMP\_415) = 0 TMP\_416 = 1 not(TMP\_416) = 0 TMP\_417 = 2 TMP\_418 = 1 not(TMP\_418) = 0 TMP\_419 = 0 not(TMP\_419) = 1 TMP\_420 = 1 not(TMP\_420) = 0 TMP\_421 = 1 not(TMP\_421) = 0 TMP\_422 = 1 not(TMP\_422) = 0 TMP\_423 = 1 not(TMP\_423) = 0 TMP\_424 = 5 TMP\_425 = 0 not(TMP\_425) = 1 TMP\_426 = 0 not(TMP\_426) = 1 TMP\_427 = 0 TMP\_428 = 1 not(TMP\_428) = 0 TMP\_429 = 1 not(TMP\_429) = 0 TMP\_430 = 2 TMP\_431 = 0 not(TMP\_431) = 1 TMP\_432 = 0 not(TMP\_432) = 1 TMP\_433 = 1 not(TMP\_433) = 0 TMP\_434 = 1 not(TMP\_434) = 0 TMP\_435 = 1 not(TMP\_435) = 0 TMP\_436 = 2 TMP\_437 = 1 not(TMP\_437) = 0 TMP\_438 = 0 not(TMP\_438) = 1 TMP\_439 = 1 not(TMP\_439) = 0 TMP\_440 = 1 not(TMP\_440) = 0 TMP\_441 = 1 not(TMP\_441) = 0 TMP\_442 = 0 not(TMP\_442) = 1 TMP\_443 = 4 TMP\_444 = 0 not(TMP\_444) = 1 TMP\_445 = 0 not(TMP\_445) = 1 TMP\_446 = 0 TMP\_447 = 1 not(TMP\_447) = 0 TMP\_448 = 1 not(TMP\_448) = 0 TMP\_449 = 2 TMP\_450 = 0 not(TMP\_450) = 1 TMP\_451 = 0 not(TMP\_451) = 1 TMP\_452 = 1 not(TMP\_452) = 0 TMP\_453 = 1 not(TMP\_453) = 0 TMP\_454 = 1 not(TMP\_454) = 0 TMP\_455 = 2 TMP\_456 = 1 not(TMP\_456) = 0 TMP\_457 = 0 not(TMP\_457) = 1 TMP\_458 = 1 not(TMP\_458) = 0 TMP\_459 = 1 not(TMP\_459) = 0 TMP\_460 = 1 not(TMP\_460) = 0 TMP\_461 = 0 not(TMP\_461) = 1 TMP\_462 = 4 TMP\_463 = 0 not(TMP\_463) = 1 TMP\_464 = 0 not(TMP\_464) = 1 TMP\_465 = 0 TMP\_466 = 1 not(TMP\_466) = 0 TMP\_467 = 1 not(TMP\_467) = 0 TMP\_468 = 2 TMP\_469 = 0 not(TMP\_469) = 1 TMP\_470 = 0 not(TMP\_470) = 1 TMP\_471 = 1 not(TMP\_471) = 0 TMP\_472 = 1 not(TMP\_472) = 0 TMP\_473 = 1 not(TMP\_473) = 0 TMP\_474 = 2 TMP\_475 = 1 not(TMP\_475) = 0 TMP\_476 = 0 not(TMP\_476) = 1 TMP\_477 = 1 not(TMP\_477) = 0 TMP\_478 = 1 not(TMP\_478) = 0 TMP\_479 = 1 not(TMP\_479) = 0 TMP\_480 = 1 not(TMP\_480) = 0 TMP\_481 = 5 TMP\_482 = 0 not(TMP\_482) = 1 TMP\_483 = 0 not(TMP\_483) = 1 TMP\_484 = 0 TMP\_485 = 1 not(TMP\_485) = 0 TMP\_486 = 1 not(TMP\_486) = 0 TMP\_487 = 2 TMP\_488 = 0 not(TMP\_488) = 1 TMP\_489 = 0 not(TMP\_489) = 1 TMP\_490 = 1 not(TMP\_490) = 0 TMP\_491 = 1 not(TMP\_491) = 0 TMP\_492 = 1 not(TMP\_492) = 0 TMP\_493 = 2 TMP\_494 = 1 not(TMP\_494) = 0 TMP\_495 = 1 not(TMP\_495) = 0 TMP\_496 = 1 not(TMP\_496) = 0 TMP\_497 = 1 not(TMP\_497) = 0 TMP\_498 = 1 not(TMP\_498) = 0 TMP\_499 = 0 not(TMP\_499) = 1 TMP\_500 = 5 TMP\_501 = 0 not(TMP\_501) = 1 TMP\_502 = 0 not(TMP\_502) = 1 TMP\_503 = 0 TMP\_504 = 1 not(TMP\_504) = 0 TMP\_505 = 1 not(TMP\_505) = 0 TMP\_506 = 2 TMP\_507 = 0 not(TMP\_507) = 1 TMP\_508 = 0 not(TMP\_508) = 1 TMP\_509 = 1 not(TMP\_509) = 0 TMP\_510 = 1 not(TMP\_510) = 0 TMP\_511 = 1 not(TMP\_511) = 0 TMP\_512 = 2 TMP\_513 = 0 not(TMP\_513) = 1 TMP\_514 = 1 not(TMP\_514) = 0 TMP\_515 = 1 not(TMP\_515) = 0 TMP\_516 = 1 not(TMP\_516) = 0 TMP\_517 = 1 not(TMP\_517) = 0 TMP\_518 = 1 not(TMP\_518) = 0 TMP\_519 = 5 TMP\_520 = 0 not(TMP\_520) = 1 TMP\_521 = 0 not(TMP\_521) = 1 TMP\_522 = 0 TMP\_523 = 1 not(TMP\_523) = 0 TMP\_524 = 1 not(TMP\_524) = 0 TMP\_525 = 2 TMP\_526 = 0 not(TMP\_526) = 1 TMP\_527 = 0 not(TMP\_527) = 1 TMP\_528 = 1 not(TMP\_528) = 0 TMP\_529 = 1 not(TMP\_529) = 0 TMP\_530 = 1 not(TMP\_530) = 0 TMP\_531 = 2 TMP\_532 = 1 not(TMP\_532) = 0 TMP\_533 = 0 not(TMP\_533) = 1 TMP\_534 = 1 not(TMP\_534) = 0 TMP\_535 = 1 not(TMP\_535) = 0 TMP\_536 = 1 not(TMP\_536) = 0 TMP\_537 = 1 not(TMP\_537) = 0 TMP\_538 = 5 TMP\_539 = 0 not(TMP\_539) = 1 TMP\_540 = 0 not(TMP\_540) = 1 TMP\_541 = 0 TMP\_542 = 1 not(TMP\_542) = 0 TMP\_543 = 1 not(TMP\_543) = 0 TMP\_544 = 2 TMP\_545 = 0 not(TMP\_545) = 1 TMP\_546 = 0 not(TMP\_546) = 1 TMP\_547 = 1 not(TMP\_547) = 0 TMP\_548 = 1 not(TMP\_548) = 0 TMP\_549 = 1 not(TMP\_549) = 0 TMP\_550 = 2 TMP\_551 = 1 not(TMP\_551) = 0 TMP\_552 = 0 not(TMP\_552) = 1 TMP\_553 = 1 not(TMP\_553) = 0 TMP\_554 = 1 not(TMP\_554) = 0 TMP\_555 = 0 not(TMP\_555) = 1 TMP\_556 = 1 not(TMP\_556) = 0 TMP\_557 = 4 TMP\_558 = 0 not(TMP\_558) = 1 TMP\_559 = 0 not(TMP\_559) = 1 TMP\_560 = 0 TMP\_561 = 1 not(TMP\_561) = 0 TMP\_562 = 1 not(TMP\_562) = 0 TMP\_563 = 2 TMP\_564 = 0 not(TMP\_564) = 1 TMP\_565 = 0 not(TMP\_565) = 1 TMP\_566 = 1 not(TMP\_566) = 0 TMP\_567 = 1 not(TMP\_567) = 0 TMP\_568 = 1 not(TMP\_568) = 0 TMP\_569 = 2 TMP\_570 = 1 not(TMP\_570) = 0 TMP\_571 = 0 not(TMP\_571) = 1 TMP\_572 = 1 not(TMP\_572) = 0 TMP\_573 = 1 not(TMP\_573) = 0 TMP\_574 = 0 not(TMP\_574) = 1 TMP\_575 = 1 not(TMP\_575) = 0 TMP\_576 = 4 TMP\_577 = 0 not(TMP\_577) = 1 TMP\_578 = 0 not(TMP\_578) = 1 TMP\_579 = 0 TMP\_580 = 1 not(TMP\_580) = 0 TMP\_581 = 1 not(TMP\_581) = 0 TMP\_582 = 2 TMP\_583 = 0 not(TMP\_583) = 1 TMP\_584 = 0 not(TMP\_584) = 1 TMP\_585 = 1 not(TMP\_585) = 0 TMP\_586 = 1 not(TMP\_586) = 0 TMP\_587 = 1 not(TMP\_587) = 0 TMP\_588 = 2 TMP\_589 = 1 not(TMP\_589) = 0 TMP\_590 = 0 not(TMP\_590) = 1 TMP\_591 = 1 not(TMP\_591) = 0 TMP\_592 = 1 not(TMP\_592) = 0 TMP\_593 = 0 not(TMP\_593) = 1 TMP\_594 = 1 not(TMP\_594) = 0 TMP\_595 = 4 TMP\_596 = 0 not(TMP\_596) = 1 TMP\_597 = 0 not(TMP\_597) = 1 TMP\_598 = 0 TMP\_599 = 1 not(TMP\_599) = 0 TMP\_600 = 1 not(TMP\_600) = 0 TMP\_601 = 2 TMP\_602 = 0 not(TMP\_602) = 1 TMP\_603 = 0 not(TMP\_603) = 1 TMP\_604 = 1 not(TMP\_604) = 0 TMP\_605 = 1 not(TMP\_605) = 0 TMP\_606 = 1 not(TMP\_606) = 0 TMP\_607 = 2 TMP\_608 = 1 not(TMP\_608) = 0 TMP\_609 = 0 not(TMP\_609) = 1 TMP\_610 = 1 not(TMP\_610) = 0 TMP\_611 = 1 not(TMP\_611) = 0 TMP\_612 = 1 not(TMP\_612) = 0 TMP\_613 = 1 not(TMP\_613) = 0 TMP\_614 = 5 TMP\_615 = 0 not(TMP\_615) = 1 TMP\_616 = 0 not(TMP\_616) = 1 TMP\_617 = 0 TMP\_618 = 1 not(TMP\_618) = 0 TMP\_619 = 1 not(TMP\_619) = 0 TMP\_620 = 2 TMP\_621 = 0 not(TMP\_621) = 1 TMP\_622 = 0 not(TMP\_622) = 1 TMP\_623 = 1 not(TMP\_623) = 0 TMP\_624 = 1 not(TMP\_624) = 0 TMP\_625 = 1 not(TMP\_625) = 0 TMP\_626 = 2 TMP\_627 = 1 not(TMP\_627) = 0 TMP\_628 = 0 not(TMP\_628) = 1 TMP\_629 = 1 not(TMP\_629) = 0 TMP\_630 = 1 not(TMP\_630) = 0 TMP\_631 = 1 not(TMP\_631) = 0 TMP\_632 = 1 not(TMP\_632) = 0 TMP\_633 = 5 TMP\_634 = 0 not(TMP\_634) = 1 TMP\_635 = 0 not(TMP\_635) = 1 TMP\_636 = 0 TMP\_637 = 1 not(TMP\_637) = 0 TMP\_638 = 1 not(TMP\_638) = 0 TMP\_639 = 2 TMP\_640 = 0 not(TMP\_640) = 1 TMP\_641 = 0 not(TMP\_641) = 1 TMP\_642 = 1 not(TMP\_642) = 0 TMP\_643 = 1 not(TMP\_643) = 0 TMP\_644 = 1 not(TMP\_644) = 0 TMP\_645 = 2 TMP\_646 = 1 not(TMP\_646) = 0 TMP\_647 = 0 not(TMP\_647) = 1 TMP\_648 = 1 not(TMP\_648) = 0 TMP\_649 = 1 not(TMP\_649) = 0 TMP\_650 = 0 not(TMP\_650) = 1 TMP\_651 = 1 not(TMP\_651) = 0 TMP\_652 = 4 TMP\_653 = 0 not(TMP\_653) = 1 TMP\_654 = 0 not(TMP\_654) = 1 TMP\_655 = 0 TMP\_656 = 1 not(TMP\_656) = 0 TMP\_657 = 1 not(TMP\_657) = 0 TMP\_658 = 2 TMP\_659 = 0 not(TMP\_659) = 1 TMP\_660 = 0 not(TMP\_660) = 1 TMP\_661 = 1 not(TMP\_661) = 0 TMP\_662 = 1 not(TMP\_662) = 0 TMP\_663 = 1 not(TMP\_663) = 0 TMP\_664 = 2 TMP\_665 = 1 not(TMP\_665) = 0 TMP\_666 = 1 not(TMP\_666) = 0 TMP\_667 = 1 not(TMP\_667) = 0 TMP\_668 = 1 not(TMP\_668) = 0 TMP\_669 = 0 not(TMP\_669) = 1 TMP\_670 = 1 not(TMP\_670) = 0 TMP\_671 = 5 TMP\_672 = 0 not(TMP\_672) = 1 TMP\_673 = 0 not(TMP\_673) = 1 TMP\_674 = 0 TMP\_675 = 1 not(TMP\_675) = 0 TMP\_676 = 1 not(TMP\_676) = 0 TMP\_677 = 2 TMP\_678 = 0 not(TMP\_678) = 1 TMP\_679 = 0 not(TMP\_679) = 1 TMP\_680 = 1 not(TMP\_680) = 0 TMP\_681 = 1 not(TMP\_681) = 0 TMP\_682 = 1 not(TMP\_682) = 0 TMP\_683 = 2 Area\_0 = 60 Distance\_0\_Rule\_0 = 20 Distance\_1\_Rule\_0 = 3 Distance\_2\_Rule\_0 = 1 Area\_1 = 174 Distance\_0\_Rule\_1 = 58 Distance\_1\_Rule\_1 = 3 Distance\_2\_Rule\_1 = 1 Area\_2 = 116 Distance\_0\_Rule\_2 = 58 Distance\_1\_Rule\_2 = 2 Distance\_2\_Rule\_2 = 1 Area\_3 = 58 Distance\_0\_Rule\_3 = 58 Distance\_1\_Rule\_3 = 1 Distance\_2\_Rule\_3 = 1 Area\_4 = 120 Distance\_0\_Rule\_4 = 40 Distance\_1\_Rule\_4 = 3 Distance\_2\_Rule\_4 = 1 Area\_5 = 120 Distance\_0\_Rule\_5 = 40 Distance\_1\_Rule\_5 = 3 Distance\_2\_Rule\_5 = 1 Area\_6 = 3 -(Rule\_6\_LB) = -79 Distance\_0\_Rule\_6 = 1 -(Rule\_6\_LB) = 0 Distance\_1\_Rule\_6 = 3 -(Rule\_6\_LB) = -1 Distance\_2\_Rule\_6 = 1 Area\_7 = 3 -(Rule\_7\_LB) = -79 Distance\_0\_Rule\_7 = 1 -(Rule\_7\_LB) = 0 Distance\_1\_Rule\_7 = 3 -(Rule\_7\_LB) = 0 Distance\_2\_Rule\_7 = 1 Area\_8 = 63 -(Rule\_8\_LB) = 0 Distance\_0\_Rule\_8 = 21 -(Rule\_8\_LB) = 0 Distance\_1\_Rule\_8 = 3 -(Rule\_8\_LB) = 0 Distance\_2\_Rule\_8 = 1 Area\_9 = 3 -(Rule\_9\_LB) = -20 Distance\_0\_Rule\_9 = 1 -(Rule\_9\_LB) = 0 Distance\_1\_Rule\_9 = 3 -(Rule\_9\_LB) = -1 Distance\_2\_Rule\_9 = 1 TMP\_684 = 720 .

- Solution #16 found. 16 Solutions, Resolution 1.490s, 735 Nodes (493.1 n/s), 1353 Backtracks, 670 Fails, 0 Restarts

Rule\_6\_LB = 79 Rule\_6\_UB = 80 Rule\_6\_LB = 0 Rule\_6\_UB = 3 Rule\_6\_LB = 1 Rule\_6\_UB = 2 Rule\_7\_LB = 79 Rule\_7\_UB = 80 Rule\_7\_LB = 0 Rule\_7\_UB = 3 Rule\_7\_LB = 0 Rule\_7\_UB = 1 Rule\_8\_LB = 0 Rule\_8\_UB = 21 Rule\_8\_LB = 0 Rule\_8\_UB = 3 Rule\_8\_LB = 0 Rule\_8\_UB = 1 Rule\_9\_LB = 20 Rule\_9\_UB = 21 Rule\_9\_LB = 0 Rule\_9\_UB = 3 Rule\_9\_LB = 1 Rule\_9\_UB = 2 Overlaps\_0\_0 = 0 Overlaps\_0\_1 = 0 Overlaps\_0\_2 = 0 Overlaps\_0\_3 = 0 Overlaps\_0\_4 = 0 Overlaps\_0\_5 = 0 Overlaps\_0\_6 = 0 Overlaps\_0\_7 = 0 Overlaps\_0\_8 = 0 Overlaps\_0\_9 = 0 Overlaps\_1\_0 = 0 Overlaps\_1\_1 = 0 Overlaps\_1\_2 = 1 Overlaps\_1\_3 = 0 Overlaps\_1\_4 = 1 Overlaps\_1\_5 = 0 Overlaps\_1\_6 = 0 Overlaps\_1\_7 = 0 Overlaps\_1\_8 = 0 Overlaps\_1\_9 = 0 Overlaps\_2\_0 = 1 Overlaps\_2\_1 = 0 Overlaps\_2\_2 = 0 Overlaps\_2\_3 = 0 Overlaps\_2\_4 = 0 Overlaps\_2\_5 = 0 Overlaps\_2\_6 = 0 Overlaps\_2\_7 = 0 Overlaps\_2\_8 = 0 Overlaps\_2\_9 = 0 Overlaps\_3\_0 = 0 Overlaps\_3\_1 = 0 Overlaps\_3\_2 = 0 Overlaps\_3\_3 = 0 Overlaps\_3\_4 = 0 Overlaps\_3\_5 = 0 Overlaps\_3\_6 = 0 Overlaps\_3\_7 = 0 Overlaps\_3\_8 = 0 Overlaps\_3\_9 = 0 Overlaps\_4\_0 = 0 Overlaps\_4\_1 = 0 Overlaps\_4\_2 = 0 Overlaps\_4\_3 = 0 Overlaps\_4\_4 = 0 Overlaps\_4\_5 = 0 Overlaps\_4\_6 = 0 Overlaps\_4\_7 = 0 Overlaps\_4\_8 = 0 Overlaps\_4\_9 = 0 Overlaps\_5\_0 = 1 Overlaps\_5\_1 = 0 Overlaps\_5\_2 = 0 Overlaps\_5\_3 = 0 Overlaps\_5\_4 = 0 Overlaps\_5\_5 = 0 Overlaps\_5\_6 = 0 Overlaps\_5\_7 = 0 Overlaps\_5\_8 = 0 Overlaps\_5\_9 = 0 Overlaps\_6\_0 = 0 Overlaps\_6\_1 = 0 Overlaps\_6\_2 = 0 Overlaps\_6\_3 = 0 Overlaps\_6\_4 = 0 Overlaps\_6\_5 = 0 Overlaps\_6\_6 = 0 Overlaps\_6\_7 = 0 Overlaps\_6\_8 = 0 Overlaps\_6\_9 = 0 Overlaps\_7\_0 = 0 Overlaps\_7\_1 = 0 Overlaps\_7\_2 = 0 Overlaps\_7\_3 = 0 Overlaps\_7\_4 = 0 Overlaps\_7\_5 = 0 Overlaps\_7\_6 = 0 Overlaps\_7\_7 = 0 Overlaps\_7\_8 = 0 Overlaps\_7\_9 = 0 Overlaps\_8\_0 = 0 Overlaps\_8\_1 = 0 Overlaps\_8\_2 = 0 Overlaps\_8\_3 = 0 Overlaps\_8\_4 = 0 Overlaps\_8\_5 = 0 Overlaps\_8\_6 = 0 Overlaps\_8\_7 = 0 Overlaps\_8\_8 = 0 Overlaps\_8\_9 = 0 Overlaps\_9\_0 = 0 Overlaps\_9\_1 = 0 Overlaps\_9\_2 = 0 Overlaps\_9\_3 = 0 Overlaps\_9\_4 = 0 Overlaps\_9\_5 = 0 Overlaps\_9\_6 = 0 Overlaps\_9\_7 = 0 Overlaps\_9\_8 = 0 Overlaps\_9\_9 = 0 TMP\_0 = 0 not(TMP\_0) = 1 TMP\_1 = 1 not(TMP\_1) = 0 TMP\_2 = 1 not(TMP\_2) = 0 TMP\_3 = 1 not(TMP\_3) = 0 TMP\_4 = 1 not(TMP\_4) = 0 TMP\_5 = 1 not(TMP\_5) = 0 TMP\_6 = 5 TMP\_7 = 0 not(TMP\_7) = 1 TMP\_8 = 0 not(TMP\_8) = 1 TMP\_9 = 0 TMP\_10 = 1 not(TMP\_10) = 0 TMP\_11 = 1 not(TMP\_11) = 0 TMP\_12 = 2 TMP\_13 = 0 not(TMP\_13) = 1 TMP\_14 = 0 not(TMP\_14) = 1 TMP\_15 = 1 not(TMP\_15) = 0 TMP\_16 = 1 not(TMP\_16) = 0 TMP\_17 = 1 not(TMP\_17) = 0 TMP\_18 = 2 TMP\_19 = 0 not(TMP\_19) = 1 TMP\_20 = 1 not(TMP\_20) = 0 TMP\_21 = 1 not(TMP\_21) = 0 TMP\_22 = 1 not(TMP\_22) = 0 TMP\_23 = 1 not(TMP\_23) = 0 TMP\_24 = 1 not(TMP\_24) = 0 TMP\_25 = 5 TMP\_26 = 0 not(TMP\_26) = 1 TMP\_27 = 0 not(TMP\_27) = 1 TMP\_28 = 0 TMP\_29 = 1 not(TMP\_29) = 0 TMP\_30 = 1 not(TMP\_30) = 0 TMP\_31 = 2 TMP\_32 = 0 not(TMP\_32) = 1 TMP\_33 = 0 not(TMP\_33) = 1 TMP\_34 = 1 not(TMP\_34) = 0 TMP\_35 = 1 not(TMP\_35) = 0 TMP\_36 = 1 not(TMP\_36) = 0 TMP\_37 = 2 TMP\_38 = 0 not(TMP\_38) = 1 TMP\_39 = 1 not(TMP\_39) = 0 TMP\_40 = 1 not(TMP\_40) = 0 TMP\_41 = 1 not(TMP\_41) = 0 TMP\_42 = 0 not(TMP\_42) = 1 TMP\_43 = 1 not(TMP\_43) = 0 TMP\_44 = 4 TMP\_45 = 0 not(TMP\_45) = 1 TMP\_46 = 0 not(TMP\_46) = 1 TMP\_47 = 0 TMP\_48 = 1 not(TMP\_48) = 0 TMP\_49 = 1 not(TMP\_49) = 0 TMP\_50 = 2 TMP\_51 = 0 not(TMP\_51) = 1 TMP\_52 = 0 not(TMP\_52) = 1 TMP\_53 = 1 not(TMP\_53) = 0 TMP\_54 = 1 not(TMP\_54) = 0 TMP\_55 = 1 not(TMP\_55) = 0 TMP\_56 = 2 TMP\_57 = 0 not(TMP\_57) = 1 TMP\_58 = 1 not(TMP\_58) = 0 TMP\_59 = 1 not(TMP\_59) = 0 TMP\_60 = 1 not(TMP\_60) = 0 TMP\_61 = 0 not(TMP\_61) = 1 TMP\_62 = 1 not(TMP\_62) = 0 TMP\_63 = 4 TMP\_64 = 0 not(TMP\_64) = 1 TMP\_65 = 0 not(TMP\_65) = 1 TMP\_66 = 0 TMP\_67 = 1 not(TMP\_67) = 0 TMP\_68 = 1 not(TMP\_68) = 0 TMP\_69 = 2 TMP\_70 = 0 not(TMP\_70) = 1 TMP\_71 = 0 not(TMP\_71) = 1 TMP\_72 = 1 not(TMP\_72) = 0 TMP\_73 = 1 not(TMP\_73) = 0 TMP\_74 = 1 not(TMP\_74) = 0 TMP\_75 = 2 TMP\_76 = 1 not(TMP\_76) = 0 TMP\_77 = 0 not(TMP\_77) = 1 TMP\_78 = 1 not(TMP\_78) = 0 TMP\_79 = 1 not(TMP\_79) = 0 TMP\_80 = 0 not(TMP\_80) = 1 TMP\_81 = 1 not(TMP\_81) = 0 TMP\_82 = 4 TMP\_83 = 0 not(TMP\_83) = 1 TMP\_84 = 0 not(TMP\_84) = 1 TMP\_85 = 0 TMP\_86 = 1 not(TMP\_86) = 0 TMP\_87 = 1 not(TMP\_87) = 0 TMP\_88 = 2 TMP\_89 = 0 not(TMP\_89) = 1 TMP\_90 = 0 not(TMP\_90) = 1 TMP\_91 = 1 not(TMP\_91) = 0 TMP\_92 = 1 not(TMP\_92) = 0 TMP\_93 = 1 not(TMP\_93) = 0 TMP\_94 = 2 TMP\_95 = 1 not(TMP\_95) = 0 TMP\_96 = 0 not(TMP\_96) = 1 TMP\_97 = 1 not(TMP\_97) = 0 TMP\_98 = 1 not(TMP\_98) = 0 TMP\_99 = 1 not(TMP\_99) = 0 TMP\_100 = 1 not(TMP\_100) = 0 TMP\_101 = 5 TMP\_102 = 0 not(TMP\_102) = 1 TMP\_103 = 0 not(TMP\_103) = 1 TMP\_104 = 0 TMP\_105 = 1 not(TMP\_105) = 0 TMP\_106 = 1 not(TMP\_106) = 0 TMP\_107 = 2 TMP\_108 = 0 not(TMP\_108) = 1 TMP\_109 = 0 not(TMP\_109) = 1 TMP\_110 = 1 not(TMP\_110) = 0 TMP\_111 = 1 not(TMP\_111) = 0 TMP\_112 = 1 not(TMP\_112) = 0 TMP\_113 = 2 TMP\_114 = 1 not(TMP\_114) = 0 TMP\_115 = 1 not(TMP\_115) = 0 TMP\_116 = 1 not(TMP\_116) = 0 TMP\_117 = 1 not(TMP\_117) = 0 TMP\_118 = 0 not(TMP\_118) = 1 TMP\_119 = 1 not(TMP\_119) = 0 TMP\_120 = 5 TMP\_121 = 0 not(TMP\_121) = 1 TMP\_122 = 0 not(TMP\_122) = 1 TMP\_123 = 0 TMP\_124 = 1 not(TMP\_124) = 0 TMP\_125 = 1 not(TMP\_125) = 0 TMP\_126 = 2 TMP\_127 = 0 not(TMP\_127) = 1 TMP\_128 = 0 not(TMP\_128) = 1 TMP\_129 = 1 not(TMP\_129) = 0 TMP\_130 = 1 not(TMP\_130) = 0 TMP\_131 = 1 not(TMP\_131) = 0 TMP\_132 = 2 TMP\_133 = 0 not(TMP\_133) = 1 TMP\_134 = 1 not(TMP\_134) = 0 TMP\_135 = 1 not(TMP\_135) = 0 TMP\_136 = 1 not(TMP\_136) = 0 TMP\_137 = 0 not(TMP\_137) = 1 TMP\_138 = 1 not(TMP\_138) = 0 TMP\_139 = 4 TMP\_140 = 0 not(TMP\_140) = 1 TMP\_141 = 0 not(TMP\_141) = 1 TMP\_142 = 0 TMP\_143 = 1 not(TMP\_143) = 0 TMP\_144 = 1 not(TMP\_144) = 0 TMP\_145 = 2 TMP\_146 = 0 not(TMP\_146) = 1 TMP\_147 = 0 not(TMP\_147) = 1 TMP\_148 = 1 not(TMP\_148) = 0 TMP\_149 = 1 not(TMP\_149) = 0 TMP\_150 = 1 not(TMP\_150) = 0 TMP\_151 = 2 TMP\_152 = 0 not(TMP\_152) = 1 TMP\_153 = 1 not(TMP\_153) = 0 TMP\_154 = 1 not(TMP\_154) = 0 TMP\_155 = 1 not(TMP\_155) = 0 TMP\_156 = 1 not(TMP\_156) = 0 TMP\_157 = 1 not(TMP\_157) = 0 TMP\_158 = 5 TMP\_159 = 0 not(TMP\_159) = 1 TMP\_160 = 0 not(TMP\_160) = 1 TMP\_161 = 0 TMP\_162 = 1 not(TMP\_162) = 0 TMP\_163 = 1 not(TMP\_163) = 0 TMP\_164 = 2 TMP\_165 = 0 not(TMP\_165) = 1 TMP\_166 = 0 not(TMP\_166) = 1 TMP\_167 = 1 not(TMP\_167) = 0 TMP\_168 = 1 not(TMP\_168) = 0 TMP\_169 = 1 not(TMP\_169) = 0 TMP\_170 = 2 TMP\_171 = 0 not(TMP\_171) = 1 TMP\_172 = 1 not(TMP\_172) = 0 TMP\_173 = 1 not(TMP\_173) = 0 TMP\_174 = 1 not(TMP\_174) = 0 TMP\_175 = 1 not(TMP\_175) = 0 TMP\_176 = 0 not(TMP\_176) = 1 TMP\_177 = 4 TMP\_178 = 0 not(TMP\_178) = 1 TMP\_179 = 0 not(TMP\_179) = 1 TMP\_180 = 0 TMP\_181 = 1 not(TMP\_181) = 0 TMP\_182 = 1 not(TMP\_182) = 0 TMP\_183 = 2 TMP\_184 = 0 not(TMP\_184) = 1 TMP\_185 = 0 not(TMP\_185) = 1 TMP\_186 = 1 not(TMP\_186) = 0 TMP\_187 = 1 not(TMP\_187) = 0 TMP\_188 = 1 not(TMP\_188) = 0 TMP\_189 = 2 TMP\_190 = 0 not(TMP\_190) = 1 TMP\_191 = 1 not(TMP\_191) = 0 TMP\_192 = 1 not(TMP\_192) = 0 TMP\_193 = 1 not(TMP\_193) = 0 TMP\_194 = 1 not(TMP\_194) = 0 TMP\_195 = 0 not(TMP\_195) = 1 TMP\_196 = 4 TMP\_197 = 0 not(TMP\_197) = 1 TMP\_198 = 0 not(TMP\_198) = 1 TMP\_199 = 0 TMP\_200 = 1 not(TMP\_200) = 0 TMP\_201 = 1 not(TMP\_201) = 0 TMP\_202 = 2 TMP\_203 = 0 not(TMP\_203) = 1 TMP\_204 = 0 not(TMP\_204) = 1 TMP\_205 = 1 not(TMP\_205) = 0 TMP\_206 = 1 not(TMP\_206) = 0 TMP\_207 = 1 not(TMP\_207) = 0 TMP\_208 = 2 TMP\_209 = 0 not(TMP\_209) = 1 TMP\_210 = 1 not(TMP\_210) = 0 TMP\_211 = 1 not(TMP\_211) = 0 TMP\_212 = 1 not(TMP\_212) = 0 TMP\_213 = 1 not(TMP\_213) = 0 TMP\_214 = 1 not(TMP\_214) = 0 TMP\_215 = 5 TMP\_216 = 0 not(TMP\_216) = 1 TMP\_217 = 0 not(TMP\_217) = 1 TMP\_218 = 0 TMP\_219 = 1 not(TMP\_219) = 0 TMP\_220 = 1 not(TMP\_220) = 0 TMP\_221 = 2 TMP\_222 = 0 not(TMP\_222) = 1 TMP\_223 = 0 not(TMP\_223) = 1 TMP\_224 = 1 not(TMP\_224) = 0 TMP\_225 = 1 not(TMP\_225) = 0 TMP\_226 = 1 not(TMP\_226) = 0 TMP\_227 = 2 TMP\_228 = 0 not(TMP\_228) = 1 TMP\_229 = 1 not(TMP\_229) = 0 TMP\_230 = 1 not(TMP\_230) = 0 TMP\_231 = 1 not(TMP\_231) = 0 TMP\_232 = 1 not(TMP\_232) = 0 TMP\_233 = 1 not(TMP\_233) = 0 TMP\_234 = 5 TMP\_235 = 0 not(TMP\_235) = 1 TMP\_236 = 0 not(TMP\_236) = 1 TMP\_237 = 0 TMP\_238 = 1 not(TMP\_238) = 0 TMP\_239 = 1 not(TMP\_239) = 0 TMP\_240 = 2 TMP\_241 = 0 not(TMP\_241) = 1 TMP\_242 = 0 not(TMP\_242) = 1 TMP\_243 = 1 not(TMP\_243) = 0 TMP\_244 = 1 not(TMP\_244) = 0 TMP\_245 = 1 not(TMP\_245) = 0 TMP\_246 = 2 TMP\_247 = 1 not(TMP\_247) = 0 TMP\_248 = 0 not(TMP\_248) = 1 TMP\_249 = 1 not(TMP\_249) = 0 TMP\_250 = 1 not(TMP\_250) = 0 TMP\_251 = 1 not(TMP\_251) = 0 TMP\_252 = 1 not(TMP\_252) = 0 TMP\_253 = 5 TMP\_254 = 0 not(TMP\_254) = 1 TMP\_255 = 0 not(TMP\_255) = 1 TMP\_256 = 0 TMP\_257 = 1 not(TMP\_257) = 0 TMP\_258 = 1 not(TMP\_258) = 0 TMP\_259 = 2 TMP\_260 = 0 not(TMP\_260) = 1 TMP\_261 = 0 not(TMP\_261) = 1 TMP\_262 = 1 not(TMP\_262) = 0 TMP\_263 = 1 not(TMP\_263) = 0 TMP\_264 = 1 not(TMP\_264) = 0 TMP\_265 = 2 TMP\_266 = 1 not(TMP\_266) = 0 TMP\_267 = 0 not(TMP\_267) = 1 TMP\_268 = 1 not(TMP\_268) = 0 TMP\_269 = 1 not(TMP\_269) = 0 TMP\_270 = 1 not(TMP\_270) = 0 TMP\_271 = 0 not(TMP\_271) = 1 TMP\_272 = 4 TMP\_273 = 0 not(TMP\_273) = 1 TMP\_274 = 0 not(TMP\_274) = 1 TMP\_275 = 0 TMP\_276 = 1 not(TMP\_276) = 0 TMP\_277 = 1 not(TMP\_277) = 0 TMP\_278 = 2 TMP\_279 = 0 not(TMP\_279) = 1 TMP\_280 = 0 not(TMP\_280) = 1 TMP\_281 = 1 not(TMP\_281) = 0 TMP\_282 = 1 not(TMP\_282) = 0 TMP\_283 = 1 not(TMP\_283) = 0 TMP\_284 = 2 TMP\_285 = 1 not(TMP\_285) = 0 TMP\_286 = 1 not(TMP\_286) = 0 TMP\_287 = 1 not(TMP\_287) = 0 TMP\_288 = 1 not(TMP\_288) = 0 TMP\_289 = 1 not(TMP\_289) = 0 TMP\_290 = 0 not(TMP\_290) = 1 TMP\_291 = 5 TMP\_292 = 0 not(TMP\_292) = 1 TMP\_293 = 0 not(TMP\_293) = 1 TMP\_294 = 0 TMP\_295 = 1 not(TMP\_295) = 0 TMP\_296 = 1 not(TMP\_296) = 0 TMP\_297 = 2 TMP\_298 = 0 not(TMP\_298) = 1 TMP\_299 = 0 not(TMP\_299) = 1 TMP\_300 = 1 not(TMP\_300) = 0 TMP\_301 = 1 not(TMP\_301) = 0 TMP\_302 = 1 not(TMP\_302) = 0 TMP\_303 = 2 TMP\_304 = 0 not(TMP\_304) = 1 TMP\_305 = 1 not(TMP\_305) = 0 TMP\_306 = 1 not(TMP\_306) = 0 TMP\_307 = 1 not(TMP\_307) = 0 TMP\_308 = 1 not(TMP\_308) = 0 TMP\_309 = 1 not(TMP\_309) = 0 TMP\_310 = 5 TMP\_311 = 0 not(TMP\_311) = 1 TMP\_312 = 0 not(TMP\_312) = 1 TMP\_313 = 0 TMP\_314 = 1 not(TMP\_314) = 0 TMP\_315 = 1 not(TMP\_315) = 0 TMP\_316 = 2 TMP\_317 = 0 not(TMP\_317) = 1 TMP\_318 = 0 not(TMP\_318) = 1 TMP\_319 = 1 not(TMP\_319) = 0 TMP\_320 = 1 not(TMP\_320) = 0 TMP\_321 = 1 not(TMP\_321) = 0 TMP\_322 = 2 TMP\_323 = 0 not(TMP\_323) = 1 TMP\_324 = 1 not(TMP\_324) = 0 TMP\_325 = 1 not(TMP\_325) = 0 TMP\_326 = 1 not(TMP\_326) = 0 TMP\_327 = 1 not(TMP\_327) = 0 TMP\_328 = 0 not(TMP\_328) = 1 TMP\_329 = 4 TMP\_330 = 0 not(TMP\_330) = 1 TMP\_331 = 0 not(TMP\_331) = 1 TMP\_332 = 0 TMP\_333 = 1 not(TMP\_333) = 0 TMP\_334 = 1 not(TMP\_334) = 0 TMP\_335 = 2 TMP\_336 = 0 not(TMP\_336) = 1 TMP\_337 = 0 not(TMP\_337) = 1 TMP\_338 = 1 not(TMP\_338) = 0 TMP\_339 = 1 not(TMP\_339) = 0 TMP\_340 = 1 not(TMP\_340) = 0 TMP\_341 = 2 TMP\_342 = 1 not(TMP\_342) = 0 TMP\_343 = 1 not(TMP\_343) = 0 TMP\_344 = 1 not(TMP\_344) = 0 TMP\_345 = 1 not(TMP\_345) = 0 TMP\_346 = 1 not(TMP\_346) = 0 TMP\_347 = 0 not(TMP\_347) = 1 TMP\_348 = 5 TMP\_349 = 0 not(TMP\_349) = 1 TMP\_350 = 0 not(TMP\_350) = 1 TMP\_351 = 0 TMP\_352 = 1 not(TMP\_352) = 0 TMP\_353 = 1 not(TMP\_353) = 0 TMP\_354 = 2 TMP\_355 = 0 not(TMP\_355) = 1 TMP\_356 = 0 not(TMP\_356) = 1 TMP\_357 = 1 not(TMP\_357) = 0 TMP\_358 = 1 not(TMP\_358) = 0 TMP\_359 = 1 not(TMP\_359) = 0 TMP\_360 = 2 TMP\_361 = 1 not(TMP\_361) = 0 TMP\_362 = 0 not(TMP\_362) = 1 TMP\_363 = 1 not(TMP\_363) = 0 TMP\_364 = 1 not(TMP\_364) = 0 TMP\_365 = 1 not(TMP\_365) = 0 TMP\_366 = 0 not(TMP\_366) = 1 TMP\_367 = 4 TMP\_368 = 0 not(TMP\_368) = 1 TMP\_369 = 0 not(TMP\_369) = 1 TMP\_370 = 0 TMP\_371 = 1 not(TMP\_371) = 0 TMP\_372 = 1 not(TMP\_372) = 0 TMP\_373 = 2 TMP\_374 = 0 not(TMP\_374) = 1 TMP\_375 = 0 not(TMP\_375) = 1 TMP\_376 = 1 not(TMP\_376) = 0 TMP\_377 = 1 not(TMP\_377) = 0 TMP\_378 = 1 not(TMP\_378) = 0 TMP\_379 = 2 TMP\_380 = 1 not(TMP\_380) = 0 TMP\_381 = 0 not(TMP\_381) = 1 TMP\_382 = 1 not(TMP\_382) = 0 TMP\_383 = 1 not(TMP\_383) = 0 TMP\_384 = 1 not(TMP\_384) = 0 TMP\_385 = 1 not(TMP\_385) = 0 TMP\_386 = 5 TMP\_387 = 0 not(TMP\_387) = 1 TMP\_388 = 0 not(TMP\_388) = 1 TMP\_389 = 0 TMP\_390 = 1 not(TMP\_390) = 0 TMP\_391 = 1 not(TMP\_391) = 0 TMP\_392 = 2 TMP\_393 = 0 not(TMP\_393) = 1 TMP\_394 = 0 not(TMP\_394) = 1 TMP\_395 = 1 not(TMP\_395) = 0 TMP\_396 = 1 not(TMP\_396) = 0 TMP\_397 = 1 not(TMP\_397) = 0 TMP\_398 = 2 TMP\_399 = 1 not(TMP\_399) = 0 TMP\_400 = 0 not(TMP\_400) = 1 TMP\_401 = 1 not(TMP\_401) = 0 TMP\_402 = 1 not(TMP\_402) = 0 TMP\_403 = 1 not(TMP\_403) = 0 TMP\_404 = 1 not(TMP\_404) = 0 TMP\_405 = 5 TMP\_406 = 0 not(TMP\_406) = 1 TMP\_407 = 0 not(TMP\_407) = 1 TMP\_408 = 0 TMP\_409 = 1 not(TMP\_409) = 0 TMP\_410 = 1 not(TMP\_410) = 0 TMP\_411 = 2 TMP\_412 = 0 not(TMP\_412) = 1 TMP\_413 = 0 not(TMP\_413) = 1 TMP\_414 = 1 not(TMP\_414) = 0 TMP\_415 = 1 not(TMP\_415) = 0 TMP\_416 = 1 not(TMP\_416) = 0 TMP\_417 = 2 TMP\_418 = 1 not(TMP\_418) = 0 TMP\_419 = 0 not(TMP\_419) = 1 TMP\_420 = 1 not(TMP\_420) = 0 TMP\_421 = 1 not(TMP\_421) = 0 TMP\_422 = 1 not(TMP\_422) = 0 TMP\_423 = 1 not(TMP\_423) = 0 TMP\_424 = 5 TMP\_425 = 0 not(TMP\_425) = 1 TMP\_426 = 0 not(TMP\_426) = 1 TMP\_427 = 0 TMP\_428 = 1 not(TMP\_428) = 0 TMP\_429 = 1 not(TMP\_429) = 0 TMP\_430 = 2 TMP\_431 = 0 not(TMP\_431) = 1 TMP\_432 = 0 not(TMP\_432) = 1 TMP\_433 = 1 not(TMP\_433) = 0 TMP\_434 = 1 not(TMP\_434) = 0 TMP\_435 = 1 not(TMP\_435) = 0 TMP\_436 = 2 TMP\_437 = 1 not(TMP\_437) = 0 TMP\_438 = 0 not(TMP\_438) = 1 TMP\_439 = 1 not(TMP\_439) = 0 TMP\_440 = 1 not(TMP\_440) = 0 TMP\_441 = 1 not(TMP\_441) = 0 TMP\_442 = 0 not(TMP\_442) = 1 TMP\_443 = 4 TMP\_444 = 0 not(TMP\_444) = 1 TMP\_445 = 0 not(TMP\_445) = 1 TMP\_446 = 0 TMP\_447 = 1 not(TMP\_447) = 0 TMP\_448 = 1 not(TMP\_448) = 0 TMP\_449 = 2 TMP\_450 = 0 not(TMP\_450) = 1 TMP\_451 = 0 not(TMP\_451) = 1 TMP\_452 = 1 not(TMP\_452) = 0 TMP\_453 = 1 not(TMP\_453) = 0 TMP\_454 = 1 not(TMP\_454) = 0 TMP\_455 = 2 TMP\_456 = 1 not(TMP\_456) = 0 TMP\_457 = 0 not(TMP\_457) = 1 TMP\_458 = 1 not(TMP\_458) = 0 TMP\_459 = 1 not(TMP\_459) = 0 TMP\_460 = 1 not(TMP\_460) = 0 TMP\_461 = 0 not(TMP\_461) = 1 TMP\_462 = 4 TMP\_463 = 0 not(TMP\_463) = 1 TMP\_464 = 0 not(TMP\_464) = 1 TMP\_465 = 0 TMP\_466 = 1 not(TMP\_466) = 0 TMP\_467 = 1 not(TMP\_467) = 0 TMP\_468 = 2 TMP\_469 = 0 not(TMP\_469) = 1 TMP\_470 = 0 not(TMP\_470) = 1 TMP\_471 = 1 not(TMP\_471) = 0 TMP\_472 = 1 not(TMP\_472) = 0 TMP\_473 = 1 not(TMP\_473) = 0 TMP\_474 = 2 TMP\_475 = 1 not(TMP\_475) = 0 TMP\_476 = 0 not(TMP\_476) = 1 TMP\_477 = 1 not(TMP\_477) = 0 TMP\_478 = 1 not(TMP\_478) = 0 TMP\_479 = 1 not(TMP\_479) = 0 TMP\_480 = 1 not(TMP\_480) = 0 TMP\_481 = 5 TMP\_482 = 0 not(TMP\_482) = 1 TMP\_483 = 0 not(TMP\_483) = 1 TMP\_484 = 0 TMP\_485 = 1 not(TMP\_485) = 0 TMP\_486 = 1 not(TMP\_486) = 0 TMP\_487 = 2 TMP\_488 = 0 not(TMP\_488) = 1 TMP\_489 = 0 not(TMP\_489) = 1 TMP\_490 = 1 not(TMP\_490) = 0 TMP\_491 = 1 not(TMP\_491) = 0 TMP\_492 = 1 not(TMP\_492) = 0 TMP\_493 = 2 TMP\_494 = 1 not(TMP\_494) = 0 TMP\_495 = 1 not(TMP\_495) = 0 TMP\_496 = 1 not(TMP\_496) = 0 TMP\_497 = 1 not(TMP\_497) = 0 TMP\_498 = 1 not(TMP\_498) = 0 TMP\_499 = 0 not(TMP\_499) = 1 TMP\_500 = 5 TMP\_501 = 0 not(TMP\_501) = 1 TMP\_502 = 0 not(TMP\_502) = 1 TMP\_503 = 0 TMP\_504 = 1 not(TMP\_504) = 0 TMP\_505 = 1 not(TMP\_505) = 0 TMP\_506 = 2 TMP\_507 = 0 not(TMP\_507) = 1 TMP\_508 = 0 not(TMP\_508) = 1 TMP\_509 = 1 not(TMP\_509) = 0 TMP\_510 = 1 not(TMP\_510) = 0 TMP\_511 = 1 not(TMP\_511) = 0 TMP\_512 = 2 TMP\_513 = 0 not(TMP\_513) = 1 TMP\_514 = 1 not(TMP\_514) = 0 TMP\_515 = 1 not(TMP\_515) = 0 TMP\_516 = 1 not(TMP\_516) = 0 TMP\_517 = 1 not(TMP\_517) = 0 TMP\_518 = 1 not(TMP\_518) = 0 TMP\_519 = 5 TMP\_520 = 0 not(TMP\_520) = 1 TMP\_521 = 0 not(TMP\_521) = 1 TMP\_522 = 0 TMP\_523 = 1 not(TMP\_523) = 0 TMP\_524 = 1 not(TMP\_524) = 0 TMP\_525 = 2 TMP\_526 = 0 not(TMP\_526) = 1 TMP\_527 = 0 not(TMP\_527) = 1 TMP\_528 = 1 not(TMP\_528) = 0 TMP\_529 = 1 not(TMP\_529) = 0 TMP\_530 = 1 not(TMP\_530) = 0 TMP\_531 = 2 TMP\_532 = 1 not(TMP\_532) = 0 TMP\_533 = 0 not(TMP\_533) = 1 TMP\_534 = 1 not(TMP\_534) = 0 TMP\_535 = 1 not(TMP\_535) = 0 TMP\_536 = 1 not(TMP\_536) = 0 TMP\_537 = 1 not(TMP\_537) = 0 TMP\_538 = 5 TMP\_539 = 0 not(TMP\_539) = 1 TMP\_540 = 0 not(TMP\_540) = 1 TMP\_541 = 0 TMP\_542 = 1 not(TMP\_542) = 0 TMP\_543 = 1 not(TMP\_543) = 0 TMP\_544 = 2 TMP\_545 = 0 not(TMP\_545) = 1 TMP\_546 = 0 not(TMP\_546) = 1 TMP\_547 = 1 not(TMP\_547) = 0 TMP\_548 = 1 not(TMP\_548) = 0 TMP\_549 = 1 not(TMP\_549) = 0 TMP\_550 = 2 TMP\_551 = 1 not(TMP\_551) = 0 TMP\_552 = 0 not(TMP\_552) = 1 TMP\_553 = 1 not(TMP\_553) = 0 TMP\_554 = 1 not(TMP\_554) = 0 TMP\_555 = 0 not(TMP\_555) = 1 TMP\_556 = 1 not(TMP\_556) = 0 TMP\_557 = 4 TMP\_558 = 0 not(TMP\_558) = 1 TMP\_559 = 0 not(TMP\_559) = 1 TMP\_560 = 0 TMP\_561 = 1 not(TMP\_561) = 0 TMP\_562 = 1 not(TMP\_562) = 0 TMP\_563 = 2 TMP\_564 = 0 not(TMP\_564) = 1 TMP\_565 = 0 not(TMP\_565) = 1 TMP\_566 = 1 not(TMP\_566) = 0 TMP\_567 = 1 not(TMP\_567) = 0 TMP\_568 = 1 not(TMP\_568) = 0 TMP\_569 = 2 TMP\_570 = 1 not(TMP\_570) = 0 TMP\_571 = 0 not(TMP\_571) = 1 TMP\_572 = 1 not(TMP\_572) = 0 TMP\_573 = 1 not(TMP\_573) = 0 TMP\_574 = 0 not(TMP\_574) = 1 TMP\_575 = 1 not(TMP\_575) = 0 TMP\_576 = 4 TMP\_577 = 0 not(TMP\_577) = 1 TMP\_578 = 0 not(TMP\_578) = 1 TMP\_579 = 0 TMP\_580 = 1 not(TMP\_580) = 0 TMP\_581 = 1 not(TMP\_581) = 0 TMP\_582 = 2 TMP\_583 = 0 not(TMP\_583) = 1 TMP\_584 = 0 not(TMP\_584) = 1 TMP\_585 = 1 not(TMP\_585) = 0 TMP\_586 = 1 not(TMP\_586) = 0 TMP\_587 = 1 not(TMP\_587) = 0 TMP\_588 = 2 TMP\_589 = 1 not(TMP\_589) = 0 TMP\_590 = 0 not(TMP\_590) = 1 TMP\_591 = 1 not(TMP\_591) = 0 TMP\_592 = 1 not(TMP\_592) = 0 TMP\_593 = 0 not(TMP\_593) = 1 TMP\_594 = 1 not(TMP\_594) = 0 TMP\_595 = 4 TMP\_596 = 0 not(TMP\_596) = 1 TMP\_597 = 0 not(TMP\_597) = 1 TMP\_598 = 0 TMP\_599 = 1 not(TMP\_599) = 0 TMP\_600 = 1 not(TMP\_600) = 0 TMP\_601 = 2 TMP\_602 = 0 not(TMP\_602) = 1 TMP\_603 = 0 not(TMP\_603) = 1 TMP\_604 = 1 not(TMP\_604) = 0 TMP\_605 = 1 not(TMP\_605) = 0 TMP\_606 = 1 not(TMP\_606) = 0 TMP\_607 = 2 TMP\_608 = 1 not(TMP\_608) = 0 TMP\_609 = 0 not(TMP\_609) = 1 TMP\_610 = 1 not(TMP\_610) = 0 TMP\_611 = 1 not(TMP\_611) = 0 TMP\_612 = 1 not(TMP\_612) = 0 TMP\_613 = 1 not(TMP\_613) = 0 TMP\_614 = 5 TMP\_615 = 0 not(TMP\_615) = 1 TMP\_616 = 0 not(TMP\_616) = 1 TMP\_617 = 0 TMP\_618 = 1 not(TMP\_618) = 0 TMP\_619 = 1 not(TMP\_619) = 0 TMP\_620 = 2 TMP\_621 = 0 not(TMP\_621) = 1 TMP\_622 = 0 not(TMP\_622) = 1 TMP\_623 = 1 not(TMP\_623) = 0 TMP\_624 = 1 not(TMP\_624) = 0 TMP\_625 = 1 not(TMP\_625) = 0 TMP\_626 = 2 TMP\_627 = 1 not(TMP\_627) = 0 TMP\_628 = 0 not(TMP\_628) = 1 TMP\_629 = 1 not(TMP\_629) = 0 TMP\_630 = 1 not(TMP\_630) = 0 TMP\_631 = 1 not(TMP\_631) = 0 TMP\_632 = 1 not(TMP\_632) = 0 TMP\_633 = 5 TMP\_634 = 0 not(TMP\_634) = 1 TMP\_635 = 0 not(TMP\_635) = 1 TMP\_636 = 0 TMP\_637 = 1 not(TMP\_637) = 0 TMP\_638 = 1 not(TMP\_638) = 0 TMP\_639 = 2 TMP\_640 = 0 not(TMP\_640) = 1 TMP\_641 = 0 not(TMP\_641) = 1 TMP\_642 = 1 not(TMP\_642) = 0 TMP\_643 = 1 not(TMP\_643) = 0 TMP\_644 = 1 not(TMP\_644) = 0 TMP\_645 = 2 TMP\_646 = 1 not(TMP\_646) = 0 TMP\_647 = 0 not(TMP\_647) = 1 TMP\_648 = 1 not(TMP\_648) = 0 TMP\_649 = 1 not(TMP\_649) = 0 TMP\_650 = 0 not(TMP\_650) = 1 TMP\_651 = 1 not(TMP\_651) = 0 TMP\_652 = 4 TMP\_653 = 0 not(TMP\_653) = 1 TMP\_654 = 0 not(TMP\_654) = 1 TMP\_655 = 0 TMP\_656 = 1 not(TMP\_656) = 0 TMP\_657 = 1 not(TMP\_657) = 0 TMP\_658 = 2 TMP\_659 = 0 not(TMP\_659) = 1 TMP\_660 = 0 not(TMP\_660) = 1 TMP\_661 = 1 not(TMP\_661) = 0 TMP\_662 = 1 not(TMP\_662) = 0 TMP\_663 = 1 not(TMP\_663) = 0 TMP\_664 = 2 TMP\_665 = 1 not(TMP\_665) = 0 TMP\_666 = 1 not(TMP\_666) = 0 TMP\_667 = 1 not(TMP\_667) = 0 TMP\_668 = 1 not(TMP\_668) = 0 TMP\_669 = 0 not(TMP\_669) = 1 TMP\_670 = 1 not(TMP\_670) = 0 TMP\_671 = 5 TMP\_672 = 0 not(TMP\_672) = 1 TMP\_673 = 0 not(TMP\_673) = 1 TMP\_674 = 0 TMP\_675 = 1 not(TMP\_675) = 0 TMP\_676 = 1 not(TMP\_676) = 0 TMP\_677 = 2 TMP\_678 = 0 not(TMP\_678) = 1 TMP\_679 = 0 not(TMP\_679) = 1 TMP\_680 = 1 not(TMP\_680) = 0 TMP\_681 = 1 not(TMP\_681) = 0 TMP\_682 = 1 not(TMP\_682) = 0 TMP\_683 = 2 Area\_0 = 60 Distance\_0\_Rule\_0 = 20 Distance\_1\_Rule\_0 = 3 Distance\_2\_Rule\_0 = 1 Area\_1 = 174 Distance\_0\_Rule\_1 = 58 Distance\_1\_Rule\_1 = 3 Distance\_2\_Rule\_1 = 1 Area\_2 = 116 Distance\_0\_Rule\_2 = 58 Distance\_1\_Rule\_2 = 2 Distance\_2\_Rule\_2 = 1 Area\_3 = 58 Distance\_0\_Rule\_3 = 58 Distance\_1\_Rule\_3 = 1 Distance\_2\_Rule\_3 = 1 Area\_4 = 120 Distance\_0\_Rule\_4 = 40 Distance\_1\_Rule\_4 = 3 Distance\_2\_Rule\_4 = 1 Area\_5 = 120 Distance\_0\_Rule\_5 = 40 Distance\_1\_Rule\_5 = 3 Distance\_2\_Rule\_5 = 1 Area\_6 = 3 -(Rule\_6\_LB) = -79 Distance\_0\_Rule\_6 = 1 -(Rule\_6\_LB) = 0 Distance\_1\_Rule\_6 = 3 -(Rule\_6\_LB) = -1 Distance\_2\_Rule\_6 = 1 Area\_7 = 3 -(Rule\_7\_LB) = -79 Distance\_0\_Rule\_7 = 1 -(Rule\_7\_LB) = 0 Distance\_1\_Rule\_7 = 3 -(Rule\_7\_LB) = 0 Distance\_2\_Rule\_7 = 1 Area\_8 = 63 -(Rule\_8\_LB) = 0 Distance\_0\_Rule\_8 = 21 -(Rule\_8\_LB) = 0 Distance\_1\_Rule\_8 = 3 -(Rule\_8\_LB) = 0 Distance\_2\_Rule\_8 = 1 Area\_9 = 3 -(Rule\_9\_LB) = -20 Distance\_0\_Rule\_9 = 1 -(Rule\_9\_LB) = 0 Distance\_1\_Rule\_9 = 3 -(Rule\_9\_LB) = -1 Distance\_2\_Rule\_9 = 1 TMP\_684 = 720 .

- Solution #17 found. 17 Solutions, Resolution 1.502s, 740 Nodes (492.8 n/s), 1358 Backtracks, 670 Fails, 0 Restarts

Rule\_6\_LB = 79 Rule\_6\_UB = 80 Rule\_6\_LB = 0 Rule\_6\_UB = 3 Rule\_6\_LB = 1 Rule\_6\_UB = 2 Rule\_7\_LB = 79 Rule\_7\_UB = 80 Rule\_7\_LB = 0 Rule\_7\_UB = 3 Rule\_7\_LB = 0 Rule\_7\_UB = 1 Rule\_8\_LB = 0 Rule\_8\_UB = 21 Rule\_8\_LB = 0 Rule\_8\_UB = 3 Rule\_8\_LB = 0 Rule\_8\_UB = 1 Rule\_9\_LB = 20 Rule\_9\_UB = 21 Rule\_9\_LB = 0 Rule\_9\_UB = 3 Rule\_9\_LB = 1 Rule\_9\_UB = 2 Overlaps\_0\_0 = 0 Overlaps\_0\_1 = 0 Overlaps\_0\_2 = 1 Overlaps\_0\_3 = 0 Overlaps\_0\_4 = 0 Overlaps\_0\_5 = 0 Overlaps\_0\_6 = 0 Overlaps\_0\_7 = 0 Overlaps\_0\_8 = 0 Overlaps\_0\_9 = 0 Overlaps\_1\_0 = 0 Overlaps\_1\_1 = 0 Overlaps\_1\_2 = 0 Overlaps\_1\_3 = 0 Overlaps\_1\_4 = 0 Overlaps\_1\_5 = 0 Overlaps\_1\_6 = 0 Overlaps\_1\_7 = 0 Overlaps\_1\_8 = 0 Overlaps\_1\_9 = 0 Overlaps\_2\_0 = 0 Overlaps\_2\_1 = 0 Overlaps\_2\_2 = 0 Overlaps\_2\_3 = 0 Overlaps\_2\_4 = 0 Overlaps\_2\_5 = 0 Overlaps\_2\_6 = 0 Overlaps\_2\_7 = 0 Overlaps\_2\_8 = 0 Overlaps\_2\_9 = 0 Overlaps\_3\_0 = 0 Overlaps\_3\_1 = 0 Overlaps\_3\_2 = 0 Overlaps\_3\_3 = 0 Overlaps\_3\_4 = 0 Overlaps\_3\_5 = 0 Overlaps\_3\_6 = 0 Overlaps\_3\_7 = 0 Overlaps\_3\_8 = 0 Overlaps\_3\_9 = 0 Overlaps\_4\_0 = 0 Overlaps\_4\_1 = 0 Overlaps\_4\_2 = 0 Overlaps\_4\_3 = 0 Overlaps\_4\_4 = 0 Overlaps\_4\_5 = 0 Overlaps\_4\_6 = 0 Overlaps\_4\_7 = 0 Overlaps\_4\_8 = 0 Overlaps\_4\_9 = 0 Overlaps\_5\_0 = 0 Overlaps\_5\_1 = 0 Overlaps\_5\_2 = 0 Overlaps\_5\_3 = 0 Overlaps\_5\_4 = 0 Overlaps\_5\_5 = 0 Overlaps\_5\_6 = 0 Overlaps\_5\_7 = 0 Overlaps\_5\_8 = 0 Overlaps\_5\_9 = 0 Overlaps\_6\_0 = 0 Overlaps\_6\_1 = 0 Overlaps\_6\_2 = 0 Overlaps\_6\_3 = 0 Overlaps\_6\_4 = 0 Overlaps\_6\_5 = 0 Overlaps\_6\_6 = 0 Overlaps\_6\_7 = 0 Overlaps\_6\_8 = 0 Overlaps\_6\_9 = 0 Overlaps\_7\_0 = 0 Overlaps\_7\_1 = 0 Overlaps\_7\_2 = 0 Overlaps\_7\_3 = 0 Overlaps\_7\_4 = 0 Overlaps\_7\_5 = 0 Overlaps\_7\_6 = 0 Overlaps\_7\_7 = 0 Overlaps\_7\_8 = 0 Overlaps\_7\_9 = 0 Overlaps\_8\_0 = 0 Overlaps\_8\_1 = 0 Overlaps\_8\_2 = 0 Overlaps\_8\_3 = 0 Overlaps\_8\_4 = 0 Overlaps\_8\_5 = 0 Overlaps\_8\_6 = 0 Overlaps\_8\_7 = 0 Overlaps\_8\_8 = 0 Overlaps\_8\_9 = 0 Overlaps\_9\_0 = 0 Overlaps\_9\_1 = 0 Overlaps\_9\_2 = 0 Overlaps\_9\_3 = 0 Overlaps\_9\_4 = 0 Overlaps\_9\_5 = 0 Overlaps\_9\_6 = 0 Overlaps\_9\_7 = 0 Overlaps\_9\_8 = 0 Overlaps\_9\_9 = 0 TMP\_0 = 0 not(TMP\_0) = 1 TMP\_1 = 1 not(TMP\_1) = 0 TMP\_2 = 1 not(TMP\_2) = 0 TMP\_3 = 1 not(TMP\_3) = 0 TMP\_4 = 1 not(TMP\_4) = 0 TMP\_5 = 1 not(TMP\_5) = 0 TMP\_6 = 5 TMP\_7 = 0 not(TMP\_7) = 1 TMP\_8 = 0 not(TMP\_8) = 1 TMP\_9 = 0 TMP\_10 = 1 not(TMP\_10) = 0 TMP\_11 = 1 not(TMP\_11) = 0 TMP\_12 = 2 TMP\_13 = 0 not(TMP\_13) = 1 TMP\_14 = 0 not(TMP\_14) = 1 TMP\_15 = 1 not(TMP\_15) = 0 TMP\_16 = 1 not(TMP\_16) = 0 TMP\_17 = 1 not(TMP\_17) = 0 TMP\_18 = 2 TMP\_19 = 0 not(TMP\_19) = 1 TMP\_20 = 1 not(TMP\_20) = 0 TMP\_21 = 1 not(TMP\_21) = 0 TMP\_22 = 1 not(TMP\_22) = 0 TMP\_23 = 1 not(TMP\_23) = 0 TMP\_24 = 1 not(TMP\_24) = 0 TMP\_25 = 5 TMP\_26 = 0 not(TMP\_26) = 1 TMP\_27 = 0 not(TMP\_27) = 1 TMP\_28 = 0 TMP\_29 = 1 not(TMP\_29) = 0 TMP\_30 = 1 not(TMP\_30) = 0 TMP\_31 = 2 TMP\_32 = 0 not(TMP\_32) = 1 TMP\_33 = 0 not(TMP\_33) = 1 TMP\_34 = 1 not(TMP\_34) = 0 TMP\_35 = 1 not(TMP\_35) = 0 TMP\_36 = 1 not(TMP\_36) = 0 TMP\_37 = 2 TMP\_38 = 0 not(TMP\_38) = 1 TMP\_39 = 1 not(TMP\_39) = 0 TMP\_40 = 1 not(TMP\_40) = 0 TMP\_41 = 1 not(TMP\_41) = 0 TMP\_42 = 0 not(TMP\_42) = 1 TMP\_43 = 1 not(TMP\_43) = 0 TMP\_44 = 4 TMP\_45 = 0 not(TMP\_45) = 1 TMP\_46 = 0 not(TMP\_46) = 1 TMP\_47 = 0 TMP\_48 = 1 not(TMP\_48) = 0 TMP\_49 = 1 not(TMP\_49) = 0 TMP\_50 = 2 TMP\_51 = 0 not(TMP\_51) = 1 TMP\_52 = 0 not(TMP\_52) = 1 TMP\_53 = 1 not(TMP\_53) = 0 TMP\_54 = 1 not(TMP\_54) = 0 TMP\_55 = 1 not(TMP\_55) = 0 TMP\_56 = 2 TMP\_57 = 0 not(TMP\_57) = 1 TMP\_58 = 1 not(TMP\_58) = 0 TMP\_59 = 1 not(TMP\_59) = 0 TMP\_60 = 1 not(TMP\_60) = 0 TMP\_61 = 0 not(TMP\_61) = 1 TMP\_62 = 1 not(TMP\_62) = 0 TMP\_63 = 4 TMP\_64 = 0 not(TMP\_64) = 1 TMP\_65 = 0 not(TMP\_65) = 1 TMP\_66 = 0 TMP\_67 = 1 not(TMP\_67) = 0 TMP\_68 = 1 not(TMP\_68) = 0 TMP\_69 = 2 TMP\_70 = 0 not(TMP\_70) = 1 TMP\_71 = 0 not(TMP\_71) = 1 TMP\_72 = 1 not(TMP\_72) = 0 TMP\_73 = 1 not(TMP\_73) = 0 TMP\_74 = 1 not(TMP\_74) = 0 TMP\_75 = 2 TMP\_76 = 1 not(TMP\_76) = 0 TMP\_77 = 0 not(TMP\_77) = 1 TMP\_78 = 1 not(TMP\_78) = 0 TMP\_79 = 1 not(TMP\_79) = 0 TMP\_80 = 0 not(TMP\_80) = 1 TMP\_81 = 1 not(TMP\_81) = 0 TMP\_82 = 4 TMP\_83 = 0 not(TMP\_83) = 1 TMP\_84 = 0 not(TMP\_84) = 1 TMP\_85 = 0 TMP\_86 = 1 not(TMP\_86) = 0 TMP\_87 = 1 not(TMP\_87) = 0 TMP\_88 = 2 TMP\_89 = 0 not(TMP\_89) = 1 TMP\_90 = 0 not(TMP\_90) = 1 TMP\_91 = 1 not(TMP\_91) = 0 TMP\_92 = 1 not(TMP\_92) = 0 TMP\_93 = 1 not(TMP\_93) = 0 TMP\_94 = 2 TMP\_95 = 1 not(TMP\_95) = 0 TMP\_96 = 0 not(TMP\_96) = 1 TMP\_97 = 1 not(TMP\_97) = 0 TMP\_98 = 1 not(TMP\_98) = 0 TMP\_99 = 1 not(TMP\_99) = 0 TMP\_100 = 1 not(TMP\_100) = 0 TMP\_101 = 5 TMP\_102 = 0 not(TMP\_102) = 1 TMP\_103 = 0 not(TMP\_103) = 1 TMP\_104 = 0 TMP\_105 = 1 not(TMP\_105) = 0 TMP\_106 = 1 not(TMP\_106) = 0 TMP\_107 = 2 TMP\_108 = 0 not(TMP\_108) = 1 TMP\_109 = 0 not(TMP\_109) = 1 TMP\_110 = 1 not(TMP\_110) = 0 TMP\_111 = 1 not(TMP\_111) = 0 TMP\_112 = 1 not(TMP\_112) = 0 TMP\_113 = 2 TMP\_114 = 1 not(TMP\_114) = 0 TMP\_115 = 1 not(TMP\_115) = 0 TMP\_116 = 1 not(TMP\_116) = 0 TMP\_117 = 1 not(TMP\_117) = 0 TMP\_118 = 0 not(TMP\_118) = 1 TMP\_119 = 1 not(TMP\_119) = 0 TMP\_120 = 5 TMP\_121 = 0 not(TMP\_121) = 1 TMP\_122 = 0 not(TMP\_122) = 1 TMP\_123 = 0 TMP\_124 = 1 not(TMP\_124) = 0 TMP\_125 = 1 not(TMP\_125) = 0 TMP\_126 = 2 TMP\_127 = 0 not(TMP\_127) = 1 TMP\_128 = 0 not(TMP\_128) = 1 TMP\_129 = 1 not(TMP\_129) = 0 TMP\_130 = 1 not(TMP\_130) = 0 TMP\_131 = 1 not(TMP\_131) = 0 TMP\_132 = 2 TMP\_133 = 0 not(TMP\_133) = 1 TMP\_134 = 1 not(TMP\_134) = 0 TMP\_135 = 1 not(TMP\_135) = 0 TMP\_136 = 1 not(TMP\_136) = 0 TMP\_137 = 0 not(TMP\_137) = 1 TMP\_138 = 1 not(TMP\_138) = 0 TMP\_139 = 4 TMP\_140 = 0 not(TMP\_140) = 1 TMP\_141 = 0 not(TMP\_141) = 1 TMP\_142 = 0 TMP\_143 = 1 not(TMP\_143) = 0 TMP\_144 = 1 not(TMP\_144) = 0 TMP\_145 = 2 TMP\_146 = 0 not(TMP\_146) = 1 TMP\_147 = 0 not(TMP\_147) = 1 TMP\_148 = 1 not(TMP\_148) = 0 TMP\_149 = 1 not(TMP\_149) = 0 TMP\_150 = 1 not(TMP\_150) = 0 TMP\_151 = 2 TMP\_152 = 0 not(TMP\_152) = 1 TMP\_153 = 1 not(TMP\_153) = 0 TMP\_154 = 1 not(TMP\_154) = 0 TMP\_155 = 1 not(TMP\_155) = 0 TMP\_156 = 1 not(TMP\_156) = 0 TMP\_157 = 1 not(TMP\_157) = 0 TMP\_158 = 5 TMP\_159 = 0 not(TMP\_159) = 1 TMP\_160 = 0 not(TMP\_160) = 1 TMP\_161 = 0 TMP\_162 = 1 not(TMP\_162) = 0 TMP\_163 = 1 not(TMP\_163) = 0 TMP\_164 = 2 TMP\_165 = 0 not(TMP\_165) = 1 TMP\_166 = 0 not(TMP\_166) = 1 TMP\_167 = 1 not(TMP\_167) = 0 TMP\_168 = 1 not(TMP\_168) = 0 TMP\_169 = 1 not(TMP\_169) = 0 TMP\_170 = 2 TMP\_171 = 0 not(TMP\_171) = 1 TMP\_172 = 1 not(TMP\_172) = 0 TMP\_173 = 1 not(TMP\_173) = 0 TMP\_174 = 1 not(TMP\_174) = 0 TMP\_175 = 1 not(TMP\_175) = 0 TMP\_176 = 0 not(TMP\_176) = 1 TMP\_177 = 4 TMP\_178 = 0 not(TMP\_178) = 1 TMP\_179 = 0 not(TMP\_179) = 1 TMP\_180 = 0 TMP\_181 = 1 not(TMP\_181) = 0 TMP\_182 = 1 not(TMP\_182) = 0 TMP\_183 = 2 TMP\_184 = 0 not(TMP\_184) = 1 TMP\_185 = 0 not(TMP\_185) = 1 TMP\_186 = 1 not(TMP\_186) = 0 TMP\_187 = 1 not(TMP\_187) = 0 TMP\_188 = 1 not(TMP\_188) = 0 TMP\_189 = 2 TMP\_190 = 0 not(TMP\_190) = 1 TMP\_191 = 1 not(TMP\_191) = 0 TMP\_192 = 1 not(TMP\_192) = 0 TMP\_193 = 1 not(TMP\_193) = 0 TMP\_194 = 1 not(TMP\_194) = 0 TMP\_195 = 0 not(TMP\_195) = 1 TMP\_196 = 4 TMP\_197 = 0 not(TMP\_197) = 1 TMP\_198 = 0 not(TMP\_198) = 1 TMP\_199 = 0 TMP\_200 = 1 not(TMP\_200) = 0 TMP\_201 = 1 not(TMP\_201) = 0 TMP\_202 = 2 TMP\_203 = 0 not(TMP\_203) = 1 TMP\_204 = 0 not(TMP\_204) = 1 TMP\_205 = 1 not(TMP\_205) = 0 TMP\_206 = 1 not(TMP\_206) = 0 TMP\_207 = 1 not(TMP\_207) = 0 TMP\_208 = 2 TMP\_209 = 0 not(TMP\_209) = 1 TMP\_210 = 1 not(TMP\_210) = 0 TMP\_211 = 1 not(TMP\_211) = 0 TMP\_212 = 1 not(TMP\_212) = 0 TMP\_213 = 1 not(TMP\_213) = 0 TMP\_214 = 1 not(TMP\_214) = 0 TMP\_215 = 5 TMP\_216 = 0 not(TMP\_216) = 1 TMP\_217 = 0 not(TMP\_217) = 1 TMP\_218 = 0 TMP\_219 = 1 not(TMP\_219) = 0 TMP\_220 = 1 not(TMP\_220) = 0 TMP\_221 = 2 TMP\_222 = 0 not(TMP\_222) = 1 TMP\_223 = 0 not(TMP\_223) = 1 TMP\_224 = 1 not(TMP\_224) = 0 TMP\_225 = 1 not(TMP\_225) = 0 TMP\_226 = 1 not(TMP\_226) = 0 TMP\_227 = 2 TMP\_228 = 0 not(TMP\_228) = 1 TMP\_229 = 1 not(TMP\_229) = 0 TMP\_230 = 1 not(TMP\_230) = 0 TMP\_231 = 1 not(TMP\_231) = 0 TMP\_232 = 1 not(TMP\_232) = 0 TMP\_233 = 1 not(TMP\_233) = 0 TMP\_234 = 5 TMP\_235 = 0 not(TMP\_235) = 1 TMP\_236 = 0 not(TMP\_236) = 1 TMP\_237 = 0 TMP\_238 = 1 not(TMP\_238) = 0 TMP\_239 = 1 not(TMP\_239) = 0 TMP\_240 = 2 TMP\_241 = 0 not(TMP\_241) = 1 TMP\_242 = 0 not(TMP\_242) = 1 TMP\_243 = 1 not(TMP\_243) = 0 TMP\_244 = 1 not(TMP\_244) = 0 TMP\_245 = 1 not(TMP\_245) = 0 TMP\_246 = 2 TMP\_247 = 1 not(TMP\_247) = 0 TMP\_248 = 0 not(TMP\_248) = 1 TMP\_249 = 1 not(TMP\_249) = 0 TMP\_250 = 1 not(TMP\_250) = 0 TMP\_251 = 1 not(TMP\_251) = 0 TMP\_252 = 1 not(TMP\_252) = 0 TMP\_253 = 5 TMP\_254 = 0 not(TMP\_254) = 1 TMP\_255 = 0 not(TMP\_255) = 1 TMP\_256 = 0 TMP\_257 = 1 not(TMP\_257) = 0 TMP\_258 = 1 not(TMP\_258) = 0 TMP\_259 = 2 TMP\_260 = 0 not(TMP\_260) = 1 TMP\_261 = 0 not(TMP\_261) = 1 TMP\_262 = 1 not(TMP\_262) = 0 TMP\_263 = 1 not(TMP\_263) = 0 TMP\_264 = 1 not(TMP\_264) = 0 TMP\_265 = 2 TMP\_266 = 1 not(TMP\_266) = 0 TMP\_267 = 0 not(TMP\_267) = 1 TMP\_268 = 1 not(TMP\_268) = 0 TMP\_269 = 1 not(TMP\_269) = 0 TMP\_270 = 1 not(TMP\_270) = 0 TMP\_271 = 0 not(TMP\_271) = 1 TMP\_272 = 4 TMP\_273 = 0 not(TMP\_273) = 1 TMP\_274 = 0 not(TMP\_274) = 1 TMP\_275 = 0 TMP\_276 = 1 not(TMP\_276) = 0 TMP\_277 = 1 not(TMP\_277) = 0 TMP\_278 = 2 TMP\_279 = 0 not(TMP\_279) = 1 TMP\_280 = 0 not(TMP\_280) = 1 TMP\_281 = 1 not(TMP\_281) = 0 TMP\_282 = 1 not(TMP\_282) = 0 TMP\_283 = 1 not(TMP\_283) = 0 TMP\_284 = 2 TMP\_285 = 1 not(TMP\_285) = 0 TMP\_286 = 1 not(TMP\_286) = 0 TMP\_287 = 1 not(TMP\_287) = 0 TMP\_288 = 1 not(TMP\_288) = 0 TMP\_289 = 1 not(TMP\_289) = 0 TMP\_290 = 0 not(TMP\_290) = 1 TMP\_291 = 5 TMP\_292 = 0 not(TMP\_292) = 1 TMP\_293 = 0 not(TMP\_293) = 1 TMP\_294 = 0 TMP\_295 = 1 not(TMP\_295) = 0 TMP\_296 = 1 not(TMP\_296) = 0 TMP\_297 = 2 TMP\_298 = 0 not(TMP\_298) = 1 TMP\_299 = 0 not(TMP\_299) = 1 TMP\_300 = 1 not(TMP\_300) = 0 TMP\_301 = 1 not(TMP\_301) = 0 TMP\_302 = 1 not(TMP\_302) = 0 TMP\_303 = 2 TMP\_304 = 0 not(TMP\_304) = 1 TMP\_305 = 1 not(TMP\_305) = 0 TMP\_306 = 1 not(TMP\_306) = 0 TMP\_307 = 1 not(TMP\_307) = 0 TMP\_308 = 1 not(TMP\_308) = 0 TMP\_309 = 1 not(TMP\_309) = 0 TMP\_310 = 5 TMP\_311 = 0 not(TMP\_311) = 1 TMP\_312 = 0 not(TMP\_312) = 1 TMP\_313 = 0 TMP\_314 = 1 not(TMP\_314) = 0 TMP\_315 = 1 not(TMP\_315) = 0 TMP\_316 = 2 TMP\_317 = 0 not(TMP\_317) = 1 TMP\_318 = 0 not(TMP\_318) = 1 TMP\_319 = 1 not(TMP\_319) = 0 TMP\_320 = 1 not(TMP\_320) = 0 TMP\_321 = 1 not(TMP\_321) = 0 TMP\_322 = 2 TMP\_323 = 0 not(TMP\_323) = 1 TMP\_324 = 1 not(TMP\_324) = 0 TMP\_325 = 1 not(TMP\_325) = 0 TMP\_326 = 1 not(TMP\_326) = 0 TMP\_327 = 1 not(TMP\_327) = 0 TMP\_328 = 0 not(TMP\_328) = 1 TMP\_329 = 4 TMP\_330 = 0 not(TMP\_330) = 1 TMP\_331 = 0 not(TMP\_331) = 1 TMP\_332 = 0 TMP\_333 = 1 not(TMP\_333) = 0 TMP\_334 = 1 not(TMP\_334) = 0 TMP\_335 = 2 TMP\_336 = 0 not(TMP\_336) = 1 TMP\_337 = 0 not(TMP\_337) = 1 TMP\_338 = 1 not(TMP\_338) = 0 TMP\_339 = 1 not(TMP\_339) = 0 TMP\_340 = 1 not(TMP\_340) = 0 TMP\_341 = 2 TMP\_342 = 1 not(TMP\_342) = 0 TMP\_343 = 1 not(TMP\_343) = 0 TMP\_344 = 1 not(TMP\_344) = 0 TMP\_345 = 1 not(TMP\_345) = 0 TMP\_346 = 1 not(TMP\_346) = 0 TMP\_347 = 0 not(TMP\_347) = 1 TMP\_348 = 5 TMP\_349 = 0 not(TMP\_349) = 1 TMP\_350 = 0 not(TMP\_350) = 1 TMP\_351 = 0 TMP\_352 = 1 not(TMP\_352) = 0 TMP\_353 = 1 not(TMP\_353) = 0 TMP\_354 = 2 TMP\_355 = 0 not(TMP\_355) = 1 TMP\_356 = 0 not(TMP\_356) = 1 TMP\_357 = 1 not(TMP\_357) = 0 TMP\_358 = 1 not(TMP\_358) = 0 TMP\_359 = 1 not(TMP\_359) = 0 TMP\_360 = 2 TMP\_361 = 1 not(TMP\_361) = 0 TMP\_362 = 0 not(TMP\_362) = 1 TMP\_363 = 1 not(TMP\_363) = 0 TMP\_364 = 1 not(TMP\_364) = 0 TMP\_365 = 1 not(TMP\_365) = 0 TMP\_366 = 0 not(TMP\_366) = 1 TMP\_367 = 4 TMP\_368 = 0 not(TMP\_368) = 1 TMP\_369 = 0 not(TMP\_369) = 1 TMP\_370 = 0 TMP\_371 = 1 not(TMP\_371) = 0 TMP\_372 = 1 not(TMP\_372) = 0 TMP\_373 = 2 TMP\_374 = 0 not(TMP\_374) = 1 TMP\_375 = 0 not(TMP\_375) = 1 TMP\_376 = 1 not(TMP\_376) = 0 TMP\_377 = 1 not(TMP\_377) = 0 TMP\_378 = 1 not(TMP\_378) = 0 TMP\_379 = 2 TMP\_380 = 1 not(TMP\_380) = 0 TMP\_381 = 0 not(TMP\_381) = 1 TMP\_382 = 1 not(TMP\_382) = 0 TMP\_383 = 1 not(TMP\_383) = 0 TMP\_384 = 1 not(TMP\_384) = 0 TMP\_385 = 1 not(TMP\_385) = 0 TMP\_386 = 5 TMP\_387 = 0 not(TMP\_387) = 1 TMP\_388 = 0 not(TMP\_388) = 1 TMP\_389 = 0 TMP\_390 = 1 not(TMP\_390) = 0 TMP\_391 = 1 not(TMP\_391) = 0 TMP\_392 = 2 TMP\_393 = 0 not(TMP\_393) = 1 TMP\_394 = 0 not(TMP\_394) = 1 TMP\_395 = 1 not(TMP\_395) = 0 TMP\_396 = 1 not(TMP\_396) = 0 TMP\_397 = 1 not(TMP\_397) = 0 TMP\_398 = 2 TMP\_399 = 1 not(TMP\_399) = 0 TMP\_400 = 0 not(TMP\_400) = 1 TMP\_401 = 1 not(TMP\_401) = 0 TMP\_402 = 1 not(TMP\_402) = 0 TMP\_403 = 1 not(TMP\_403) = 0 TMP\_404 = 1 not(TMP\_404) = 0 TMP\_405 = 5 TMP\_406 = 0 not(TMP\_406) = 1 TMP\_407 = 0 not(TMP\_407) = 1 TMP\_408 = 0 TMP\_409 = 1 not(TMP\_409) = 0 TMP\_410 = 1 not(TMP\_410) = 0 TMP\_411 = 2 TMP\_412 = 0 not(TMP\_412) = 1 TMP\_413 = 0 not(TMP\_413) = 1 TMP\_414 = 1 not(TMP\_414) = 0 TMP\_415 = 1 not(TMP\_415) = 0 TMP\_416 = 1 not(TMP\_416) = 0 TMP\_417 = 2 TMP\_418 = 1 not(TMP\_418) = 0 TMP\_419 = 0 not(TMP\_419) = 1 TMP\_420 = 1 not(TMP\_420) = 0 TMP\_421 = 1 not(TMP\_421) = 0 TMP\_422 = 1 not(TMP\_422) = 0 TMP\_423 = 1 not(TMP\_423) = 0 TMP\_424 = 5 TMP\_425 = 0 not(TMP\_425) = 1 TMP\_426 = 0 not(TMP\_426) = 1 TMP\_427 = 0 TMP\_428 = 1 not(TMP\_428) = 0 TMP\_429 = 1 not(TMP\_429) = 0 TMP\_430 = 2 TMP\_431 = 0 not(TMP\_431) = 1 TMP\_432 = 0 not(TMP\_432) = 1 TMP\_433 = 1 not(TMP\_433) = 0 TMP\_434 = 1 not(TMP\_434) = 0 TMP\_435 = 1 not(TMP\_435) = 0 TMP\_436 = 2 TMP\_437 = 1 not(TMP\_437) = 0 TMP\_438 = 0 not(TMP\_438) = 1 TMP\_439 = 1 not(TMP\_439) = 0 TMP\_440 = 1 not(TMP\_440) = 0 TMP\_441 = 1 not(TMP\_441) = 0 TMP\_442 = 0 not(TMP\_442) = 1 TMP\_443 = 4 TMP\_444 = 0 not(TMP\_444) = 1 TMP\_445 = 0 not(TMP\_445) = 1 TMP\_446 = 0 TMP\_447 = 1 not(TMP\_447) = 0 TMP\_448 = 1 not(TMP\_448) = 0 TMP\_449 = 2 TMP\_450 = 0 not(TMP\_450) = 1 TMP\_451 = 0 not(TMP\_451) = 1 TMP\_452 = 1 not(TMP\_452) = 0 TMP\_453 = 1 not(TMP\_453) = 0 TMP\_454 = 1 not(TMP\_454) = 0 TMP\_455 = 2 TMP\_456 = 1 not(TMP\_456) = 0 TMP\_457 = 0 not(TMP\_457) = 1 TMP\_458 = 1 not(TMP\_458) = 0 TMP\_459 = 1 not(TMP\_459) = 0 TMP\_460 = 1 not(TMP\_460) = 0 TMP\_461 = 0 not(TMP\_461) = 1 TMP\_462 = 4 TMP\_463 = 0 not(TMP\_463) = 1 TMP\_464 = 0 not(TMP\_464) = 1 TMP\_465 = 0 TMP\_466 = 1 not(TMP\_466) = 0 TMP\_467 = 1 not(TMP\_467) = 0 TMP\_468 = 2 TMP\_469 = 0 not(TMP\_469) = 1 TMP\_470 = 0 not(TMP\_470) = 1 TMP\_471 = 1 not(TMP\_471) = 0 TMP\_472 = 1 not(TMP\_472) = 0 TMP\_473 = 1 not(TMP\_473) = 0 TMP\_474 = 2 TMP\_475 = 1 not(TMP\_475) = 0 TMP\_476 = 0 not(TMP\_476) = 1 TMP\_477 = 1 not(TMP\_477) = 0 TMP\_478 = 1 not(TMP\_478) = 0 TMP\_479 = 1 not(TMP\_479) = 0 TMP\_480 = 1 not(TMP\_480) = 0 TMP\_481 = 5 TMP\_482 = 0 not(TMP\_482) = 1 TMP\_483 = 0 not(TMP\_483) = 1 TMP\_484 = 0 TMP\_485 = 1 not(TMP\_485) = 0 TMP\_486 = 1 not(TMP\_486) = 0 TMP\_487 = 2 TMP\_488 = 0 not(TMP\_488) = 1 TMP\_489 = 0 not(TMP\_489) = 1 TMP\_490 = 1 not(TMP\_490) = 0 TMP\_491 = 1 not(TMP\_491) = 0 TMP\_492 = 1 not(TMP\_492) = 0 TMP\_493 = 2 TMP\_494 = 1 not(TMP\_494) = 0 TMP\_495 = 1 not(TMP\_495) = 0 TMP\_496 = 1 not(TMP\_496) = 0 TMP\_497 = 1 not(TMP\_497) = 0 TMP\_498 = 1 not(TMP\_498) = 0 TMP\_499 = 0 not(TMP\_499) = 1 TMP\_500 = 5 TMP\_501 = 0 not(TMP\_501) = 1 TMP\_502 = 0 not(TMP\_502) = 1 TMP\_503 = 0 TMP\_504 = 1 not(TMP\_504) = 0 TMP\_505 = 1 not(TMP\_505) = 0 TMP\_506 = 2 TMP\_507 = 0 not(TMP\_507) = 1 TMP\_508 = 0 not(TMP\_508) = 1 TMP\_509 = 1 not(TMP\_509) = 0 TMP\_510 = 1 not(TMP\_510) = 0 TMP\_511 = 1 not(TMP\_511) = 0 TMP\_512 = 2 TMP\_513 = 0 not(TMP\_513) = 1 TMP\_514 = 1 not(TMP\_514) = 0 TMP\_515 = 1 not(TMP\_515) = 0 TMP\_516 = 1 not(TMP\_516) = 0 TMP\_517 = 1 not(TMP\_517) = 0 TMP\_518 = 1 not(TMP\_518) = 0 TMP\_519 = 5 TMP\_520 = 0 not(TMP\_520) = 1 TMP\_521 = 0 not(TMP\_521) = 1 TMP\_522 = 0 TMP\_523 = 1 not(TMP\_523) = 0 TMP\_524 = 1 not(TMP\_524) = 0 TMP\_525 = 2 TMP\_526 = 0 not(TMP\_526) = 1 TMP\_527 = 0 not(TMP\_527) = 1 TMP\_528 = 1 not(TMP\_528) = 0 TMP\_529 = 1 not(TMP\_529) = 0 TMP\_530 = 1 not(TMP\_530) = 0 TMP\_531 = 2 TMP\_532 = 1 not(TMP\_532) = 0 TMP\_533 = 0 not(TMP\_533) = 1 TMP\_534 = 1 not(TMP\_534) = 0 TMP\_535 = 1 not(TMP\_535) = 0 TMP\_536 = 1 not(TMP\_536) = 0 TMP\_537 = 1 not(TMP\_537) = 0 TMP\_538 = 5 TMP\_539 = 0 not(TMP\_539) = 1 TMP\_540 = 0 not(TMP\_540) = 1 TMP\_541 = 0 TMP\_542 = 1 not(TMP\_542) = 0 TMP\_543 = 1 not(TMP\_543) = 0 TMP\_544 = 2 TMP\_545 = 0 not(TMP\_545) = 1 TMP\_546 = 0 not(TMP\_546) = 1 TMP\_547 = 1 not(TMP\_547) = 0 TMP\_548 = 1 not(TMP\_548) = 0 TMP\_549 = 1 not(TMP\_549) = 0 TMP\_550 = 2 TMP\_551 = 1 not(TMP\_551) = 0 TMP\_552 = 0 not(TMP\_552) = 1 TMP\_553 = 1 not(TMP\_553) = 0 TMP\_554 = 1 not(TMP\_554) = 0 TMP\_555 = 0 not(TMP\_555) = 1 TMP\_556 = 1 not(TMP\_556) = 0 TMP\_557 = 4 TMP\_558 = 0 not(TMP\_558) = 1 TMP\_559 = 0 not(TMP\_559) = 1 TMP\_560 = 0 TMP\_561 = 1 not(TMP\_561) = 0 TMP\_562 = 1 not(TMP\_562) = 0 TMP\_563 = 2 TMP\_564 = 0 not(TMP\_564) = 1 TMP\_565 = 0 not(TMP\_565) = 1 TMP\_566 = 1 not(TMP\_566) = 0 TMP\_567 = 1 not(TMP\_567) = 0 TMP\_568 = 1 not(TMP\_568) = 0 TMP\_569 = 2 TMP\_570 = 1 not(TMP\_570) = 0 TMP\_571 = 0 not(TMP\_571) = 1 TMP\_572 = 1 not(TMP\_572) = 0 TMP\_573 = 1 not(TMP\_573) = 0 TMP\_574 = 0 not(TMP\_574) = 1 TMP\_575 = 1 not(TMP\_575) = 0 TMP\_576 = 4 TMP\_577 = 0 not(TMP\_577) = 1 TMP\_578 = 0 not(TMP\_578) = 1 TMP\_579 = 0 TMP\_580 = 1 not(TMP\_580) = 0 TMP\_581 = 1 not(TMP\_581) = 0 TMP\_582 = 2 TMP\_583 = 0 not(TMP\_583) = 1 TMP\_584 = 0 not(TMP\_584) = 1 TMP\_585 = 1 not(TMP\_585) = 0 TMP\_586 = 1 not(TMP\_586) = 0 TMP\_587 = 1 not(TMP\_587) = 0 TMP\_588 = 2 TMP\_589 = 1 not(TMP\_589) = 0 TMP\_590 = 0 not(TMP\_590) = 1 TMP\_591 = 1 not(TMP\_591) = 0 TMP\_592 = 1 not(TMP\_592) = 0 TMP\_593 = 0 not(TMP\_593) = 1 TMP\_594 = 1 not(TMP\_594) = 0 TMP\_595 = 4 TMP\_596 = 0 not(TMP\_596) = 1 TMP\_597 = 0 not(TMP\_597) = 1 TMP\_598 = 0 TMP\_599 = 1 not(TMP\_599) = 0 TMP\_600 = 1 not(TMP\_600) = 0 TMP\_601 = 2 TMP\_602 = 0 not(TMP\_602) = 1 TMP\_603 = 0 not(TMP\_603) = 1 TMP\_604 = 1 not(TMP\_604) = 0 TMP\_605 = 1 not(TMP\_605) = 0 TMP\_606 = 1 not(TMP\_606) = 0 TMP\_607 = 2 TMP\_608 = 1 not(TMP\_608) = 0 TMP\_609 = 0 not(TMP\_609) = 1 TMP\_610 = 1 not(TMP\_610) = 0 TMP\_611 = 1 not(TMP\_611) = 0 TMP\_612 = 1 not(TMP\_612) = 0 TMP\_613 = 1 not(TMP\_613) = 0 TMP\_614 = 5 TMP\_615 = 0 not(TMP\_615) = 1 TMP\_616 = 0 not(TMP\_616) = 1 TMP\_617 = 0 TMP\_618 = 1 not(TMP\_618) = 0 TMP\_619 = 1 not(TMP\_619) = 0 TMP\_620 = 2 TMP\_621 = 0 not(TMP\_621) = 1 TMP\_622 = 0 not(TMP\_622) = 1 TMP\_623 = 1 not(TMP\_623) = 0 TMP\_624 = 1 not(TMP\_624) = 0 TMP\_625 = 1 not(TMP\_625) = 0 TMP\_626 = 2 TMP\_627 = 1 not(TMP\_627) = 0 TMP\_628 = 0 not(TMP\_628) = 1 TMP\_629 = 1 not(TMP\_629) = 0 TMP\_630 = 1 not(TMP\_630) = 0 TMP\_631 = 1 not(TMP\_631) = 0 TMP\_632 = 1 not(TMP\_632) = 0 TMP\_633 = 5 TMP\_634 = 0 not(TMP\_634) = 1 TMP\_635 = 0 not(TMP\_635) = 1 TMP\_636 = 0 TMP\_637 = 1 not(TMP\_637) = 0 TMP\_638 = 1 not(TMP\_638) = 0 TMP\_639 = 2 TMP\_640 = 0 not(TMP\_640) = 1 TMP\_641 = 0 not(TMP\_641) = 1 TMP\_642 = 1 not(TMP\_642) = 0 TMP\_643 = 1 not(TMP\_643) = 0 TMP\_644 = 1 not(TMP\_644) = 0 TMP\_645 = 2 TMP\_646 = 1 not(TMP\_646) = 0 TMP\_647 = 0 not(TMP\_647) = 1 TMP\_648 = 1 not(TMP\_648) = 0 TMP\_649 = 1 not(TMP\_649) = 0 TMP\_650 = 0 not(TMP\_650) = 1 TMP\_651 = 1 not(TMP\_651) = 0 TMP\_652 = 4 TMP\_653 = 0 not(TMP\_653) = 1 TMP\_654 = 0 not(TMP\_654) = 1 TMP\_655 = 0 TMP\_656 = 1 not(TMP\_656) = 0 TMP\_657 = 1 not(TMP\_657) = 0 TMP\_658 = 2 TMP\_659 = 0 not(TMP\_659) = 1 TMP\_660 = 0 not(TMP\_660) = 1 TMP\_661 = 1 not(TMP\_661) = 0 TMP\_662 = 1 not(TMP\_662) = 0 TMP\_663 = 1 not(TMP\_663) = 0 TMP\_664 = 2 TMP\_665 = 1 not(TMP\_665) = 0 TMP\_666 = 1 not(TMP\_666) = 0 TMP\_667 = 1 not(TMP\_667) = 0 TMP\_668 = 1 not(TMP\_668) = 0 TMP\_669 = 0 not(TMP\_669) = 1 TMP\_670 = 1 not(TMP\_670) = 0 TMP\_671 = 5 TMP\_672 = 0 not(TMP\_672) = 1 TMP\_673 = 0 not(TMP\_673) = 1 TMP\_674 = 0 TMP\_675 = 1 not(TMP\_675) = 0 TMP\_676 = 1 not(TMP\_676) = 0 TMP\_677 = 2 TMP\_678 = 0 not(TMP\_678) = 1 TMP\_679 = 0 not(TMP\_679) = 1 TMP\_680 = 1 not(TMP\_680) = 0 TMP\_681 = 1 not(TMP\_681) = 0 TMP\_682 = 1 not(TMP\_682) = 0 TMP\_683 = 2 Area\_0 = 60 Distance\_0\_Rule\_0 = 20 Distance\_1\_Rule\_0 = 3 Distance\_2\_Rule\_0 = 1 Area\_1 = 174 Distance\_0\_Rule\_1 = 58 Distance\_1\_Rule\_1 = 3 Distance\_2\_Rule\_1 = 1 Area\_2 = 116 Distance\_0\_Rule\_2 = 58 Distance\_1\_Rule\_2 = 2 Distance\_2\_Rule\_2 = 1 Area\_3 = 58 Distance\_0\_Rule\_3 = 58 Distance\_1\_Rule\_3 = 1 Distance\_2\_Rule\_3 = 1 Area\_4 = 120 Distance\_0\_Rule\_4 = 40 Distance\_1\_Rule\_4 = 3 Distance\_2\_Rule\_4 = 1 Area\_5 = 120 Distance\_0\_Rule\_5 = 40 Distance\_1\_Rule\_5 = 3 Distance\_2\_Rule\_5 = 1 Area\_6 = 3 -(Rule\_6\_LB) = -79 Distance\_0\_Rule\_6 = 1 -(Rule\_6\_LB) = 0 Distance\_1\_Rule\_6 = 3 -(Rule\_6\_LB) = -1 Distance\_2\_Rule\_6 = 1 Area\_7 = 3 -(Rule\_7\_LB) = -79 Distance\_0\_Rule\_7 = 1 -(Rule\_7\_LB) = 0 Distance\_1\_Rule\_7 = 3 -(Rule\_7\_LB) = 0 Distance\_2\_Rule\_7 = 1 Area\_8 = 63 -(Rule\_8\_LB) = 0 Distance\_0\_Rule\_8 = 21 -(Rule\_8\_LB) = 0 Distance\_1\_Rule\_8 = 3 -(Rule\_8\_LB) = 0 Distance\_2\_Rule\_8 = 1 Area\_9 = 3 -(Rule\_9\_LB) = -20 Distance\_0\_Rule\_9 = 1 -(Rule\_9\_LB) = 0 Distance\_1\_Rule\_9 = 3 -(Rule\_9\_LB) = -1 Distance\_2\_Rule\_9 = 1 TMP\_684 = 720 .

- Solution #18 found. 18 Solutions, Resolution 1.599s, 741 Nodes (463.5 n/s), 1359 Backtracks, 670 Fails, 0 Restarts

Rule\_6\_LB = 79 Rule\_6\_UB = 80 Rule\_6\_LB = 0 Rule\_6\_UB = 3 Rule\_6\_LB = 1 Rule\_6\_UB = 2 Rule\_7\_LB = 79 Rule\_7\_UB = 80 Rule\_7\_LB = 0 Rule\_7\_UB = 3 Rule\_7\_LB = 0 Rule\_7\_UB = 1 Rule\_8\_LB = 0 Rule\_8\_UB = 21 Rule\_8\_LB = 0 Rule\_8\_UB = 3 Rule\_8\_LB = 0 Rule\_8\_UB = 1 Rule\_9\_LB = 20 Rule\_9\_UB = 21 Rule\_9\_LB = 0 Rule\_9\_UB = 3 Rule\_9\_LB = 1 Rule\_9\_UB = 2 Overlaps\_0\_0 = 0 Overlaps\_0\_1 = 0 Overlaps\_0\_2 = 1 Overlaps\_0\_3 = 0 Overlaps\_0\_4 = 0 Overlaps\_0\_5 = 0 Overlaps\_0\_6 = 0 Overlaps\_0\_7 = 0 Overlaps\_0\_8 = 0 Overlaps\_0\_9 = 0 Overlaps\_1\_0 = 0 Overlaps\_1\_1 = 0 Overlaps\_1\_2 = 0 Overlaps\_1\_3 = 0 Overlaps\_1\_4 = 0 Overlaps\_1\_5 = 0 Overlaps\_1\_6 = 0 Overlaps\_1\_7 = 0 Overlaps\_1\_8 = 0 Overlaps\_1\_9 = 0 Overlaps\_2\_0 = 1 Overlaps\_2\_1 = 0 Overlaps\_2\_2 = 0 Overlaps\_2\_3 = 0 Overlaps\_2\_4 = 0 Overlaps\_2\_5 = 0 Overlaps\_2\_6 = 0 Overlaps\_2\_7 = 0 Overlaps\_2\_8 = 0 Overlaps\_2\_9 = 0 Overlaps\_3\_0 = 0 Overlaps\_3\_1 = 0 Overlaps\_3\_2 = 0 Overlaps\_3\_3 = 0 Overlaps\_3\_4 = 0 Overlaps\_3\_5 = 0 Overlaps\_3\_6 = 0 Overlaps\_3\_7 = 0 Overlaps\_3\_8 = 0 Overlaps\_3\_9 = 0 Overlaps\_4\_0 = 0 Overlaps\_4\_1 = 0 Overlaps\_4\_2 = 0 Overlaps\_4\_3 = 0 Overlaps\_4\_4 = 0 Overlaps\_4\_5 = 0 Overlaps\_4\_6 = 0 Overlaps\_4\_7 = 0 Overlaps\_4\_8 = 0 Overlaps\_4\_9 = 0 Overlaps\_5\_0 = 0 Overlaps\_5\_1 = 0 Overlaps\_5\_2 = 0 Overlaps\_5\_3 = 0 Overlaps\_5\_4 = 0 Overlaps\_5\_5 = 0 Overlaps\_5\_6 = 0 Overlaps\_5\_7 = 0 Overlaps\_5\_8 = 0 Overlaps\_5\_9 = 0 Overlaps\_6\_0 = 0 Overlaps\_6\_1 = 0 Overlaps\_6\_2 = 0 Overlaps\_6\_3 = 0 Overlaps\_6\_4 = 0 Overlaps\_6\_5 = 0 Overlaps\_6\_6 = 0 Overlaps\_6\_7 = 0 Overlaps\_6\_8 = 0 Overlaps\_6\_9 = 0 Overlaps\_7\_0 = 0 Overlaps\_7\_1 = 0 Overlaps\_7\_2 = 0 Overlaps\_7\_3 = 0 Overlaps\_7\_4 = 0 Overlaps\_7\_5 = 0 Overlaps\_7\_6 = 0 Overlaps\_7\_7 = 0 Overlaps\_7\_8 = 0 Overlaps\_7\_9 = 0 Overlaps\_8\_0 = 0 Overlaps\_8\_1 = 0 Overlaps\_8\_2 = 0 Overlaps\_8\_3 = 0 Overlaps\_8\_4 = 0 Overlaps\_8\_5 = 0 Overlaps\_8\_6 = 0 Overlaps\_8\_7 = 0 Overlaps\_8\_8 = 0 Overlaps\_8\_9 = 0 Overlaps\_9\_0 = 0 Overlaps\_9\_1 = 0 Overlaps\_9\_2 = 0 Overlaps\_9\_3 = 0 Overlaps\_9\_4 = 0 Overlaps\_9\_5 = 0 Overlaps\_9\_6 = 0 Overlaps\_9\_7 = 0 Overlaps\_9\_8 = 0 Overlaps\_9\_9 = 0 TMP\_0 = 0 not(TMP\_0) = 1 TMP\_1 = 1 not(TMP\_1) = 0 TMP\_2 = 1 not(TMP\_2) = 0 TMP\_3 = 1 not(TMP\_3) = 0 TMP\_4 = 1 not(TMP\_4) = 0 TMP\_5 = 1 not(TMP\_5) = 0 TMP\_6 = 5 TMP\_7 = 0 not(TMP\_7) = 1 TMP\_8 = 0 not(TMP\_8) = 1 TMP\_9 = 0 TMP\_10 = 1 not(TMP\_10) = 0 TMP\_11 = 1 not(TMP\_11) = 0 TMP\_12 = 2 TMP\_13 = 0 not(TMP\_13) = 1 TMP\_14 = 0 not(TMP\_14) = 1 TMP\_15 = 1 not(TMP\_15) = 0 TMP\_16 = 1 not(TMP\_16) = 0 TMP\_17 = 1 not(TMP\_17) = 0 TMP\_18 = 2 TMP\_19 = 0 not(TMP\_19) = 1 TMP\_20 = 1 not(TMP\_20) = 0 TMP\_21 = 1 not(TMP\_21) = 0 TMP\_22 = 1 not(TMP\_22) = 0 TMP\_23 = 1 not(TMP\_23) = 0 TMP\_24 = 1 not(TMP\_24) = 0 TMP\_25 = 5 TMP\_26 = 0 not(TMP\_26) = 1 TMP\_27 = 0 not(TMP\_27) = 1 TMP\_28 = 0 TMP\_29 = 1 not(TMP\_29) = 0 TMP\_30 = 1 not(TMP\_30) = 0 TMP\_31 = 2 TMP\_32 = 0 not(TMP\_32) = 1 TMP\_33 = 0 not(TMP\_33) = 1 TMP\_34 = 1 not(TMP\_34) = 0 TMP\_35 = 1 not(TMP\_35) = 0 TMP\_36 = 1 not(TMP\_36) = 0 TMP\_37 = 2 TMP\_38 = 0 not(TMP\_38) = 1 TMP\_39 = 1 not(TMP\_39) = 0 TMP\_40 = 1 not(TMP\_40) = 0 TMP\_41 = 1 not(TMP\_41) = 0 TMP\_42 = 0 not(TMP\_42) = 1 TMP\_43 = 1 not(TMP\_43) = 0 TMP\_44 = 4 TMP\_45 = 0 not(TMP\_45) = 1 TMP\_46 = 0 not(TMP\_46) = 1 TMP\_47 = 0 TMP\_48 = 1 not(TMP\_48) = 0 TMP\_49 = 1 not(TMP\_49) = 0 TMP\_50 = 2 TMP\_51 = 0 not(TMP\_51) = 1 TMP\_52 = 0 not(TMP\_52) = 1 TMP\_53 = 1 not(TMP\_53) = 0 TMP\_54 = 1 not(TMP\_54) = 0 TMP\_55 = 1 not(TMP\_55) = 0 TMP\_56 = 2 TMP\_57 = 0 not(TMP\_57) = 1 TMP\_58 = 1 not(TMP\_58) = 0 TMP\_59 = 1 not(TMP\_59) = 0 TMP\_60 = 1 not(TMP\_60) = 0 TMP\_61 = 0 not(TMP\_61) = 1 TMP\_62 = 1 not(TMP\_62) = 0 TMP\_63 = 4 TMP\_64 = 0 not(TMP\_64) = 1 TMP\_65 = 0 not(TMP\_65) = 1 TMP\_66 = 0 TMP\_67 = 1 not(TMP\_67) = 0 TMP\_68 = 1 not(TMP\_68) = 0 TMP\_69 = 2 TMP\_70 = 0 not(TMP\_70) = 1 TMP\_71 = 0 not(TMP\_71) = 1 TMP\_72 = 1 not(TMP\_72) = 0 TMP\_73 = 1 not(TMP\_73) = 0 TMP\_74 = 1 not(TMP\_74) = 0 TMP\_75 = 2 TMP\_76 = 1 not(TMP\_76) = 0 TMP\_77 = 0 not(TMP\_77) = 1 TMP\_78 = 1 not(TMP\_78) = 0 TMP\_79 = 1 not(TMP\_79) = 0 TMP\_80 = 0 not(TMP\_80) = 1 TMP\_81 = 1 not(TMP\_81) = 0 TMP\_82 = 4 TMP\_83 = 0 not(TMP\_83) = 1 TMP\_84 = 0 not(TMP\_84) = 1 TMP\_85 = 0 TMP\_86 = 1 not(TMP\_86) = 0 TMP\_87 = 1 not(TMP\_87) = 0 TMP\_88 = 2 TMP\_89 = 0 not(TMP\_89) = 1 TMP\_90 = 0 not(TMP\_90) = 1 TMP\_91 = 1 not(TMP\_91) = 0 TMP\_92 = 1 not(TMP\_92) = 0 TMP\_93 = 1 not(TMP\_93) = 0 TMP\_94 = 2 TMP\_95 = 1 not(TMP\_95) = 0 TMP\_96 = 0 not(TMP\_96) = 1 TMP\_97 = 1 not(TMP\_97) = 0 TMP\_98 = 1 not(TMP\_98) = 0 TMP\_99 = 1 not(TMP\_99) = 0 TMP\_100 = 1 not(TMP\_100) = 0 TMP\_101 = 5 TMP\_102 = 0 not(TMP\_102) = 1 TMP\_103 = 0 not(TMP\_103) = 1 TMP\_104 = 0 TMP\_105 = 1 not(TMP\_105) = 0 TMP\_106 = 1 not(TMP\_106) = 0 TMP\_107 = 2 TMP\_108 = 0 not(TMP\_108) = 1 TMP\_109 = 0 not(TMP\_109) = 1 TMP\_110 = 1 not(TMP\_110) = 0 TMP\_111 = 1 not(TMP\_111) = 0 TMP\_112 = 1 not(TMP\_112) = 0 TMP\_113 = 2 TMP\_114 = 1 not(TMP\_114) = 0 TMP\_115 = 1 not(TMP\_115) = 0 TMP\_116 = 1 not(TMP\_116) = 0 TMP\_117 = 1 not(TMP\_117) = 0 TMP\_118 = 0 not(TMP\_118) = 1 TMP\_119 = 1 not(TMP\_119) = 0 TMP\_120 = 5 TMP\_121 = 0 not(TMP\_121) = 1 TMP\_122 = 0 not(TMP\_122) = 1 TMP\_123 = 0 TMP\_124 = 1 not(TMP\_124) = 0 TMP\_125 = 1 not(TMP\_125) = 0 TMP\_126 = 2 TMP\_127 = 0 not(TMP\_127) = 1 TMP\_128 = 0 not(TMP\_128) = 1 TMP\_129 = 1 not(TMP\_129) = 0 TMP\_130 = 1 not(TMP\_130) = 0 TMP\_131 = 1 not(TMP\_131) = 0 TMP\_132 = 2 TMP\_133 = 0 not(TMP\_133) = 1 TMP\_134 = 1 not(TMP\_134) = 0 TMP\_135 = 1 not(TMP\_135) = 0 TMP\_136 = 1 not(TMP\_136) = 0 TMP\_137 = 0 not(TMP\_137) = 1 TMP\_138 = 1 not(TMP\_138) = 0 TMP\_139 = 4 TMP\_140 = 0 not(TMP\_140) = 1 TMP\_141 = 0 not(TMP\_141) = 1 TMP\_142 = 0 TMP\_143 = 1 not(TMP\_143) = 0 TMP\_144 = 1 not(TMP\_144) = 0 TMP\_145 = 2 TMP\_146 = 0 not(TMP\_146) = 1 TMP\_147 = 0 not(TMP\_147) = 1 TMP\_148 = 1 not(TMP\_148) = 0 TMP\_149 = 1 not(TMP\_149) = 0 TMP\_150 = 1 not(TMP\_150) = 0 TMP\_151 = 2 TMP\_152 = 0 not(TMP\_152) = 1 TMP\_153 = 1 not(TMP\_153) = 0 TMP\_154 = 1 not(TMP\_154) = 0 TMP\_155 = 1 not(TMP\_155) = 0 TMP\_156 = 1 not(TMP\_156) = 0 TMP\_157 = 1 not(TMP\_157) = 0 TMP\_158 = 5 TMP\_159 = 0 not(TMP\_159) = 1 TMP\_160 = 0 not(TMP\_160) = 1 TMP\_161 = 0 TMP\_162 = 1 not(TMP\_162) = 0 TMP\_163 = 1 not(TMP\_163) = 0 TMP\_164 = 2 TMP\_165 = 0 not(TMP\_165) = 1 TMP\_166 = 0 not(TMP\_166) = 1 TMP\_167 = 1 not(TMP\_167) = 0 TMP\_168 = 1 not(TMP\_168) = 0 TMP\_169 = 1 not(TMP\_169) = 0 TMP\_170 = 2 TMP\_171 = 0 not(TMP\_171) = 1 TMP\_172 = 1 not(TMP\_172) = 0 TMP\_173 = 1 not(TMP\_173) = 0 TMP\_174 = 1 not(TMP\_174) = 0 TMP\_175 = 1 not(TMP\_175) = 0 TMP\_176 = 0 not(TMP\_176) = 1 TMP\_177 = 4 TMP\_178 = 0 not(TMP\_178) = 1 TMP\_179 = 0 not(TMP\_179) = 1 TMP\_180 = 0 TMP\_181 = 1 not(TMP\_181) = 0 TMP\_182 = 1 not(TMP\_182) = 0 TMP\_183 = 2 TMP\_184 = 0 not(TMP\_184) = 1 TMP\_185 = 0 not(TMP\_185) = 1 TMP\_186 = 1 not(TMP\_186) = 0 TMP\_187 = 1 not(TMP\_187) = 0 TMP\_188 = 1 not(TMP\_188) = 0 TMP\_189 = 2 TMP\_190 = 0 not(TMP\_190) = 1 TMP\_191 = 1 not(TMP\_191) = 0 TMP\_192 = 1 not(TMP\_192) = 0 TMP\_193 = 1 not(TMP\_193) = 0 TMP\_194 = 1 not(TMP\_194) = 0 TMP\_195 = 0 not(TMP\_195) = 1 TMP\_196 = 4 TMP\_197 = 0 not(TMP\_197) = 1 TMP\_198 = 0 not(TMP\_198) = 1 TMP\_199 = 0 TMP\_200 = 1 not(TMP\_200) = 0 TMP\_201 = 1 not(TMP\_201) = 0 TMP\_202 = 2 TMP\_203 = 0 not(TMP\_203) = 1 TMP\_204 = 0 not(TMP\_204) = 1 TMP\_205 = 1 not(TMP\_205) = 0 TMP\_206 = 1 not(TMP\_206) = 0 TMP\_207 = 1 not(TMP\_207) = 0 TMP\_208 = 2 TMP\_209 = 0 not(TMP\_209) = 1 TMP\_210 = 1 not(TMP\_210) = 0 TMP\_211 = 1 not(TMP\_211) = 0 TMP\_212 = 1 not(TMP\_212) = 0 TMP\_213 = 1 not(TMP\_213) = 0 TMP\_214 = 1 not(TMP\_214) = 0 TMP\_215 = 5 TMP\_216 = 0 not(TMP\_216) = 1 TMP\_217 = 0 not(TMP\_217) = 1 TMP\_218 = 0 TMP\_219 = 1 not(TMP\_219) = 0 TMP\_220 = 1 not(TMP\_220) = 0 TMP\_221 = 2 TMP\_222 = 0 not(TMP\_222) = 1 TMP\_223 = 0 not(TMP\_223) = 1 TMP\_224 = 1 not(TMP\_224) = 0 TMP\_225 = 1 not(TMP\_225) = 0 TMP\_226 = 1 not(TMP\_226) = 0 TMP\_227 = 2 TMP\_228 = 0 not(TMP\_228) = 1 TMP\_229 = 1 not(TMP\_229) = 0 TMP\_230 = 1 not(TMP\_230) = 0 TMP\_231 = 1 not(TMP\_231) = 0 TMP\_232 = 1 not(TMP\_232) = 0 TMP\_233 = 1 not(TMP\_233) = 0 TMP\_234 = 5 TMP\_235 = 0 not(TMP\_235) = 1 TMP\_236 = 0 not(TMP\_236) = 1 TMP\_237 = 0 TMP\_238 = 1 not(TMP\_238) = 0 TMP\_239 = 1 not(TMP\_239) = 0 TMP\_240 = 2 TMP\_241 = 0 not(TMP\_241) = 1 TMP\_242 = 0 not(TMP\_242) = 1 TMP\_243 = 1 not(TMP\_243) = 0 TMP\_244 = 1 not(TMP\_244) = 0 TMP\_245 = 1 not(TMP\_245) = 0 TMP\_246 = 2 TMP\_247 = 1 not(TMP\_247) = 0 TMP\_248 = 0 not(TMP\_248) = 1 TMP\_249 = 1 not(TMP\_249) = 0 TMP\_250 = 1 not(TMP\_250) = 0 TMP\_251 = 1 not(TMP\_251) = 0 TMP\_252 = 1 not(TMP\_252) = 0 TMP\_253 = 5 TMP\_254 = 0 not(TMP\_254) = 1 TMP\_255 = 0 not(TMP\_255) = 1 TMP\_256 = 0 TMP\_257 = 1 not(TMP\_257) = 0 TMP\_258 = 1 not(TMP\_258) = 0 TMP\_259 = 2 TMP\_260 = 0 not(TMP\_260) = 1 TMP\_261 = 0 not(TMP\_261) = 1 TMP\_262 = 1 not(TMP\_262) = 0 TMP\_263 = 1 not(TMP\_263) = 0 TMP\_264 = 1 not(TMP\_264) = 0 TMP\_265 = 2 TMP\_266 = 1 not(TMP\_266) = 0 TMP\_267 = 0 not(TMP\_267) = 1 TMP\_268 = 1 not(TMP\_268) = 0 TMP\_269 = 1 not(TMP\_269) = 0 TMP\_270 = 1 not(TMP\_270) = 0 TMP\_271 = 0 not(TMP\_271) = 1 TMP\_272 = 4 TMP\_273 = 0 not(TMP\_273) = 1 TMP\_274 = 0 not(TMP\_274) = 1 TMP\_275 = 0 TMP\_276 = 1 not(TMP\_276) = 0 TMP\_277 = 1 not(TMP\_277) = 0 TMP\_278 = 2 TMP\_279 = 0 not(TMP\_279) = 1 TMP\_280 = 0 not(TMP\_280) = 1 TMP\_281 = 1 not(TMP\_281) = 0 TMP\_282 = 1 not(TMP\_282) = 0 TMP\_283 = 1 not(TMP\_283) = 0 TMP\_284 = 2 TMP\_285 = 1 not(TMP\_285) = 0 TMP\_286 = 1 not(TMP\_286) = 0 TMP\_287 = 1 not(TMP\_287) = 0 TMP\_288 = 1 not(TMP\_288) = 0 TMP\_289 = 1 not(TMP\_289) = 0 TMP\_290 = 0 not(TMP\_290) = 1 TMP\_291 = 5 TMP\_292 = 0 not(TMP\_292) = 1 TMP\_293 = 0 not(TMP\_293) = 1 TMP\_294 = 0 TMP\_295 = 1 not(TMP\_295) = 0 TMP\_296 = 1 not(TMP\_296) = 0 TMP\_297 = 2 TMP\_298 = 0 not(TMP\_298) = 1 TMP\_299 = 0 not(TMP\_299) = 1 TMP\_300 = 1 not(TMP\_300) = 0 TMP\_301 = 1 not(TMP\_301) = 0 TMP\_302 = 1 not(TMP\_302) = 0 TMP\_303 = 2 TMP\_304 = 0 not(TMP\_304) = 1 TMP\_305 = 1 not(TMP\_305) = 0 TMP\_306 = 1 not(TMP\_306) = 0 TMP\_307 = 1 not(TMP\_307) = 0 TMP\_308 = 1 not(TMP\_308) = 0 TMP\_309 = 1 not(TMP\_309) = 0 TMP\_310 = 5 TMP\_311 = 0 not(TMP\_311) = 1 TMP\_312 = 0 not(TMP\_312) = 1 TMP\_313 = 0 TMP\_314 = 1 not(TMP\_314) = 0 TMP\_315 = 1 not(TMP\_315) = 0 TMP\_316 = 2 TMP\_317 = 0 not(TMP\_317) = 1 TMP\_318 = 0 not(TMP\_318) = 1 TMP\_319 = 1 not(TMP\_319) = 0 TMP\_320 = 1 not(TMP\_320) = 0 TMP\_321 = 1 not(TMP\_321) = 0 TMP\_322 = 2 TMP\_323 = 0 not(TMP\_323) = 1 TMP\_324 = 1 not(TMP\_324) = 0 TMP\_325 = 1 not(TMP\_325) = 0 TMP\_326 = 1 not(TMP\_326) = 0 TMP\_327 = 1 not(TMP\_327) = 0 TMP\_328 = 0 not(TMP\_328) = 1 TMP\_329 = 4 TMP\_330 = 0 not(TMP\_330) = 1 TMP\_331 = 0 not(TMP\_331) = 1 TMP\_332 = 0 TMP\_333 = 1 not(TMP\_333) = 0 TMP\_334 = 1 not(TMP\_334) = 0 TMP\_335 = 2 TMP\_336 = 0 not(TMP\_336) = 1 TMP\_337 = 0 not(TMP\_337) = 1 TMP\_338 = 1 not(TMP\_338) = 0 TMP\_339 = 1 not(TMP\_339) = 0 TMP\_340 = 1 not(TMP\_340) = 0 TMP\_341 = 2 TMP\_342 = 1 not(TMP\_342) = 0 TMP\_343 = 1 not(TMP\_343) = 0 TMP\_344 = 1 not(TMP\_344) = 0 TMP\_345 = 1 not(TMP\_345) = 0 TMP\_346 = 1 not(TMP\_346) = 0 TMP\_347 = 0 not(TMP\_347) = 1 TMP\_348 = 5 TMP\_349 = 0 not(TMP\_349) = 1 TMP\_350 = 0 not(TMP\_350) = 1 TMP\_351 = 0 TMP\_352 = 1 not(TMP\_352) = 0 TMP\_353 = 1 not(TMP\_353) = 0 TMP\_354 = 2 TMP\_355 = 0 not(TMP\_355) = 1 TMP\_356 = 0 not(TMP\_356) = 1 TMP\_357 = 1 not(TMP\_357) = 0 TMP\_358 = 1 not(TMP\_358) = 0 TMP\_359 = 1 not(TMP\_359) = 0 TMP\_360 = 2 TMP\_361 = 1 not(TMP\_361) = 0 TMP\_362 = 0 not(TMP\_362) = 1 TMP\_363 = 1 not(TMP\_363) = 0 TMP\_364 = 1 not(TMP\_364) = 0 TMP\_365 = 1 not(TMP\_365) = 0 TMP\_366 = 0 not(TMP\_366) = 1 TMP\_367 = 4 TMP\_368 = 0 not(TMP\_368) = 1 TMP\_369 = 0 not(TMP\_369) = 1 TMP\_370 = 0 TMP\_371 = 1 not(TMP\_371) = 0 TMP\_372 = 1 not(TMP\_372) = 0 TMP\_373 = 2 TMP\_374 = 0 not(TMP\_374) = 1 TMP\_375 = 0 not(TMP\_375) = 1 TMP\_376 = 1 not(TMP\_376) = 0 TMP\_377 = 1 not(TMP\_377) = 0 TMP\_378 = 1 not(TMP\_378) = 0 TMP\_379 = 2 TMP\_380 = 1 not(TMP\_380) = 0 TMP\_381 = 0 not(TMP\_381) = 1 TMP\_382 = 1 not(TMP\_382) = 0 TMP\_383 = 1 not(TMP\_383) = 0 TMP\_384 = 1 not(TMP\_384) = 0 TMP\_385 = 1 not(TMP\_385) = 0 TMP\_386 = 5 TMP\_387 = 0 not(TMP\_387) = 1 TMP\_388 = 0 not(TMP\_388) = 1 TMP\_389 = 0 TMP\_390 = 1 not(TMP\_390) = 0 TMP\_391 = 1 not(TMP\_391) = 0 TMP\_392 = 2 TMP\_393 = 0 not(TMP\_393) = 1 TMP\_394 = 0 not(TMP\_394) = 1 TMP\_395 = 1 not(TMP\_395) = 0 TMP\_396 = 1 not(TMP\_396) = 0 TMP\_397 = 1 not(TMP\_397) = 0 TMP\_398 = 2 TMP\_399 = 1 not(TMP\_399) = 0 TMP\_400 = 0 not(TMP\_400) = 1 TMP\_401 = 1 not(TMP\_401) = 0 TMP\_402 = 1 not(TMP\_402) = 0 TMP\_403 = 1 not(TMP\_403) = 0 TMP\_404 = 1 not(TMP\_404) = 0 TMP\_405 = 5 TMP\_406 = 0 not(TMP\_406) = 1 TMP\_407 = 0 not(TMP\_407) = 1 TMP\_408 = 0 TMP\_409 = 1 not(TMP\_409) = 0 TMP\_410 = 1 not(TMP\_410) = 0 TMP\_411 = 2 TMP\_412 = 0 not(TMP\_412) = 1 TMP\_413 = 0 not(TMP\_413) = 1 TMP\_414 = 1 not(TMP\_414) = 0 TMP\_415 = 1 not(TMP\_415) = 0 TMP\_416 = 1 not(TMP\_416) = 0 TMP\_417 = 2 TMP\_418 = 1 not(TMP\_418) = 0 TMP\_419 = 0 not(TMP\_419) = 1 TMP\_420 = 1 not(TMP\_420) = 0 TMP\_421 = 1 not(TMP\_421) = 0 TMP\_422 = 1 not(TMP\_422) = 0 TMP\_423 = 1 not(TMP\_423) = 0 TMP\_424 = 5 TMP\_425 = 0 not(TMP\_425) = 1 TMP\_426 = 0 not(TMP\_426) = 1 TMP\_427 = 0 TMP\_428 = 1 not(TMP\_428) = 0 TMP\_429 = 1 not(TMP\_429) = 0 TMP\_430 = 2 TMP\_431 = 0 not(TMP\_431) = 1 TMP\_432 = 0 not(TMP\_432) = 1 TMP\_433 = 1 not(TMP\_433) = 0 TMP\_434 = 1 not(TMP\_434) = 0 TMP\_435 = 1 not(TMP\_435) = 0 TMP\_436 = 2 TMP\_437 = 1 not(TMP\_437) = 0 TMP\_438 = 0 not(TMP\_438) = 1 TMP\_439 = 1 not(TMP\_439) = 0 TMP\_440 = 1 not(TMP\_440) = 0 TMP\_441 = 1 not(TMP\_441) = 0 TMP\_442 = 0 not(TMP\_442) = 1 TMP\_443 = 4 TMP\_444 = 0 not(TMP\_444) = 1 TMP\_445 = 0 not(TMP\_445) = 1 TMP\_446 = 0 TMP\_447 = 1 not(TMP\_447) = 0 TMP\_448 = 1 not(TMP\_448) = 0 TMP\_449 = 2 TMP\_450 = 0 not(TMP\_450) = 1 TMP\_451 = 0 not(TMP\_451) = 1 TMP\_452 = 1 not(TMP\_452) = 0 TMP\_453 = 1 not(TMP\_453) = 0 TMP\_454 = 1 not(TMP\_454) = 0 TMP\_455 = 2 TMP\_456 = 1 not(TMP\_456) = 0 TMP\_457 = 0 not(TMP\_457) = 1 TMP\_458 = 1 not(TMP\_458) = 0 TMP\_459 = 1 not(TMP\_459) = 0 TMP\_460 = 1 not(TMP\_460) = 0 TMP\_461 = 0 not(TMP\_461) = 1 TMP\_462 = 4 TMP\_463 = 0 not(TMP\_463) = 1 TMP\_464 = 0 not(TMP\_464) = 1 TMP\_465 = 0 TMP\_466 = 1 not(TMP\_466) = 0 TMP\_467 = 1 not(TMP\_467) = 0 TMP\_468 = 2 TMP\_469 = 0 not(TMP\_469) = 1 TMP\_470 = 0 not(TMP\_470) = 1 TMP\_471 = 1 not(TMP\_471) = 0 TMP\_472 = 1 not(TMP\_472) = 0 TMP\_473 = 1 not(TMP\_473) = 0 TMP\_474 = 2 TMP\_475 = 1 not(TMP\_475) = 0 TMP\_476 = 0 not(TMP\_476) = 1 TMP\_477 = 1 not(TMP\_477) = 0 TMP\_478 = 1 not(TMP\_478) = 0 TMP\_479 = 1 not(TMP\_479) = 0 TMP\_480 = 1 not(TMP\_480) = 0 TMP\_481 = 5 TMP\_482 = 0 not(TMP\_482) = 1 TMP\_483 = 0 not(TMP\_483) = 1 TMP\_484 = 0 TMP\_485 = 1 not(TMP\_485) = 0 TMP\_486 = 1 not(TMP\_486) = 0 TMP\_487 = 2 TMP\_488 = 0 not(TMP\_488) = 1 TMP\_489 = 0 not(TMP\_489) = 1 TMP\_490 = 1 not(TMP\_490) = 0 TMP\_491 = 1 not(TMP\_491) = 0 TMP\_492 = 1 not(TMP\_492) = 0 TMP\_493 = 2 TMP\_494 = 1 not(TMP\_494) = 0 TMP\_495 = 1 not(TMP\_495) = 0 TMP\_496 = 1 not(TMP\_496) = 0 TMP\_497 = 1 not(TMP\_497) = 0 TMP\_498 = 1 not(TMP\_498) = 0 TMP\_499 = 0 not(TMP\_499) = 1 TMP\_500 = 5 TMP\_501 = 0 not(TMP\_501) = 1 TMP\_502 = 0 not(TMP\_502) = 1 TMP\_503 = 0 TMP\_504 = 1 not(TMP\_504) = 0 TMP\_505 = 1 not(TMP\_505) = 0 TMP\_506 = 2 TMP\_507 = 0 not(TMP\_507) = 1 TMP\_508 = 0 not(TMP\_508) = 1 TMP\_509 = 1 not(TMP\_509) = 0 TMP\_510 = 1 not(TMP\_510) = 0 TMP\_511 = 1 not(TMP\_511) = 0 TMP\_512 = 2 TMP\_513 = 0 not(TMP\_513) = 1 TMP\_514 = 1 not(TMP\_514) = 0 TMP\_515 = 1 not(TMP\_515) = 0 TMP\_516 = 1 not(TMP\_516) = 0 TMP\_517 = 1 not(TMP\_517) = 0 TMP\_518 = 1 not(TMP\_518) = 0 TMP\_519 = 5 TMP\_520 = 0 not(TMP\_520) = 1 TMP\_521 = 0 not(TMP\_521) = 1 TMP\_522 = 0 TMP\_523 = 1 not(TMP\_523) = 0 TMP\_524 = 1 not(TMP\_524) = 0 TMP\_525 = 2 TMP\_526 = 0 not(TMP\_526) = 1 TMP\_527 = 0 not(TMP\_527) = 1 TMP\_528 = 1 not(TMP\_528) = 0 TMP\_529 = 1 not(TMP\_529) = 0 TMP\_530 = 1 not(TMP\_530) = 0 TMP\_531 = 2 TMP\_532 = 1 not(TMP\_532) = 0 TMP\_533 = 0 not(TMP\_533) = 1 TMP\_534 = 1 not(TMP\_534) = 0 TMP\_535 = 1 not(TMP\_535) = 0 TMP\_536 = 1 not(TMP\_536) = 0 TMP\_537 = 1 not(TMP\_537) = 0 TMP\_538 = 5 TMP\_539 = 0 not(TMP\_539) = 1 TMP\_540 = 0 not(TMP\_540) = 1 TMP\_541 = 0 TMP\_542 = 1 not(TMP\_542) = 0 TMP\_543 = 1 not(TMP\_543) = 0 TMP\_544 = 2 TMP\_545 = 0 not(TMP\_545) = 1 TMP\_546 = 0 not(TMP\_546) = 1 TMP\_547 = 1 not(TMP\_547) = 0 TMP\_548 = 1 not(TMP\_548) = 0 TMP\_549 = 1 not(TMP\_549) = 0 TMP\_550 = 2 TMP\_551 = 1 not(TMP\_551) = 0 TMP\_552 = 0 not(TMP\_552) = 1 TMP\_553 = 1 not(TMP\_553) = 0 TMP\_554 = 1 not(TMP\_554) = 0 TMP\_555 = 0 not(TMP\_555) = 1 TMP\_556 = 1 not(TMP\_556) = 0 TMP\_557 = 4 TMP\_558 = 0 not(TMP\_558) = 1 TMP\_559 = 0 not(TMP\_559) = 1 TMP\_560 = 0 TMP\_561 = 1 not(TMP\_561) = 0 TMP\_562 = 1 not(TMP\_562) = 0 TMP\_563 = 2 TMP\_564 = 0 not(TMP\_564) = 1 TMP\_565 = 0 not(TMP\_565) = 1 TMP\_566 = 1 not(TMP\_566) = 0 TMP\_567 = 1 not(TMP\_567) = 0 TMP\_568 = 1 not(TMP\_568) = 0 TMP\_569 = 2 TMP\_570 = 1 not(TMP\_570) = 0 TMP\_571 = 0 not(TMP\_571) = 1 TMP\_572 = 1 not(TMP\_572) = 0 TMP\_573 = 1 not(TMP\_573) = 0 TMP\_574 = 0 not(TMP\_574) = 1 TMP\_575 = 1 not(TMP\_575) = 0 TMP\_576 = 4 TMP\_577 = 0 not(TMP\_577) = 1 TMP\_578 = 0 not(TMP\_578) = 1 TMP\_579 = 0 TMP\_580 = 1 not(TMP\_580) = 0 TMP\_581 = 1 not(TMP\_581) = 0 TMP\_582 = 2 TMP\_583 = 0 not(TMP\_583) = 1 TMP\_584 = 0 not(TMP\_584) = 1 TMP\_585 = 1 not(TMP\_585) = 0 TMP\_586 = 1 not(TMP\_586) = 0 TMP\_587 = 1 not(TMP\_587) = 0 TMP\_588 = 2 TMP\_589 = 1 not(TMP\_589) = 0 TMP\_590 = 0 not(TMP\_590) = 1 TMP\_591 = 1 not(TMP\_591) = 0 TMP\_592 = 1 not(TMP\_592) = 0 TMP\_593 = 0 not(TMP\_593) = 1 TMP\_594 = 1 not(TMP\_594) = 0 TMP\_595 = 4 TMP\_596 = 0 not(TMP\_596) = 1 TMP\_597 = 0 not(TMP\_597) = 1 TMP\_598 = 0 TMP\_599 = 1 not(TMP\_599) = 0 TMP\_600 = 1 not(TMP\_600) = 0 TMP\_601 = 2 TMP\_602 = 0 not(TMP\_602) = 1 TMP\_603 = 0 not(TMP\_603) = 1 TMP\_604 = 1 not(TMP\_604) = 0 TMP\_605 = 1 not(TMP\_605) = 0 TMP\_606 = 1 not(TMP\_606) = 0 TMP\_607 = 2 TMP\_608 = 1 not(TMP\_608) = 0 TMP\_609 = 0 not(TMP\_609) = 1 TMP\_610 = 1 not(TMP\_610) = 0 TMP\_611 = 1 not(TMP\_611) = 0 TMP\_612 = 1 not(TMP\_612) = 0 TMP\_613 = 1 not(TMP\_613) = 0 TMP\_614 = 5 TMP\_615 = 0 not(TMP\_615) = 1 TMP\_616 = 0 not(TMP\_616) = 1 TMP\_617 = 0 TMP\_618 = 1 not(TMP\_618) = 0 TMP\_619 = 1 not(TMP\_619) = 0 TMP\_620 = 2 TMP\_621 = 0 not(TMP\_621) = 1 TMP\_622 = 0 not(TMP\_622) = 1 TMP\_623 = 1 not(TMP\_623) = 0 TMP\_624 = 1 not(TMP\_624) = 0 TMP\_625 = 1 not(TMP\_625) = 0 TMP\_626 = 2 TMP\_627 = 1 not(TMP\_627) = 0 TMP\_628 = 0 not(TMP\_628) = 1 TMP\_629 = 1 not(TMP\_629) = 0 TMP\_630 = 1 not(TMP\_630) = 0 TMP\_631 = 1 not(TMP\_631) = 0 TMP\_632 = 1 not(TMP\_632) = 0 TMP\_633 = 5 TMP\_634 = 0 not(TMP\_634) = 1 TMP\_635 = 0 not(TMP\_635) = 1 TMP\_636 = 0 TMP\_637 = 1 not(TMP\_637) = 0 TMP\_638 = 1 not(TMP\_638) = 0 TMP\_639 = 2 TMP\_640 = 0 not(TMP\_640) = 1 TMP\_641 = 0 not(TMP\_641) = 1 TMP\_642 = 1 not(TMP\_642) = 0 TMP\_643 = 1 not(TMP\_643) = 0 TMP\_644 = 1 not(TMP\_644) = 0 TMP\_645 = 2 TMP\_646 = 1 not(TMP\_646) = 0 TMP\_647 = 0 not(TMP\_647) = 1 TMP\_648 = 1 not(TMP\_648) = 0 TMP\_649 = 1 not(TMP\_649) = 0 TMP\_650 = 0 not(TMP\_650) = 1 TMP\_651 = 1 not(TMP\_651) = 0 TMP\_652 = 4 TMP\_653 = 0 not(TMP\_653) = 1 TMP\_654 = 0 not(TMP\_654) = 1 TMP\_655 = 0 TMP\_656 = 1 not(TMP\_656) = 0 TMP\_657 = 1 not(TMP\_657) = 0 TMP\_658 = 2 TMP\_659 = 0 not(TMP\_659) = 1 TMP\_660 = 0 not(TMP\_660) = 1 TMP\_661 = 1 not(TMP\_661) = 0 TMP\_662 = 1 not(TMP\_662) = 0 TMP\_663 = 1 not(TMP\_663) = 0 TMP\_664 = 2 TMP\_665 = 1 not(TMP\_665) = 0 TMP\_666 = 1 not(TMP\_666) = 0 TMP\_667 = 1 not(TMP\_667) = 0 TMP\_668 = 1 not(TMP\_668) = 0 TMP\_669 = 0 not(TMP\_669) = 1 TMP\_670 = 1 not(TMP\_670) = 0 TMP\_671 = 5 TMP\_672 = 0 not(TMP\_672) = 1 TMP\_673 = 0 not(TMP\_673) = 1 TMP\_674 = 0 TMP\_675 = 1 not(TMP\_675) = 0 TMP\_676 = 1 not(TMP\_676) = 0 TMP\_677 = 2 TMP\_678 = 0 not(TMP\_678) = 1 TMP\_679 = 0 not(TMP\_679) = 1 TMP\_680 = 1 not(TMP\_680) = 0 TMP\_681 = 1 not(TMP\_681) = 0 TMP\_682 = 1 not(TMP\_682) = 0 TMP\_683 = 2 Area\_0 = 60 Distance\_0\_Rule\_0 = 20 Distance\_1\_Rule\_0 = 3 Distance\_2\_Rule\_0 = 1 Area\_1 = 174 Distance\_0\_Rule\_1 = 58 Distance\_1\_Rule\_1 = 3 Distance\_2\_Rule\_1 = 1 Area\_2 = 116 Distance\_0\_Rule\_2 = 58 Distance\_1\_Rule\_2 = 2 Distance\_2\_Rule\_2 = 1 Area\_3 = 58 Distance\_0\_Rule\_3 = 58 Distance\_1\_Rule\_3 = 1 Distance\_2\_Rule\_3 = 1 Area\_4 = 120 Distance\_0\_Rule\_4 = 40 Distance\_1\_Rule\_4 = 3 Distance\_2\_Rule\_4 = 1 Area\_5 = 120 Distance\_0\_Rule\_5 = 40 Distance\_1\_Rule\_5 = 3 Distance\_2\_Rule\_5 = 1 Area\_6 = 3 -(Rule\_6\_LB) = -79 Distance\_0\_Rule\_6 = 1 -(Rule\_6\_LB) = 0 Distance\_1\_Rule\_6 = 3 -(Rule\_6\_LB) = -1 Distance\_2\_Rule\_6 = 1 Area\_7 = 3 -(Rule\_7\_LB) = -79 Distance\_0\_Rule\_7 = 1 -(Rule\_7\_LB) = 0 Distance\_1\_Rule\_7 = 3 -(Rule\_7\_LB) = 0 Distance\_2\_Rule\_7 = 1 Area\_8 = 63 -(Rule\_8\_LB) = 0 Distance\_0\_Rule\_8 = 21 -(Rule\_8\_LB) = 0 Distance\_1\_Rule\_8 = 3 -(Rule\_8\_LB) = 0 Distance\_2\_Rule\_8 = 1 Area\_9 = 3 -(Rule\_9\_LB) = -20 Distance\_0\_Rule\_9 = 1 -(Rule\_9\_LB) = 0 Distance\_1\_Rule\_9 = 3 -(Rule\_9\_LB) = -1 Distance\_2\_Rule\_9 = 1 TMP\_684 = 720 .

- Solution #19 found. 19 Solutions, Resolution 1.603s, 743 Nodes (463.5 n/s), 1361 Backtracks, 670 Fails, 0 Restarts

Rule\_6\_LB = 79 Rule\_6\_UB = 80 Rule\_6\_LB = 0 Rule\_6\_UB = 3 Rule\_6\_LB = 1 Rule\_6\_UB = 2 Rule\_7\_LB = 79 Rule\_7\_UB = 80 Rule\_7\_LB = 0 Rule\_7\_UB = 3 Rule\_7\_LB = 0 Rule\_7\_UB = 1 Rule\_8\_LB = 0 Rule\_8\_UB = 21 Rule\_8\_LB = 0 Rule\_8\_UB = 3 Rule\_8\_LB = 0 Rule\_8\_UB = 1 Rule\_9\_LB = 20 Rule\_9\_UB = 21 Rule\_9\_LB = 0 Rule\_9\_UB = 3 Rule\_9\_LB = 1 Rule\_9\_UB = 2 Overlaps\_0\_0 = 0 Overlaps\_0\_1 = 0 Overlaps\_0\_2 = 1 Overlaps\_0\_3 = 0 Overlaps\_0\_4 = 0 Overlaps\_0\_5 = 0 Overlaps\_0\_6 = 0 Overlaps\_0\_7 = 0 Overlaps\_0\_8 = 0 Overlaps\_0\_9 = 0 Overlaps\_1\_0 = 0 Overlaps\_1\_1 = 0 Overlaps\_1\_2 = 0 Overlaps\_1\_3 = 0 Overlaps\_1\_4 = 0 Overlaps\_1\_5 = 0 Overlaps\_1\_6 = 0 Overlaps\_1\_7 = 0 Overlaps\_1\_8 = 0 Overlaps\_1\_9 = 0 Overlaps\_2\_0 = 0 Overlaps\_2\_1 = 0 Overlaps\_2\_2 = 0 Overlaps\_2\_3 = 0 Overlaps\_2\_4 = 0 Overlaps\_2\_5 = 0 Overlaps\_2\_6 = 0 Overlaps\_2\_7 = 0 Overlaps\_2\_8 = 0 Overlaps\_2\_9 = 0 Overlaps\_3\_0 = 0 Overlaps\_3\_1 = 0 Overlaps\_3\_2 = 0 Overlaps\_3\_3 = 0 Overlaps\_3\_4 = 0 Overlaps\_3\_5 = 0 Overlaps\_3\_6 = 0 Overlaps\_3\_7 = 0 Overlaps\_3\_8 = 0 Overlaps\_3\_9 = 0 Overlaps\_4\_0 = 0 Overlaps\_4\_1 = 0 Overlaps\_4\_2 = 0 Overlaps\_4\_3 = 0 Overlaps\_4\_4 = 0 Overlaps\_4\_5 = 0 Overlaps\_4\_6 = 0 Overlaps\_4\_7 = 0 Overlaps\_4\_8 = 0 Overlaps\_4\_9 = 0 Overlaps\_5\_0 = 1 Overlaps\_5\_1 = 0 Overlaps\_5\_2 = 0 Overlaps\_5\_3 = 0 Overlaps\_5\_4 = 0 Overlaps\_5\_5 = 0 Overlaps\_5\_6 = 0 Overlaps\_5\_7 = 0 Overlaps\_5\_8 = 0 Overlaps\_5\_9 = 0 Overlaps\_6\_0 = 0 Overlaps\_6\_1 = 0 Overlaps\_6\_2 = 0 Overlaps\_6\_3 = 0 Overlaps\_6\_4 = 0 Overlaps\_6\_5 = 0 Overlaps\_6\_6 = 0 Overlaps\_6\_7 = 0 Overlaps\_6\_8 = 0 Overlaps\_6\_9 = 0 Overlaps\_7\_0 = 0 Overlaps\_7\_1 = 0 Overlaps\_7\_2 = 0 Overlaps\_7\_3 = 0 Overlaps\_7\_4 = 0 Overlaps\_7\_5 = 0 Overlaps\_7\_6 = 0 Overlaps\_7\_7 = 0 Overlaps\_7\_8 = 0 Overlaps\_7\_9 = 0 Overlaps\_8\_0 = 0 Overlaps\_8\_1 = 0 Overlaps\_8\_2 = 0 Overlaps\_8\_3 = 0 Overlaps\_8\_4 = 0 Overlaps\_8\_5 = 0 Overlaps\_8\_6 = 0 Overlaps\_8\_7 = 0 Overlaps\_8\_8 = 0 Overlaps\_8\_9 = 0 Overlaps\_9\_0 = 0 Overlaps\_9\_1 = 0 Overlaps\_9\_2 = 0 Overlaps\_9\_3 = 0 Overlaps\_9\_4 = 0 Overlaps\_9\_5 = 0 Overlaps\_9\_6 = 0 Overlaps\_9\_7 = 0 Overlaps\_9\_8 = 0 Overlaps\_9\_9 = 0 TMP\_0 = 0 not(TMP\_0) = 1 TMP\_1 = 1 not(TMP\_1) = 0 TMP\_2 = 1 not(TMP\_2) = 0 TMP\_3 = 1 not(TMP\_3) = 0 TMP\_4 = 1 not(TMP\_4) = 0 TMP\_5 = 1 not(TMP\_5) = 0 TMP\_6 = 5 TMP\_7 = 0 not(TMP\_7) = 1 TMP\_8 = 0 not(TMP\_8) = 1 TMP\_9 = 0 TMP\_10 = 1 not(TMP\_10) = 0 TMP\_11 = 1 not(TMP\_11) = 0 TMP\_12 = 2 TMP\_13 = 0 not(TMP\_13) = 1 TMP\_14 = 0 not(TMP\_14) = 1 TMP\_15 = 1 not(TMP\_15) = 0 TMP\_16 = 1 not(TMP\_16) = 0 TMP\_17 = 1 not(TMP\_17) = 0 TMP\_18 = 2 TMP\_19 = 0 not(TMP\_19) = 1 TMP\_20 = 1 not(TMP\_20) = 0 TMP\_21 = 1 not(TMP\_21) = 0 TMP\_22 = 1 not(TMP\_22) = 0 TMP\_23 = 1 not(TMP\_23) = 0 TMP\_24 = 1 not(TMP\_24) = 0 TMP\_25 = 5 TMP\_26 = 0 not(TMP\_26) = 1 TMP\_27 = 0 not(TMP\_27) = 1 TMP\_28 = 0 TMP\_29 = 1 not(TMP\_29) = 0 TMP\_30 = 1 not(TMP\_30) = 0 TMP\_31 = 2 TMP\_32 = 0 not(TMP\_32) = 1 TMP\_33 = 0 not(TMP\_33) = 1 TMP\_34 = 1 not(TMP\_34) = 0 TMP\_35 = 1 not(TMP\_35) = 0 TMP\_36 = 1 not(TMP\_36) = 0 TMP\_37 = 2 TMP\_38 = 0 not(TMP\_38) = 1 TMP\_39 = 1 not(TMP\_39) = 0 TMP\_40 = 1 not(TMP\_40) = 0 TMP\_41 = 1 not(TMP\_41) = 0 TMP\_42 = 0 not(TMP\_42) = 1 TMP\_43 = 1 not(TMP\_43) = 0 TMP\_44 = 4 TMP\_45 = 0 not(TMP\_45) = 1 TMP\_46 = 0 not(TMP\_46) = 1 TMP\_47 = 0 TMP\_48 = 1 not(TMP\_48) = 0 TMP\_49 = 1 not(TMP\_49) = 0 TMP\_50 = 2 TMP\_51 = 0 not(TMP\_51) = 1 TMP\_52 = 0 not(TMP\_52) = 1 TMP\_53 = 1 not(TMP\_53) = 0 TMP\_54 = 1 not(TMP\_54) = 0 TMP\_55 = 1 not(TMP\_55) = 0 TMP\_56 = 2 TMP\_57 = 0 not(TMP\_57) = 1 TMP\_58 = 1 not(TMP\_58) = 0 TMP\_59 = 1 not(TMP\_59) = 0 TMP\_60 = 1 not(TMP\_60) = 0 TMP\_61 = 0 not(TMP\_61) = 1 TMP\_62 = 1 not(TMP\_62) = 0 TMP\_63 = 4 TMP\_64 = 0 not(TMP\_64) = 1 TMP\_65 = 0 not(TMP\_65) = 1 TMP\_66 = 0 TMP\_67 = 1 not(TMP\_67) = 0 TMP\_68 = 1 not(TMP\_68) = 0 TMP\_69 = 2 TMP\_70 = 0 not(TMP\_70) = 1 TMP\_71 = 0 not(TMP\_71) = 1 TMP\_72 = 1 not(TMP\_72) = 0 TMP\_73 = 1 not(TMP\_73) = 0 TMP\_74 = 1 not(TMP\_74) = 0 TMP\_75 = 2 TMP\_76 = 1 not(TMP\_76) = 0 TMP\_77 = 0 not(TMP\_77) = 1 TMP\_78 = 1 not(TMP\_78) = 0 TMP\_79 = 1 not(TMP\_79) = 0 TMP\_80 = 0 not(TMP\_80) = 1 TMP\_81 = 1 not(TMP\_81) = 0 TMP\_82 = 4 TMP\_83 = 0 not(TMP\_83) = 1 TMP\_84 = 0 not(TMP\_84) = 1 TMP\_85 = 0 TMP\_86 = 1 not(TMP\_86) = 0 TMP\_87 = 1 not(TMP\_87) = 0 TMP\_88 = 2 TMP\_89 = 0 not(TMP\_89) = 1 TMP\_90 = 0 not(TMP\_90) = 1 TMP\_91 = 1 not(TMP\_91) = 0 TMP\_92 = 1 not(TMP\_92) = 0 TMP\_93 = 1 not(TMP\_93) = 0 TMP\_94 = 2 TMP\_95 = 1 not(TMP\_95) = 0 TMP\_96 = 0 not(TMP\_96) = 1 TMP\_97 = 1 not(TMP\_97) = 0 TMP\_98 = 1 not(TMP\_98) = 0 TMP\_99 = 1 not(TMP\_99) = 0 TMP\_100 = 1 not(TMP\_100) = 0 TMP\_101 = 5 TMP\_102 = 0 not(TMP\_102) = 1 TMP\_103 = 0 not(TMP\_103) = 1 TMP\_104 = 0 TMP\_105 = 1 not(TMP\_105) = 0 TMP\_106 = 1 not(TMP\_106) = 0 TMP\_107 = 2 TMP\_108 = 0 not(TMP\_108) = 1 TMP\_109 = 0 not(TMP\_109) = 1 TMP\_110 = 1 not(TMP\_110) = 0 TMP\_111 = 1 not(TMP\_111) = 0 TMP\_112 = 1 not(TMP\_112) = 0 TMP\_113 = 2 TMP\_114 = 1 not(TMP\_114) = 0 TMP\_115 = 1 not(TMP\_115) = 0 TMP\_116 = 1 not(TMP\_116) = 0 TMP\_117 = 1 not(TMP\_117) = 0 TMP\_118 = 0 not(TMP\_118) = 1 TMP\_119 = 1 not(TMP\_119) = 0 TMP\_120 = 5 TMP\_121 = 0 not(TMP\_121) = 1 TMP\_122 = 0 not(TMP\_122) = 1 TMP\_123 = 0 TMP\_124 = 1 not(TMP\_124) = 0 TMP\_125 = 1 not(TMP\_125) = 0 TMP\_126 = 2 TMP\_127 = 0 not(TMP\_127) = 1 TMP\_128 = 0 not(TMP\_128) = 1 TMP\_129 = 1 not(TMP\_129) = 0 TMP\_130 = 1 not(TMP\_130) = 0 TMP\_131 = 1 not(TMP\_131) = 0 TMP\_132 = 2 TMP\_133 = 0 not(TMP\_133) = 1 TMP\_134 = 1 not(TMP\_134) = 0 TMP\_135 = 1 not(TMP\_135) = 0 TMP\_136 = 1 not(TMP\_136) = 0 TMP\_137 = 0 not(TMP\_137) = 1 TMP\_138 = 1 not(TMP\_138) = 0 TMP\_139 = 4 TMP\_140 = 0 not(TMP\_140) = 1 TMP\_141 = 0 not(TMP\_141) = 1 TMP\_142 = 0 TMP\_143 = 1 not(TMP\_143) = 0 TMP\_144 = 1 not(TMP\_144) = 0 TMP\_145 = 2 TMP\_146 = 0 not(TMP\_146) = 1 TMP\_147 = 0 not(TMP\_147) = 1 TMP\_148 = 1 not(TMP\_148) = 0 TMP\_149 = 1 not(TMP\_149) = 0 TMP\_150 = 1 not(TMP\_150) = 0 TMP\_151 = 2 TMP\_152 = 0 not(TMP\_152) = 1 TMP\_153 = 1 not(TMP\_153) = 0 TMP\_154 = 1 not(TMP\_154) = 0 TMP\_155 = 1 not(TMP\_155) = 0 TMP\_156 = 1 not(TMP\_156) = 0 TMP\_157 = 1 not(TMP\_157) = 0 TMP\_158 = 5 TMP\_159 = 0 not(TMP\_159) = 1 TMP\_160 = 0 not(TMP\_160) = 1 TMP\_161 = 0 TMP\_162 = 1 not(TMP\_162) = 0 TMP\_163 = 1 not(TMP\_163) = 0 TMP\_164 = 2 TMP\_165 = 0 not(TMP\_165) = 1 TMP\_166 = 0 not(TMP\_166) = 1 TMP\_167 = 1 not(TMP\_167) = 0 TMP\_168 = 1 not(TMP\_168) = 0 TMP\_169 = 1 not(TMP\_169) = 0 TMP\_170 = 2 TMP\_171 = 0 not(TMP\_171) = 1 TMP\_172 = 1 not(TMP\_172) = 0 TMP\_173 = 1 not(TMP\_173) = 0 TMP\_174 = 1 not(TMP\_174) = 0 TMP\_175 = 1 not(TMP\_175) = 0 TMP\_176 = 0 not(TMP\_176) = 1 TMP\_177 = 4 TMP\_178 = 0 not(TMP\_178) = 1 TMP\_179 = 0 not(TMP\_179) = 1 TMP\_180 = 0 TMP\_181 = 1 not(TMP\_181) = 0 TMP\_182 = 1 not(TMP\_182) = 0 TMP\_183 = 2 TMP\_184 = 0 not(TMP\_184) = 1 TMP\_185 = 0 not(TMP\_185) = 1 TMP\_186 = 1 not(TMP\_186) = 0 TMP\_187 = 1 not(TMP\_187) = 0 TMP\_188 = 1 not(TMP\_188) = 0 TMP\_189 = 2 TMP\_190 = 0 not(TMP\_190) = 1 TMP\_191 = 1 not(TMP\_191) = 0 TMP\_192 = 1 not(TMP\_192) = 0 TMP\_193 = 1 not(TMP\_193) = 0 TMP\_194 = 1 not(TMP\_194) = 0 TMP\_195 = 0 not(TMP\_195) = 1 TMP\_196 = 4 TMP\_197 = 0 not(TMP\_197) = 1 TMP\_198 = 0 not(TMP\_198) = 1 TMP\_199 = 0 TMP\_200 = 1 not(TMP\_200) = 0 TMP\_201 = 1 not(TMP\_201) = 0 TMP\_202 = 2 TMP\_203 = 0 not(TMP\_203) = 1 TMP\_204 = 0 not(TMP\_204) = 1 TMP\_205 = 1 not(TMP\_205) = 0 TMP\_206 = 1 not(TMP\_206) = 0 TMP\_207 = 1 not(TMP\_207) = 0 TMP\_208 = 2 TMP\_209 = 0 not(TMP\_209) = 1 TMP\_210 = 1 not(TMP\_210) = 0 TMP\_211 = 1 not(TMP\_211) = 0 TMP\_212 = 1 not(TMP\_212) = 0 TMP\_213 = 1 not(TMP\_213) = 0 TMP\_214 = 1 not(TMP\_214) = 0 TMP\_215 = 5 TMP\_216 = 0 not(TMP\_216) = 1 TMP\_217 = 0 not(TMP\_217) = 1 TMP\_218 = 0 TMP\_219 = 1 not(TMP\_219) = 0 TMP\_220 = 1 not(TMP\_220) = 0 TMP\_221 = 2 TMP\_222 = 0 not(TMP\_222) = 1 TMP\_223 = 0 not(TMP\_223) = 1 TMP\_224 = 1 not(TMP\_224) = 0 TMP\_225 = 1 not(TMP\_225) = 0 TMP\_226 = 1 not(TMP\_226) = 0 TMP\_227 = 2 TMP\_228 = 0 not(TMP\_228) = 1 TMP\_229 = 1 not(TMP\_229) = 0 TMP\_230 = 1 not(TMP\_230) = 0 TMP\_231 = 1 not(TMP\_231) = 0 TMP\_232 = 1 not(TMP\_232) = 0 TMP\_233 = 1 not(TMP\_233) = 0 TMP\_234 = 5 TMP\_235 = 0 not(TMP\_235) = 1 TMP\_236 = 0 not(TMP\_236) = 1 TMP\_237 = 0 TMP\_238 = 1 not(TMP\_238) = 0 TMP\_239 = 1 not(TMP\_239) = 0 TMP\_240 = 2 TMP\_241 = 0 not(TMP\_241) = 1 TMP\_242 = 0 not(TMP\_242) = 1 TMP\_243 = 1 not(TMP\_243) = 0 TMP\_244 = 1 not(TMP\_244) = 0 TMP\_245 = 1 not(TMP\_245) = 0 TMP\_246 = 2 TMP\_247 = 1 not(TMP\_247) = 0 TMP\_248 = 0 not(TMP\_248) = 1 TMP\_249 = 1 not(TMP\_249) = 0 TMP\_250 = 1 not(TMP\_250) = 0 TMP\_251 = 1 not(TMP\_251) = 0 TMP\_252 = 1 not(TMP\_252) = 0 TMP\_253 = 5 TMP\_254 = 0 not(TMP\_254) = 1 TMP\_255 = 0 not(TMP\_255) = 1 TMP\_256 = 0 TMP\_257 = 1 not(TMP\_257) = 0 TMP\_258 = 1 not(TMP\_258) = 0 TMP\_259 = 2 TMP\_260 = 0 not(TMP\_260) = 1 TMP\_261 = 0 not(TMP\_261) = 1 TMP\_262 = 1 not(TMP\_262) = 0 TMP\_263 = 1 not(TMP\_263) = 0 TMP\_264 = 1 not(TMP\_264) = 0 TMP\_265 = 2 TMP\_266 = 1 not(TMP\_266) = 0 TMP\_267 = 0 not(TMP\_267) = 1 TMP\_268 = 1 not(TMP\_268) = 0 TMP\_269 = 1 not(TMP\_269) = 0 TMP\_270 = 1 not(TMP\_270) = 0 TMP\_271 = 0 not(TMP\_271) = 1 TMP\_272 = 4 TMP\_273 = 0 not(TMP\_273) = 1 TMP\_274 = 0 not(TMP\_274) = 1 TMP\_275 = 0 TMP\_276 = 1 not(TMP\_276) = 0 TMP\_277 = 1 not(TMP\_277) = 0 TMP\_278 = 2 TMP\_279 = 0 not(TMP\_279) = 1 TMP\_280 = 0 not(TMP\_280) = 1 TMP\_281 = 1 not(TMP\_281) = 0 TMP\_282 = 1 not(TMP\_282) = 0 TMP\_283 = 1 not(TMP\_283) = 0 TMP\_284 = 2 TMP\_285 = 1 not(TMP\_285) = 0 TMP\_286 = 1 not(TMP\_286) = 0 TMP\_287 = 1 not(TMP\_287) = 0 TMP\_288 = 1 not(TMP\_288) = 0 TMP\_289 = 1 not(TMP\_289) = 0 TMP\_290 = 0 not(TMP\_290) = 1 TMP\_291 = 5 TMP\_292 = 0 not(TMP\_292) = 1 TMP\_293 = 0 not(TMP\_293) = 1 TMP\_294 = 0 TMP\_295 = 1 not(TMP\_295) = 0 TMP\_296 = 1 not(TMP\_296) = 0 TMP\_297 = 2 TMP\_298 = 0 not(TMP\_298) = 1 TMP\_299 = 0 not(TMP\_299) = 1 TMP\_300 = 1 not(TMP\_300) = 0 TMP\_301 = 1 not(TMP\_301) = 0 TMP\_302 = 1 not(TMP\_302) = 0 TMP\_303 = 2 TMP\_304 = 0 not(TMP\_304) = 1 TMP\_305 = 1 not(TMP\_305) = 0 TMP\_306 = 1 not(TMP\_306) = 0 TMP\_307 = 1 not(TMP\_307) = 0 TMP\_308 = 1 not(TMP\_308) = 0 TMP\_309 = 1 not(TMP\_309) = 0 TMP\_310 = 5 TMP\_311 = 0 not(TMP\_311) = 1 TMP\_312 = 0 not(TMP\_312) = 1 TMP\_313 = 0 TMP\_314 = 1 not(TMP\_314) = 0 TMP\_315 = 1 not(TMP\_315) = 0 TMP\_316 = 2 TMP\_317 = 0 not(TMP\_317) = 1 TMP\_318 = 0 not(TMP\_318) = 1 TMP\_319 = 1 not(TMP\_319) = 0 TMP\_320 = 1 not(TMP\_320) = 0 TMP\_321 = 1 not(TMP\_321) = 0 TMP\_322 = 2 TMP\_323 = 0 not(TMP\_323) = 1 TMP\_324 = 1 not(TMP\_324) = 0 TMP\_325 = 1 not(TMP\_325) = 0 TMP\_326 = 1 not(TMP\_326) = 0 TMP\_327 = 1 not(TMP\_327) = 0 TMP\_328 = 0 not(TMP\_328) = 1 TMP\_329 = 4 TMP\_330 = 0 not(TMP\_330) = 1 TMP\_331 = 0 not(TMP\_331) = 1 TMP\_332 = 0 TMP\_333 = 1 not(TMP\_333) = 0 TMP\_334 = 1 not(TMP\_334) = 0 TMP\_335 = 2 TMP\_336 = 0 not(TMP\_336) = 1 TMP\_337 = 0 not(TMP\_337) = 1 TMP\_338 = 1 not(TMP\_338) = 0 TMP\_339 = 1 not(TMP\_339) = 0 TMP\_340 = 1 not(TMP\_340) = 0 TMP\_341 = 2 TMP\_342 = 1 not(TMP\_342) = 0 TMP\_343 = 1 not(TMP\_343) = 0 TMP\_344 = 1 not(TMP\_344) = 0 TMP\_345 = 1 not(TMP\_345) = 0 TMP\_346 = 1 not(TMP\_346) = 0 TMP\_347 = 0 not(TMP\_347) = 1 TMP\_348 = 5 TMP\_349 = 0 not(TMP\_349) = 1 TMP\_350 = 0 not(TMP\_350) = 1 TMP\_351 = 0 TMP\_352 = 1 not(TMP\_352) = 0 TMP\_353 = 1 not(TMP\_353) = 0 TMP\_354 = 2 TMP\_355 = 0 not(TMP\_355) = 1 TMP\_356 = 0 not(TMP\_356) = 1 TMP\_357 = 1 not(TMP\_357) = 0 TMP\_358 = 1 not(TMP\_358) = 0 TMP\_359 = 1 not(TMP\_359) = 0 TMP\_360 = 2 TMP\_361 = 1 not(TMP\_361) = 0 TMP\_362 = 0 not(TMP\_362) = 1 TMP\_363 = 1 not(TMP\_363) = 0 TMP\_364 = 1 not(TMP\_364) = 0 TMP\_365 = 1 not(TMP\_365) = 0 TMP\_366 = 0 not(TMP\_366) = 1 TMP\_367 = 4 TMP\_368 = 0 not(TMP\_368) = 1 TMP\_369 = 0 not(TMP\_369) = 1 TMP\_370 = 0 TMP\_371 = 1 not(TMP\_371) = 0 TMP\_372 = 1 not(TMP\_372) = 0 TMP\_373 = 2 TMP\_374 = 0 not(TMP\_374) = 1 TMP\_375 = 0 not(TMP\_375) = 1 TMP\_376 = 1 not(TMP\_376) = 0 TMP\_377 = 1 not(TMP\_377) = 0 TMP\_378 = 1 not(TMP\_378) = 0 TMP\_379 = 2 TMP\_380 = 1 not(TMP\_380) = 0 TMP\_381 = 0 not(TMP\_381) = 1 TMP\_382 = 1 not(TMP\_382) = 0 TMP\_383 = 1 not(TMP\_383) = 0 TMP\_384 = 1 not(TMP\_384) = 0 TMP\_385 = 1 not(TMP\_385) = 0 TMP\_386 = 5 TMP\_387 = 0 not(TMP\_387) = 1 TMP\_388 = 0 not(TMP\_388) = 1 TMP\_389 = 0 TMP\_390 = 1 not(TMP\_390) = 0 TMP\_391 = 1 not(TMP\_391) = 0 TMP\_392 = 2 TMP\_393 = 0 not(TMP\_393) = 1 TMP\_394 = 0 not(TMP\_394) = 1 TMP\_395 = 1 not(TMP\_395) = 0 TMP\_396 = 1 not(TMP\_396) = 0 TMP\_397 = 1 not(TMP\_397) = 0 TMP\_398 = 2 TMP\_399 = 1 not(TMP\_399) = 0 TMP\_400 = 0 not(TMP\_400) = 1 TMP\_401 = 1 not(TMP\_401) = 0 TMP\_402 = 1 not(TMP\_402) = 0 TMP\_403 = 1 not(TMP\_403) = 0 TMP\_404 = 1 not(TMP\_404) = 0 TMP\_405 = 5 TMP\_406 = 0 not(TMP\_406) = 1 TMP\_407 = 0 not(TMP\_407) = 1 TMP\_408 = 0 TMP\_409 = 1 not(TMP\_409) = 0 TMP\_410 = 1 not(TMP\_410) = 0 TMP\_411 = 2 TMP\_412 = 0 not(TMP\_412) = 1 TMP\_413 = 0 not(TMP\_413) = 1 TMP\_414 = 1 not(TMP\_414) = 0 TMP\_415 = 1 not(TMP\_415) = 0 TMP\_416 = 1 not(TMP\_416) = 0 TMP\_417 = 2 TMP\_418 = 1 not(TMP\_418) = 0 TMP\_419 = 0 not(TMP\_419) = 1 TMP\_420 = 1 not(TMP\_420) = 0 TMP\_421 = 1 not(TMP\_421) = 0 TMP\_422 = 1 not(TMP\_422) = 0 TMP\_423 = 1 not(TMP\_423) = 0 TMP\_424 = 5 TMP\_425 = 0 not(TMP\_425) = 1 TMP\_426 = 0 not(TMP\_426) = 1 TMP\_427 = 0 TMP\_428 = 1 not(TMP\_428) = 0 TMP\_429 = 1 not(TMP\_429) = 0 TMP\_430 = 2 TMP\_431 = 0 not(TMP\_431) = 1 TMP\_432 = 0 not(TMP\_432) = 1 TMP\_433 = 1 not(TMP\_433) = 0 TMP\_434 = 1 not(TMP\_434) = 0 TMP\_435 = 1 not(TMP\_435) = 0 TMP\_436 = 2 TMP\_437 = 1 not(TMP\_437) = 0 TMP\_438 = 0 not(TMP\_438) = 1 TMP\_439 = 1 not(TMP\_439) = 0 TMP\_440 = 1 not(TMP\_440) = 0 TMP\_441 = 1 not(TMP\_441) = 0 TMP\_442 = 0 not(TMP\_442) = 1 TMP\_443 = 4 TMP\_444 = 0 not(TMP\_444) = 1 TMP\_445 = 0 not(TMP\_445) = 1 TMP\_446 = 0 TMP\_447 = 1 not(TMP\_447) = 0 TMP\_448 = 1 not(TMP\_448) = 0 TMP\_449 = 2 TMP\_450 = 0 not(TMP\_450) = 1 TMP\_451 = 0 not(TMP\_451) = 1 TMP\_452 = 1 not(TMP\_452) = 0 TMP\_453 = 1 not(TMP\_453) = 0 TMP\_454 = 1 not(TMP\_454) = 0 TMP\_455 = 2 TMP\_456 = 1 not(TMP\_456) = 0 TMP\_457 = 0 not(TMP\_457) = 1 TMP\_458 = 1 not(TMP\_458) = 0 TMP\_459 = 1 not(TMP\_459) = 0 TMP\_460 = 1 not(TMP\_460) = 0 TMP\_461 = 0 not(TMP\_461) = 1 TMP\_462 = 4 TMP\_463 = 0 not(TMP\_463) = 1 TMP\_464 = 0 not(TMP\_464) = 1 TMP\_465 = 0 TMP\_466 = 1 not(TMP\_466) = 0 TMP\_467 = 1 not(TMP\_467) = 0 TMP\_468 = 2 TMP\_469 = 0 not(TMP\_469) = 1 TMP\_470 = 0 not(TMP\_470) = 1 TMP\_471 = 1 not(TMP\_471) = 0 TMP\_472 = 1 not(TMP\_472) = 0 TMP\_473 = 1 not(TMP\_473) = 0 TMP\_474 = 2 TMP\_475 = 1 not(TMP\_475) = 0 TMP\_476 = 0 not(TMP\_476) = 1 TMP\_477 = 1 not(TMP\_477) = 0 TMP\_478 = 1 not(TMP\_478) = 0 TMP\_479 = 1 not(TMP\_479) = 0 TMP\_480 = 1 not(TMP\_480) = 0 TMP\_481 = 5 TMP\_482 = 0 not(TMP\_482) = 1 TMP\_483 = 0 not(TMP\_483) = 1 TMP\_484 = 0 TMP\_485 = 1 not(TMP\_485) = 0 TMP\_486 = 1 not(TMP\_486) = 0 TMP\_487 = 2 TMP\_488 = 0 not(TMP\_488) = 1 TMP\_489 = 0 not(TMP\_489) = 1 TMP\_490 = 1 not(TMP\_490) = 0 TMP\_491 = 1 not(TMP\_491) = 0 TMP\_492 = 1 not(TMP\_492) = 0 TMP\_493 = 2 TMP\_494 = 1 not(TMP\_494) = 0 TMP\_495 = 1 not(TMP\_495) = 0 TMP\_496 = 1 not(TMP\_496) = 0 TMP\_497 = 1 not(TMP\_497) = 0 TMP\_498 = 1 not(TMP\_498) = 0 TMP\_499 = 0 not(TMP\_499) = 1 TMP\_500 = 5 TMP\_501 = 0 not(TMP\_501) = 1 TMP\_502 = 0 not(TMP\_502) = 1 TMP\_503 = 0 TMP\_504 = 1 not(TMP\_504) = 0 TMP\_505 = 1 not(TMP\_505) = 0 TMP\_506 = 2 TMP\_507 = 0 not(TMP\_507) = 1 TMP\_508 = 0 not(TMP\_508) = 1 TMP\_509 = 1 not(TMP\_509) = 0 TMP\_510 = 1 not(TMP\_510) = 0 TMP\_511 = 1 not(TMP\_511) = 0 TMP\_512 = 2 TMP\_513 = 0 not(TMP\_513) = 1 TMP\_514 = 1 not(TMP\_514) = 0 TMP\_515 = 1 not(TMP\_515) = 0 TMP\_516 = 1 not(TMP\_516) = 0 TMP\_517 = 1 not(TMP\_517) = 0 TMP\_518 = 1 not(TMP\_518) = 0 TMP\_519 = 5 TMP\_520 = 0 not(TMP\_520) = 1 TMP\_521 = 0 not(TMP\_521) = 1 TMP\_522 = 0 TMP\_523 = 1 not(TMP\_523) = 0 TMP\_524 = 1 not(TMP\_524) = 0 TMP\_525 = 2 TMP\_526 = 0 not(TMP\_526) = 1 TMP\_527 = 0 not(TMP\_527) = 1 TMP\_528 = 1 not(TMP\_528) = 0 TMP\_529 = 1 not(TMP\_529) = 0 TMP\_530 = 1 not(TMP\_530) = 0 TMP\_531 = 2 TMP\_532 = 1 not(TMP\_532) = 0 TMP\_533 = 0 not(TMP\_533) = 1 TMP\_534 = 1 not(TMP\_534) = 0 TMP\_535 = 1 not(TMP\_535) = 0 TMP\_536 = 1 not(TMP\_536) = 0 TMP\_537 = 1 not(TMP\_537) = 0 TMP\_538 = 5 TMP\_539 = 0 not(TMP\_539) = 1 TMP\_540 = 0 not(TMP\_540) = 1 TMP\_541 = 0 TMP\_542 = 1 not(TMP\_542) = 0 TMP\_543 = 1 not(TMP\_543) = 0 TMP\_544 = 2 TMP\_545 = 0 not(TMP\_545) = 1 TMP\_546 = 0 not(TMP\_546) = 1 TMP\_547 = 1 not(TMP\_547) = 0 TMP\_548 = 1 not(TMP\_548) = 0 TMP\_549 = 1 not(TMP\_549) = 0 TMP\_550 = 2 TMP\_551 = 1 not(TMP\_551) = 0 TMP\_552 = 0 not(TMP\_552) = 1 TMP\_553 = 1 not(TMP\_553) = 0 TMP\_554 = 1 not(TMP\_554) = 0 TMP\_555 = 0 not(TMP\_555) = 1 TMP\_556 = 1 not(TMP\_556) = 0 TMP\_557 = 4 TMP\_558 = 0 not(TMP\_558) = 1 TMP\_559 = 0 not(TMP\_559) = 1 TMP\_560 = 0 TMP\_561 = 1 not(TMP\_561) = 0 TMP\_562 = 1 not(TMP\_562) = 0 TMP\_563 = 2 TMP\_564 = 0 not(TMP\_564) = 1 TMP\_565 = 0 not(TMP\_565) = 1 TMP\_566 = 1 not(TMP\_566) = 0 TMP\_567 = 1 not(TMP\_567) = 0 TMP\_568 = 1 not(TMP\_568) = 0 TMP\_569 = 2 TMP\_570 = 1 not(TMP\_570) = 0 TMP\_571 = 0 not(TMP\_571) = 1 TMP\_572 = 1 not(TMP\_572) = 0 TMP\_573 = 1 not(TMP\_573) = 0 TMP\_574 = 0 not(TMP\_574) = 1 TMP\_575 = 1 not(TMP\_575) = 0 TMP\_576 = 4 TMP\_577 = 0 not(TMP\_577) = 1 TMP\_578 = 0 not(TMP\_578) = 1 TMP\_579 = 0 TMP\_580 = 1 not(TMP\_580) = 0 TMP\_581 = 1 not(TMP\_581) = 0 TMP\_582 = 2 TMP\_583 = 0 not(TMP\_583) = 1 TMP\_584 = 0 not(TMP\_584) = 1 TMP\_585 = 1 not(TMP\_585) = 0 TMP\_586 = 1 not(TMP\_586) = 0 TMP\_587 = 1 not(TMP\_587) = 0 TMP\_588 = 2 TMP\_589 = 1 not(TMP\_589) = 0 TMP\_590 = 0 not(TMP\_590) = 1 TMP\_591 = 1 not(TMP\_591) = 0 TMP\_592 = 1 not(TMP\_592) = 0 TMP\_593 = 0 not(TMP\_593) = 1 TMP\_594 = 1 not(TMP\_594) = 0 TMP\_595 = 4 TMP\_596 = 0 not(TMP\_596) = 1 TMP\_597 = 0 not(TMP\_597) = 1 TMP\_598 = 0 TMP\_599 = 1 not(TMP\_599) = 0 TMP\_600 = 1 not(TMP\_600) = 0 TMP\_601 = 2 TMP\_602 = 0 not(TMP\_602) = 1 TMP\_603 = 0 not(TMP\_603) = 1 TMP\_604 = 1 not(TMP\_604) = 0 TMP\_605 = 1 not(TMP\_605) = 0 TMP\_606 = 1 not(TMP\_606) = 0 TMP\_607 = 2 TMP\_608 = 1 not(TMP\_608) = 0 TMP\_609 = 0 not(TMP\_609) = 1 TMP\_610 = 1 not(TMP\_610) = 0 TMP\_611 = 1 not(TMP\_611) = 0 TMP\_612 = 1 not(TMP\_612) = 0 TMP\_613 = 1 not(TMP\_613) = 0 TMP\_614 = 5 TMP\_615 = 0 not(TMP\_615) = 1 TMP\_616 = 0 not(TMP\_616) = 1 TMP\_617 = 0 TMP\_618 = 1 not(TMP\_618) = 0 TMP\_619 = 1 not(TMP\_619) = 0 TMP\_620 = 2 TMP\_621 = 0 not(TMP\_621) = 1 TMP\_622 = 0 not(TMP\_622) = 1 TMP\_623 = 1 not(TMP\_623) = 0 TMP\_624 = 1 not(TMP\_624) = 0 TMP\_625 = 1 not(TMP\_625) = 0 TMP\_626 = 2 TMP\_627 = 1 not(TMP\_627) = 0 TMP\_628 = 0 not(TMP\_628) = 1 TMP\_629 = 1 not(TMP\_629) = 0 TMP\_630 = 1 not(TMP\_630) = 0 TMP\_631 = 1 not(TMP\_631) = 0 TMP\_632 = 1 not(TMP\_632) = 0 TMP\_633 = 5 TMP\_634 = 0 not(TMP\_634) = 1 TMP\_635 = 0 not(TMP\_635) = 1 TMP\_636 = 0 TMP\_637 = 1 not(TMP\_637) = 0 TMP\_638 = 1 not(TMP\_638) = 0 TMP\_639 = 2 TMP\_640 = 0 not(TMP\_640) = 1 TMP\_641 = 0 not(TMP\_641) = 1 TMP\_642 = 1 not(TMP\_642) = 0 TMP\_643 = 1 not(TMP\_643) = 0 TMP\_644 = 1 not(TMP\_644) = 0 TMP\_645 = 2 TMP\_646 = 1 not(TMP\_646) = 0 TMP\_647 = 0 not(TMP\_647) = 1 TMP\_648 = 1 not(TMP\_648) = 0 TMP\_649 = 1 not(TMP\_649) = 0 TMP\_650 = 0 not(TMP\_650) = 1 TMP\_651 = 1 not(TMP\_651) = 0 TMP\_652 = 4 TMP\_653 = 0 not(TMP\_653) = 1 TMP\_654 = 0 not(TMP\_654) = 1 TMP\_655 = 0 TMP\_656 = 1 not(TMP\_656) = 0 TMP\_657 = 1 not(TMP\_657) = 0 TMP\_658 = 2 TMP\_659 = 0 not(TMP\_659) = 1 TMP\_660 = 0 not(TMP\_660) = 1 TMP\_661 = 1 not(TMP\_661) = 0 TMP\_662 = 1 not(TMP\_662) = 0 TMP\_663 = 1 not(TMP\_663) = 0 TMP\_664 = 2 TMP\_665 = 1 not(TMP\_665) = 0 TMP\_666 = 1 not(TMP\_666) = 0 TMP\_667 = 1 not(TMP\_667) = 0 TMP\_668 = 1 not(TMP\_668) = 0 TMP\_669 = 0 not(TMP\_669) = 1 TMP\_670 = 1 not(TMP\_670) = 0 TMP\_671 = 5 TMP\_672 = 0 not(TMP\_672) = 1 TMP\_673 = 0 not(TMP\_673) = 1 TMP\_674 = 0 TMP\_675 = 1 not(TMP\_675) = 0 TMP\_676 = 1 not(TMP\_676) = 0 TMP\_677 = 2 TMP\_678 = 0 not(TMP\_678) = 1 TMP\_679 = 0 not(TMP\_679) = 1 TMP\_680 = 1 not(TMP\_680) = 0 TMP\_681 = 1 not(TMP\_681) = 0 TMP\_682 = 1 not(TMP\_682) = 0 TMP\_683 = 2 Area\_0 = 60 Distance\_0\_Rule\_0 = 20 Distance\_1\_Rule\_0 = 3 Distance\_2\_Rule\_0 = 1 Area\_1 = 174 Distance\_0\_Rule\_1 = 58 Distance\_1\_Rule\_1 = 3 Distance\_2\_Rule\_1 = 1 Area\_2 = 116 Distance\_0\_Rule\_2 = 58 Distance\_1\_Rule\_2 = 2 Distance\_2\_Rule\_2 = 1 Area\_3 = 58 Distance\_0\_Rule\_3 = 58 Distance\_1\_Rule\_3 = 1 Distance\_2\_Rule\_3 = 1 Area\_4 = 120 Distance\_0\_Rule\_4 = 40 Distance\_1\_Rule\_4 = 3 Distance\_2\_Rule\_4 = 1 Area\_5 = 120 Distance\_0\_Rule\_5 = 40 Distance\_1\_Rule\_5 = 3 Distance\_2\_Rule\_5 = 1 Area\_6 = 3 -(Rule\_6\_LB) = -79 Distance\_0\_Rule\_6 = 1 -(Rule\_6\_LB) = 0 Distance\_1\_Rule\_6 = 3 -(Rule\_6\_LB) = -1 Distance\_2\_Rule\_6 = 1 Area\_7 = 3 -(Rule\_7\_LB) = -79 Distance\_0\_Rule\_7 = 1 -(Rule\_7\_LB) = 0 Distance\_1\_Rule\_7 = 3 -(Rule\_7\_LB) = 0 Distance\_2\_Rule\_7 = 1 Area\_8 = 63 -(Rule\_8\_LB) = 0 Distance\_0\_Rule\_8 = 21 -(Rule\_8\_LB) = 0 Distance\_1\_Rule\_8 = 3 -(Rule\_8\_LB) = 0 Distance\_2\_Rule\_8 = 1 Area\_9 = 3 -(Rule\_9\_LB) = -20 Distance\_0\_Rule\_9 = 1 -(Rule\_9\_LB) = 0 Distance\_1\_Rule\_9 = 3 -(Rule\_9\_LB) = -1 Distance\_2\_Rule\_9 = 1 TMP\_684 = 720 .

- Solution #20 found. 20 Solutions, Resolution 1.653s, 744 Nodes (450.1 n/s), 1362 Backtracks, 670 Fails, 0 Restarts

Rule\_6\_LB = 79 Rule\_6\_UB = 80 Rule\_6\_LB = 0 Rule\_6\_UB = 3 Rule\_6\_LB = 1 Rule\_6\_UB = 2 Rule\_7\_LB = 79 Rule\_7\_UB = 80 Rule\_7\_LB = 0 Rule\_7\_UB = 3 Rule\_7\_LB = 0 Rule\_7\_UB = 1 Rule\_8\_LB = 0 Rule\_8\_UB = 21 Rule\_8\_LB = 0 Rule\_8\_UB = 3 Rule\_8\_LB = 0 Rule\_8\_UB = 1 Rule\_9\_LB = 20 Rule\_9\_UB = 21 Rule\_9\_LB = 0 Rule\_9\_UB = 3 Rule\_9\_LB = 1 Rule\_9\_UB = 2 Overlaps\_0\_0 = 0 Overlaps\_0\_1 = 0 Overlaps\_0\_2 = 1 Overlaps\_0\_3 = 0 Overlaps\_0\_4 = 0 Overlaps\_0\_5 = 0 Overlaps\_0\_6 = 0 Overlaps\_0\_7 = 0 Overlaps\_0\_8 = 0 Overlaps\_0\_9 = 0 Overlaps\_1\_0 = 0 Overlaps\_1\_1 = 0 Overlaps\_1\_2 = 0 Overlaps\_1\_3 = 0 Overlaps\_1\_4 = 0 Overlaps\_1\_5 = 0 Overlaps\_1\_6 = 0 Overlaps\_1\_7 = 0 Overlaps\_1\_8 = 0 Overlaps\_1\_9 = 0 Overlaps\_2\_0 = 1 Overlaps\_2\_1 = 0 Overlaps\_2\_2 = 0 Overlaps\_2\_3 = 0 Overlaps\_2\_4 = 0 Overlaps\_2\_5 = 0 Overlaps\_2\_6 = 0 Overlaps\_2\_7 = 0 Overlaps\_2\_8 = 0 Overlaps\_2\_9 = 0 Overlaps\_3\_0 = 0 Overlaps\_3\_1 = 0 Overlaps\_3\_2 = 0 Overlaps\_3\_3 = 0 Overlaps\_3\_4 = 0 Overlaps\_3\_5 = 0 Overlaps\_3\_6 = 0 Overlaps\_3\_7 = 0 Overlaps\_3\_8 = 0 Overlaps\_3\_9 = 0 Overlaps\_4\_0 = 0 Overlaps\_4\_1 = 0 Overlaps\_4\_2 = 0 Overlaps\_4\_3 = 0 Overlaps\_4\_4 = 0 Overlaps\_4\_5 = 0 Overlaps\_4\_6 = 0 Overlaps\_4\_7 = 0 Overlaps\_4\_8 = 0 Overlaps\_4\_9 = 0 Overlaps\_5\_0 = 1 Overlaps\_5\_1 = 0 Overlaps\_5\_2 = 0 Overlaps\_5\_3 = 0 Overlaps\_5\_4 = 0 Overlaps\_5\_5 = 0 Overlaps\_5\_6 = 0 Overlaps\_5\_7 = 0 Overlaps\_5\_8 = 0 Overlaps\_5\_9 = 0 Overlaps\_6\_0 = 0 Overlaps\_6\_1 = 0 Overlaps\_6\_2 = 0 Overlaps\_6\_3 = 0 Overlaps\_6\_4 = 0 Overlaps\_6\_5 = 0 Overlaps\_6\_6 = 0 Overlaps\_6\_7 = 0 Overlaps\_6\_8 = 0 Overlaps\_6\_9 = 0 Overlaps\_7\_0 = 0 Overlaps\_7\_1 = 0 Overlaps\_7\_2 = 0 Overlaps\_7\_3 = 0 Overlaps\_7\_4 = 0 Overlaps\_7\_5 = 0 Overlaps\_7\_6 = 0 Overlaps\_7\_7 = 0 Overlaps\_7\_8 = 0 Overlaps\_7\_9 = 0 Overlaps\_8\_0 = 0 Overlaps\_8\_1 = 0 Overlaps\_8\_2 = 0 Overlaps\_8\_3 = 0 Overlaps\_8\_4 = 0 Overlaps\_8\_5 = 0 Overlaps\_8\_6 = 0 Overlaps\_8\_7 = 0 Overlaps\_8\_8 = 0 Overlaps\_8\_9 = 0 Overlaps\_9\_0 = 0 Overlaps\_9\_1 = 0 Overlaps\_9\_2 = 0 Overlaps\_9\_3 = 0 Overlaps\_9\_4 = 0 Overlaps\_9\_5 = 0 Overlaps\_9\_6 = 0 Overlaps\_9\_7 = 0 Overlaps\_9\_8 = 0 Overlaps\_9\_9 = 0 TMP\_0 = 0 not(TMP\_0) = 1 TMP\_1 = 1 not(TMP\_1) = 0 TMP\_2 = 1 not(TMP\_2) = 0 TMP\_3 = 1 not(TMP\_3) = 0 TMP\_4 = 1 not(TMP\_4) = 0 TMP\_5 = 1 not(TMP\_5) = 0 TMP\_6 = 5 TMP\_7 = 0 not(TMP\_7) = 1 TMP\_8 = 0 not(TMP\_8) = 1 TMP\_9 = 0 TMP\_10 = 1 not(TMP\_10) = 0 TMP\_11 = 1 not(TMP\_11) = 0 TMP\_12 = 2 TMP\_13 = 0 not(TMP\_13) = 1 TMP\_14 = 0 not(TMP\_14) = 1 TMP\_15 = 1 not(TMP\_15) = 0 TMP\_16 = 1 not(TMP\_16) = 0 TMP\_17 = 1 not(TMP\_17) = 0 TMP\_18 = 2 TMP\_19 = 0 not(TMP\_19) = 1 TMP\_20 = 1 not(TMP\_20) = 0 TMP\_21 = 1 not(TMP\_21) = 0 TMP\_22 = 1 not(TMP\_22) = 0 TMP\_23 = 1 not(TMP\_23) = 0 TMP\_24 = 1 not(TMP\_24) = 0 TMP\_25 = 5 TMP\_26 = 0 not(TMP\_26) = 1 TMP\_27 = 0 not(TMP\_27) = 1 TMP\_28 = 0 TMP\_29 = 1 not(TMP\_29) = 0 TMP\_30 = 1 not(TMP\_30) = 0 TMP\_31 = 2 TMP\_32 = 0 not(TMP\_32) = 1 TMP\_33 = 0 not(TMP\_33) = 1 TMP\_34 = 1 not(TMP\_34) = 0 TMP\_35 = 1 not(TMP\_35) = 0 TMP\_36 = 1 not(TMP\_36) = 0 TMP\_37 = 2 TMP\_38 = 0 not(TMP\_38) = 1 TMP\_39 = 1 not(TMP\_39) = 0 TMP\_40 = 1 not(TMP\_40) = 0 TMP\_41 = 1 not(TMP\_41) = 0 TMP\_42 = 0 not(TMP\_42) = 1 TMP\_43 = 1 not(TMP\_43) = 0 TMP\_44 = 4 TMP\_45 = 0 not(TMP\_45) = 1 TMP\_46 = 0 not(TMP\_46) = 1 TMP\_47 = 0 TMP\_48 = 1 not(TMP\_48) = 0 TMP\_49 = 1 not(TMP\_49) = 0 TMP\_50 = 2 TMP\_51 = 0 not(TMP\_51) = 1 TMP\_52 = 0 not(TMP\_52) = 1 TMP\_53 = 1 not(TMP\_53) = 0 TMP\_54 = 1 not(TMP\_54) = 0 TMP\_55 = 1 not(TMP\_55) = 0 TMP\_56 = 2 TMP\_57 = 0 not(TMP\_57) = 1 TMP\_58 = 1 not(TMP\_58) = 0 TMP\_59 = 1 not(TMP\_59) = 0 TMP\_60 = 1 not(TMP\_60) = 0 TMP\_61 = 0 not(TMP\_61) = 1 TMP\_62 = 1 not(TMP\_62) = 0 TMP\_63 = 4 TMP\_64 = 0 not(TMP\_64) = 1 TMP\_65 = 0 not(TMP\_65) = 1 TMP\_66 = 0 TMP\_67 = 1 not(TMP\_67) = 0 TMP\_68 = 1 not(TMP\_68) = 0 TMP\_69 = 2 TMP\_70 = 0 not(TMP\_70) = 1 TMP\_71 = 0 not(TMP\_71) = 1 TMP\_72 = 1 not(TMP\_72) = 0 TMP\_73 = 1 not(TMP\_73) = 0 TMP\_74 = 1 not(TMP\_74) = 0 TMP\_75 = 2 TMP\_76 = 1 not(TMP\_76) = 0 TMP\_77 = 0 not(TMP\_77) = 1 TMP\_78 = 1 not(TMP\_78) = 0 TMP\_79 = 1 not(TMP\_79) = 0 TMP\_80 = 0 not(TMP\_80) = 1 TMP\_81 = 1 not(TMP\_81) = 0 TMP\_82 = 4 TMP\_83 = 0 not(TMP\_83) = 1 TMP\_84 = 0 not(TMP\_84) = 1 TMP\_85 = 0 TMP\_86 = 1 not(TMP\_86) = 0 TMP\_87 = 1 not(TMP\_87) = 0 TMP\_88 = 2 TMP\_89 = 0 not(TMP\_89) = 1 TMP\_90 = 0 not(TMP\_90) = 1 TMP\_91 = 1 not(TMP\_91) = 0 TMP\_92 = 1 not(TMP\_92) = 0 TMP\_93 = 1 not(TMP\_93) = 0 TMP\_94 = 2 TMP\_95 = 1 not(TMP\_95) = 0 TMP\_96 = 0 not(TMP\_96) = 1 TMP\_97 = 1 not(TMP\_97) = 0 TMP\_98 = 1 not(TMP\_98) = 0 TMP\_99 = 1 not(TMP\_99) = 0 TMP\_100 = 1 not(TMP\_100) = 0 TMP\_101 = 5 TMP\_102 = 0 not(TMP\_102) = 1 TMP\_103 = 0 not(TMP\_103) = 1 TMP\_104 = 0 TMP\_105 = 1 not(TMP\_105) = 0 TMP\_106 = 1 not(TMP\_106) = 0 TMP\_107 = 2 TMP\_108 = 0 not(TMP\_108) = 1 TMP\_109 = 0 not(TMP\_109) = 1 TMP\_110 = 1 not(TMP\_110) = 0 TMP\_111 = 1 not(TMP\_111) = 0 TMP\_112 = 1 not(TMP\_112) = 0 TMP\_113 = 2 TMP\_114 = 1 not(TMP\_114) = 0 TMP\_115 = 1 not(TMP\_115) = 0 TMP\_116 = 1 not(TMP\_116) = 0 TMP\_117 = 1 not(TMP\_117) = 0 TMP\_118 = 0 not(TMP\_118) = 1 TMP\_119 = 1 not(TMP\_119) = 0 TMP\_120 = 5 TMP\_121 = 0 not(TMP\_121) = 1 TMP\_122 = 0 not(TMP\_122) = 1 TMP\_123 = 0 TMP\_124 = 1 not(TMP\_124) = 0 TMP\_125 = 1 not(TMP\_125) = 0 TMP\_126 = 2 TMP\_127 = 0 not(TMP\_127) = 1 TMP\_128 = 0 not(TMP\_128) = 1 TMP\_129 = 1 not(TMP\_129) = 0 TMP\_130 = 1 not(TMP\_130) = 0 TMP\_131 = 1 not(TMP\_131) = 0 TMP\_132 = 2 TMP\_133 = 0 not(TMP\_133) = 1 TMP\_134 = 1 not(TMP\_134) = 0 TMP\_135 = 1 not(TMP\_135) = 0 TMP\_136 = 1 not(TMP\_136) = 0 TMP\_137 = 0 not(TMP\_137) = 1 TMP\_138 = 1 not(TMP\_138) = 0 TMP\_139 = 4 TMP\_140 = 0 not(TMP\_140) = 1 TMP\_141 = 0 not(TMP\_141) = 1 TMP\_142 = 0 TMP\_143 = 1 not(TMP\_143) = 0 TMP\_144 = 1 not(TMP\_144) = 0 TMP\_145 = 2 TMP\_146 = 0 not(TMP\_146) = 1 TMP\_147 = 0 not(TMP\_147) = 1 TMP\_148 = 1 not(TMP\_148) = 0 TMP\_149 = 1 not(TMP\_149) = 0 TMP\_150 = 1 not(TMP\_150) = 0 TMP\_151 = 2 TMP\_152 = 0 not(TMP\_152) = 1 TMP\_153 = 1 not(TMP\_153) = 0 TMP\_154 = 1 not(TMP\_154) = 0 TMP\_155 = 1 not(TMP\_155) = 0 TMP\_156 = 1 not(TMP\_156) = 0 TMP\_157 = 1 not(TMP\_157) = 0 TMP\_158 = 5 TMP\_159 = 0 not(TMP\_159) = 1 TMP\_160 = 0 not(TMP\_160) = 1 TMP\_161 = 0 TMP\_162 = 1 not(TMP\_162) = 0 TMP\_163 = 1 not(TMP\_163) = 0 TMP\_164 = 2 TMP\_165 = 0 not(TMP\_165) = 1 TMP\_166 = 0 not(TMP\_166) = 1 TMP\_167 = 1 not(TMP\_167) = 0 TMP\_168 = 1 not(TMP\_168) = 0 TMP\_169 = 1 not(TMP\_169) = 0 TMP\_170 = 2 TMP\_171 = 0 not(TMP\_171) = 1 TMP\_172 = 1 not(TMP\_172) = 0 TMP\_173 = 1 not(TMP\_173) = 0 TMP\_174 = 1 not(TMP\_174) = 0 TMP\_175 = 1 not(TMP\_175) = 0 TMP\_176 = 0 not(TMP\_176) = 1 TMP\_177 = 4 TMP\_178 = 0 not(TMP\_178) = 1 TMP\_179 = 0 not(TMP\_179) = 1 TMP\_180 = 0 TMP\_181 = 1 not(TMP\_181) = 0 TMP\_182 = 1 not(TMP\_182) = 0 TMP\_183 = 2 TMP\_184 = 0 not(TMP\_184) = 1 TMP\_185 = 0 not(TMP\_185) = 1 TMP\_186 = 1 not(TMP\_186) = 0 TMP\_187 = 1 not(TMP\_187) = 0 TMP\_188 = 1 not(TMP\_188) = 0 TMP\_189 = 2 TMP\_190 = 0 not(TMP\_190) = 1 TMP\_191 = 1 not(TMP\_191) = 0 TMP\_192 = 1 not(TMP\_192) = 0 TMP\_193 = 1 not(TMP\_193) = 0 TMP\_194 = 1 not(TMP\_194) = 0 TMP\_195 = 0 not(TMP\_195) = 1 TMP\_196 = 4 TMP\_197 = 0 not(TMP\_197) = 1 TMP\_198 = 0 not(TMP\_198) = 1 TMP\_199 = 0 TMP\_200 = 1 not(TMP\_200) = 0 TMP\_201 = 1 not(TMP\_201) = 0 TMP\_202 = 2 TMP\_203 = 0 not(TMP\_203) = 1 TMP\_204 = 0 not(TMP\_204) = 1 TMP\_205 = 1 not(TMP\_205) = 0 TMP\_206 = 1 not(TMP\_206) = 0 TMP\_207 = 1 not(TMP\_207) = 0 TMP\_208 = 2 TMP\_209 = 0 not(TMP\_209) = 1 TMP\_210 = 1 not(TMP\_210) = 0 TMP\_211 = 1 not(TMP\_211) = 0 TMP\_212 = 1 not(TMP\_212) = 0 TMP\_213 = 1 not(TMP\_213) = 0 TMP\_214 = 1 not(TMP\_214) = 0 TMP\_215 = 5 TMP\_216 = 0 not(TMP\_216) = 1 TMP\_217 = 0 not(TMP\_217) = 1 TMP\_218 = 0 TMP\_219 = 1 not(TMP\_219) = 0 TMP\_220 = 1 not(TMP\_220) = 0 TMP\_221 = 2 TMP\_222 = 0 not(TMP\_222) = 1 TMP\_223 = 0 not(TMP\_223) = 1 TMP\_224 = 1 not(TMP\_224) = 0 TMP\_225 = 1 not(TMP\_225) = 0 TMP\_226 = 1 not(TMP\_226) = 0 TMP\_227 = 2 TMP\_228 = 0 not(TMP\_228) = 1 TMP\_229 = 1 not(TMP\_229) = 0 TMP\_230 = 1 not(TMP\_230) = 0 TMP\_231 = 1 not(TMP\_231) = 0 TMP\_232 = 1 not(TMP\_232) = 0 TMP\_233 = 1 not(TMP\_233) = 0 TMP\_234 = 5 TMP\_235 = 0 not(TMP\_235) = 1 TMP\_236 = 0 not(TMP\_236) = 1 TMP\_237 = 0 TMP\_238 = 1 not(TMP\_238) = 0 TMP\_239 = 1 not(TMP\_239) = 0 TMP\_240 = 2 TMP\_241 = 0 not(TMP\_241) = 1 TMP\_242 = 0 not(TMP\_242) = 1 TMP\_243 = 1 not(TMP\_243) = 0 TMP\_244 = 1 not(TMP\_244) = 0 TMP\_245 = 1 not(TMP\_245) = 0 TMP\_246 = 2 TMP\_247 = 1 not(TMP\_247) = 0 TMP\_248 = 0 not(TMP\_248) = 1 TMP\_249 = 1 not(TMP\_249) = 0 TMP\_250 = 1 not(TMP\_250) = 0 TMP\_251 = 1 not(TMP\_251) = 0 TMP\_252 = 1 not(TMP\_252) = 0 TMP\_253 = 5 TMP\_254 = 0 not(TMP\_254) = 1 TMP\_255 = 0 not(TMP\_255) = 1 TMP\_256 = 0 TMP\_257 = 1 not(TMP\_257) = 0 TMP\_258 = 1 not(TMP\_258) = 0 TMP\_259 = 2 TMP\_260 = 0 not(TMP\_260) = 1 TMP\_261 = 0 not(TMP\_261) = 1 TMP\_262 = 1 not(TMP\_262) = 0 TMP\_263 = 1 not(TMP\_263) = 0 TMP\_264 = 1 not(TMP\_264) = 0 TMP\_265 = 2 TMP\_266 = 1 not(TMP\_266) = 0 TMP\_267 = 0 not(TMP\_267) = 1 TMP\_268 = 1 not(TMP\_268) = 0 TMP\_269 = 1 not(TMP\_269) = 0 TMP\_270 = 1 not(TMP\_270) = 0 TMP\_271 = 0 not(TMP\_271) = 1 TMP\_272 = 4 TMP\_273 = 0 not(TMP\_273) = 1 TMP\_274 = 0 not(TMP\_274) = 1 TMP\_275 = 0 TMP\_276 = 1 not(TMP\_276) = 0 TMP\_277 = 1 not(TMP\_277) = 0 TMP\_278 = 2 TMP\_279 = 0 not(TMP\_279) = 1 TMP\_280 = 0 not(TMP\_280) = 1 TMP\_281 = 1 not(TMP\_281) = 0 TMP\_282 = 1 not(TMP\_282) = 0 TMP\_283 = 1 not(TMP\_283) = 0 TMP\_284 = 2 TMP\_285 = 1 not(TMP\_285) = 0 TMP\_286 = 1 not(TMP\_286) = 0 TMP\_287 = 1 not(TMP\_287) = 0 TMP\_288 = 1 not(TMP\_288) = 0 TMP\_289 = 1 not(TMP\_289) = 0 TMP\_290 = 0 not(TMP\_290) = 1 TMP\_291 = 5 TMP\_292 = 0 not(TMP\_292) = 1 TMP\_293 = 0 not(TMP\_293) = 1 TMP\_294 = 0 TMP\_295 = 1 not(TMP\_295) = 0 TMP\_296 = 1 not(TMP\_296) = 0 TMP\_297 = 2 TMP\_298 = 0 not(TMP\_298) = 1 TMP\_299 = 0 not(TMP\_299) = 1 TMP\_300 = 1 not(TMP\_300) = 0 TMP\_301 = 1 not(TMP\_301) = 0 TMP\_302 = 1 not(TMP\_302) = 0 TMP\_303 = 2 TMP\_304 = 0 not(TMP\_304) = 1 TMP\_305 = 1 not(TMP\_305) = 0 TMP\_306 = 1 not(TMP\_306) = 0 TMP\_307 = 1 not(TMP\_307) = 0 TMP\_308 = 1 not(TMP\_308) = 0 TMP\_309 = 1 not(TMP\_309) = 0 TMP\_310 = 5 TMP\_311 = 0 not(TMP\_311) = 1 TMP\_312 = 0 not(TMP\_312) = 1 TMP\_313 = 0 TMP\_314 = 1 not(TMP\_314) = 0 TMP\_315 = 1 not(TMP\_315) = 0 TMP\_316 = 2 TMP\_317 = 0 not(TMP\_317) = 1 TMP\_318 = 0 not(TMP\_318) = 1 TMP\_319 = 1 not(TMP\_319) = 0 TMP\_320 = 1 not(TMP\_320) = 0 TMP\_321 = 1 not(TMP\_321) = 0 TMP\_322 = 2 TMP\_323 = 0 not(TMP\_323) = 1 TMP\_324 = 1 not(TMP\_324) = 0 TMP\_325 = 1 not(TMP\_325) = 0 TMP\_326 = 1 not(TMP\_326) = 0 TMP\_327 = 1 not(TMP\_327) = 0 TMP\_328 = 0 not(TMP\_328) = 1 TMP\_329 = 4 TMP\_330 = 0 not(TMP\_330) = 1 TMP\_331 = 0 not(TMP\_331) = 1 TMP\_332 = 0 TMP\_333 = 1 not(TMP\_333) = 0 TMP\_334 = 1 not(TMP\_334) = 0 TMP\_335 = 2 TMP\_336 = 0 not(TMP\_336) = 1 TMP\_337 = 0 not(TMP\_337) = 1 TMP\_338 = 1 not(TMP\_338) = 0 TMP\_339 = 1 not(TMP\_339) = 0 TMP\_340 = 1 not(TMP\_340) = 0 TMP\_341 = 2 TMP\_342 = 1 not(TMP\_342) = 0 TMP\_343 = 1 not(TMP\_343) = 0 TMP\_344 = 1 not(TMP\_344) = 0 TMP\_345 = 1 not(TMP\_345) = 0 TMP\_346 = 1 not(TMP\_346) = 0 TMP\_347 = 0 not(TMP\_347) = 1 TMP\_348 = 5 TMP\_349 = 0 not(TMP\_349) = 1 TMP\_350 = 0 not(TMP\_350) = 1 TMP\_351 = 0 TMP\_352 = 1 not(TMP\_352) = 0 TMP\_353 = 1 not(TMP\_353) = 0 TMP\_354 = 2 TMP\_355 = 0 not(TMP\_355) = 1 TMP\_356 = 0 not(TMP\_356) = 1 TMP\_357 = 1 not(TMP\_357) = 0 TMP\_358 = 1 not(TMP\_358) = 0 TMP\_359 = 1 not(TMP\_359) = 0 TMP\_360 = 2 TMP\_361 = 1 not(TMP\_361) = 0 TMP\_362 = 0 not(TMP\_362) = 1 TMP\_363 = 1 not(TMP\_363) = 0 TMP\_364 = 1 not(TMP\_364) = 0 TMP\_365 = 1 not(TMP\_365) = 0 TMP\_366 = 0 not(TMP\_366) = 1 TMP\_367 = 4 TMP\_368 = 0 not(TMP\_368) = 1 TMP\_369 = 0 not(TMP\_369) = 1 TMP\_370 = 0 TMP\_371 = 1 not(TMP\_371) = 0 TMP\_372 = 1 not(TMP\_372) = 0 TMP\_373 = 2 TMP\_374 = 0 not(TMP\_374) = 1 TMP\_375 = 0 not(TMP\_375) = 1 TMP\_376 = 1 not(TMP\_376) = 0 TMP\_377 = 1 not(TMP\_377) = 0 TMP\_378 = 1 not(TMP\_378) = 0 TMP\_379 = 2 TMP\_380 = 1 not(TMP\_380) = 0 TMP\_381 = 0 not(TMP\_381) = 1 TMP\_382 = 1 not(TMP\_382) = 0 TMP\_383 = 1 not(TMP\_383) = 0 TMP\_384 = 1 not(TMP\_384) = 0 TMP\_385 = 1 not(TMP\_385) = 0 TMP\_386 = 5 TMP\_387 = 0 not(TMP\_387) = 1 TMP\_388 = 0 not(TMP\_388) = 1 TMP\_389 = 0 TMP\_390 = 1 not(TMP\_390) = 0 TMP\_391 = 1 not(TMP\_391) = 0 TMP\_392 = 2 TMP\_393 = 0 not(TMP\_393) = 1 TMP\_394 = 0 not(TMP\_394) = 1 TMP\_395 = 1 not(TMP\_395) = 0 TMP\_396 = 1 not(TMP\_396) = 0 TMP\_397 = 1 not(TMP\_397) = 0 TMP\_398 = 2 TMP\_399 = 1 not(TMP\_399) = 0 TMP\_400 = 0 not(TMP\_400) = 1 TMP\_401 = 1 not(TMP\_401) = 0 TMP\_402 = 1 not(TMP\_402) = 0 TMP\_403 = 1 not(TMP\_403) = 0 TMP\_404 = 1 not(TMP\_404) = 0 TMP\_405 = 5 TMP\_406 = 0 not(TMP\_406) = 1 TMP\_407 = 0 not(TMP\_407) = 1 TMP\_408 = 0 TMP\_409 = 1 not(TMP\_409) = 0 TMP\_410 = 1 not(TMP\_410) = 0 TMP\_411 = 2 TMP\_412 = 0 not(TMP\_412) = 1 TMP\_413 = 0 not(TMP\_413) = 1 TMP\_414 = 1 not(TMP\_414) = 0 TMP\_415 = 1 not(TMP\_415) = 0 TMP\_416 = 1 not(TMP\_416) = 0 TMP\_417 = 2 TMP\_418 = 1 not(TMP\_418) = 0 TMP\_419 = 0 not(TMP\_419) = 1 TMP\_420 = 1 not(TMP\_420) = 0 TMP\_421 = 1 not(TMP\_421) = 0 TMP\_422 = 1 not(TMP\_422) = 0 TMP\_423 = 1 not(TMP\_423) = 0 TMP\_424 = 5 TMP\_425 = 0 not(TMP\_425) = 1 TMP\_426 = 0 not(TMP\_426) = 1 TMP\_427 = 0 TMP\_428 = 1 not(TMP\_428) = 0 TMP\_429 = 1 not(TMP\_429) = 0 TMP\_430 = 2 TMP\_431 = 0 not(TMP\_431) = 1 TMP\_432 = 0 not(TMP\_432) = 1 TMP\_433 = 1 not(TMP\_433) = 0 TMP\_434 = 1 not(TMP\_434) = 0 TMP\_435 = 1 not(TMP\_435) = 0 TMP\_436 = 2 TMP\_437 = 1 not(TMP\_437) = 0 TMP\_438 = 0 not(TMP\_438) = 1 TMP\_439 = 1 not(TMP\_439) = 0 TMP\_440 = 1 not(TMP\_440) = 0 TMP\_441 = 1 not(TMP\_441) = 0 TMP\_442 = 0 not(TMP\_442) = 1 TMP\_443 = 4 TMP\_444 = 0 not(TMP\_444) = 1 TMP\_445 = 0 not(TMP\_445) = 1 TMP\_446 = 0 TMP\_447 = 1 not(TMP\_447) = 0 TMP\_448 = 1 not(TMP\_448) = 0 TMP\_449 = 2 TMP\_450 = 0 not(TMP\_450) = 1 TMP\_451 = 0 not(TMP\_451) = 1 TMP\_452 = 1 not(TMP\_452) = 0 TMP\_453 = 1 not(TMP\_453) = 0 TMP\_454 = 1 not(TMP\_454) = 0 TMP\_455 = 2 TMP\_456 = 1 not(TMP\_456) = 0 TMP\_457 = 0 not(TMP\_457) = 1 TMP\_458 = 1 not(TMP\_458) = 0 TMP\_459 = 1 not(TMP\_459) = 0 TMP\_460 = 1 not(TMP\_460) = 0 TMP\_461 = 0 not(TMP\_461) = 1 TMP\_462 = 4 TMP\_463 = 0 not(TMP\_463) = 1 TMP\_464 = 0 not(TMP\_464) = 1 TMP\_465 = 0 TMP\_466 = 1 not(TMP\_466) = 0 TMP\_467 = 1 not(TMP\_467) = 0 TMP\_468 = 2 TMP\_469 = 0 not(TMP\_469) = 1 TMP\_470 = 0 not(TMP\_470) = 1 TMP\_471 = 1 not(TMP\_471) = 0 TMP\_472 = 1 not(TMP\_472) = 0 TMP\_473 = 1 not(TMP\_473) = 0 TMP\_474 = 2 TMP\_475 = 1 not(TMP\_475) = 0 TMP\_476 = 0 not(TMP\_476) = 1 TMP\_477 = 1 not(TMP\_477) = 0 TMP\_478 = 1 not(TMP\_478) = 0 TMP\_479 = 1 not(TMP\_479) = 0 TMP\_480 = 1 not(TMP\_480) = 0 TMP\_481 = 5 TMP\_482 = 0 not(TMP\_482) = 1 TMP\_483 = 0 not(TMP\_483) = 1 TMP\_484 = 0 TMP\_485 = 1 not(TMP\_485) = 0 TMP\_486 = 1 not(TMP\_486) = 0 TMP\_487 = 2 TMP\_488 = 0 not(TMP\_488) = 1 TMP\_489 = 0 not(TMP\_489) = 1 TMP\_490 = 1 not(TMP\_490) = 0 TMP\_491 = 1 not(TMP\_491) = 0 TMP\_492 = 1 not(TMP\_492) = 0 TMP\_493 = 2 TMP\_494 = 1 not(TMP\_494) = 0 TMP\_495 = 1 not(TMP\_495) = 0 TMP\_496 = 1 not(TMP\_496) = 0 TMP\_497 = 1 not(TMP\_497) = 0 TMP\_498 = 1 not(TMP\_498) = 0 TMP\_499 = 0 not(TMP\_499) = 1 TMP\_500 = 5 TMP\_501 = 0 not(TMP\_501) = 1 TMP\_502 = 0 not(TMP\_502) = 1 TMP\_503 = 0 TMP\_504 = 1 not(TMP\_504) = 0 TMP\_505 = 1 not(TMP\_505) = 0 TMP\_506 = 2 TMP\_507 = 0 not(TMP\_507) = 1 TMP\_508 = 0 not(TMP\_508) = 1 TMP\_509 = 1 not(TMP\_509) = 0 TMP\_510 = 1 not(TMP\_510) = 0 TMP\_511 = 1 not(TMP\_511) = 0 TMP\_512 = 2 TMP\_513 = 0 not(TMP\_513) = 1 TMP\_514 = 1 not(TMP\_514) = 0 TMP\_515 = 1 not(TMP\_515) = 0 TMP\_516 = 1 not(TMP\_516) = 0 TMP\_517 = 1 not(TMP\_517) = 0 TMP\_518 = 1 not(TMP\_518) = 0 TMP\_519 = 5 TMP\_520 = 0 not(TMP\_520) = 1 TMP\_521 = 0 not(TMP\_521) = 1 TMP\_522 = 0 TMP\_523 = 1 not(TMP\_523) = 0 TMP\_524 = 1 not(TMP\_524) = 0 TMP\_525 = 2 TMP\_526 = 0 not(TMP\_526) = 1 TMP\_527 = 0 not(TMP\_527) = 1 TMP\_528 = 1 not(TMP\_528) = 0 TMP\_529 = 1 not(TMP\_529) = 0 TMP\_530 = 1 not(TMP\_530) = 0 TMP\_531 = 2 TMP\_532 = 1 not(TMP\_532) = 0 TMP\_533 = 0 not(TMP\_533) = 1 TMP\_534 = 1 not(TMP\_534) = 0 TMP\_535 = 1 not(TMP\_535) = 0 TMP\_536 = 1 not(TMP\_536) = 0 TMP\_537 = 1 not(TMP\_537) = 0 TMP\_538 = 5 TMP\_539 = 0 not(TMP\_539) = 1 TMP\_540 = 0 not(TMP\_540) = 1 TMP\_541 = 0 TMP\_542 = 1 not(TMP\_542) = 0 TMP\_543 = 1 not(TMP\_543) = 0 TMP\_544 = 2 TMP\_545 = 0 not(TMP\_545) = 1 TMP\_546 = 0 not(TMP\_546) = 1 TMP\_547 = 1 not(TMP\_547) = 0 TMP\_548 = 1 not(TMP\_548) = 0 TMP\_549 = 1 not(TMP\_549) = 0 TMP\_550 = 2 TMP\_551 = 1 not(TMP\_551) = 0 TMP\_552 = 0 not(TMP\_552) = 1 TMP\_553 = 1 not(TMP\_553) = 0 TMP\_554 = 1 not(TMP\_554) = 0 TMP\_555 = 0 not(TMP\_555) = 1 TMP\_556 = 1 not(TMP\_556) = 0 TMP\_557 = 4 TMP\_558 = 0 not(TMP\_558) = 1 TMP\_559 = 0 not(TMP\_559) = 1 TMP\_560 = 0 TMP\_561 = 1 not(TMP\_561) = 0 TMP\_562 = 1 not(TMP\_562) = 0 TMP\_563 = 2 TMP\_564 = 0 not(TMP\_564) = 1 TMP\_565 = 0 not(TMP\_565) = 1 TMP\_566 = 1 not(TMP\_566) = 0 TMP\_567 = 1 not(TMP\_567) = 0 TMP\_568 = 1 not(TMP\_568) = 0 TMP\_569 = 2 TMP\_570 = 1 not(TMP\_570) = 0 TMP\_571 = 0 not(TMP\_571) = 1 TMP\_572 = 1 not(TMP\_572) = 0 TMP\_573 = 1 not(TMP\_573) = 0 TMP\_574 = 0 not(TMP\_574) = 1 TMP\_575 = 1 not(TMP\_575) = 0 TMP\_576 = 4 TMP\_577 = 0 not(TMP\_577) = 1 TMP\_578 = 0 not(TMP\_578) = 1 TMP\_579 = 0 TMP\_580 = 1 not(TMP\_580) = 0 TMP\_581 = 1 not(TMP\_581) = 0 TMP\_582 = 2 TMP\_583 = 0 not(TMP\_583) = 1 TMP\_584 = 0 not(TMP\_584) = 1 TMP\_585 = 1 not(TMP\_585) = 0 TMP\_586 = 1 not(TMP\_586) = 0 TMP\_587 = 1 not(TMP\_587) = 0 TMP\_588 = 2 TMP\_589 = 1 not(TMP\_589) = 0 TMP\_590 = 0 not(TMP\_590) = 1 TMP\_591 = 1 not(TMP\_591) = 0 TMP\_592 = 1 not(TMP\_592) = 0 TMP\_593 = 0 not(TMP\_593) = 1 TMP\_594 = 1 not(TMP\_594) = 0 TMP\_595 = 4 TMP\_596 = 0 not(TMP\_596) = 1 TMP\_597 = 0 not(TMP\_597) = 1 TMP\_598 = 0 TMP\_599 = 1 not(TMP\_599) = 0 TMP\_600 = 1 not(TMP\_600) = 0 TMP\_601 = 2 TMP\_602 = 0 not(TMP\_602) = 1 TMP\_603 = 0 not(TMP\_603) = 1 TMP\_604 = 1 not(TMP\_604) = 0 TMP\_605 = 1 not(TMP\_605) = 0 TMP\_606 = 1 not(TMP\_606) = 0 TMP\_607 = 2 TMP\_608 = 1 not(TMP\_608) = 0 TMP\_609 = 0 not(TMP\_609) = 1 TMP\_610 = 1 not(TMP\_610) = 0 TMP\_611 = 1 not(TMP\_611) = 0 TMP\_612 = 1 not(TMP\_612) = 0 TMP\_613 = 1 not(TMP\_613) = 0 TMP\_614 = 5 TMP\_615 = 0 not(TMP\_615) = 1 TMP\_616 = 0 not(TMP\_616) = 1 TMP\_617 = 0 TMP\_618 = 1 not(TMP\_618) = 0 TMP\_619 = 1 not(TMP\_619) = 0 TMP\_620 = 2 TMP\_621 = 0 not(TMP\_621) = 1 TMP\_622 = 0 not(TMP\_622) = 1 TMP\_623 = 1 not(TMP\_623) = 0 TMP\_624 = 1 not(TMP\_624) = 0 TMP\_625 = 1 not(TMP\_625) = 0 TMP\_626 = 2 TMP\_627 = 1 not(TMP\_627) = 0 TMP\_628 = 0 not(TMP\_628) = 1 TMP\_629 = 1 not(TMP\_629) = 0 TMP\_630 = 1 not(TMP\_630) = 0 TMP\_631 = 1 not(TMP\_631) = 0 TMP\_632 = 1 not(TMP\_632) = 0 TMP\_633 = 5 TMP\_634 = 0 not(TMP\_634) = 1 TMP\_635 = 0 not(TMP\_635) = 1 TMP\_636 = 0 TMP\_637 = 1 not(TMP\_637) = 0 TMP\_638 = 1 not(TMP\_638) = 0 TMP\_639 = 2 TMP\_640 = 0 not(TMP\_640) = 1 TMP\_641 = 0 not(TMP\_641) = 1 TMP\_642 = 1 not(TMP\_642) = 0 TMP\_643 = 1 not(TMP\_643) = 0 TMP\_644 = 1 not(TMP\_644) = 0 TMP\_645 = 2 TMP\_646 = 1 not(TMP\_646) = 0 TMP\_647 = 0 not(TMP\_647) = 1 TMP\_648 = 1 not(TMP\_648) = 0 TMP\_649 = 1 not(TMP\_649) = 0 TMP\_650 = 0 not(TMP\_650) = 1 TMP\_651 = 1 not(TMP\_651) = 0 TMP\_652 = 4 TMP\_653 = 0 not(TMP\_653) = 1 TMP\_654 = 0 not(TMP\_654) = 1 TMP\_655 = 0 TMP\_656 = 1 not(TMP\_656) = 0 TMP\_657 = 1 not(TMP\_657) = 0 TMP\_658 = 2 TMP\_659 = 0 not(TMP\_659) = 1 TMP\_660 = 0 not(TMP\_660) = 1 TMP\_661 = 1 not(TMP\_661) = 0 TMP\_662 = 1 not(TMP\_662) = 0 TMP\_663 = 1 not(TMP\_663) = 0 TMP\_664 = 2 TMP\_665 = 1 not(TMP\_665) = 0 TMP\_666 = 1 not(TMP\_666) = 0 TMP\_667 = 1 not(TMP\_667) = 0 TMP\_668 = 1 not(TMP\_668) = 0 TMP\_669 = 0 not(TMP\_669) = 1 TMP\_670 = 1 not(TMP\_670) = 0 TMP\_671 = 5 TMP\_672 = 0 not(TMP\_672) = 1 TMP\_673 = 0 not(TMP\_673) = 1 TMP\_674 = 0 TMP\_675 = 1 not(TMP\_675) = 0 TMP\_676 = 1 not(TMP\_676) = 0 TMP\_677 = 2 TMP\_678 = 0 not(TMP\_678) = 1 TMP\_679 = 0 not(TMP\_679) = 1 TMP\_680 = 1 not(TMP\_680) = 0 TMP\_681 = 1 not(TMP\_681) = 0 TMP\_682 = 1 not(TMP\_682) = 0 TMP\_683 = 2 Area\_0 = 60 Distance\_0\_Rule\_0 = 20 Distance\_1\_Rule\_0 = 3 Distance\_2\_Rule\_0 = 1 Area\_1 = 174 Distance\_0\_Rule\_1 = 58 Distance\_1\_Rule\_1 = 3 Distance\_2\_Rule\_1 = 1 Area\_2 = 116 Distance\_0\_Rule\_2 = 58 Distance\_1\_Rule\_2 = 2 Distance\_2\_Rule\_2 = 1 Area\_3 = 58 Distance\_0\_Rule\_3 = 58 Distance\_1\_Rule\_3 = 1 Distance\_2\_Rule\_3 = 1 Area\_4 = 120 Distance\_0\_Rule\_4 = 40 Distance\_1\_Rule\_4 = 3 Distance\_2\_Rule\_4 = 1 Area\_5 = 120 Distance\_0\_Rule\_5 = 40 Distance\_1\_Rule\_5 = 3 Distance\_2\_Rule\_5 = 1 Area\_6 = 3 -(Rule\_6\_LB) = -79 Distance\_0\_Rule\_6 = 1 -(Rule\_6\_LB) = 0 Distance\_1\_Rule\_6 = 3 -(Rule\_6\_LB) = -1 Distance\_2\_Rule\_6 = 1 Area\_7 = 3 -(Rule\_7\_LB) = -79 Distance\_0\_Rule\_7 = 1 -(Rule\_7\_LB) = 0 Distance\_1\_Rule\_7 = 3 -(Rule\_7\_LB) = 0 Distance\_2\_Rule\_7 = 1 Area\_8 = 63 -(Rule\_8\_LB) = 0 Distance\_0\_Rule\_8 = 21 -(Rule\_8\_LB) = 0 Distance\_1\_Rule\_8 = 3 -(Rule\_8\_LB) = 0 Distance\_2\_Rule\_8 = 1 Area\_9 = 3 -(Rule\_9\_LB) = -20 Distance\_0\_Rule\_9 = 1 -(Rule\_9\_LB) = 0 Distance\_1\_Rule\_9 = 3 -(Rule\_9\_LB) = -1 Distance\_2\_Rule\_9 = 1 TMP\_684 = 720 .

- Incomplete search - Limit reached.

Solutions: 20

Building time : 0.371s

Initialisation : 0.001s

Initial propagation : 0.084s

Resolution : 1.656s

Nodes: 744 (449.3 n/s)

Backtracks: 1,362

Fails: 670

Restarts: 0

Max depth: 51

Memory: 9mb

Variables: 1,458

Constraints: 1,454

## Rules = 7 - Missing Rules = 5

- Solution #1 found. 1 Solutions, Resolution 1.228s, 1458 Nodes (1,187.5 n/s), 2800 Backtracks, 1405 Fails, 0 Restarts

Rule\_7\_LB = 79 Rule\_7\_UB = 80 Rule\_7\_LB = 0 Rule\_7\_UB = 3 Rule\_7\_LB = 1 Rule\_7\_UB = 2 Rule\_8\_LB = 79 Rule\_8\_UB = 80 Rule\_8\_LB = 0 Rule\_8\_UB = 1 Rule\_8\_LB = 0 Rule\_8\_UB = 1 Rule\_9\_LB = 20 Rule\_9\_UB = 21 Rule\_9\_LB = 0 Rule\_9\_UB = 3 Rule\_9\_LB = 0 Rule\_9\_UB = 1 Rule\_10\_LB = 20 Rule\_10\_UB = 21 Rule\_10\_LB = 0 Rule\_10\_UB = 3 Rule\_10\_LB = 1 Rule\_10\_UB = 2 Rule\_11\_LB = 79 Rule\_11\_UB = 80 Rule\_11\_LB = 1 Rule\_11\_UB = 3 Rule\_11\_LB = 0 Rule\_11\_UB = 1 Overlaps\_0\_0 = 0 Overlaps\_0\_1 = 0 Overlaps\_0\_2 = 0 Overlaps\_0\_3 = 0 Overlaps\_0\_4 = 0 Overlaps\_0\_5 = 0 Overlaps\_0\_6 = 0 Overlaps\_0\_7 = 0 Overlaps\_0\_8 = 0 Overlaps\_0\_9 = 0 Overlaps\_0\_10 = 0 Overlaps\_0\_11 = 0 Overlaps\_1\_0 = 0 Overlaps\_1\_1 = 0 Overlaps\_1\_2 = 0 Overlaps\_1\_3 = 0 Overlaps\_1\_4 = 0 Overlaps\_1\_5 = 0 Overlaps\_1\_6 = 0 Overlaps\_1\_7 = 0 Overlaps\_1\_8 = 0 Overlaps\_1\_9 = 0 Overlaps\_1\_10 = 0 Overlaps\_1\_11 = 0 Overlaps\_2\_0 = 0 Overlaps\_2\_1 = 0 Overlaps\_2\_2 = 0 Overlaps\_2\_3 = 0 Overlaps\_2\_4 = 0 Overlaps\_2\_5 = 0 Overlaps\_2\_6 = 0 Overlaps\_2\_7 = 0 Overlaps\_2\_8 = 0 Overlaps\_2\_9 = 0 Overlaps\_2\_10 = 0 Overlaps\_2\_11 = 0 Overlaps\_3\_0 = 0 Overlaps\_3\_1 = 0 Overlaps\_3\_2 = 0 Overlaps\_3\_3 = 0 Overlaps\_3\_4 = 0 Overlaps\_3\_5 = 0 Overlaps\_3\_6 = 0 Overlaps\_3\_7 = 0 Overlaps\_3\_8 = 0 Overlaps\_3\_9 = 0 Overlaps\_3\_10 = 0 Overlaps\_3\_11 = 0 Overlaps\_4\_0 = 0 Overlaps\_4\_1 = 0 Overlaps\_4\_2 = 0 Overlaps\_4\_3 = 0 Overlaps\_4\_4 = 0 Overlaps\_4\_5 = 0 Overlaps\_4\_6 = 0 Overlaps\_4\_7 = 0 Overlaps\_4\_8 = 0 Overlaps\_4\_9 = 0 Overlaps\_4\_10 = 0 Overlaps\_4\_11 = 0 Overlaps\_5\_0 = 0 Overlaps\_5\_1 = 0 Overlaps\_5\_2 = 0 Overlaps\_5\_3 = 0 Overlaps\_5\_4 = 0 Overlaps\_5\_5 = 0 Overlaps\_5\_6 = 0 Overlaps\_5\_7 = 0 Overlaps\_5\_8 = 0 Overlaps\_5\_9 = 0 Overlaps\_5\_10 = 0 Overlaps\_5\_11 = 0 Overlaps\_6\_0 = 0 Overlaps\_6\_1 = 0 Overlaps\_6\_2 = 0 Overlaps\_6\_3 = 0 Overlaps\_6\_4 = 0 Overlaps\_6\_5 = 0 Overlaps\_6\_6 = 0 Overlaps\_6\_7 = 0 Overlaps\_6\_8 = 0 Overlaps\_6\_9 = 0 Overlaps\_6\_10 = 0 Overlaps\_6\_11 = 0 Overlaps\_7\_0 = 0 Overlaps\_7\_1 = 0 Overlaps\_7\_2 = 0 Overlaps\_7\_3 = 0 Overlaps\_7\_4 = 0 Overlaps\_7\_5 = 0 Overlaps\_7\_6 = 0 Overlaps\_7\_7 = 0 Overlaps\_7\_8 = 0 Overlaps\_7\_9 = 0 Overlaps\_7\_10 = 0 Overlaps\_7\_11 = 0 Overlaps\_8\_0 = 0 Overlaps\_8\_1 = 0 Overlaps\_8\_2 = 0 Overlaps\_8\_3 = 0 Overlaps\_8\_4 = 0 Overlaps\_8\_5 = 0 Overlaps\_8\_6 = 0 Overlaps\_8\_7 = 0 Overlaps\_8\_8 = 0 Overlaps\_8\_9 = 0 Overlaps\_8\_10 = 0 Overlaps\_8\_11 = 0 Overlaps\_9\_0 = 0 Overlaps\_9\_1 = 0 Overlaps\_9\_2 = 0 Overlaps\_9\_3 = 0 Overlaps\_9\_4 = 0 Overlaps\_9\_5 = 0 Overlaps\_9\_6 = 0 Overlaps\_9\_7 = 0 Overlaps\_9\_8 = 0 Overlaps\_9\_9 = 0 Overlaps\_9\_10 = 0 Overlaps\_9\_11 = 0 Overlaps\_10\_0 = 0 Overlaps\_10\_1 = 0 Overlaps\_10\_2 = 0 Overlaps\_10\_3 = 0 Overlaps\_10\_4 = 0 Overlaps\_10\_5 = 0 Overlaps\_10\_6 = 0 Overlaps\_10\_7 = 0 Overlaps\_10\_8 = 0 Overlaps\_10\_9 = 0 Overlaps\_10\_10 = 0 Overlaps\_10\_11 = 0 Overlaps\_11\_0 = 0 Overlaps\_11\_1 = 0 Overlaps\_11\_2 = 0 Overlaps\_11\_3 = 0 Overlaps\_11\_4 = 0 Overlaps\_11\_5 = 0 Overlaps\_11\_6 = 0 Overlaps\_11\_7 = 0 Overlaps\_11\_8 = 0 Overlaps\_11\_9 = 0 Overlaps\_11\_10 = 0 Overlaps\_11\_11 = 0 TMP\_0 = 0 not(TMP\_0) = 1 TMP\_1 = 1 not(TMP\_1) = 0 TMP\_2 = 1 not(TMP\_2) = 0 TMP\_3 = 1 not(TMP\_3) = 0 TMP\_4 = 1 not(TMP\_4) = 0 TMP\_5 = 1 not(TMP\_5) = 0 TMP\_6 = 5 TMP\_7 = 0 not(TMP\_7) = 1 TMP\_8 = 0 not(TMP\_8) = 1 TMP\_9 = 0 TMP\_10 = 1 not(TMP\_10) = 0 TMP\_11 = 1 not(TMP\_11) = 0 TMP\_12 = 2 TMP\_13 = 0 not(TMP\_13) = 1 TMP\_14 = 0 not(TMP\_14) = 1 TMP\_15 = 1 not(TMP\_15) = 0 TMP\_16 = 1 not(TMP\_16) = 0 TMP\_17 = 1 not(TMP\_17) = 0 TMP\_18 = 2 TMP\_19 = 0 not(TMP\_19) = 1 TMP\_20 = 1 not(TMP\_20) = 0 TMP\_21 = 1 not(TMP\_21) = 0 TMP\_22 = 1 not(TMP\_22) = 0 TMP\_23 = 1 not(TMP\_23) = 0 TMP\_24 = 1 not(TMP\_24) = 0 TMP\_25 = 5 TMP\_26 = 0 not(TMP\_26) = 1 TMP\_27 = 0 not(TMP\_27) = 1 TMP\_28 = 0 TMP\_29 = 1 not(TMP\_29) = 0 TMP\_30 = 1 not(TMP\_30) = 0 TMP\_31 = 2 TMP\_32 = 0 not(TMP\_32) = 1 TMP\_33 = 0 not(TMP\_33) = 1 TMP\_34 = 1 not(TMP\_34) = 0 TMP\_35 = 1 not(TMP\_35) = 0 TMP\_36 = 1 not(TMP\_36) = 0 TMP\_37 = 2 TMP\_38 = 0 not(TMP\_38) = 1 TMP\_39 = 1 not(TMP\_39) = 0 TMP\_40 = 1 not(TMP\_40) = 0 TMP\_41 = 1 not(TMP\_41) = 0 TMP\_42 = 0 not(TMP\_42) = 1 TMP\_43 = 1 not(TMP\_43) = 0 TMP\_44 = 4 TMP\_45 = 0 not(TMP\_45) = 1 TMP\_46 = 0 not(TMP\_46) = 1 TMP\_47 = 0 TMP\_48 = 1 not(TMP\_48) = 0 TMP\_49 = 1 not(TMP\_49) = 0 TMP\_50 = 2 TMP\_51 = 0 not(TMP\_51) = 1 TMP\_52 = 0 not(TMP\_52) = 1 TMP\_53 = 1 not(TMP\_53) = 0 TMP\_54 = 1 not(TMP\_54) = 0 TMP\_55 = 1 not(TMP\_55) = 0 TMP\_56 = 2 TMP\_57 = 0 not(TMP\_57) = 1 TMP\_58 = 1 not(TMP\_58) = 0 TMP\_59 = 1 not(TMP\_59) = 0 TMP\_60 = 1 not(TMP\_60) = 0 TMP\_61 = 0 not(TMP\_61) = 1 TMP\_62 = 1 not(TMP\_62) = 0 TMP\_63 = 4 TMP\_64 = 0 not(TMP\_64) = 1 TMP\_65 = 0 not(TMP\_65) = 1 TMP\_66 = 0 TMP\_67 = 1 not(TMP\_67) = 0 TMP\_68 = 1 not(TMP\_68) = 0 TMP\_69 = 2 TMP\_70 = 0 not(TMP\_70) = 1 TMP\_71 = 0 not(TMP\_71) = 1 TMP\_72 = 1 not(TMP\_72) = 0 TMP\_73 = 1 not(TMP\_73) = 0 TMP\_74 = 1 not(TMP\_74) = 0 TMP\_75 = 2 TMP\_76 = 1 not(TMP\_76) = 0 TMP\_77 = 0 not(TMP\_77) = 1 TMP\_78 = 1 not(TMP\_78) = 0 TMP\_79 = 1 not(TMP\_79) = 0 TMP\_80 = 0 not(TMP\_80) = 1 TMP\_81 = 1 not(TMP\_81) = 0 TMP\_82 = 4 TMP\_83 = 0 not(TMP\_83) = 1 TMP\_84 = 0 not(TMP\_84) = 1 TMP\_85 = 0 TMP\_86 = 1 not(TMP\_86) = 0 TMP\_87 = 1 not(TMP\_87) = 0 TMP\_88 = 2 TMP\_89 = 0 not(TMP\_89) = 1 TMP\_90 = 0 not(TMP\_90) = 1 TMP\_91 = 1 not(TMP\_91) = 0 TMP\_92 = 1 not(TMP\_92) = 0 TMP\_93 = 1 not(TMP\_93) = 0 TMP\_94 = 2 TMP\_95 = 1 not(TMP\_95) = 0 TMP\_96 = 0 not(TMP\_96) = 1 TMP\_97 = 1 not(TMP\_97) = 0 TMP\_98 = 1 not(TMP\_98) = 0 TMP\_99 = 1 not(TMP\_99) = 0 TMP\_100 = 1 not(TMP\_100) = 0 TMP\_101 = 5 TMP\_102 = 0 not(TMP\_102) = 1 TMP\_103 = 0 not(TMP\_103) = 1 TMP\_104 = 0 TMP\_105 = 1 not(TMP\_105) = 0 TMP\_106 = 1 not(TMP\_106) = 0 TMP\_107 = 2 TMP\_108 = 0 not(TMP\_108) = 1 TMP\_109 = 0 not(TMP\_109) = 1 TMP\_110 = 1 not(TMP\_110) = 0 TMP\_111 = 1 not(TMP\_111) = 0 TMP\_112 = 1 not(TMP\_112) = 0 TMP\_113 = 2 TMP\_114 = 0 not(TMP\_114) = 1 TMP\_115 = 1 not(TMP\_115) = 0 TMP\_116 = 1 not(TMP\_116) = 0 TMP\_117 = 1 not(TMP\_117) = 0 TMP\_118 = 0 not(TMP\_118) = 1 TMP\_119 = 1 not(TMP\_119) = 0 TMP\_120 = 4 TMP\_121 = 0 not(TMP\_121) = 1 TMP\_122 = 0 not(TMP\_122) = 1 TMP\_123 = 0 TMP\_124 = 1 not(TMP\_124) = 0 TMP\_125 = 1 not(TMP\_125) = 0 TMP\_126 = 2 TMP\_127 = 0 not(TMP\_127) = 1 TMP\_128 = 0 not(TMP\_128) = 1 TMP\_129 = 1 not(TMP\_129) = 0 TMP\_130 = 1 not(TMP\_130) = 0 TMP\_131 = 1 not(TMP\_131) = 0 TMP\_132 = 2 TMP\_133 = 1 not(TMP\_133) = 0 TMP\_134 = 1 not(TMP\_134) = 0 TMP\_135 = 1 not(TMP\_135) = 0 TMP\_136 = 1 not(TMP\_136) = 0 TMP\_137 = 0 not(TMP\_137) = 1 TMP\_138 = 1 not(TMP\_138) = 0 TMP\_139 = 5 TMP\_140 = 0 not(TMP\_140) = 1 TMP\_141 = 0 not(TMP\_141) = 1 TMP\_142 = 0 TMP\_143 = 1 not(TMP\_143) = 0 TMP\_144 = 1 not(TMP\_144) = 0 TMP\_145 = 2 TMP\_146 = 0 not(TMP\_146) = 1 TMP\_147 = 0 not(TMP\_147) = 1 TMP\_148 = 1 not(TMP\_148) = 0 TMP\_149 = 1 not(TMP\_149) = 0 TMP\_150 = 1 not(TMP\_150) = 0 TMP\_151 = 2 TMP\_152 = 0 not(TMP\_152) = 1 TMP\_153 = 1 not(TMP\_153) = 0 TMP\_154 = 1 not(TMP\_154) = 0 TMP\_155 = 1 not(TMP\_155) = 0 TMP\_156 = 0 not(TMP\_156) = 1 TMP\_157 = 1 not(TMP\_157) = 0 TMP\_158 = 4 TMP\_159 = 0 not(TMP\_159) = 1 TMP\_160 = 0 not(TMP\_160) = 1 TMP\_161 = 0 TMP\_162 = 1 not(TMP\_162) = 0 TMP\_163 = 1 not(TMP\_163) = 0 TMP\_164 = 2 TMP\_165 = 0 not(TMP\_165) = 1 TMP\_166 = 0 not(TMP\_166) = 1 TMP\_167 = 1 not(TMP\_167) = 0 TMP\_168 = 1 not(TMP\_168) = 0 TMP\_169 = 1 not(TMP\_169) = 0 TMP\_170 = 2 TMP\_171 = 0 not(TMP\_171) = 1 TMP\_172 = 1 not(TMP\_172) = 0 TMP\_173 = 1 not(TMP\_173) = 0 TMP\_174 = 1 not(TMP\_174) = 0 TMP\_175 = 1 not(TMP\_175) = 0 TMP\_176 = 1 not(TMP\_176) = 0 TMP\_177 = 5 TMP\_178 = 0 not(TMP\_178) = 1 TMP\_179 = 0 not(TMP\_179) = 1 TMP\_180 = 0 TMP\_181 = 1 not(TMP\_181) = 0 TMP\_182 = 1 not(TMP\_182) = 0 TMP\_183 = 2 TMP\_184 = 0 not(TMP\_184) = 1 TMP\_185 = 0 not(TMP\_185) = 1 TMP\_186 = 1 not(TMP\_186) = 0 TMP\_187 = 1 not(TMP\_187) = 0 TMP\_188 = 1 not(TMP\_188) = 0 TMP\_189 = 2 TMP\_190 = 1 not(TMP\_190) = 0 TMP\_191 = 1 not(TMP\_191) = 0 TMP\_192 = 1 not(TMP\_192) = 0 TMP\_193 = 1 not(TMP\_193) = 0 TMP\_194 = 0 not(TMP\_194) = 1 TMP\_195 = 1 not(TMP\_195) = 0 TMP\_196 = 5 TMP\_197 = 0 not(TMP\_197) = 1 TMP\_198 = 0 not(TMP\_198) = 1 TMP\_199 = 0 TMP\_200 = 1 not(TMP\_200) = 0 TMP\_201 = 1 not(TMP\_201) = 0 TMP\_202 = 2 TMP\_203 = 0 not(TMP\_203) = 1 TMP\_204 = 0 not(TMP\_204) = 1 TMP\_205 = 1 not(TMP\_205) = 0 TMP\_206 = 1 not(TMP\_206) = 0 TMP\_207 = 1 not(TMP\_207) = 0 TMP\_208 = 2 TMP\_209 = 0 not(TMP\_209) = 1 TMP\_210 = 1 not(TMP\_210) = 0 TMP\_211 = 1 not(TMP\_211) = 0 TMP\_212 = 1 not(TMP\_212) = 0 TMP\_213 = 1 not(TMP\_213) = 0 TMP\_214 = 0 not(TMP\_214) = 1 TMP\_215 = 4 TMP\_216 = 0 not(TMP\_216) = 1 TMP\_217 = 0 not(TMP\_217) = 1 TMP\_218 = 0 TMP\_219 = 1 not(TMP\_219) = 0 TMP\_220 = 1 not(TMP\_220) = 0 TMP\_221 = 2 TMP\_222 = 0 not(TMP\_222) = 1 TMP\_223 = 0 not(TMP\_223) = 1 TMP\_224 = 1 not(TMP\_224) = 0 TMP\_225 = 1 not(TMP\_225) = 0 TMP\_226 = 1 not(TMP\_226) = 0 TMP\_227 = 2 TMP\_228 = 0 not(TMP\_228) = 1 TMP\_229 = 1 not(TMP\_229) = 0 TMP\_230 = 1 not(TMP\_230) = 0 TMP\_231 = 1 not(TMP\_231) = 0 TMP\_232 = 1 not(TMP\_232) = 0 TMP\_233 = 0 not(TMP\_233) = 1 TMP\_234 = 4 TMP\_235 = 0 not(TMP\_235) = 1 TMP\_236 = 0 not(TMP\_236) = 1 TMP\_237 = 0 TMP\_238 = 1 not(TMP\_238) = 0 TMP\_239 = 1 not(TMP\_239) = 0 TMP\_240 = 2 TMP\_241 = 0 not(TMP\_241) = 1 TMP\_242 = 0 not(TMP\_242) = 1 TMP\_243 = 1 not(TMP\_243) = 0 TMP\_244 = 1 not(TMP\_244) = 0 TMP\_245 = 1 not(TMP\_245) = 0 TMP\_246 = 2 TMP\_247 = 0 not(TMP\_247) = 1 TMP\_248 = 1 not(TMP\_248) = 0 TMP\_249 = 1 not(TMP\_249) = 0 TMP\_250 = 0 not(TMP\_250) = 1 TMP\_251 = 1 not(TMP\_251) = 0 TMP\_252 = 1 not(TMP\_252) = 0 TMP\_253 = 4 TMP\_254 = 0 not(TMP\_254) = 1 TMP\_255 = 0 not(TMP\_255) = 1 TMP\_256 = 0 TMP\_257 = 1 not(TMP\_257) = 0 TMP\_258 = 1 not(TMP\_258) = 0 TMP\_259 = 2 TMP\_260 = 0 not(TMP\_260) = 1 TMP\_261 = 0 not(TMP\_261) = 1 TMP\_262 = 1 not(TMP\_262) = 0 TMP\_263 = 1 not(TMP\_263) = 0 TMP\_264 = 1 not(TMP\_264) = 0 TMP\_265 = 2 TMP\_266 = 0 not(TMP\_266) = 1 TMP\_267 = 1 not(TMP\_267) = 0 TMP\_268 = 1 not(TMP\_268) = 0 TMP\_269 = 1 not(TMP\_269) = 0 TMP\_270 = 1 not(TMP\_270) = 0 TMP\_271 = 1 not(TMP\_271) = 0 TMP\_272 = 5 TMP\_273 = 0 not(TMP\_273) = 1 TMP\_274 = 0 not(TMP\_274) = 1 TMP\_275 = 0 TMP\_276 = 1 not(TMP\_276) = 0 TMP\_277 = 1 not(TMP\_277) = 0 TMP\_278 = 2 TMP\_279 = 0 not(TMP\_279) = 1 TMP\_280 = 0 not(TMP\_280) = 1 TMP\_281 = 1 not(TMP\_281) = 0 TMP\_282 = 1 not(TMP\_282) = 0 TMP\_283 = 1 not(TMP\_283) = 0 TMP\_284 = 2 TMP\_285 = 1 not(TMP\_285) = 0 TMP\_286 = 0 not(TMP\_286) = 1 TMP\_287 = 1 not(TMP\_287) = 0 TMP\_288 = 1 not(TMP\_288) = 0 TMP\_289 = 1 not(TMP\_289) = 0 TMP\_290 = 1 not(TMP\_290) = 0 TMP\_291 = 5 TMP\_292 = 0 not(TMP\_292) = 1 TMP\_293 = 0 not(TMP\_293) = 1 TMP\_294 = 0 TMP\_295 = 1 not(TMP\_295) = 0 TMP\_296 = 1 not(TMP\_296) = 0 TMP\_297 = 2 TMP\_298 = 0 not(TMP\_298) = 1 TMP\_299 = 0 not(TMP\_299) = 1 TMP\_300 = 1 not(TMP\_300) = 0 TMP\_301 = 1 not(TMP\_301) = 0 TMP\_302 = 1 not(TMP\_302) = 0 TMP\_303 = 2 TMP\_304 = 1 not(TMP\_304) = 0 TMP\_305 = 0 not(TMP\_305) = 1 TMP\_306 = 1 not(TMP\_306) = 0 TMP\_307 = 1 not(TMP\_307) = 0 TMP\_308 = 1 not(TMP\_308) = 0 TMP\_309 = 0 not(TMP\_309) = 1 TMP\_310 = 4 TMP\_311 = 0 not(TMP\_311) = 1 TMP\_312 = 0 not(TMP\_312) = 1 TMP\_313 = 0 TMP\_314 = 1 not(TMP\_314) = 0 TMP\_315 = 1 not(TMP\_315) = 0 TMP\_316 = 2 TMP\_317 = 0 not(TMP\_317) = 1 TMP\_318 = 0 not(TMP\_318) = 1 TMP\_319 = 1 not(TMP\_319) = 0 TMP\_320 = 1 not(TMP\_320) = 0 TMP\_321 = 1 not(TMP\_321) = 0 TMP\_322 = 2 TMP\_323 = 0 not(TMP\_323) = 1 TMP\_324 = 1 not(TMP\_324) = 0 TMP\_325 = 1 not(TMP\_325) = 0 TMP\_326 = 1 not(TMP\_326) = 0 TMP\_327 = 1 not(TMP\_327) = 0 TMP\_328 = 1 not(TMP\_328) = 0 TMP\_329 = 5 TMP\_330 = 0 not(TMP\_330) = 1 TMP\_331 = 0 not(TMP\_331) = 1 TMP\_332 = 0 TMP\_333 = 1 not(TMP\_333) = 0 TMP\_334 = 1 not(TMP\_334) = 0 TMP\_335 = 2 TMP\_336 = 0 not(TMP\_336) = 1 TMP\_337 = 0 not(TMP\_337) = 1 TMP\_338 = 1 not(TMP\_338) = 0 TMP\_339 = 1 not(TMP\_339) = 0 TMP\_340 = 1 not(TMP\_340) = 0 TMP\_341 = 2 TMP\_342 = 1 not(TMP\_342) = 0 TMP\_343 = 1 not(TMP\_343) = 0 TMP\_344 = 1 not(TMP\_344) = 0 TMP\_345 = 1 not(TMP\_345) = 0 TMP\_346 = 1 not(TMP\_346) = 0 TMP\_347 = 0 not(TMP\_347) = 1 TMP\_348 = 5 TMP\_349 = 0 not(TMP\_349) = 1 TMP\_350 = 0 not(TMP\_350) = 1 TMP\_351 = 0 TMP\_352 = 1 not(TMP\_352) = 0 TMP\_353 = 1 not(TMP\_353) = 0 TMP\_354 = 2 TMP\_355 = 0 not(TMP\_355) = 1 TMP\_356 = 0 not(TMP\_356) = 1 TMP\_357 = 1 not(TMP\_357) = 0 TMP\_358 = 1 not(TMP\_358) = 0 TMP\_359 = 1 not(TMP\_359) = 0 TMP\_360 = 2 TMP\_361 = 0 not(TMP\_361) = 1 TMP\_362 = 1 not(TMP\_362) = 0 TMP\_363 = 1 not(TMP\_363) = 0 TMP\_364 = 1 not(TMP\_364) = 0 TMP\_365 = 1 not(TMP\_365) = 0 TMP\_366 = 1 not(TMP\_366) = 0 TMP\_367 = 5 TMP\_368 = 0 not(TMP\_368) = 1 TMP\_369 = 0 not(TMP\_369) = 1 TMP\_370 = 0 TMP\_371 = 1 not(TMP\_371) = 0 TMP\_372 = 1 not(TMP\_372) = 0 TMP\_373 = 2 TMP\_374 = 0 not(TMP\_374) = 1 TMP\_375 = 0 not(TMP\_375) = 1 TMP\_376 = 1 not(TMP\_376) = 0 TMP\_377 = 1 not(TMP\_377) = 0 TMP\_378 = 1 not(TMP\_378) = 0 TMP\_379 = 2 TMP\_380 = 0 not(TMP\_380) = 1 TMP\_381 = 1 not(TMP\_381) = 0 TMP\_382 = 1 not(TMP\_382) = 0 TMP\_383 = 1 not(TMP\_383) = 0 TMP\_384 = 1 not(TMP\_384) = 0 TMP\_385 = 0 not(TMP\_385) = 1 TMP\_386 = 4 TMP\_387 = 0 not(TMP\_387) = 1 TMP\_388 = 0 not(TMP\_388) = 1 TMP\_389 = 0 TMP\_390 = 1 not(TMP\_390) = 0 TMP\_391 = 1 not(TMP\_391) = 0 TMP\_392 = 2 TMP\_393 = 0 not(TMP\_393) = 1 TMP\_394 = 0 not(TMP\_394) = 1 TMP\_395 = 1 not(TMP\_395) = 0 TMP\_396 = 1 not(TMP\_396) = 0 TMP\_397 = 1 not(TMP\_397) = 0 TMP\_398 = 2 TMP\_399 = 1 not(TMP\_399) = 0 TMP\_400 = 1 not(TMP\_400) = 0 TMP\_401 = 1 not(TMP\_401) = 0 TMP\_402 = 0 not(TMP\_402) = 1 TMP\_403 = 1 not(TMP\_403) = 0 TMP\_404 = 1 not(TMP\_404) = 0 TMP\_405 = 5 TMP\_406 = 0 not(TMP\_406) = 1 TMP\_407 = 0 not(TMP\_407) = 1 TMP\_408 = 0 TMP\_409 = 1 not(TMP\_409) = 0 TMP\_410 = 1 not(TMP\_410) = 0 TMP\_411 = 2 TMP\_412 = 0 not(TMP\_412) = 1 TMP\_413 = 0 not(TMP\_413) = 1 TMP\_414 = 1 not(TMP\_414) = 0 TMP\_415 = 1 not(TMP\_415) = 0 TMP\_416 = 1 not(TMP\_416) = 0 TMP\_417 = 2 TMP\_418 = 0 not(TMP\_418) = 1 TMP\_419 = 1 not(TMP\_419) = 0 TMP\_420 = 1 not(TMP\_420) = 0 TMP\_421 = 1 not(TMP\_421) = 0 TMP\_422 = 1 not(TMP\_422) = 0 TMP\_423 = 0 not(TMP\_423) = 1 TMP\_424 = 4 TMP\_425 = 0 not(TMP\_425) = 1 TMP\_426 = 0 not(TMP\_426) = 1 TMP\_427 = 0 TMP\_428 = 1 not(TMP\_428) = 0 TMP\_429 = 1 not(TMP\_429) = 0 TMP\_430 = 2 TMP\_431 = 0 not(TMP\_431) = 1 TMP\_432 = 0 not(TMP\_432) = 1 TMP\_433 = 1 not(TMP\_433) = 0 TMP\_434 = 1 not(TMP\_434) = 0 TMP\_435 = 1 not(TMP\_435) = 0 TMP\_436 = 2 TMP\_437 = 1 not(TMP\_437) = 0 TMP\_438 = 0 not(TMP\_438) = 1 TMP\_439 = 1 not(TMP\_439) = 0 TMP\_440 = 1 not(TMP\_440) = 0 TMP\_441 = 1 not(TMP\_441) = 0 TMP\_442 = 0 not(TMP\_442) = 1 TMP\_443 = 4 TMP\_444 = 0 not(TMP\_444) = 1 TMP\_445 = 0 not(TMP\_445) = 1 TMP\_446 = 0 TMP\_447 = 1 not(TMP\_447) = 0 TMP\_448 = 1 not(TMP\_448) = 0 TMP\_449 = 2 TMP\_450 = 0 not(TMP\_450) = 1 TMP\_451 = 0 not(TMP\_451) = 1 TMP\_452 = 1 not(TMP\_452) = 0 TMP\_453 = 1 not(TMP\_453) = 0 TMP\_454 = 1 not(TMP\_454) = 0 TMP\_455 = 2 TMP\_456 = 1 not(TMP\_456) = 0 TMP\_457 = 0 not(TMP\_457) = 1 TMP\_458 = 1 not(TMP\_458) = 0 TMP\_459 = 1 not(TMP\_459) = 0 TMP\_460 = 1 not(TMP\_460) = 0 TMP\_461 = 1 not(TMP\_461) = 0 TMP\_462 = 5 TMP\_463 = 0 not(TMP\_463) = 1 TMP\_464 = 0 not(TMP\_464) = 1 TMP\_465 = 0 TMP\_466 = 1 not(TMP\_466) = 0 TMP\_467 = 1 not(TMP\_467) = 0 TMP\_468 = 2 TMP\_469 = 0 not(TMP\_469) = 1 TMP\_470 = 0 not(TMP\_470) = 1 TMP\_471 = 1 not(TMP\_471) = 0 TMP\_472 = 1 not(TMP\_472) = 0 TMP\_473 = 1 not(TMP\_473) = 0 TMP\_474 = 2 TMP\_475 = 1 not(TMP\_475) = 0 TMP\_476 = 0 not(TMP\_476) = 1 TMP\_477 = 1 not(TMP\_477) = 0 TMP\_478 = 1 not(TMP\_478) = 0 TMP\_479 = 1 not(TMP\_479) = 0 TMP\_480 = 1 not(TMP\_480) = 0 TMP\_481 = 5 TMP\_482 = 0 not(TMP\_482) = 1 TMP\_483 = 0 not(TMP\_483) = 1 TMP\_484 = 0 TMP\_485 = 1 not(TMP\_485) = 0 TMP\_486 = 1 not(TMP\_486) = 0 TMP\_487 = 2 TMP\_488 = 0 not(TMP\_488) = 1 TMP\_489 = 0 not(TMP\_489) = 1 TMP\_490 = 1 not(TMP\_490) = 0 TMP\_491 = 1 not(TMP\_491) = 0 TMP\_492 = 1 not(TMP\_492) = 0 TMP\_493 = 2 TMP\_494 = 1 not(TMP\_494) = 0 TMP\_495 = 0 not(TMP\_495) = 1 TMP\_496 = 1 not(TMP\_496) = 0 TMP\_497 = 1 not(TMP\_497) = 0 TMP\_498 = 1 not(TMP\_498) = 0 TMP\_499 = 1 not(TMP\_499) = 0 TMP\_500 = 5 TMP\_501 = 0 not(TMP\_501) = 1 TMP\_502 = 0 not(TMP\_502) = 1 TMP\_503 = 0 TMP\_504 = 1 not(TMP\_504) = 0 TMP\_505 = 1 not(TMP\_505) = 0 TMP\_506 = 2 TMP\_507 = 0 not(TMP\_507) = 1 TMP\_508 = 0 not(TMP\_508) = 1 TMP\_509 = 1 not(TMP\_509) = 0 TMP\_510 = 1 not(TMP\_510) = 0 TMP\_511 = 1 not(TMP\_511) = 0 TMP\_512 = 2 TMP\_513 = 1 not(TMP\_513) = 0 TMP\_514 = 0 not(TMP\_514) = 1 TMP\_515 = 1 not(TMP\_515) = 0 TMP\_516 = 1 not(TMP\_516) = 0 TMP\_517 = 1 not(TMP\_517) = 0 TMP\_518 = 0 not(TMP\_518) = 1 TMP\_519 = 4 TMP\_520 = 0 not(TMP\_520) = 1 TMP\_521 = 0 not(TMP\_521) = 1 TMP\_522 = 0 TMP\_523 = 1 not(TMP\_523) = 0 TMP\_524 = 1 not(TMP\_524) = 0 TMP\_525 = 2 TMP\_526 = 0 not(TMP\_526) = 1 TMP\_527 = 0 not(TMP\_527) = 1 TMP\_528 = 1 not(TMP\_528) = 0 TMP\_529 = 1 not(TMP\_529) = 0 TMP\_530 = 1 not(TMP\_530) = 0 TMP\_531 = 2 TMP\_532 = 0 not(TMP\_532) = 1 TMP\_533 = 1 not(TMP\_533) = 0 TMP\_534 = 1 not(TMP\_534) = 0 TMP\_535 = 1 not(TMP\_535) = 0 TMP\_536 = 1 not(TMP\_536) = 0 TMP\_537 = 1 not(TMP\_537) = 0 TMP\_538 = 5 TMP\_539 = 0 not(TMP\_539) = 1 TMP\_540 = 0 not(TMP\_540) = 1 TMP\_541 = 0 TMP\_542 = 1 not(TMP\_542) = 0 TMP\_543 = 1 not(TMP\_543) = 0 TMP\_544 = 2 TMP\_545 = 0 not(TMP\_545) = 1 TMP\_546 = 0 not(TMP\_546) = 1 TMP\_547 = 1 not(TMP\_547) = 0 TMP\_548 = 1 not(TMP\_548) = 0 TMP\_549 = 1 not(TMP\_549) = 0 TMP\_550 = 2 TMP\_551 = 1 not(TMP\_551) = 0 TMP\_552 = 0 not(TMP\_552) = 1 TMP\_553 = 1 not(TMP\_553) = 0 TMP\_554 = 1 not(TMP\_554) = 0 TMP\_555 = 1 not(TMP\_555) = 0 TMP\_556 = 0 not(TMP\_556) = 1 TMP\_557 = 4 TMP\_558 = 0 not(TMP\_558) = 1 TMP\_559 = 0 not(TMP\_559) = 1 TMP\_560 = 0 TMP\_561 = 1 not(TMP\_561) = 0 TMP\_562 = 1 not(TMP\_562) = 0 TMP\_563 = 2 TMP\_564 = 0 not(TMP\_564) = 1 TMP\_565 = 0 not(TMP\_565) = 1 TMP\_566 = 1 not(TMP\_566) = 0 TMP\_567 = 1 not(TMP\_567) = 0 TMP\_568 = 1 not(TMP\_568) = 0 TMP\_569 = 2 TMP\_570 = 1 not(TMP\_570) = 0 TMP\_571 = 0 not(TMP\_571) = 1 TMP\_572 = 1 not(TMP\_572) = 0 TMP\_573 = 1 not(TMP\_573) = 0 TMP\_574 = 1 not(TMP\_574) = 0 TMP\_575 = 1 not(TMP\_575) = 0 TMP\_576 = 5 TMP\_577 = 0 not(TMP\_577) = 1 TMP\_578 = 0 not(TMP\_578) = 1 TMP\_579 = 0 TMP\_580 = 1 not(TMP\_580) = 0 TMP\_581 = 1 not(TMP\_581) = 0 TMP\_582 = 2 TMP\_583 = 0 not(TMP\_583) = 1 TMP\_584 = 0 not(TMP\_584) = 1 TMP\_585 = 1 not(TMP\_585) = 0 TMP\_586 = 1 not(TMP\_586) = 0 TMP\_587 = 1 not(TMP\_587) = 0 TMP\_588 = 2 TMP\_589 = 1 not(TMP\_589) = 0 TMP\_590 = 1 not(TMP\_590) = 0 TMP\_591 = 1 not(TMP\_591) = 0 TMP\_592 = 1 not(TMP\_592) = 0 TMP\_593 = 1 not(TMP\_593) = 0 TMP\_594 = 0 not(TMP\_594) = 1 TMP\_595 = 5 TMP\_596 = 0 not(TMP\_596) = 1 TMP\_597 = 0 not(TMP\_597) = 1 TMP\_598 = 0 TMP\_599 = 1 not(TMP\_599) = 0 TMP\_600 = 1 not(TMP\_600) = 0 TMP\_601 = 2 TMP\_602 = 0 not(TMP\_602) = 1 TMP\_603 = 0 not(TMP\_603) = 1 TMP\_604 = 1 not(TMP\_604) = 0 TMP\_605 = 1 not(TMP\_605) = 0 TMP\_606 = 1 not(TMP\_606) = 0 TMP\_607 = 2 TMP\_608 = 1 not(TMP\_608) = 0 TMP\_609 = 0 not(TMP\_609) = 1 TMP\_610 = 1 not(TMP\_610) = 0 TMP\_611 = 1 not(TMP\_611) = 0 TMP\_612 = 1 not(TMP\_612) = 0 TMP\_613 = 1 not(TMP\_613) = 0 TMP\_614 = 5 TMP\_615 = 0 not(TMP\_615) = 1 TMP\_616 = 0 not(TMP\_616) = 1 TMP\_617 = 0 TMP\_618 = 1 not(TMP\_618) = 0 TMP\_619 = 1 not(TMP\_619) = 0 TMP\_620 = 2 TMP\_621 = 0 not(TMP\_621) = 1 TMP\_622 = 0 not(TMP\_622) = 1 TMP\_623 = 1 not(TMP\_623) = 0 TMP\_624 = 1 not(TMP\_624) = 0 TMP\_625 = 1 not(TMP\_625) = 0 TMP\_626 = 2 TMP\_627 = 0 not(TMP\_627) = 1 TMP\_628 = 1 not(TMP\_628) = 0 TMP\_629 = 1 not(TMP\_629) = 0 TMP\_630 = 1 not(TMP\_630) = 0 TMP\_631 = 1 not(TMP\_631) = 0 TMP\_632 = 1 not(TMP\_632) = 0 TMP\_633 = 5 TMP\_634 = 0 not(TMP\_634) = 1 TMP\_635 = 0 not(TMP\_635) = 1 TMP\_636 = 0 TMP\_637 = 1 not(TMP\_637) = 0 TMP\_638 = 1 not(TMP\_638) = 0 TMP\_639 = 2 TMP\_640 = 0 not(TMP\_640) = 1 TMP\_641 = 0 not(TMP\_641) = 1 TMP\_642 = 1 not(TMP\_642) = 0 TMP\_643 = 1 not(TMP\_643) = 0 TMP\_644 = 1 not(TMP\_644) = 0 TMP\_645 = 2 TMP\_646 = 1 not(TMP\_646) = 0 TMP\_647 = 0 not(TMP\_647) = 1 TMP\_648 = 1 not(TMP\_648) = 0 TMP\_649 = 1 not(TMP\_649) = 0 TMP\_650 = 1 not(TMP\_650) = 0 TMP\_651 = 1 not(TMP\_651) = 0 TMP\_652 = 5 TMP\_653 = 0 not(TMP\_653) = 1 TMP\_654 = 0 not(TMP\_654) = 1 TMP\_655 = 0 TMP\_656 = 1 not(TMP\_656) = 0 TMP\_657 = 1 not(TMP\_657) = 0 TMP\_658 = 2 TMP\_659 = 0 not(TMP\_659) = 1 TMP\_660 = 0 not(TMP\_660) = 1 TMP\_661 = 1 not(TMP\_661) = 0 TMP\_662 = 1 not(TMP\_662) = 0 TMP\_663 = 1 not(TMP\_663) = 0 TMP\_664 = 2 TMP\_665 = 1 not(TMP\_665) = 0 TMP\_666 = 0 not(TMP\_666) = 1 TMP\_667 = 1 not(TMP\_667) = 0 TMP\_668 = 1 not(TMP\_668) = 0 TMP\_669 = 0 not(TMP\_669) = 1 TMP\_670 = 1 not(TMP\_670) = 0 TMP\_671 = 4 TMP\_672 = 0 not(TMP\_672) = 1 TMP\_673 = 0 not(TMP\_673) = 1 TMP\_674 = 0 TMP\_675 = 1 not(TMP\_675) = 0 TMP\_676 = 1 not(TMP\_676) = 0 TMP\_677 = 2 TMP\_678 = 0 not(TMP\_678) = 1 TMP\_679 = 0 not(TMP\_679) = 1 TMP\_680 = 1 not(TMP\_680) = 0 TMP\_681 = 1 not(TMP\_681) = 0 TMP\_682 = 1 not(TMP\_682) = 0 TMP\_683 = 2 TMP\_684 = 1 not(TMP\_684) = 0 TMP\_685 = 0 not(TMP\_685) = 1 TMP\_686 = 1 not(TMP\_686) = 0 TMP\_687 = 1 not(TMP\_687) = 0 TMP\_688 = 0 not(TMP\_688) = 1 TMP\_689 = 1 not(TMP\_689) = 0 TMP\_690 = 4 TMP\_691 = 0 not(TMP\_691) = 1 TMP\_692 = 0 not(TMP\_692) = 1 TMP\_693 = 0 TMP\_694 = 1 not(TMP\_694) = 0 TMP\_695 = 1 not(TMP\_695) = 0 TMP\_696 = 2 TMP\_697 = 0 not(TMP\_697) = 1 TMP\_698 = 0 not(TMP\_698) = 1 TMP\_699 = 1 not(TMP\_699) = 0 TMP\_700 = 1 not(TMP\_700) = 0 TMP\_701 = 1 not(TMP\_701) = 0 TMP\_702 = 2 TMP\_703 = 1 not(TMP\_703) = 0 TMP\_704 = 0 not(TMP\_704) = 1 TMP\_705 = 1 not(TMP\_705) = 0 TMP\_706 = 1 not(TMP\_706) = 0 TMP\_707 = 0 not(TMP\_707) = 1 TMP\_708 = 1 not(TMP\_708) = 0 TMP\_709 = 4 TMP\_710 = 0 not(TMP\_710) = 1 TMP\_711 = 0 not(TMP\_711) = 1 TMP\_712 = 0 TMP\_713 = 1 not(TMP\_713) = 0 TMP\_714 = 1 not(TMP\_714) = 0 TMP\_715 = 2 TMP\_716 = 0 not(TMP\_716) = 1 TMP\_717 = 0 not(TMP\_717) = 1 TMP\_718 = 1 not(TMP\_718) = 0 TMP\_719 = 1 not(TMP\_719) = 0 TMP\_720 = 1 not(TMP\_720) = 0 TMP\_721 = 2 TMP\_722 = 1 not(TMP\_722) = 0 TMP\_723 = 0 not(TMP\_723) = 1 TMP\_724 = 1 not(TMP\_724) = 0 TMP\_725 = 1 not(TMP\_725) = 0 TMP\_726 = 1 not(TMP\_726) = 0 TMP\_727 = 1 not(TMP\_727) = 0 TMP\_728 = 5 TMP\_729 = 0 not(TMP\_729) = 1 TMP\_730 = 0 not(TMP\_730) = 1 TMP\_731 = 0 TMP\_732 = 1 not(TMP\_732) = 0 TMP\_733 = 1 not(TMP\_733) = 0 TMP\_734 = 2 TMP\_735 = 0 not(TMP\_735) = 1 TMP\_736 = 0 not(TMP\_736) = 1 TMP\_737 = 1 not(TMP\_737) = 0 TMP\_738 = 1 not(TMP\_738) = 0 TMP\_739 = 1 not(TMP\_739) = 0 TMP\_740 = 2 TMP\_741 = 0 not(TMP\_741) = 1 TMP\_742 = 1 not(TMP\_742) = 0 TMP\_743 = 1 not(TMP\_743) = 0 TMP\_744 = 1 not(TMP\_744) = 0 TMP\_745 = 0 not(TMP\_745) = 1 TMP\_746 = 1 not(TMP\_746) = 0 TMP\_747 = 4 TMP\_748 = 0 not(TMP\_748) = 1 TMP\_749 = 0 not(TMP\_749) = 1 TMP\_750 = 0 TMP\_751 = 1 not(TMP\_751) = 0 TMP\_752 = 1 not(TMP\_752) = 0 TMP\_753 = 2 TMP\_754 = 0 not(TMP\_754) = 1 TMP\_755 = 0 not(TMP\_755) = 1 TMP\_756 = 1 not(TMP\_756) = 0 TMP\_757 = 1 not(TMP\_757) = 0 TMP\_758 = 1 not(TMP\_758) = 0 TMP\_759 = 2 TMP\_760 = 1 not(TMP\_760) = 0 TMP\_761 = 0 not(TMP\_761) = 1 TMP\_762 = 1 not(TMP\_762) = 0 TMP\_763 = 1 not(TMP\_763) = 0 TMP\_764 = 1 not(TMP\_764) = 0 TMP\_765 = 1 not(TMP\_765) = 0 TMP\_766 = 5 TMP\_767 = 0 not(TMP\_767) = 1 TMP\_768 = 0 not(TMP\_768) = 1 TMP\_769 = 0 TMP\_770 = 1 not(TMP\_770) = 0 TMP\_771 = 1 not(TMP\_771) = 0 TMP\_772 = 2 TMP\_773 = 0 not(TMP\_773) = 1 TMP\_774 = 0 not(TMP\_774) = 1 TMP\_775 = 1 not(TMP\_775) = 0 TMP\_776 = 1 not(TMP\_776) = 0 TMP\_777 = 1 not(TMP\_777) = 0 TMP\_778 = 2 TMP\_779 = 1 not(TMP\_779) = 0 TMP\_780 = 0 not(TMP\_780) = 1 TMP\_781 = 1 not(TMP\_781) = 0 TMP\_782 = 1 not(TMP\_782) = 0 TMP\_783 = 0 not(TMP\_783) = 1 TMP\_784 = 1 not(TMP\_784) = 0 TMP\_785 = 4 TMP\_786 = 0 not(TMP\_786) = 1 TMP\_787 = 0 not(TMP\_787) = 1 TMP\_788 = 0 TMP\_789 = 1 not(TMP\_789) = 0 TMP\_790 = 1 not(TMP\_790) = 0 TMP\_791 = 2 TMP\_792 = 0 not(TMP\_792) = 1 TMP\_793 = 0 not(TMP\_793) = 1 TMP\_794 = 1 not(TMP\_794) = 0 TMP\_795 = 1 not(TMP\_795) = 0 TMP\_796 = 1 not(TMP\_796) = 0 TMP\_797 = 2 TMP\_798 = 1 not(TMP\_798) = 0 TMP\_799 = 1 not(TMP\_799) = 0 TMP\_800 = 1 not(TMP\_800) = 0 TMP\_801 = 1 not(TMP\_801) = 0 TMP\_802 = 0 not(TMP\_802) = 1 TMP\_803 = 1 not(TMP\_803) = 0 TMP\_804 = 5 TMP\_805 = 0 not(TMP\_805) = 1 TMP\_806 = 0 not(TMP\_806) = 1 TMP\_807 = 0 TMP\_808 = 1 not(TMP\_808) = 0 TMP\_809 = 1 not(TMP\_809) = 0 TMP\_810 = 2 TMP\_811 = 0 not(TMP\_811) = 1 TMP\_812 = 0 not(TMP\_812) = 1 TMP\_813 = 1 not(TMP\_813) = 0 TMP\_814 = 1 not(TMP\_814) = 0 TMP\_815 = 1 not(TMP\_815) = 0 TMP\_816 = 2 TMP\_817 = 1 not(TMP\_817) = 0 TMP\_818 = 0 not(TMP\_818) = 1 TMP\_819 = 1 not(TMP\_819) = 0 TMP\_820 = 1 not(TMP\_820) = 0 TMP\_821 = 0 not(TMP\_821) = 1 TMP\_822 = 1 not(TMP\_822) = 0 TMP\_823 = 4 TMP\_824 = 0 not(TMP\_824) = 1 TMP\_825 = 0 not(TMP\_825) = 1 TMP\_826 = 0 TMP\_827 = 1 not(TMP\_827) = 0 TMP\_828 = 1 not(TMP\_828) = 0 TMP\_829 = 2 TMP\_830 = 0 not(TMP\_830) = 1 TMP\_831 = 0 not(TMP\_831) = 1 TMP\_832 = 1 not(TMP\_832) = 0 TMP\_833 = 1 not(TMP\_833) = 0 TMP\_834 = 1 not(TMP\_834) = 0 TMP\_835 = 2 TMP\_836 = 0 not(TMP\_836) = 1 TMP\_837 = 1 not(TMP\_837) = 0 TMP\_838 = 1 not(TMP\_838) = 0 TMP\_839 = 1 not(TMP\_839) = 0 TMP\_840 = 1 not(TMP\_840) = 0 TMP\_841 = 0 not(TMP\_841) = 1 TMP\_842 = 4 TMP\_843 = 0 not(TMP\_843) = 1 TMP\_844 = 0 not(TMP\_844) = 1 TMP\_845 = 0 TMP\_846 = 1 not(TMP\_846) = 0 TMP\_847 = 1 not(TMP\_847) = 0 TMP\_848 = 2 TMP\_849 = 0 not(TMP\_849) = 1 TMP\_850 = 0 not(TMP\_850) = 1 TMP\_851 = 1 not(TMP\_851) = 0 TMP\_852 = 1 not(TMP\_852) = 0 TMP\_853 = 1 not(TMP\_853) = 0 TMP\_854 = 2 TMP\_855 = 0 not(TMP\_855) = 1 TMP\_856 = 1 not(TMP\_856) = 0 TMP\_857 = 1 not(TMP\_857) = 0 TMP\_858 = 1 not(TMP\_858) = 0 TMP\_859 = 1 not(TMP\_859) = 0 TMP\_860 = 0 not(TMP\_860) = 1 TMP\_861 = 4 TMP\_862 = 0 not(TMP\_862) = 1 TMP\_863 = 0 not(TMP\_863) = 1 TMP\_864 = 0 TMP\_865 = 1 not(TMP\_865) = 0 TMP\_866 = 1 not(TMP\_866) = 0 TMP\_867 = 2 TMP\_868 = 0 not(TMP\_868) = 1 TMP\_869 = 0 not(TMP\_869) = 1 TMP\_870 = 1 not(TMP\_870) = 0 TMP\_871 = 1 not(TMP\_871) = 0 TMP\_872 = 1 not(TMP\_872) = 0 TMP\_873 = 2 TMP\_874 = 0 not(TMP\_874) = 1 TMP\_875 = 1 not(TMP\_875) = 0 TMP\_876 = 1 not(TMP\_876) = 0 TMP\_877 = 1 not(TMP\_877) = 0 TMP\_878 = 1 not(TMP\_878) = 0 TMP\_879 = 1 not(TMP\_879) = 0 TMP\_880 = 5 TMP\_881 = 0 not(TMP\_881) = 1 TMP\_882 = 0 not(TMP\_882) = 1 TMP\_883 = 0 TMP\_884 = 1 not(TMP\_884) = 0 TMP\_885 = 1 not(TMP\_885) = 0 TMP\_886 = 2 TMP\_887 = 0 not(TMP\_887) = 1 TMP\_888 = 0 not(TMP\_888) = 1 TMP\_889 = 1 not(TMP\_889) = 0 TMP\_890 = 1 not(TMP\_890) = 0 TMP\_891 = 1 not(TMP\_891) = 0 TMP\_892 = 2 TMP\_893 = 0 not(TMP\_893) = 1 TMP\_894 = 1 not(TMP\_894) = 0 TMP\_895 = 0 not(TMP\_895) = 1 TMP\_896 = 1 not(TMP\_896) = 0 TMP\_897 = 1 not(TMP\_897) = 0 TMP\_898 = 1 not(TMP\_898) = 0 TMP\_899 = 4 TMP\_900 = 0 not(TMP\_900) = 1 TMP\_901 = 0 not(TMP\_901) = 1 TMP\_902 = 0 TMP\_903 = 1 not(TMP\_903) = 0 TMP\_904 = 1 not(TMP\_904) = 0 TMP\_905 = 2 TMP\_906 = 0 not(TMP\_906) = 1 TMP\_907 = 0 not(TMP\_907) = 1 TMP\_908 = 1 not(TMP\_908) = 0 TMP\_909 = 1 not(TMP\_909) = 0 TMP\_910 = 1 not(TMP\_910) = 0 TMP\_911 = 2 TMP\_912 = 1 not(TMP\_912) = 0 TMP\_913 = 0 not(TMP\_913) = 1 TMP\_914 = 1 not(TMP\_914) = 0 TMP\_915 = 1 not(TMP\_915) = 0 TMP\_916 = 1 not(TMP\_916) = 0 TMP\_917 = 1 not(TMP\_917) = 0 TMP\_918 = 5 TMP\_919 = 0 not(TMP\_919) = 1 TMP\_920 = 0 not(TMP\_920) = 1 TMP\_921 = 0 TMP\_922 = 1 not(TMP\_922) = 0 TMP\_923 = 1 not(TMP\_923) = 0 TMP\_924 = 2 TMP\_925 = 0 not(TMP\_925) = 1 TMP\_926 = 0 not(TMP\_926) = 1 TMP\_927 = 1 not(TMP\_927) = 0 TMP\_928 = 1 not(TMP\_928) = 0 TMP\_929 = 1 not(TMP\_929) = 0 TMP\_930 = 2 TMP\_931 = 1 not(TMP\_931) = 0 TMP\_932 = 0 not(TMP\_932) = 1 TMP\_933 = 1 not(TMP\_933) = 0 TMP\_934 = 1 not(TMP\_934) = 0 TMP\_935 = 1 not(TMP\_935) = 0 TMP\_936 = 0 not(TMP\_936) = 1 TMP\_937 = 4 TMP\_938 = 0 not(TMP\_938) = 1 TMP\_939 = 0 not(TMP\_939) = 1 TMP\_940 = 0 TMP\_941 = 1 not(TMP\_941) = 0 TMP\_942 = 1 not(TMP\_942) = 0 TMP\_943 = 2 TMP\_944 = 0 not(TMP\_944) = 1 TMP\_945 = 0 not(TMP\_945) = 1 TMP\_946 = 1 not(TMP\_946) = 0 TMP\_947 = 1 not(TMP\_947) = 0 TMP\_948 = 1 not(TMP\_948) = 0 TMP\_949 = 2 TMP\_950 = 0 not(TMP\_950) = 1 TMP\_951 = 1 not(TMP\_951) = 0 TMP\_952 = 1 not(TMP\_952) = 0 TMP\_953 = 1 not(TMP\_953) = 0 TMP\_954 = 1 not(TMP\_954) = 0 TMP\_955 = 1 not(TMP\_955) = 0 TMP\_956 = 5 TMP\_957 = 0 not(TMP\_957) = 1 TMP\_958 = 0 not(TMP\_958) = 1 TMP\_959 = 0 TMP\_960 = 1 not(TMP\_960) = 0 TMP\_961 = 1 not(TMP\_961) = 0 TMP\_962 = 2 TMP\_963 = 0 not(TMP\_963) = 1 TMP\_964 = 0 not(TMP\_964) = 1 TMP\_965 = 1 not(TMP\_965) = 0 TMP\_966 = 1 not(TMP\_966) = 0 TMP\_967 = 1 not(TMP\_967) = 0 TMP\_968 = 2 TMP\_969 = 1 not(TMP\_969) = 0 TMP\_970 = 1 not(TMP\_970) = 0 TMP\_971 = 1 not(TMP\_971) = 0 TMP\_972 = 1 not(TMP\_972) = 0 TMP\_973 = 1 not(TMP\_973) = 0 TMP\_974 = 0 not(TMP\_974) = 1 TMP\_975 = 5 TMP\_976 = 0 not(TMP\_976) = 1 TMP\_977 = 0 not(TMP\_977) = 1 TMP\_978 = 0 TMP\_979 = 1 not(TMP\_979) = 0 TMP\_980 = 1 not(TMP\_980) = 0 TMP\_981 = 2 TMP\_982 = 0 not(TMP\_982) = 1 TMP\_983 = 0 not(TMP\_983) = 1 TMP\_984 = 1 not(TMP\_984) = 0 TMP\_985 = 1 not(TMP\_985) = 0 TMP\_986 = 1 not(TMP\_986) = 0 TMP\_987 = 2 TMP\_988 = 1 not(TMP\_988) = 0 TMP\_989 = 1 not(TMP\_989) = 0 TMP\_990 = 0 not(TMP\_990) = 1 TMP\_991 = 1 not(TMP\_991) = 0 TMP\_992 = 1 not(TMP\_992) = 0 TMP\_993 = 1 not(TMP\_993) = 0 TMP\_994 = 5 TMP\_995 = 0 not(TMP\_995) = 1 TMP\_996 = 0 not(TMP\_996) = 1 TMP\_997 = 0 TMP\_998 = 1 not(TMP\_998) = 0 TMP\_999 = 1 not(TMP\_999) = 0 TMP\_1000 = 2 TMP\_1001 = 0 not(TMP\_1001) = 1 TMP\_1002 = 0 not(TMP\_1002) = 1 TMP\_1003 = 1 not(TMP\_1003) = 0 TMP\_1004 = 1 not(TMP\_1004) = 0 TMP\_1005 = 1 not(TMP\_1005) = 0 TMP\_1006 = 2 TMP\_1007 = 0 not(TMP\_1007) = 1 TMP\_1008 = 1 not(TMP\_1008) = 0 TMP\_1009 = 1 not(TMP\_1009) = 0 TMP\_1010 = 1 not(TMP\_1010) = 0 TMP\_1011 = 1 not(TMP\_1011) = 0 TMP\_1012 = 1 not(TMP\_1012) = 0 TMP\_1013 = 5 TMP\_1014 = 0 not(TMP\_1014) = 1 TMP\_1015 = 0 not(TMP\_1015) = 1 TMP\_1016 = 0 TMP\_1017 = 1 not(TMP\_1017) = 0 TMP\_1018 = 1 not(TMP\_1018) = 0 TMP\_1019 = 2 TMP\_1020 = 0 not(TMP\_1020) = 1 TMP\_1021 = 0 not(TMP\_1021) = 1 TMP\_1022 = 1 not(TMP\_1022) = 0 TMP\_1023 = 1 not(TMP\_1023) = 0 TMP\_1024 = 1 not(TMP\_1024) = 0 TMP\_1025 = 2 TMP\_1026 = 0 not(TMP\_1026) = 1 TMP\_1027 = 1 not(TMP\_1027) = 0 TMP\_1028 = 1 not(TMP\_1028) = 0 TMP\_1029 = 1 not(TMP\_1029) = 0 TMP\_1030 = 1 not(TMP\_1030) = 0 TMP\_1031 = 0 not(TMP\_1031) = 1 TMP\_1032 = 4 TMP\_1033 = 0 not(TMP\_1033) = 1 TMP\_1034 = 0 not(TMP\_1034) = 1 TMP\_1035 = 0 TMP\_1036 = 1 not(TMP\_1036) = 0 TMP\_1037 = 1 not(TMP\_1037) = 0 TMP\_1038 = 2 TMP\_1039 = 0 not(TMP\_1039) = 1 TMP\_1040 = 0 not(TMP\_1040) = 1 TMP\_1041 = 1 not(TMP\_1041) = 0 TMP\_1042 = 1 not(TMP\_1042) = 0 TMP\_1043 = 1 not(TMP\_1043) = 0 TMP\_1044 = 2 Area\_0 = 60 Distance\_0\_Rule\_0 = 20 Distance\_1\_Rule\_0 = 3 Distance\_2\_Rule\_0 = 1 Area\_1 = 174 Distance\_0\_Rule\_1 = 58 Distance\_1\_Rule\_1 = 3 Distance\_2\_Rule\_1 = 1 Area\_2 = 116 Distance\_0\_Rule\_2 = 58 Distance\_1\_Rule\_2 = 2 Distance\_2\_Rule\_2 = 1 Area\_3 = 58 Distance\_0\_Rule\_3 = 58 Distance\_1\_Rule\_3 = 1 Distance\_2\_Rule\_3 = 1 Area\_4 = 120 Distance\_0\_Rule\_4 = 40 Distance\_1\_Rule\_4 = 3 Distance\_2\_Rule\_4 = 1 Area\_5 = 120 Distance\_0\_Rule\_5 = 40 Distance\_1\_Rule\_5 = 3 Distance\_2\_Rule\_5 = 1 Area\_6 = 60 Distance\_0\_Rule\_6 = 20 Distance\_1\_Rule\_6 = 3 Distance\_2\_Rule\_6 = 1 Area\_7 = 3 -(Rule\_7\_LB) = -79 Distance\_0\_Rule\_7 = 1 -(Rule\_7\_LB) = 0 Distance\_1\_Rule\_7 = 3 -(Rule\_7\_LB) = -1 Distance\_2\_Rule\_7 = 1 Area\_8 = 1 -(Rule\_8\_LB) = -79 Distance\_0\_Rule\_8 = 1 -(Rule\_8\_LB) = 0 Distance\_1\_Rule\_8 = 1 -(Rule\_8\_LB) = 0 Distance\_2\_Rule\_8 = 1 Area\_9 = 3 -(Rule\_9\_LB) = -20 Distance\_0\_Rule\_9 = 1 -(Rule\_9\_LB) = 0 Distance\_1\_Rule\_9 = 3 -(Rule\_9\_LB) = 0 Distance\_2\_Rule\_9 = 1 Area\_10 = 3 -(Rule\_10\_LB) = -20 Distance\_0\_Rule\_10 = 1 -(Rule\_10\_LB) = 0 Distance\_1\_Rule\_10 = 3 -(Rule\_10\_LB) = -1 Distance\_2\_Rule\_10 = 1 Area\_11 = 2 -(Rule\_11\_LB) = -79 Distance\_0\_Rule\_11 = 1 -(Rule\_11\_LB) = -1 Distance\_1\_Rule\_11 = 2 -(Rule\_11\_LB) = 0 Distance\_2\_Rule\_11 = 1 TMP\_1045 = 720 .

- Solution #2 found. 2 Solutions, Resolution 1.249s, 1459 Nodes (1,168.5 n/s), 2801 Backtracks, 1405 Fails, 0 Restarts

Rule\_7\_LB = 79 Rule\_7\_UB = 80 Rule\_7\_LB = 0 Rule\_7\_UB = 3 Rule\_7\_LB = 1 Rule\_7\_UB = 2 Rule\_8\_LB = 79 Rule\_8\_UB = 80 Rule\_8\_LB = 0 Rule\_8\_UB = 1 Rule\_8\_LB = 0 Rule\_8\_UB = 1 Rule\_9\_LB = 20 Rule\_9\_UB = 21 Rule\_9\_LB = 0 Rule\_9\_UB = 3 Rule\_9\_LB = 0 Rule\_9\_UB = 1 Rule\_10\_LB = 20 Rule\_10\_UB = 21 Rule\_10\_LB = 0 Rule\_10\_UB = 3 Rule\_10\_LB = 1 Rule\_10\_UB = 2 Rule\_11\_LB = 79 Rule\_11\_UB = 80 Rule\_11\_LB = 1 Rule\_11\_UB = 3 Rule\_11\_LB = 0 Rule\_11\_UB = 1 Overlaps\_0\_0 = 0 Overlaps\_0\_1 = 0 Overlaps\_0\_2 = 0 Overlaps\_0\_3 = 0 Overlaps\_0\_4 = 0 Overlaps\_0\_5 = 0 Overlaps\_0\_6 = 0 Overlaps\_0\_7 = 0 Overlaps\_0\_8 = 0 Overlaps\_0\_9 = 0 Overlaps\_0\_10 = 0 Overlaps\_0\_11 = 0 Overlaps\_1\_0 = 0 Overlaps\_1\_1 = 0 Overlaps\_1\_2 = 0 Overlaps\_1\_3 = 0 Overlaps\_1\_4 = 0 Overlaps\_1\_5 = 0 Overlaps\_1\_6 = 0 Overlaps\_1\_7 = 0 Overlaps\_1\_8 = 0 Overlaps\_1\_9 = 0 Overlaps\_1\_10 = 0 Overlaps\_1\_11 = 0 Overlaps\_2\_0 = 0 Overlaps\_2\_1 = 0 Overlaps\_2\_2 = 0 Overlaps\_2\_3 = 0 Overlaps\_2\_4 = 0 Overlaps\_2\_5 = 1 Overlaps\_2\_6 = 0 Overlaps\_2\_7 = 0 Overlaps\_2\_8 = 0 Overlaps\_2\_9 = 0 Overlaps\_2\_10 = 0 Overlaps\_2\_11 = 0 Overlaps\_3\_0 = 0 Overlaps\_3\_1 = 0 Overlaps\_3\_2 = 0 Overlaps\_3\_3 = 0 Overlaps\_3\_4 = 0 Overlaps\_3\_5 = 0 Overlaps\_3\_6 = 0 Overlaps\_3\_7 = 0 Overlaps\_3\_8 = 0 Overlaps\_3\_9 = 0 Overlaps\_3\_10 = 0 Overlaps\_3\_11 = 0 Overlaps\_4\_0 = 0 Overlaps\_4\_1 = 0 Overlaps\_4\_2 = 0 Overlaps\_4\_3 = 0 Overlaps\_4\_4 = 0 Overlaps\_4\_5 = 0 Overlaps\_4\_6 = 0 Overlaps\_4\_7 = 0 Overlaps\_4\_8 = 0 Overlaps\_4\_9 = 0 Overlaps\_4\_10 = 0 Overlaps\_4\_11 = 0 Overlaps\_5\_0 = 0 Overlaps\_5\_1 = 0 Overlaps\_5\_2 = 0 Overlaps\_5\_3 = 0 Overlaps\_5\_4 = 0 Overlaps\_5\_5 = 0 Overlaps\_5\_6 = 0 Overlaps\_5\_7 = 0 Overlaps\_5\_8 = 0 Overlaps\_5\_9 = 0 Overlaps\_5\_10 = 0 Overlaps\_5\_11 = 0 Overlaps\_6\_0 = 0 Overlaps\_6\_1 = 0 Overlaps\_6\_2 = 0 Overlaps\_6\_3 = 0 Overlaps\_6\_4 = 0 Overlaps\_6\_5 = 0 Overlaps\_6\_6 = 0 Overlaps\_6\_7 = 0 Overlaps\_6\_8 = 0 Overlaps\_6\_9 = 0 Overlaps\_6\_10 = 0 Overlaps\_6\_11 = 0 Overlaps\_7\_0 = 0 Overlaps\_7\_1 = 0 Overlaps\_7\_2 = 0 Overlaps\_7\_3 = 0 Overlaps\_7\_4 = 0 Overlaps\_7\_5 = 0 Overlaps\_7\_6 = 0 Overlaps\_7\_7 = 0 Overlaps\_7\_8 = 0 Overlaps\_7\_9 = 0 Overlaps\_7\_10 = 0 Overlaps\_7\_11 = 0 Overlaps\_8\_0 = 0 Overlaps\_8\_1 = 0 Overlaps\_8\_2 = 0 Overlaps\_8\_3 = 0 Overlaps\_8\_4 = 0 Overlaps\_8\_5 = 0 Overlaps\_8\_6 = 0 Overlaps\_8\_7 = 0 Overlaps\_8\_8 = 0 Overlaps\_8\_9 = 0 Overlaps\_8\_10 = 0 Overlaps\_8\_11 = 0 Overlaps\_9\_0 = 0 Overlaps\_9\_1 = 0 Overlaps\_9\_2 = 0 Overlaps\_9\_3 = 0 Overlaps\_9\_4 = 0 Overlaps\_9\_5 = 0 Overlaps\_9\_6 = 0 Overlaps\_9\_7 = 0 Overlaps\_9\_8 = 0 Overlaps\_9\_9 = 0 Overlaps\_9\_10 = 0 Overlaps\_9\_11 = 0 Overlaps\_10\_0 = 0 Overlaps\_10\_1 = 0 Overlaps\_10\_2 = 0 Overlaps\_10\_3 = 0 Overlaps\_10\_4 = 0 Overlaps\_10\_5 = 0 Overlaps\_10\_6 = 0 Overlaps\_10\_7 = 0 Overlaps\_10\_8 = 0 Overlaps\_10\_9 = 0 Overlaps\_10\_10 = 0 Overlaps\_10\_11 = 0 Overlaps\_11\_0 = 0 Overlaps\_11\_1 = 0 Overlaps\_11\_2 = 0 Overlaps\_11\_3 = 0 Overlaps\_11\_4 = 0 Overlaps\_11\_5 = 0 Overlaps\_11\_6 = 0 Overlaps\_11\_7 = 0 Overlaps\_11\_8 = 0 Overlaps\_11\_9 = 0 Overlaps\_11\_10 = 0 Overlaps\_11\_11 = 0 TMP\_0 = 0 not(TMP\_0) = 1 TMP\_1 = 1 not(TMP\_1) = 0 TMP\_2 = 1 not(TMP\_2) = 0 TMP\_3 = 1 not(TMP\_3) = 0 TMP\_4 = 1 not(TMP\_4) = 0 TMP\_5 = 1 not(TMP\_5) = 0 TMP\_6 = 5 TMP\_7 = 0 not(TMP\_7) = 1 TMP\_8 = 0 not(TMP\_8) = 1 TMP\_9 = 0 TMP\_10 = 1 not(TMP\_10) = 0 TMP\_11 = 1 not(TMP\_11) = 0 TMP\_12 = 2 TMP\_13 = 0 not(TMP\_13) = 1 TMP\_14 = 0 not(TMP\_14) = 1 TMP\_15 = 1 not(TMP\_15) = 0 TMP\_16 = 1 not(TMP\_16) = 0 TMP\_17 = 1 not(TMP\_17) = 0 TMP\_18 = 2 TMP\_19 = 0 not(TMP\_19) = 1 TMP\_20 = 1 not(TMP\_20) = 0 TMP\_21 = 1 not(TMP\_21) = 0 TMP\_22 = 1 not(TMP\_22) = 0 TMP\_23 = 1 not(TMP\_23) = 0 TMP\_24 = 1 not(TMP\_24) = 0 TMP\_25 = 5 TMP\_26 = 0 not(TMP\_26) = 1 TMP\_27 = 0 not(TMP\_27) = 1 TMP\_28 = 0 TMP\_29 = 1 not(TMP\_29) = 0 TMP\_30 = 1 not(TMP\_30) = 0 TMP\_31 = 2 TMP\_32 = 0 not(TMP\_32) = 1 TMP\_33 = 0 not(TMP\_33) = 1 TMP\_34 = 1 not(TMP\_34) = 0 TMP\_35 = 1 not(TMP\_35) = 0 TMP\_36 = 1 not(TMP\_36) = 0 TMP\_37 = 2 TMP\_38 = 0 not(TMP\_38) = 1 TMP\_39 = 1 not(TMP\_39) = 0 TMP\_40 = 1 not(TMP\_40) = 0 TMP\_41 = 1 not(TMP\_41) = 0 TMP\_42 = 0 not(TMP\_42) = 1 TMP\_43 = 1 not(TMP\_43) = 0 TMP\_44 = 4 TMP\_45 = 0 not(TMP\_45) = 1 TMP\_46 = 0 not(TMP\_46) = 1 TMP\_47 = 0 TMP\_48 = 1 not(TMP\_48) = 0 TMP\_49 = 1 not(TMP\_49) = 0 TMP\_50 = 2 TMP\_51 = 0 not(TMP\_51) = 1 TMP\_52 = 0 not(TMP\_52) = 1 TMP\_53 = 1 not(TMP\_53) = 0 TMP\_54 = 1 not(TMP\_54) = 0 TMP\_55 = 1 not(TMP\_55) = 0 TMP\_56 = 2 TMP\_57 = 0 not(TMP\_57) = 1 TMP\_58 = 1 not(TMP\_58) = 0 TMP\_59 = 1 not(TMP\_59) = 0 TMP\_60 = 1 not(TMP\_60) = 0 TMP\_61 = 0 not(TMP\_61) = 1 TMP\_62 = 1 not(TMP\_62) = 0 TMP\_63 = 4 TMP\_64 = 0 not(TMP\_64) = 1 TMP\_65 = 0 not(TMP\_65) = 1 TMP\_66 = 0 TMP\_67 = 1 not(TMP\_67) = 0 TMP\_68 = 1 not(TMP\_68) = 0 TMP\_69 = 2 TMP\_70 = 0 not(TMP\_70) = 1 TMP\_71 = 0 not(TMP\_71) = 1 TMP\_72 = 1 not(TMP\_72) = 0 TMP\_73 = 1 not(TMP\_73) = 0 TMP\_74 = 1 not(TMP\_74) = 0 TMP\_75 = 2 TMP\_76 = 1 not(TMP\_76) = 0 TMP\_77 = 0 not(TMP\_77) = 1 TMP\_78 = 1 not(TMP\_78) = 0 TMP\_79 = 1 not(TMP\_79) = 0 TMP\_80 = 0 not(TMP\_80) = 1 TMP\_81 = 1 not(TMP\_81) = 0 TMP\_82 = 4 TMP\_83 = 0 not(TMP\_83) = 1 TMP\_84 = 0 not(TMP\_84) = 1 TMP\_85 = 0 TMP\_86 = 1 not(TMP\_86) = 0 TMP\_87 = 1 not(TMP\_87) = 0 TMP\_88 = 2 TMP\_89 = 0 not(TMP\_89) = 1 TMP\_90 = 0 not(TMP\_90) = 1 TMP\_91 = 1 not(TMP\_91) = 0 TMP\_92 = 1 not(TMP\_92) = 0 TMP\_93 = 1 not(TMP\_93) = 0 TMP\_94 = 2 TMP\_95 = 1 not(TMP\_95) = 0 TMP\_96 = 0 not(TMP\_96) = 1 TMP\_97 = 1 not(TMP\_97) = 0 TMP\_98 = 1 not(TMP\_98) = 0 TMP\_99 = 1 not(TMP\_99) = 0 TMP\_100 = 1 not(TMP\_100) = 0 TMP\_101 = 5 TMP\_102 = 0 not(TMP\_102) = 1 TMP\_103 = 0 not(TMP\_103) = 1 TMP\_104 = 0 TMP\_105 = 1 not(TMP\_105) = 0 TMP\_106 = 1 not(TMP\_106) = 0 TMP\_107 = 2 TMP\_108 = 0 not(TMP\_108) = 1 TMP\_109 = 0 not(TMP\_109) = 1 TMP\_110 = 1 not(TMP\_110) = 0 TMP\_111 = 1 not(TMP\_111) = 0 TMP\_112 = 1 not(TMP\_112) = 0 TMP\_113 = 2 TMP\_114 = 0 not(TMP\_114) = 1 TMP\_115 = 1 not(TMP\_115) = 0 TMP\_116 = 1 not(TMP\_116) = 0 TMP\_117 = 1 not(TMP\_117) = 0 TMP\_118 = 0 not(TMP\_118) = 1 TMP\_119 = 1 not(TMP\_119) = 0 TMP\_120 = 4 TMP\_121 = 0 not(TMP\_121) = 1 TMP\_122 = 0 not(TMP\_122) = 1 TMP\_123 = 0 TMP\_124 = 1 not(TMP\_124) = 0 TMP\_125 = 1 not(TMP\_125) = 0 TMP\_126 = 2 TMP\_127 = 0 not(TMP\_127) = 1 TMP\_128 = 0 not(TMP\_128) = 1 TMP\_129 = 1 not(TMP\_129) = 0 TMP\_130 = 1 not(TMP\_130) = 0 TMP\_131 = 1 not(TMP\_131) = 0 TMP\_132 = 2 TMP\_133 = 1 not(TMP\_133) = 0 TMP\_134 = 1 not(TMP\_134) = 0 TMP\_135 = 1 not(TMP\_135) = 0 TMP\_136 = 1 not(TMP\_136) = 0 TMP\_137 = 0 not(TMP\_137) = 1 TMP\_138 = 1 not(TMP\_138) = 0 TMP\_139 = 5 TMP\_140 = 0 not(TMP\_140) = 1 TMP\_141 = 0 not(TMP\_141) = 1 TMP\_142 = 0 TMP\_143 = 1 not(TMP\_143) = 0 TMP\_144 = 1 not(TMP\_144) = 0 TMP\_145 = 2 TMP\_146 = 0 not(TMP\_146) = 1 TMP\_147 = 0 not(TMP\_147) = 1 TMP\_148 = 1 not(TMP\_148) = 0 TMP\_149 = 1 not(TMP\_149) = 0 TMP\_150 = 1 not(TMP\_150) = 0 TMP\_151 = 2 TMP\_152 = 0 not(TMP\_152) = 1 TMP\_153 = 1 not(TMP\_153) = 0 TMP\_154 = 1 not(TMP\_154) = 0 TMP\_155 = 1 not(TMP\_155) = 0 TMP\_156 = 0 not(TMP\_156) = 1 TMP\_157 = 1 not(TMP\_157) = 0 TMP\_158 = 4 TMP\_159 = 0 not(TMP\_159) = 1 TMP\_160 = 0 not(TMP\_160) = 1 TMP\_161 = 0 TMP\_162 = 1 not(TMP\_162) = 0 TMP\_163 = 1 not(TMP\_163) = 0 TMP\_164 = 2 TMP\_165 = 0 not(TMP\_165) = 1 TMP\_166 = 0 not(TMP\_166) = 1 TMP\_167 = 1 not(TMP\_167) = 0 TMP\_168 = 1 not(TMP\_168) = 0 TMP\_169 = 1 not(TMP\_169) = 0 TMP\_170 = 2 TMP\_171 = 0 not(TMP\_171) = 1 TMP\_172 = 1 not(TMP\_172) = 0 TMP\_173 = 1 not(TMP\_173) = 0 TMP\_174 = 1 not(TMP\_174) = 0 TMP\_175 = 1 not(TMP\_175) = 0 TMP\_176 = 1 not(TMP\_176) = 0 TMP\_177 = 5 TMP\_178 = 0 not(TMP\_178) = 1 TMP\_179 = 0 not(TMP\_179) = 1 TMP\_180 = 0 TMP\_181 = 1 not(TMP\_181) = 0 TMP\_182 = 1 not(TMP\_182) = 0 TMP\_183 = 2 TMP\_184 = 0 not(TMP\_184) = 1 TMP\_185 = 0 not(TMP\_185) = 1 TMP\_186 = 1 not(TMP\_186) = 0 TMP\_187 = 1 not(TMP\_187) = 0 TMP\_188 = 1 not(TMP\_188) = 0 TMP\_189 = 2 TMP\_190 = 1 not(TMP\_190) = 0 TMP\_191 = 1 not(TMP\_191) = 0 TMP\_192 = 1 not(TMP\_192) = 0 TMP\_193 = 1 not(TMP\_193) = 0 TMP\_194 = 0 not(TMP\_194) = 1 TMP\_195 = 1 not(TMP\_195) = 0 TMP\_196 = 5 TMP\_197 = 0 not(TMP\_197) = 1 TMP\_198 = 0 not(TMP\_198) = 1 TMP\_199 = 0 TMP\_200 = 1 not(TMP\_200) = 0 TMP\_201 = 1 not(TMP\_201) = 0 TMP\_202 = 2 TMP\_203 = 0 not(TMP\_203) = 1 TMP\_204 = 0 not(TMP\_204) = 1 TMP\_205 = 1 not(TMP\_205) = 0 TMP\_206 = 1 not(TMP\_206) = 0 TMP\_207 = 1 not(TMP\_207) = 0 TMP\_208 = 2 TMP\_209 = 0 not(TMP\_209) = 1 TMP\_210 = 1 not(TMP\_210) = 0 TMP\_211 = 1 not(TMP\_211) = 0 TMP\_212 = 1 not(TMP\_212) = 0 TMP\_213 = 1 not(TMP\_213) = 0 TMP\_214 = 0 not(TMP\_214) = 1 TMP\_215 = 4 TMP\_216 = 0 not(TMP\_216) = 1 TMP\_217 = 0 not(TMP\_217) = 1 TMP\_218 = 0 TMP\_219 = 1 not(TMP\_219) = 0 TMP\_220 = 1 not(TMP\_220) = 0 TMP\_221 = 2 TMP\_222 = 0 not(TMP\_222) = 1 TMP\_223 = 0 not(TMP\_223) = 1 TMP\_224 = 1 not(TMP\_224) = 0 TMP\_225 = 1 not(TMP\_225) = 0 TMP\_226 = 1 not(TMP\_226) = 0 TMP\_227 = 2 TMP\_228 = 0 not(TMP\_228) = 1 TMP\_229 = 1 not(TMP\_229) = 0 TMP\_230 = 1 not(TMP\_230) = 0 TMP\_231 = 1 not(TMP\_231) = 0 TMP\_232 = 1 not(TMP\_232) = 0 TMP\_233 = 0 not(TMP\_233) = 1 TMP\_234 = 4 TMP\_235 = 0 not(TMP\_235) = 1 TMP\_236 = 0 not(TMP\_236) = 1 TMP\_237 = 0 TMP\_238 = 1 not(TMP\_238) = 0 TMP\_239 = 1 not(TMP\_239) = 0 TMP\_240 = 2 TMP\_241 = 0 not(TMP\_241) = 1 TMP\_242 = 0 not(TMP\_242) = 1 TMP\_243 = 1 not(TMP\_243) = 0 TMP\_244 = 1 not(TMP\_244) = 0 TMP\_245 = 1 not(TMP\_245) = 0 TMP\_246 = 2 TMP\_247 = 0 not(TMP\_247) = 1 TMP\_248 = 1 not(TMP\_248) = 0 TMP\_249 = 1 not(TMP\_249) = 0 TMP\_250 = 0 not(TMP\_250) = 1 TMP\_251 = 1 not(TMP\_251) = 0 TMP\_252 = 1 not(TMP\_252) = 0 TMP\_253 = 4 TMP\_254 = 0 not(TMP\_254) = 1 TMP\_255 = 0 not(TMP\_255) = 1 TMP\_256 = 0 TMP\_257 = 1 not(TMP\_257) = 0 TMP\_258 = 1 not(TMP\_258) = 0 TMP\_259 = 2 TMP\_260 = 0 not(TMP\_260) = 1 TMP\_261 = 0 not(TMP\_261) = 1 TMP\_262 = 1 not(TMP\_262) = 0 TMP\_263 = 1 not(TMP\_263) = 0 TMP\_264 = 1 not(TMP\_264) = 0 TMP\_265 = 2 TMP\_266 = 0 not(TMP\_266) = 1 TMP\_267 = 1 not(TMP\_267) = 0 TMP\_268 = 1 not(TMP\_268) = 0 TMP\_269 = 1 not(TMP\_269) = 0 TMP\_270 = 1 not(TMP\_270) = 0 TMP\_271 = 1 not(TMP\_271) = 0 TMP\_272 = 5 TMP\_273 = 0 not(TMP\_273) = 1 TMP\_274 = 0 not(TMP\_274) = 1 TMP\_275 = 0 TMP\_276 = 1 not(TMP\_276) = 0 TMP\_277 = 1 not(TMP\_277) = 0 TMP\_278 = 2 TMP\_279 = 0 not(TMP\_279) = 1 TMP\_280 = 0 not(TMP\_280) = 1 TMP\_281 = 1 not(TMP\_281) = 0 TMP\_282 = 1 not(TMP\_282) = 0 TMP\_283 = 1 not(TMP\_283) = 0 TMP\_284 = 2 TMP\_285 = 1 not(TMP\_285) = 0 TMP\_286 = 0 not(TMP\_286) = 1 TMP\_287 = 1 not(TMP\_287) = 0 TMP\_288 = 1 not(TMP\_288) = 0 TMP\_289 = 1 not(TMP\_289) = 0 TMP\_290 = 1 not(TMP\_290) = 0 TMP\_291 = 5 TMP\_292 = 0 not(TMP\_292) = 1 TMP\_293 = 0 not(TMP\_293) = 1 TMP\_294 = 0 TMP\_295 = 1 not(TMP\_295) = 0 TMP\_296 = 1 not(TMP\_296) = 0 TMP\_297 = 2 TMP\_298 = 0 not(TMP\_298) = 1 TMP\_299 = 0 not(TMP\_299) = 1 TMP\_300 = 1 not(TMP\_300) = 0 TMP\_301 = 1 not(TMP\_301) = 0 TMP\_302 = 1 not(TMP\_302) = 0 TMP\_303 = 2 TMP\_304 = 1 not(TMP\_304) = 0 TMP\_305 = 0 not(TMP\_305) = 1 TMP\_306 = 1 not(TMP\_306) = 0 TMP\_307 = 1 not(TMP\_307) = 0 TMP\_308 = 1 not(TMP\_308) = 0 TMP\_309 = 0 not(TMP\_309) = 1 TMP\_310 = 4 TMP\_311 = 0 not(TMP\_311) = 1 TMP\_312 = 0 not(TMP\_312) = 1 TMP\_313 = 0 TMP\_314 = 1 not(TMP\_314) = 0 TMP\_315 = 1 not(TMP\_315) = 0 TMP\_316 = 2 TMP\_317 = 0 not(TMP\_317) = 1 TMP\_318 = 0 not(TMP\_318) = 1 TMP\_319 = 1 not(TMP\_319) = 0 TMP\_320 = 1 not(TMP\_320) = 0 TMP\_321 = 1 not(TMP\_321) = 0 TMP\_322 = 2 TMP\_323 = 0 not(TMP\_323) = 1 TMP\_324 = 1 not(TMP\_324) = 0 TMP\_325 = 1 not(TMP\_325) = 0 TMP\_326 = 1 not(TMP\_326) = 0 TMP\_327 = 1 not(TMP\_327) = 0 TMP\_328 = 1 not(TMP\_328) = 0 TMP\_329 = 5 TMP\_330 = 0 not(TMP\_330) = 1 TMP\_331 = 0 not(TMP\_331) = 1 TMP\_332 = 0 TMP\_333 = 1 not(TMP\_333) = 0 TMP\_334 = 1 not(TMP\_334) = 0 TMP\_335 = 2 TMP\_336 = 0 not(TMP\_336) = 1 TMP\_337 = 0 not(TMP\_337) = 1 TMP\_338 = 1 not(TMP\_338) = 0 TMP\_339 = 1 not(TMP\_339) = 0 TMP\_340 = 1 not(TMP\_340) = 0 TMP\_341 = 2 TMP\_342 = 1 not(TMP\_342) = 0 TMP\_343 = 1 not(TMP\_343) = 0 TMP\_344 = 1 not(TMP\_344) = 0 TMP\_345 = 1 not(TMP\_345) = 0 TMP\_346 = 1 not(TMP\_346) = 0 TMP\_347 = 0 not(TMP\_347) = 1 TMP\_348 = 5 TMP\_349 = 0 not(TMP\_349) = 1 TMP\_350 = 0 not(TMP\_350) = 1 TMP\_351 = 0 TMP\_352 = 1 not(TMP\_352) = 0 TMP\_353 = 1 not(TMP\_353) = 0 TMP\_354 = 2 TMP\_355 = 0 not(TMP\_355) = 1 TMP\_356 = 0 not(TMP\_356) = 1 TMP\_357 = 1 not(TMP\_357) = 0 TMP\_358 = 1 not(TMP\_358) = 0 TMP\_359 = 1 not(TMP\_359) = 0 TMP\_360 = 2 TMP\_361 = 0 not(TMP\_361) = 1 TMP\_362 = 1 not(TMP\_362) = 0 TMP\_363 = 1 not(TMP\_363) = 0 TMP\_364 = 1 not(TMP\_364) = 0 TMP\_365 = 1 not(TMP\_365) = 0 TMP\_366 = 1 not(TMP\_366) = 0 TMP\_367 = 5 TMP\_368 = 0 not(TMP\_368) = 1 TMP\_369 = 0 not(TMP\_369) = 1 TMP\_370 = 0 TMP\_371 = 1 not(TMP\_371) = 0 TMP\_372 = 1 not(TMP\_372) = 0 TMP\_373 = 2 TMP\_374 = 0 not(TMP\_374) = 1 TMP\_375 = 0 not(TMP\_375) = 1 TMP\_376 = 1 not(TMP\_376) = 0 TMP\_377 = 1 not(TMP\_377) = 0 TMP\_378 = 1 not(TMP\_378) = 0 TMP\_379 = 2 TMP\_380 = 0 not(TMP\_380) = 1 TMP\_381 = 1 not(TMP\_381) = 0 TMP\_382 = 1 not(TMP\_382) = 0 TMP\_383 = 1 not(TMP\_383) = 0 TMP\_384 = 1 not(TMP\_384) = 0 TMP\_385 = 0 not(TMP\_385) = 1 TMP\_386 = 4 TMP\_387 = 0 not(TMP\_387) = 1 TMP\_388 = 0 not(TMP\_388) = 1 TMP\_389 = 0 TMP\_390 = 1 not(TMP\_390) = 0 TMP\_391 = 1 not(TMP\_391) = 0 TMP\_392 = 2 TMP\_393 = 0 not(TMP\_393) = 1 TMP\_394 = 0 not(TMP\_394) = 1 TMP\_395 = 1 not(TMP\_395) = 0 TMP\_396 = 1 not(TMP\_396) = 0 TMP\_397 = 1 not(TMP\_397) = 0 TMP\_398 = 2 TMP\_399 = 1 not(TMP\_399) = 0 TMP\_400 = 1 not(TMP\_400) = 0 TMP\_401 = 1 not(TMP\_401) = 0 TMP\_402 = 0 not(TMP\_402) = 1 TMP\_403 = 1 not(TMP\_403) = 0 TMP\_404 = 1 not(TMP\_404) = 0 TMP\_405 = 5 TMP\_406 = 0 not(TMP\_406) = 1 TMP\_407 = 0 not(TMP\_407) = 1 TMP\_408 = 0 TMP\_409 = 1 not(TMP\_409) = 0 TMP\_410 = 1 not(TMP\_410) = 0 TMP\_411 = 2 TMP\_412 = 0 not(TMP\_412) = 1 TMP\_413 = 0 not(TMP\_413) = 1 TMP\_414 = 1 not(TMP\_414) = 0 TMP\_415 = 1 not(TMP\_415) = 0 TMP\_416 = 1 not(TMP\_416) = 0 TMP\_417 = 2 TMP\_418 = 0 not(TMP\_418) = 1 TMP\_419 = 1 not(TMP\_419) = 0 TMP\_420 = 1 not(TMP\_420) = 0 TMP\_421 = 1 not(TMP\_421) = 0 TMP\_422 = 1 not(TMP\_422) = 0 TMP\_423 = 0 not(TMP\_423) = 1 TMP\_424 = 4 TMP\_425 = 0 not(TMP\_425) = 1 TMP\_426 = 0 not(TMP\_426) = 1 TMP\_427 = 0 TMP\_428 = 1 not(TMP\_428) = 0 TMP\_429 = 1 not(TMP\_429) = 0 TMP\_430 = 2 TMP\_431 = 0 not(TMP\_431) = 1 TMP\_432 = 0 not(TMP\_432) = 1 TMP\_433 = 1 not(TMP\_433) = 0 TMP\_434 = 1 not(TMP\_434) = 0 TMP\_435 = 1 not(TMP\_435) = 0 TMP\_436 = 2 TMP\_437 = 1 not(TMP\_437) = 0 TMP\_438 = 0 not(TMP\_438) = 1 TMP\_439 = 1 not(TMP\_439) = 0 TMP\_440 = 1 not(TMP\_440) = 0 TMP\_441 = 1 not(TMP\_441) = 0 TMP\_442 = 0 not(TMP\_442) = 1 TMP\_443 = 4 TMP\_444 = 0 not(TMP\_444) = 1 TMP\_445 = 0 not(TMP\_445) = 1 TMP\_446 = 0 TMP\_447 = 1 not(TMP\_447) = 0 TMP\_448 = 1 not(TMP\_448) = 0 TMP\_449 = 2 TMP\_450 = 0 not(TMP\_450) = 1 TMP\_451 = 0 not(TMP\_451) = 1 TMP\_452 = 1 not(TMP\_452) = 0 TMP\_453 = 1 not(TMP\_453) = 0 TMP\_454 = 1 not(TMP\_454) = 0 TMP\_455 = 2 TMP\_456 = 1 not(TMP\_456) = 0 TMP\_457 = 0 not(TMP\_457) = 1 TMP\_458 = 1 not(TMP\_458) = 0 TMP\_459 = 1 not(TMP\_459) = 0 TMP\_460 = 1 not(TMP\_460) = 0 TMP\_461 = 1 not(TMP\_461) = 0 TMP\_462 = 5 TMP\_463 = 0 not(TMP\_463) = 1 TMP\_464 = 0 not(TMP\_464) = 1 TMP\_465 = 0 TMP\_466 = 1 not(TMP\_466) = 0 TMP\_467 = 1 not(TMP\_467) = 0 TMP\_468 = 2 TMP\_469 = 0 not(TMP\_469) = 1 TMP\_470 = 0 not(TMP\_470) = 1 TMP\_471 = 1 not(TMP\_471) = 0 TMP\_472 = 1 not(TMP\_472) = 0 TMP\_473 = 1 not(TMP\_473) = 0 TMP\_474 = 2 TMP\_475 = 1 not(TMP\_475) = 0 TMP\_476 = 0 not(TMP\_476) = 1 TMP\_477 = 1 not(TMP\_477) = 0 TMP\_478 = 1 not(TMP\_478) = 0 TMP\_479 = 1 not(TMP\_479) = 0 TMP\_480 = 1 not(TMP\_480) = 0 TMP\_481 = 5 TMP\_482 = 0 not(TMP\_482) = 1 TMP\_483 = 0 not(TMP\_483) = 1 TMP\_484 = 0 TMP\_485 = 1 not(TMP\_485) = 0 TMP\_486 = 1 not(TMP\_486) = 0 TMP\_487 = 2 TMP\_488 = 0 not(TMP\_488) = 1 TMP\_489 = 0 not(TMP\_489) = 1 TMP\_490 = 1 not(TMP\_490) = 0 TMP\_491 = 1 not(TMP\_491) = 0 TMP\_492 = 1 not(TMP\_492) = 0 TMP\_493 = 2 TMP\_494 = 1 not(TMP\_494) = 0 TMP\_495 = 0 not(TMP\_495) = 1 TMP\_496 = 1 not(TMP\_496) = 0 TMP\_497 = 1 not(TMP\_497) = 0 TMP\_498 = 1 not(TMP\_498) = 0 TMP\_499 = 1 not(TMP\_499) = 0 TMP\_500 = 5 TMP\_501 = 0 not(TMP\_501) = 1 TMP\_502 = 0 not(TMP\_502) = 1 TMP\_503 = 0 TMP\_504 = 1 not(TMP\_504) = 0 TMP\_505 = 1 not(TMP\_505) = 0 TMP\_506 = 2 TMP\_507 = 0 not(TMP\_507) = 1 TMP\_508 = 0 not(TMP\_508) = 1 TMP\_509 = 1 not(TMP\_509) = 0 TMP\_510 = 1 not(TMP\_510) = 0 TMP\_511 = 1 not(TMP\_511) = 0 TMP\_512 = 2 TMP\_513 = 1 not(TMP\_513) = 0 TMP\_514 = 0 not(TMP\_514) = 1 TMP\_515 = 1 not(TMP\_515) = 0 TMP\_516 = 1 not(TMP\_516) = 0 TMP\_517 = 1 not(TMP\_517) = 0 TMP\_518 = 0 not(TMP\_518) = 1 TMP\_519 = 4 TMP\_520 = 0 not(TMP\_520) = 1 TMP\_521 = 0 not(TMP\_521) = 1 TMP\_522 = 0 TMP\_523 = 1 not(TMP\_523) = 0 TMP\_524 = 1 not(TMP\_524) = 0 TMP\_525 = 2 TMP\_526 = 0 not(TMP\_526) = 1 TMP\_527 = 0 not(TMP\_527) = 1 TMP\_528 = 1 not(TMP\_528) = 0 TMP\_529 = 1 not(TMP\_529) = 0 TMP\_530 = 1 not(TMP\_530) = 0 TMP\_531 = 2 TMP\_532 = 0 not(TMP\_532) = 1 TMP\_533 = 1 not(TMP\_533) = 0 TMP\_534 = 1 not(TMP\_534) = 0 TMP\_535 = 1 not(TMP\_535) = 0 TMP\_536 = 1 not(TMP\_536) = 0 TMP\_537 = 1 not(TMP\_537) = 0 TMP\_538 = 5 TMP\_539 = 0 not(TMP\_539) = 1 TMP\_540 = 0 not(TMP\_540) = 1 TMP\_541 = 0 TMP\_542 = 1 not(TMP\_542) = 0 TMP\_543 = 1 not(TMP\_543) = 0 TMP\_544 = 2 TMP\_545 = 0 not(TMP\_545) = 1 TMP\_546 = 0 not(TMP\_546) = 1 TMP\_547 = 1 not(TMP\_547) = 0 TMP\_548 = 1 not(TMP\_548) = 0 TMP\_549 = 1 not(TMP\_549) = 0 TMP\_550 = 2 TMP\_551 = 1 not(TMP\_551) = 0 TMP\_552 = 0 not(TMP\_552) = 1 TMP\_553 = 1 not(TMP\_553) = 0 TMP\_554 = 1 not(TMP\_554) = 0 TMP\_555 = 1 not(TMP\_555) = 0 TMP\_556 = 0 not(TMP\_556) = 1 TMP\_557 = 4 TMP\_558 = 0 not(TMP\_558) = 1 TMP\_559 = 0 not(TMP\_559) = 1 TMP\_560 = 0 TMP\_561 = 1 not(TMP\_561) = 0 TMP\_562 = 1 not(TMP\_562) = 0 TMP\_563 = 2 TMP\_564 = 0 not(TMP\_564) = 1 TMP\_565 = 0 not(TMP\_565) = 1 TMP\_566 = 1 not(TMP\_566) = 0 TMP\_567 = 1 not(TMP\_567) = 0 TMP\_568 = 1 not(TMP\_568) = 0 TMP\_569 = 2 TMP\_570 = 1 not(TMP\_570) = 0 TMP\_571 = 0 not(TMP\_571) = 1 TMP\_572 = 1 not(TMP\_572) = 0 TMP\_573 = 1 not(TMP\_573) = 0 TMP\_574 = 1 not(TMP\_574) = 0 TMP\_575 = 1 not(TMP\_575) = 0 TMP\_576 = 5 TMP\_577 = 0 not(TMP\_577) = 1 TMP\_578 = 0 not(TMP\_578) = 1 TMP\_579 = 0 TMP\_580 = 1 not(TMP\_580) = 0 TMP\_581 = 1 not(TMP\_581) = 0 TMP\_582 = 2 TMP\_583 = 0 not(TMP\_583) = 1 TMP\_584 = 0 not(TMP\_584) = 1 TMP\_585 = 1 not(TMP\_585) = 0 TMP\_586 = 1 not(TMP\_586) = 0 TMP\_587 = 1 not(TMP\_587) = 0 TMP\_588 = 2 TMP\_589 = 1 not(TMP\_589) = 0 TMP\_590 = 1 not(TMP\_590) = 0 TMP\_591 = 1 not(TMP\_591) = 0 TMP\_592 = 1 not(TMP\_592) = 0 TMP\_593 = 1 not(TMP\_593) = 0 TMP\_594 = 0 not(TMP\_594) = 1 TMP\_595 = 5 TMP\_596 = 0 not(TMP\_596) = 1 TMP\_597 = 0 not(TMP\_597) = 1 TMP\_598 = 0 TMP\_599 = 1 not(TMP\_599) = 0 TMP\_600 = 1 not(TMP\_600) = 0 TMP\_601 = 2 TMP\_602 = 0 not(TMP\_602) = 1 TMP\_603 = 0 not(TMP\_603) = 1 TMP\_604 = 1 not(TMP\_604) = 0 TMP\_605 = 1 not(TMP\_605) = 0 TMP\_606 = 1 not(TMP\_606) = 0 TMP\_607 = 2 TMP\_608 = 1 not(TMP\_608) = 0 TMP\_609 = 0 not(TMP\_609) = 1 TMP\_610 = 1 not(TMP\_610) = 0 TMP\_611 = 1 not(TMP\_611) = 0 TMP\_612 = 1 not(TMP\_612) = 0 TMP\_613 = 1 not(TMP\_613) = 0 TMP\_614 = 5 TMP\_615 = 0 not(TMP\_615) = 1 TMP\_616 = 0 not(TMP\_616) = 1 TMP\_617 = 0 TMP\_618 = 1 not(TMP\_618) = 0 TMP\_619 = 1 not(TMP\_619) = 0 TMP\_620 = 2 TMP\_621 = 0 not(TMP\_621) = 1 TMP\_622 = 0 not(TMP\_622) = 1 TMP\_623 = 1 not(TMP\_623) = 0 TMP\_624 = 1 not(TMP\_624) = 0 TMP\_625 = 1 not(TMP\_625) = 0 TMP\_626 = 2 TMP\_627 = 0 not(TMP\_627) = 1 TMP\_628 = 1 not(TMP\_628) = 0 TMP\_629 = 1 not(TMP\_629) = 0 TMP\_630 = 1 not(TMP\_630) = 0 TMP\_631 = 1 not(TMP\_631) = 0 TMP\_632 = 1 not(TMP\_632) = 0 TMP\_633 = 5 TMP\_634 = 0 not(TMP\_634) = 1 TMP\_635 = 0 not(TMP\_635) = 1 TMP\_636 = 0 TMP\_637 = 1 not(TMP\_637) = 0 TMP\_638 = 1 not(TMP\_638) = 0 TMP\_639 = 2 TMP\_640 = 0 not(TMP\_640) = 1 TMP\_641 = 0 not(TMP\_641) = 1 TMP\_642 = 1 not(TMP\_642) = 0 TMP\_643 = 1 not(TMP\_643) = 0 TMP\_644 = 1 not(TMP\_644) = 0 TMP\_645 = 2 TMP\_646 = 1 not(TMP\_646) = 0 TMP\_647 = 0 not(TMP\_647) = 1 TMP\_648 = 1 not(TMP\_648) = 0 TMP\_649 = 1 not(TMP\_649) = 0 TMP\_650 = 1 not(TMP\_650) = 0 TMP\_651 = 1 not(TMP\_651) = 0 TMP\_652 = 5 TMP\_653 = 0 not(TMP\_653) = 1 TMP\_654 = 0 not(TMP\_654) = 1 TMP\_655 = 0 TMP\_656 = 1 not(TMP\_656) = 0 TMP\_657 = 1 not(TMP\_657) = 0 TMP\_658 = 2 TMP\_659 = 0 not(TMP\_659) = 1 TMP\_660 = 0 not(TMP\_660) = 1 TMP\_661 = 1 not(TMP\_661) = 0 TMP\_662 = 1 not(TMP\_662) = 0 TMP\_663 = 1 not(TMP\_663) = 0 TMP\_664 = 2 TMP\_665 = 1 not(TMP\_665) = 0 TMP\_666 = 0 not(TMP\_666) = 1 TMP\_667 = 1 not(TMP\_667) = 0 TMP\_668 = 1 not(TMP\_668) = 0 TMP\_669 = 0 not(TMP\_669) = 1 TMP\_670 = 1 not(TMP\_670) = 0 TMP\_671 = 4 TMP\_672 = 0 not(TMP\_672) = 1 TMP\_673 = 0 not(TMP\_673) = 1 TMP\_674 = 0 TMP\_675 = 1 not(TMP\_675) = 0 TMP\_676 = 1 not(TMP\_676) = 0 TMP\_677 = 2 TMP\_678 = 0 not(TMP\_678) = 1 TMP\_679 = 0 not(TMP\_679) = 1 TMP\_680 = 1 not(TMP\_680) = 0 TMP\_681 = 1 not(TMP\_681) = 0 TMP\_682 = 1 not(TMP\_682) = 0 TMP\_683 = 2 TMP\_684 = 1 not(TMP\_684) = 0 TMP\_685 = 0 not(TMP\_685) = 1 TMP\_686 = 1 not(TMP\_686) = 0 TMP\_687 = 1 not(TMP\_687) = 0 TMP\_688 = 0 not(TMP\_688) = 1 TMP\_689 = 1 not(TMP\_689) = 0 TMP\_690 = 4 TMP\_691 = 0 not(TMP\_691) = 1 TMP\_692 = 0 not(TMP\_692) = 1 TMP\_693 = 0 TMP\_694 = 1 not(TMP\_694) = 0 TMP\_695 = 1 not(TMP\_695) = 0 TMP\_696 = 2 TMP\_697 = 0 not(TMP\_697) = 1 TMP\_698 = 0 not(TMP\_698) = 1 TMP\_699 = 1 not(TMP\_699) = 0 TMP\_700 = 1 not(TMP\_700) = 0 TMP\_701 = 1 not(TMP\_701) = 0 TMP\_702 = 2 TMP\_703 = 1 not(TMP\_703) = 0 TMP\_704 = 0 not(TMP\_704) = 1 TMP\_705 = 1 not(TMP\_705) = 0 TMP\_706 = 1 not(TMP\_706) = 0 TMP\_707 = 0 not(TMP\_707) = 1 TMP\_708 = 1 not(TMP\_708) = 0 TMP\_709 = 4 TMP\_710 = 0 not(TMP\_710) = 1 TMP\_711 = 0 not(TMP\_711) = 1 TMP\_712 = 0 TMP\_713 = 1 not(TMP\_713) = 0 TMP\_714 = 1 not(TMP\_714) = 0 TMP\_715 = 2 TMP\_716 = 0 not(TMP\_716) = 1 TMP\_717 = 0 not(TMP\_717) = 1 TMP\_718 = 1 not(TMP\_718) = 0 TMP\_719 = 1 not(TMP\_719) = 0 TMP\_720 = 1 not(TMP\_720) = 0 TMP\_721 = 2 TMP\_722 = 1 not(TMP\_722) = 0 TMP\_723 = 0 not(TMP\_723) = 1 TMP\_724 = 1 not(TMP\_724) = 0 TMP\_725 = 1 not(TMP\_725) = 0 TMP\_726 = 1 not(TMP\_726) = 0 TMP\_727 = 1 not(TMP\_727) = 0 TMP\_728 = 5 TMP\_729 = 0 not(TMP\_729) = 1 TMP\_730 = 0 not(TMP\_730) = 1 TMP\_731 = 0 TMP\_732 = 1 not(TMP\_732) = 0 TMP\_733 = 1 not(TMP\_733) = 0 TMP\_734 = 2 TMP\_735 = 0 not(TMP\_735) = 1 TMP\_736 = 0 not(TMP\_736) = 1 TMP\_737 = 1 not(TMP\_737) = 0 TMP\_738 = 1 not(TMP\_738) = 0 TMP\_739 = 1 not(TMP\_739) = 0 TMP\_740 = 2 TMP\_741 = 0 not(TMP\_741) = 1 TMP\_742 = 1 not(TMP\_742) = 0 TMP\_743 = 1 not(TMP\_743) = 0 TMP\_744 = 1 not(TMP\_744) = 0 TMP\_745 = 0 not(TMP\_745) = 1 TMP\_746 = 1 not(TMP\_746) = 0 TMP\_747 = 4 TMP\_748 = 0 not(TMP\_748) = 1 TMP\_749 = 0 not(TMP\_749) = 1 TMP\_750 = 0 TMP\_751 = 1 not(TMP\_751) = 0 TMP\_752 = 1 not(TMP\_752) = 0 TMP\_753 = 2 TMP\_754 = 0 not(TMP\_754) = 1 TMP\_755 = 0 not(TMP\_755) = 1 TMP\_756 = 1 not(TMP\_756) = 0 TMP\_757 = 1 not(TMP\_757) = 0 TMP\_758 = 1 not(TMP\_758) = 0 TMP\_759 = 2 TMP\_760 = 1 not(TMP\_760) = 0 TMP\_761 = 0 not(TMP\_761) = 1 TMP\_762 = 1 not(TMP\_762) = 0 TMP\_763 = 1 not(TMP\_763) = 0 TMP\_764 = 1 not(TMP\_764) = 0 TMP\_765 = 1 not(TMP\_765) = 0 TMP\_766 = 5 TMP\_767 = 0 not(TMP\_767) = 1 TMP\_768 = 0 not(TMP\_768) = 1 TMP\_769 = 0 TMP\_770 = 1 not(TMP\_770) = 0 TMP\_771 = 1 not(TMP\_771) = 0 TMP\_772 = 2 TMP\_773 = 0 not(TMP\_773) = 1 TMP\_774 = 0 not(TMP\_774) = 1 TMP\_775 = 1 not(TMP\_775) = 0 TMP\_776 = 1 not(TMP\_776) = 0 TMP\_777 = 1 not(TMP\_777) = 0 TMP\_778 = 2 TMP\_779 = 1 not(TMP\_779) = 0 TMP\_780 = 0 not(TMP\_780) = 1 TMP\_781 = 1 not(TMP\_781) = 0 TMP\_782 = 1 not(TMP\_782) = 0 TMP\_783 = 0 not(TMP\_783) = 1 TMP\_784 = 1 not(TMP\_784) = 0 TMP\_785 = 4 TMP\_786 = 0 not(TMP\_786) = 1 TMP\_787 = 0 not(TMP\_787) = 1 TMP\_788 = 0 TMP\_789 = 1 not(TMP\_789) = 0 TMP\_790 = 1 not(TMP\_790) = 0 TMP\_791 = 2 TMP\_792 = 0 not(TMP\_792) = 1 TMP\_793 = 0 not(TMP\_793) = 1 TMP\_794 = 1 not(TMP\_794) = 0 TMP\_795 = 1 not(TMP\_795) = 0 TMP\_796 = 1 not(TMP\_796) = 0 TMP\_797 = 2 TMP\_798 = 1 not(TMP\_798) = 0 TMP\_799 = 1 not(TMP\_799) = 0 TMP\_800 = 1 not(TMP\_800) = 0 TMP\_801 = 1 not(TMP\_801) = 0 TMP\_802 = 0 not(TMP\_802) = 1 TMP\_803 = 1 not(TMP\_803) = 0 TMP\_804 = 5 TMP\_805 = 0 not(TMP\_805) = 1 TMP\_806 = 0 not(TMP\_806) = 1 TMP\_807 = 0 TMP\_808 = 1 not(TMP\_808) = 0 TMP\_809 = 1 not(TMP\_809) = 0 TMP\_810 = 2 TMP\_811 = 0 not(TMP\_811) = 1 TMP\_812 = 0 not(TMP\_812) = 1 TMP\_813 = 1 not(TMP\_813) = 0 TMP\_814 = 1 not(TMP\_814) = 0 TMP\_815 = 1 not(TMP\_815) = 0 TMP\_816 = 2 TMP\_817 = 1 not(TMP\_817) = 0 TMP\_818 = 0 not(TMP\_818) = 1 TMP\_819 = 1 not(TMP\_819) = 0 TMP\_820 = 1 not(TMP\_820) = 0 TMP\_821 = 0 not(TMP\_821) = 1 TMP\_822 = 1 not(TMP\_822) = 0 TMP\_823 = 4 TMP\_824 = 0 not(TMP\_824) = 1 TMP\_825 = 0 not(TMP\_825) = 1 TMP\_826 = 0 TMP\_827 = 1 not(TMP\_827) = 0 TMP\_828 = 1 not(TMP\_828) = 0 TMP\_829 = 2 TMP\_830 = 0 not(TMP\_830) = 1 TMP\_831 = 0 not(TMP\_831) = 1 TMP\_832 = 1 not(TMP\_832) = 0 TMP\_833 = 1 not(TMP\_833) = 0 TMP\_834 = 1 not(TMP\_834) = 0 TMP\_835 = 2 TMP\_836 = 0 not(TMP\_836) = 1 TMP\_837 = 1 not(TMP\_837) = 0 TMP\_838 = 1 not(TMP\_838) = 0 TMP\_839 = 1 not(TMP\_839) = 0 TMP\_840 = 1 not(TMP\_840) = 0 TMP\_841 = 0 not(TMP\_841) = 1 TMP\_842 = 4 TMP\_843 = 0 not(TMP\_843) = 1 TMP\_844 = 0 not(TMP\_844) = 1 TMP\_845 = 0 TMP\_846 = 1 not(TMP\_846) = 0 TMP\_847 = 1 not(TMP\_847) = 0 TMP\_848 = 2 TMP\_849 = 0 not(TMP\_849) = 1 TMP\_850 = 0 not(TMP\_850) = 1 TMP\_851 = 1 not(TMP\_851) = 0 TMP\_852 = 1 not(TMP\_852) = 0 TMP\_853 = 1 not(TMP\_853) = 0 TMP\_854 = 2 TMP\_855 = 0 not(TMP\_855) = 1 TMP\_856 = 1 not(TMP\_856) = 0 TMP\_857 = 1 not(TMP\_857) = 0 TMP\_858 = 1 not(TMP\_858) = 0 TMP\_859 = 1 not(TMP\_859) = 0 TMP\_860 = 0 not(TMP\_860) = 1 TMP\_861 = 4 TMP\_862 = 0 not(TMP\_862) = 1 TMP\_863 = 0 not(TMP\_863) = 1 TMP\_864 = 0 TMP\_865 = 1 not(TMP\_865) = 0 TMP\_866 = 1 not(TMP\_866) = 0 TMP\_867 = 2 TMP\_868 = 0 not(TMP\_868) = 1 TMP\_869 = 0 not(TMP\_869) = 1 TMP\_870 = 1 not(TMP\_870) = 0 TMP\_871 = 1 not(TMP\_871) = 0 TMP\_872 = 1 not(TMP\_872) = 0 TMP\_873 = 2 TMP\_874 = 0 not(TMP\_874) = 1 TMP\_875 = 1 not(TMP\_875) = 0 TMP\_876 = 1 not(TMP\_876) = 0 TMP\_877 = 1 not(TMP\_877) = 0 TMP\_878 = 1 not(TMP\_878) = 0 TMP\_879 = 1 not(TMP\_879) = 0 TMP\_880 = 5 TMP\_881 = 0 not(TMP\_881) = 1 TMP\_882 = 0 not(TMP\_882) = 1 TMP\_883 = 0 TMP\_884 = 1 not(TMP\_884) = 0 TMP\_885 = 1 not(TMP\_885) = 0 TMP\_886 = 2 TMP\_887 = 0 not(TMP\_887) = 1 TMP\_888 = 0 not(TMP\_888) = 1 TMP\_889 = 1 not(TMP\_889) = 0 TMP\_890 = 1 not(TMP\_890) = 0 TMP\_891 = 1 not(TMP\_891) = 0 TMP\_892 = 2 TMP\_893 = 0 not(TMP\_893) = 1 TMP\_894 = 1 not(TMP\_894) = 0 TMP\_895 = 0 not(TMP\_895) = 1 TMP\_896 = 1 not(TMP\_896) = 0 TMP\_897 = 1 not(TMP\_897) = 0 TMP\_898 = 1 not(TMP\_898) = 0 TMP\_899 = 4 TMP\_900 = 0 not(TMP\_900) = 1 TMP\_901 = 0 not(TMP\_901) = 1 TMP\_902 = 0 TMP\_903 = 1 not(TMP\_903) = 0 TMP\_904 = 1 not(TMP\_904) = 0 TMP\_905 = 2 TMP\_906 = 0 not(TMP\_906) = 1 TMP\_907 = 0 not(TMP\_907) = 1 TMP\_908 = 1 not(TMP\_908) = 0 TMP\_909 = 1 not(TMP\_909) = 0 TMP\_910 = 1 not(TMP\_910) = 0 TMP\_911 = 2 TMP\_912 = 1 not(TMP\_912) = 0 TMP\_913 = 0 not(TMP\_913) = 1 TMP\_914 = 1 not(TMP\_914) = 0 TMP\_915 = 1 not(TMP\_915) = 0 TMP\_916 = 1 not(TMP\_916) = 0 TMP\_917 = 1 not(TMP\_917) = 0 TMP\_918 = 5 TMP\_919 = 0 not(TMP\_919) = 1 TMP\_920 = 0 not(TMP\_920) = 1 TMP\_921 = 0 TMP\_922 = 1 not(TMP\_922) = 0 TMP\_923 = 1 not(TMP\_923) = 0 TMP\_924 = 2 TMP\_925 = 0 not(TMP\_925) = 1 TMP\_926 = 0 not(TMP\_926) = 1 TMP\_927 = 1 not(TMP\_927) = 0 TMP\_928 = 1 not(TMP\_928) = 0 TMP\_929 = 1 not(TMP\_929) = 0 TMP\_930 = 2 TMP\_931 = 1 not(TMP\_931) = 0 TMP\_932 = 0 not(TMP\_932) = 1 TMP\_933 = 1 not(TMP\_933) = 0 TMP\_934 = 1 not(TMP\_934) = 0 TMP\_935 = 1 not(TMP\_935) = 0 TMP\_936 = 0 not(TMP\_936) = 1 TMP\_937 = 4 TMP\_938 = 0 not(TMP\_938) = 1 TMP\_939 = 0 not(TMP\_939) = 1 TMP\_940 = 0 TMP\_941 = 1 not(TMP\_941) = 0 TMP\_942 = 1 not(TMP\_942) = 0 TMP\_943 = 2 TMP\_944 = 0 not(TMP\_944) = 1 TMP\_945 = 0 not(TMP\_945) = 1 TMP\_946 = 1 not(TMP\_946) = 0 TMP\_947 = 1 not(TMP\_947) = 0 TMP\_948 = 1 not(TMP\_948) = 0 TMP\_949 = 2 TMP\_950 = 0 not(TMP\_950) = 1 TMP\_951 = 1 not(TMP\_951) = 0 TMP\_952 = 1 not(TMP\_952) = 0 TMP\_953 = 1 not(TMP\_953) = 0 TMP\_954 = 1 not(TMP\_954) = 0 TMP\_955 = 1 not(TMP\_955) = 0 TMP\_956 = 5 TMP\_957 = 0 not(TMP\_957) = 1 TMP\_958 = 0 not(TMP\_958) = 1 TMP\_959 = 0 TMP\_960 = 1 not(TMP\_960) = 0 TMP\_961 = 1 not(TMP\_961) = 0 TMP\_962 = 2 TMP\_963 = 0 not(TMP\_963) = 1 TMP\_964 = 0 not(TMP\_964) = 1 TMP\_965 = 1 not(TMP\_965) = 0 TMP\_966 = 1 not(TMP\_966) = 0 TMP\_967 = 1 not(TMP\_967) = 0 TMP\_968 = 2 TMP\_969 = 1 not(TMP\_969) = 0 TMP\_970 = 1 not(TMP\_970) = 0 TMP\_971 = 1 not(TMP\_971) = 0 TMP\_972 = 1 not(TMP\_972) = 0 TMP\_973 = 1 not(TMP\_973) = 0 TMP\_974 = 0 not(TMP\_974) = 1 TMP\_975 = 5 TMP\_976 = 0 not(TMP\_976) = 1 TMP\_977 = 0 not(TMP\_977) = 1 TMP\_978 = 0 TMP\_979 = 1 not(TMP\_979) = 0 TMP\_980 = 1 not(TMP\_980) = 0 TMP\_981 = 2 TMP\_982 = 0 not(TMP\_982) = 1 TMP\_983 = 0 not(TMP\_983) = 1 TMP\_984 = 1 not(TMP\_984) = 0 TMP\_985 = 1 not(TMP\_985) = 0 TMP\_986 = 1 not(TMP\_986) = 0 TMP\_987 = 2 TMP\_988 = 1 not(TMP\_988) = 0 TMP\_989 = 1 not(TMP\_989) = 0 TMP\_990 = 0 not(TMP\_990) = 1 TMP\_991 = 1 not(TMP\_991) = 0 TMP\_992 = 1 not(TMP\_992) = 0 TMP\_993 = 1 not(TMP\_993) = 0 TMP\_994 = 5 TMP\_995 = 0 not(TMP\_995) = 1 TMP\_996 = 0 not(TMP\_996) = 1 TMP\_997 = 0 TMP\_998 = 1 not(TMP\_998) = 0 TMP\_999 = 1 not(TMP\_999) = 0 TMP\_1000 = 2 TMP\_1001 = 0 not(TMP\_1001) = 1 TMP\_1002 = 0 not(TMP\_1002) = 1 TMP\_1003 = 1 not(TMP\_1003) = 0 TMP\_1004 = 1 not(TMP\_1004) = 0 TMP\_1005 = 1 not(TMP\_1005) = 0 TMP\_1006 = 2 TMP\_1007 = 0 not(TMP\_1007) = 1 TMP\_1008 = 1 not(TMP\_1008) = 0 TMP\_1009 = 1 not(TMP\_1009) = 0 TMP\_1010 = 1 not(TMP\_1010) = 0 TMP\_1011 = 1 not(TMP\_1011) = 0 TMP\_1012 = 1 not(TMP\_1012) = 0 TMP\_1013 = 5 TMP\_1014 = 0 not(TMP\_1014) = 1 TMP\_1015 = 0 not(TMP\_1015) = 1 TMP\_1016 = 0 TMP\_1017 = 1 not(TMP\_1017) = 0 TMP\_1018 = 1 not(TMP\_1018) = 0 TMP\_1019 = 2 TMP\_1020 = 0 not(TMP\_1020) = 1 TMP\_1021 = 0 not(TMP\_1021) = 1 TMP\_1022 = 1 not(TMP\_1022) = 0 TMP\_1023 = 1 not(TMP\_1023) = 0 TMP\_1024 = 1 not(TMP\_1024) = 0 TMP\_1025 = 2 TMP\_1026 = 0 not(TMP\_1026) = 1 TMP\_1027 = 1 not(TMP\_1027) = 0 TMP\_1028 = 1 not(TMP\_1028) = 0 TMP\_1029 = 1 not(TMP\_1029) = 0 TMP\_1030 = 1 not(TMP\_1030) = 0 TMP\_1031 = 0 not(TMP\_1031) = 1 TMP\_1032 = 4 TMP\_1033 = 0 not(TMP\_1033) = 1 TMP\_1034 = 0 not(TMP\_1034) = 1 TMP\_1035 = 0 TMP\_1036 = 1 not(TMP\_1036) = 0 TMP\_1037 = 1 not(TMP\_1037) = 0 TMP\_1038 = 2 TMP\_1039 = 0 not(TMP\_1039) = 1 TMP\_1040 = 0 not(TMP\_1040) = 1 TMP\_1041 = 1 not(TMP\_1041) = 0 TMP\_1042 = 1 not(TMP\_1042) = 0 TMP\_1043 = 1 not(TMP\_1043) = 0 TMP\_1044 = 2 Area\_0 = 60 Distance\_0\_Rule\_0 = 20 Distance\_1\_Rule\_0 = 3 Distance\_2\_Rule\_0 = 1 Area\_1 = 174 Distance\_0\_Rule\_1 = 58 Distance\_1\_Rule\_1 = 3 Distance\_2\_Rule\_1 = 1 Area\_2 = 116 Distance\_0\_Rule\_2 = 58 Distance\_1\_Rule\_2 = 2 Distance\_2\_Rule\_2 = 1 Area\_3 = 58 Distance\_0\_Rule\_3 = 58 Distance\_1\_Rule\_3 = 1 Distance\_2\_Rule\_3 = 1 Area\_4 = 120 Distance\_0\_Rule\_4 = 40 Distance\_1\_Rule\_4 = 3 Distance\_2\_Rule\_4 = 1 Area\_5 = 120 Distance\_0\_Rule\_5 = 40 Distance\_1\_Rule\_5 = 3 Distance\_2\_Rule\_5 = 1 Area\_6 = 60 Distance\_0\_Rule\_6 = 20 Distance\_1\_Rule\_6 = 3 Distance\_2\_Rule\_6 = 1 Area\_7 = 3 -(Rule\_7\_LB) = -79 Distance\_0\_Rule\_7 = 1 -(Rule\_7\_LB) = 0 Distance\_1\_Rule\_7 = 3 -(Rule\_7\_LB) = -1 Distance\_2\_Rule\_7 = 1 Area\_8 = 1 -(Rule\_8\_LB) = -79 Distance\_0\_Rule\_8 = 1 -(Rule\_8\_LB) = 0 Distance\_1\_Rule\_8 = 1 -(Rule\_8\_LB) = 0 Distance\_2\_Rule\_8 = 1 Area\_9 = 3 -(Rule\_9\_LB) = -20 Distance\_0\_Rule\_9 = 1 -(Rule\_9\_LB) = 0 Distance\_1\_Rule\_9 = 3 -(Rule\_9\_LB) = 0 Distance\_2\_Rule\_9 = 1 Area\_10 = 3 -(Rule\_10\_LB) = -20 Distance\_0\_Rule\_10 = 1 -(Rule\_10\_LB) = 0 Distance\_1\_Rule\_10 = 3 -(Rule\_10\_LB) = -1 Distance\_2\_Rule\_10 = 1 Area\_11 = 2 -(Rule\_11\_LB) = -79 Distance\_0\_Rule\_11 = 1 -(Rule\_11\_LB) = -1 Distance\_1\_Rule\_11 = 2 -(Rule\_11\_LB) = 0 Distance\_2\_Rule\_11 = 1 TMP\_1045 = 720 .

- Solution #3 found. 3 Solutions, Resolution 1.262s, 1461 Nodes (1,157.2 n/s), 2803 Backtracks, 1405 Fails, 0 Restarts

Rule\_7\_LB = 79 Rule\_7\_UB = 80 Rule\_7\_LB = 0 Rule\_7\_UB = 3 Rule\_7\_LB = 1 Rule\_7\_UB = 2 Rule\_8\_LB = 79 Rule\_8\_UB = 80 Rule\_8\_LB = 0 Rule\_8\_UB = 1 Rule\_8\_LB = 0 Rule\_8\_UB = 1 Rule\_9\_LB = 20 Rule\_9\_UB = 21 Rule\_9\_LB = 0 Rule\_9\_UB = 3 Rule\_9\_LB = 0 Rule\_9\_UB = 1 Rule\_10\_LB = 20 Rule\_10\_UB = 21 Rule\_10\_LB = 0 Rule\_10\_UB = 3 Rule\_10\_LB = 1 Rule\_10\_UB = 2 Rule\_11\_LB = 79 Rule\_11\_UB = 80 Rule\_11\_LB = 1 Rule\_11\_UB = 3 Rule\_11\_LB = 0 Rule\_11\_UB = 1 Overlaps\_0\_0 = 0 Overlaps\_0\_1 = 0 Overlaps\_0\_2 = 0 Overlaps\_0\_3 = 0 Overlaps\_0\_4 = 0 Overlaps\_0\_5 = 0 Overlaps\_0\_6 = 0 Overlaps\_0\_7 = 0 Overlaps\_0\_8 = 0 Overlaps\_0\_9 = 0 Overlaps\_0\_10 = 0 Overlaps\_0\_11 = 0 Overlaps\_1\_0 = 0 Overlaps\_1\_1 = 0 Overlaps\_1\_2 = 0 Overlaps\_1\_3 = 0 Overlaps\_1\_4 = 0 Overlaps\_1\_5 = 0 Overlaps\_1\_6 = 0 Overlaps\_1\_7 = 0 Overlaps\_1\_8 = 0 Overlaps\_1\_9 = 0 Overlaps\_1\_10 = 0 Overlaps\_1\_11 = 0 Overlaps\_2\_0 = 0 Overlaps\_2\_1 = 0 Overlaps\_2\_2 = 0 Overlaps\_2\_3 = 0 Overlaps\_2\_4 = 0 Overlaps\_2\_5 = 0 Overlaps\_2\_6 = 0 Overlaps\_2\_7 = 0 Overlaps\_2\_8 = 0 Overlaps\_2\_9 = 0 Overlaps\_2\_10 = 0 Overlaps\_2\_11 = 0 Overlaps\_3\_0 = 0 Overlaps\_3\_1 = 0 Overlaps\_3\_2 = 0 Overlaps\_3\_3 = 0 Overlaps\_3\_4 = 0 Overlaps\_3\_5 = 0 Overlaps\_3\_6 = 0 Overlaps\_3\_7 = 0 Overlaps\_3\_8 = 0 Overlaps\_3\_9 = 0 Overlaps\_3\_10 = 0 Overlaps\_3\_11 = 0 Overlaps\_4\_0 = 0 Overlaps\_4\_1 = 0 Overlaps\_4\_2 = 0 Overlaps\_4\_3 = 0 Overlaps\_4\_4 = 0 Overlaps\_4\_5 = 1 Overlaps\_4\_6 = 0 Overlaps\_4\_7 = 0 Overlaps\_4\_8 = 0 Overlaps\_4\_9 = 0 Overlaps\_4\_10 = 0 Overlaps\_4\_11 = 0 Overlaps\_5\_0 = 0 Overlaps\_5\_1 = 0 Overlaps\_5\_2 = 0 Overlaps\_5\_3 = 0 Overlaps\_5\_4 = 0 Overlaps\_5\_5 = 0 Overlaps\_5\_6 = 0 Overlaps\_5\_7 = 0 Overlaps\_5\_8 = 0 Overlaps\_5\_9 = 0 Overlaps\_5\_10 = 0 Overlaps\_5\_11 = 0 Overlaps\_6\_0 = 0 Overlaps\_6\_1 = 0 Overlaps\_6\_2 = 0 Overlaps\_6\_3 = 0 Overlaps\_6\_4 = 0 Overlaps\_6\_5 = 0 Overlaps\_6\_6 = 0 Overlaps\_6\_7 = 0 Overlaps\_6\_8 = 0 Overlaps\_6\_9 = 0 Overlaps\_6\_10 = 0 Overlaps\_6\_11 = 0 Overlaps\_7\_0 = 0 Overlaps\_7\_1 = 0 Overlaps\_7\_2 = 0 Overlaps\_7\_3 = 0 Overlaps\_7\_4 = 0 Overlaps\_7\_5 = 0 Overlaps\_7\_6 = 0 Overlaps\_7\_7 = 0 Overlaps\_7\_8 = 0 Overlaps\_7\_9 = 0 Overlaps\_7\_10 = 0 Overlaps\_7\_11 = 0 Overlaps\_8\_0 = 0 Overlaps\_8\_1 = 0 Overlaps\_8\_2 = 0 Overlaps\_8\_3 = 0 Overlaps\_8\_4 = 0 Overlaps\_8\_5 = 0 Overlaps\_8\_6 = 0 Overlaps\_8\_7 = 0 Overlaps\_8\_8 = 0 Overlaps\_8\_9 = 0 Overlaps\_8\_10 = 0 Overlaps\_8\_11 = 0 Overlaps\_9\_0 = 0 Overlaps\_9\_1 = 0 Overlaps\_9\_2 = 0 Overlaps\_9\_3 = 0 Overlaps\_9\_4 = 0 Overlaps\_9\_5 = 0 Overlaps\_9\_6 = 0 Overlaps\_9\_7 = 0 Overlaps\_9\_8 = 0 Overlaps\_9\_9 = 0 Overlaps\_9\_10 = 0 Overlaps\_9\_11 = 0 Overlaps\_10\_0 = 0 Overlaps\_10\_1 = 0 Overlaps\_10\_2 = 0 Overlaps\_10\_3 = 0 Overlaps\_10\_4 = 0 Overlaps\_10\_5 = 0 Overlaps\_10\_6 = 0 Overlaps\_10\_7 = 0 Overlaps\_10\_8 = 0 Overlaps\_10\_9 = 0 Overlaps\_10\_10 = 0 Overlaps\_10\_11 = 0 Overlaps\_11\_0 = 0 Overlaps\_11\_1 = 0 Overlaps\_11\_2 = 0 Overlaps\_11\_3 = 0 Overlaps\_11\_4 = 0 Overlaps\_11\_5 = 0 Overlaps\_11\_6 = 0 Overlaps\_11\_7 = 0 Overlaps\_11\_8 = 0 Overlaps\_11\_9 = 0 Overlaps\_11\_10 = 0 Overlaps\_11\_11 = 0 TMP\_0 = 0 not(TMP\_0) = 1 TMP\_1 = 1 not(TMP\_1) = 0 TMP\_2 = 1 not(TMP\_2) = 0 TMP\_3 = 1 not(TMP\_3) = 0 TMP\_4 = 1 not(TMP\_4) = 0 TMP\_5 = 1 not(TMP\_5) = 0 TMP\_6 = 5 TMP\_7 = 0 not(TMP\_7) = 1 TMP\_8 = 0 not(TMP\_8) = 1 TMP\_9 = 0 TMP\_10 = 1 not(TMP\_10) = 0 TMP\_11 = 1 not(TMP\_11) = 0 TMP\_12 = 2 TMP\_13 = 0 not(TMP\_13) = 1 TMP\_14 = 0 not(TMP\_14) = 1 TMP\_15 = 1 not(TMP\_15) = 0 TMP\_16 = 1 not(TMP\_16) = 0 TMP\_17 = 1 not(TMP\_17) = 0 TMP\_18 = 2 TMP\_19 = 0 not(TMP\_19) = 1 TMP\_20 = 1 not(TMP\_20) = 0 TMP\_21 = 1 not(TMP\_21) = 0 TMP\_22 = 1 not(TMP\_22) = 0 TMP\_23 = 1 not(TMP\_23) = 0 TMP\_24 = 1 not(TMP\_24) = 0 TMP\_25 = 5 TMP\_26 = 0 not(TMP\_26) = 1 TMP\_27 = 0 not(TMP\_27) = 1 TMP\_28 = 0 TMP\_29 = 1 not(TMP\_29) = 0 TMP\_30 = 1 not(TMP\_30) = 0 TMP\_31 = 2 TMP\_32 = 0 not(TMP\_32) = 1 TMP\_33 = 0 not(TMP\_33) = 1 TMP\_34 = 1 not(TMP\_34) = 0 TMP\_35 = 1 not(TMP\_35) = 0 TMP\_36 = 1 not(TMP\_36) = 0 TMP\_37 = 2 TMP\_38 = 0 not(TMP\_38) = 1 TMP\_39 = 1 not(TMP\_39) = 0 TMP\_40 = 1 not(TMP\_40) = 0 TMP\_41 = 1 not(TMP\_41) = 0 TMP\_42 = 0 not(TMP\_42) = 1 TMP\_43 = 1 not(TMP\_43) = 0 TMP\_44 = 4 TMP\_45 = 0 not(TMP\_45) = 1 TMP\_46 = 0 not(TMP\_46) = 1 TMP\_47 = 0 TMP\_48 = 1 not(TMP\_48) = 0 TMP\_49 = 1 not(TMP\_49) = 0 TMP\_50 = 2 TMP\_51 = 0 not(TMP\_51) = 1 TMP\_52 = 0 not(TMP\_52) = 1 TMP\_53 = 1 not(TMP\_53) = 0 TMP\_54 = 1 not(TMP\_54) = 0 TMP\_55 = 1 not(TMP\_55) = 0 TMP\_56 = 2 TMP\_57 = 0 not(TMP\_57) = 1 TMP\_58 = 1 not(TMP\_58) = 0 TMP\_59 = 1 not(TMP\_59) = 0 TMP\_60 = 1 not(TMP\_60) = 0 TMP\_61 = 0 not(TMP\_61) = 1 TMP\_62 = 1 not(TMP\_62) = 0 TMP\_63 = 4 TMP\_64 = 0 not(TMP\_64) = 1 TMP\_65 = 0 not(TMP\_65) = 1 TMP\_66 = 0 TMP\_67 = 1 not(TMP\_67) = 0 TMP\_68 = 1 not(TMP\_68) = 0 TMP\_69 = 2 TMP\_70 = 0 not(TMP\_70) = 1 TMP\_71 = 0 not(TMP\_71) = 1 TMP\_72 = 1 not(TMP\_72) = 0 TMP\_73 = 1 not(TMP\_73) = 0 TMP\_74 = 1 not(TMP\_74) = 0 TMP\_75 = 2 TMP\_76 = 1 not(TMP\_76) = 0 TMP\_77 = 0 not(TMP\_77) = 1 TMP\_78 = 1 not(TMP\_78) = 0 TMP\_79 = 1 not(TMP\_79) = 0 TMP\_80 = 0 not(TMP\_80) = 1 TMP\_81 = 1 not(TMP\_81) = 0 TMP\_82 = 4 TMP\_83 = 0 not(TMP\_83) = 1 TMP\_84 = 0 not(TMP\_84) = 1 TMP\_85 = 0 TMP\_86 = 1 not(TMP\_86) = 0 TMP\_87 = 1 not(TMP\_87) = 0 TMP\_88 = 2 TMP\_89 = 0 not(TMP\_89) = 1 TMP\_90 = 0 not(TMP\_90) = 1 TMP\_91 = 1 not(TMP\_91) = 0 TMP\_92 = 1 not(TMP\_92) = 0 TMP\_93 = 1 not(TMP\_93) = 0 TMP\_94 = 2 TMP\_95 = 1 not(TMP\_95) = 0 TMP\_96 = 0 not(TMP\_96) = 1 TMP\_97 = 1 not(TMP\_97) = 0 TMP\_98 = 1 not(TMP\_98) = 0 TMP\_99 = 1 not(TMP\_99) = 0 TMP\_100 = 1 not(TMP\_100) = 0 TMP\_101 = 5 TMP\_102 = 0 not(TMP\_102) = 1 TMP\_103 = 0 not(TMP\_103) = 1 TMP\_104 = 0 TMP\_105 = 1 not(TMP\_105) = 0 TMP\_106 = 1 not(TMP\_106) = 0 TMP\_107 = 2 TMP\_108 = 0 not(TMP\_108) = 1 TMP\_109 = 0 not(TMP\_109) = 1 TMP\_110 = 1 not(TMP\_110) = 0 TMP\_111 = 1 not(TMP\_111) = 0 TMP\_112 = 1 not(TMP\_112) = 0 TMP\_113 = 2 TMP\_114 = 0 not(TMP\_114) = 1 TMP\_115 = 1 not(TMP\_115) = 0 TMP\_116 = 1 not(TMP\_116) = 0 TMP\_117 = 1 not(TMP\_117) = 0 TMP\_118 = 0 not(TMP\_118) = 1 TMP\_119 = 1 not(TMP\_119) = 0 TMP\_120 = 4 TMP\_121 = 0 not(TMP\_121) = 1 TMP\_122 = 0 not(TMP\_122) = 1 TMP\_123 = 0 TMP\_124 = 1 not(TMP\_124) = 0 TMP\_125 = 1 not(TMP\_125) = 0 TMP\_126 = 2 TMP\_127 = 0 not(TMP\_127) = 1 TMP\_128 = 0 not(TMP\_128) = 1 TMP\_129 = 1 not(TMP\_129) = 0 TMP\_130 = 1 not(TMP\_130) = 0 TMP\_131 = 1 not(TMP\_131) = 0 TMP\_132 = 2 TMP\_133 = 1 not(TMP\_133) = 0 TMP\_134 = 1 not(TMP\_134) = 0 TMP\_135 = 1 not(TMP\_135) = 0 TMP\_136 = 1 not(TMP\_136) = 0 TMP\_137 = 0 not(TMP\_137) = 1 TMP\_138 = 1 not(TMP\_138) = 0 TMP\_139 = 5 TMP\_140 = 0 not(TMP\_140) = 1 TMP\_141 = 0 not(TMP\_141) = 1 TMP\_142 = 0 TMP\_143 = 1 not(TMP\_143) = 0 TMP\_144 = 1 not(TMP\_144) = 0 TMP\_145 = 2 TMP\_146 = 0 not(TMP\_146) = 1 TMP\_147 = 0 not(TMP\_147) = 1 TMP\_148 = 1 not(TMP\_148) = 0 TMP\_149 = 1 not(TMP\_149) = 0 TMP\_150 = 1 not(TMP\_150) = 0 TMP\_151 = 2 TMP\_152 = 0 not(TMP\_152) = 1 TMP\_153 = 1 not(TMP\_153) = 0 TMP\_154 = 1 not(TMP\_154) = 0 TMP\_155 = 1 not(TMP\_155) = 0 TMP\_156 = 0 not(TMP\_156) = 1 TMP\_157 = 1 not(TMP\_157) = 0 TMP\_158 = 4 TMP\_159 = 0 not(TMP\_159) = 1 TMP\_160 = 0 not(TMP\_160) = 1 TMP\_161 = 0 TMP\_162 = 1 not(TMP\_162) = 0 TMP\_163 = 1 not(TMP\_163) = 0 TMP\_164 = 2 TMP\_165 = 0 not(TMP\_165) = 1 TMP\_166 = 0 not(TMP\_166) = 1 TMP\_167 = 1 not(TMP\_167) = 0 TMP\_168 = 1 not(TMP\_168) = 0 TMP\_169 = 1 not(TMP\_169) = 0 TMP\_170 = 2 TMP\_171 = 0 not(TMP\_171) = 1 TMP\_172 = 1 not(TMP\_172) = 0 TMP\_173 = 1 not(TMP\_173) = 0 TMP\_174 = 1 not(TMP\_174) = 0 TMP\_175 = 1 not(TMP\_175) = 0 TMP\_176 = 1 not(TMP\_176) = 0 TMP\_177 = 5 TMP\_178 = 0 not(TMP\_178) = 1 TMP\_179 = 0 not(TMP\_179) = 1 TMP\_180 = 0 TMP\_181 = 1 not(TMP\_181) = 0 TMP\_182 = 1 not(TMP\_182) = 0 TMP\_183 = 2 TMP\_184 = 0 not(TMP\_184) = 1 TMP\_185 = 0 not(TMP\_185) = 1 TMP\_186 = 1 not(TMP\_186) = 0 TMP\_187 = 1 not(TMP\_187) = 0 TMP\_188 = 1 not(TMP\_188) = 0 TMP\_189 = 2 TMP\_190 = 1 not(TMP\_190) = 0 TMP\_191 = 1 not(TMP\_191) = 0 TMP\_192 = 1 not(TMP\_192) = 0 TMP\_193 = 1 not(TMP\_193) = 0 TMP\_194 = 0 not(TMP\_194) = 1 TMP\_195 = 1 not(TMP\_195) = 0 TMP\_196 = 5 TMP\_197 = 0 not(TMP\_197) = 1 TMP\_198 = 0 not(TMP\_198) = 1 TMP\_199 = 0 TMP\_200 = 1 not(TMP\_200) = 0 TMP\_201 = 1 not(TMP\_201) = 0 TMP\_202 = 2 TMP\_203 = 0 not(TMP\_203) = 1 TMP\_204 = 0 not(TMP\_204) = 1 TMP\_205 = 1 not(TMP\_205) = 0 TMP\_206 = 1 not(TMP\_206) = 0 TMP\_207 = 1 not(TMP\_207) = 0 TMP\_208 = 2 TMP\_209 = 0 not(TMP\_209) = 1 TMP\_210 = 1 not(TMP\_210) = 0 TMP\_211 = 1 not(TMP\_211) = 0 TMP\_212 = 1 not(TMP\_212) = 0 TMP\_213 = 1 not(TMP\_213) = 0 TMP\_214 = 0 not(TMP\_214) = 1 TMP\_215 = 4 TMP\_216 = 0 not(TMP\_216) = 1 TMP\_217 = 0 not(TMP\_217) = 1 TMP\_218 = 0 TMP\_219 = 1 not(TMP\_219) = 0 TMP\_220 = 1 not(TMP\_220) = 0 TMP\_221 = 2 TMP\_222 = 0 not(TMP\_222) = 1 TMP\_223 = 0 not(TMP\_223) = 1 TMP\_224 = 1 not(TMP\_224) = 0 TMP\_225 = 1 not(TMP\_225) = 0 TMP\_226 = 1 not(TMP\_226) = 0 TMP\_227 = 2 TMP\_228 = 0 not(TMP\_228) = 1 TMP\_229 = 1 not(TMP\_229) = 0 TMP\_230 = 1 not(TMP\_230) = 0 TMP\_231 = 1 not(TMP\_231) = 0 TMP\_232 = 1 not(TMP\_232) = 0 TMP\_233 = 0 not(TMP\_233) = 1 TMP\_234 = 4 TMP\_235 = 0 not(TMP\_235) = 1 TMP\_236 = 0 not(TMP\_236) = 1 TMP\_237 = 0 TMP\_238 = 1 not(TMP\_238) = 0 TMP\_239 = 1 not(TMP\_239) = 0 TMP\_240 = 2 TMP\_241 = 0 not(TMP\_241) = 1 TMP\_242 = 0 not(TMP\_242) = 1 TMP\_243 = 1 not(TMP\_243) = 0 TMP\_244 = 1 not(TMP\_244) = 0 TMP\_245 = 1 not(TMP\_245) = 0 TMP\_246 = 2 TMP\_247 = 0 not(TMP\_247) = 1 TMP\_248 = 1 not(TMP\_248) = 0 TMP\_249 = 1 not(TMP\_249) = 0 TMP\_250 = 0 not(TMP\_250) = 1 TMP\_251 = 1 not(TMP\_251) = 0 TMP\_252 = 1 not(TMP\_252) = 0 TMP\_253 = 4 TMP\_254 = 0 not(TMP\_254) = 1 TMP\_255 = 0 not(TMP\_255) = 1 TMP\_256 = 0 TMP\_257 = 1 not(TMP\_257) = 0 TMP\_258 = 1 not(TMP\_258) = 0 TMP\_259 = 2 TMP\_260 = 0 not(TMP\_260) = 1 TMP\_261 = 0 not(TMP\_261) = 1 TMP\_262 = 1 not(TMP\_262) = 0 TMP\_263 = 1 not(TMP\_263) = 0 TMP\_264 = 1 not(TMP\_264) = 0 TMP\_265 = 2 TMP\_266 = 0 not(TMP\_266) = 1 TMP\_267 = 1 not(TMP\_267) = 0 TMP\_268 = 1 not(TMP\_268) = 0 TMP\_269 = 1 not(TMP\_269) = 0 TMP\_270 = 1 not(TMP\_270) = 0 TMP\_271 = 1 not(TMP\_271) = 0 TMP\_272 = 5 TMP\_273 = 0 not(TMP\_273) = 1 TMP\_274 = 0 not(TMP\_274) = 1 TMP\_275 = 0 TMP\_276 = 1 not(TMP\_276) = 0 TMP\_277 = 1 not(TMP\_277) = 0 TMP\_278 = 2 TMP\_279 = 0 not(TMP\_279) = 1 TMP\_280 = 0 not(TMP\_280) = 1 TMP\_281 = 1 not(TMP\_281) = 0 TMP\_282 = 1 not(TMP\_282) = 0 TMP\_283 = 1 not(TMP\_283) = 0 TMP\_284 = 2 TMP\_285 = 1 not(TMP\_285) = 0 TMP\_286 = 0 not(TMP\_286) = 1 TMP\_287 = 1 not(TMP\_287) = 0 TMP\_288 = 1 not(TMP\_288) = 0 TMP\_289 = 1 not(TMP\_289) = 0 TMP\_290 = 1 not(TMP\_290) = 0 TMP\_291 = 5 TMP\_292 = 0 not(TMP\_292) = 1 TMP\_293 = 0 not(TMP\_293) = 1 TMP\_294 = 0 TMP\_295 = 1 not(TMP\_295) = 0 TMP\_296 = 1 not(TMP\_296) = 0 TMP\_297 = 2 TMP\_298 = 0 not(TMP\_298) = 1 TMP\_299 = 0 not(TMP\_299) = 1 TMP\_300 = 1 not(TMP\_300) = 0 TMP\_301 = 1 not(TMP\_301) = 0 TMP\_302 = 1 not(TMP\_302) = 0 TMP\_303 = 2 TMP\_304 = 1 not(TMP\_304) = 0 TMP\_305 = 0 not(TMP\_305) = 1 TMP\_306 = 1 not(TMP\_306) = 0 TMP\_307 = 1 not(TMP\_307) = 0 TMP\_308 = 1 not(TMP\_308) = 0 TMP\_309 = 0 not(TMP\_309) = 1 TMP\_310 = 4 TMP\_311 = 0 not(TMP\_311) = 1 TMP\_312 = 0 not(TMP\_312) = 1 TMP\_313 = 0 TMP\_314 = 1 not(TMP\_314) = 0 TMP\_315 = 1 not(TMP\_315) = 0 TMP\_316 = 2 TMP\_317 = 0 not(TMP\_317) = 1 TMP\_318 = 0 not(TMP\_318) = 1 TMP\_319 = 1 not(TMP\_319) = 0 TMP\_320 = 1 not(TMP\_320) = 0 TMP\_321 = 1 not(TMP\_321) = 0 TMP\_322 = 2 TMP\_323 = 0 not(TMP\_323) = 1 TMP\_324 = 1 not(TMP\_324) = 0 TMP\_325 = 1 not(TMP\_325) = 0 TMP\_326 = 1 not(TMP\_326) = 0 TMP\_327 = 1 not(TMP\_327) = 0 TMP\_328 = 1 not(TMP\_328) = 0 TMP\_329 = 5 TMP\_330 = 0 not(TMP\_330) = 1 TMP\_331 = 0 not(TMP\_331) = 1 TMP\_332 = 0 TMP\_333 = 1 not(TMP\_333) = 0 TMP\_334 = 1 not(TMP\_334) = 0 TMP\_335 = 2 TMP\_336 = 0 not(TMP\_336) = 1 TMP\_337 = 0 not(TMP\_337) = 1 TMP\_338 = 1 not(TMP\_338) = 0 TMP\_339 = 1 not(TMP\_339) = 0 TMP\_340 = 1 not(TMP\_340) = 0 TMP\_341 = 2 TMP\_342 = 1 not(TMP\_342) = 0 TMP\_343 = 1 not(TMP\_343) = 0 TMP\_344 = 1 not(TMP\_344) = 0 TMP\_345 = 1 not(TMP\_345) = 0 TMP\_346 = 1 not(TMP\_346) = 0 TMP\_347 = 0 not(TMP\_347) = 1 TMP\_348 = 5 TMP\_349 = 0 not(TMP\_349) = 1 TMP\_350 = 0 not(TMP\_350) = 1 TMP\_351 = 0 TMP\_352 = 1 not(TMP\_352) = 0 TMP\_353 = 1 not(TMP\_353) = 0 TMP\_354 = 2 TMP\_355 = 0 not(TMP\_355) = 1 TMP\_356 = 0 not(TMP\_356) = 1 TMP\_357 = 1 not(TMP\_357) = 0 TMP\_358 = 1 not(TMP\_358) = 0 TMP\_359 = 1 not(TMP\_359) = 0 TMP\_360 = 2 TMP\_361 = 0 not(TMP\_361) = 1 TMP\_362 = 1 not(TMP\_362) = 0 TMP\_363 = 1 not(TMP\_363) = 0 TMP\_364 = 1 not(TMP\_364) = 0 TMP\_365 = 1 not(TMP\_365) = 0 TMP\_366 = 1 not(TMP\_366) = 0 TMP\_367 = 5 TMP\_368 = 0 not(TMP\_368) = 1 TMP\_369 = 0 not(TMP\_369) = 1 TMP\_370 = 0 TMP\_371 = 1 not(TMP\_371) = 0 TMP\_372 = 1 not(TMP\_372) = 0 TMP\_373 = 2 TMP\_374 = 0 not(TMP\_374) = 1 TMP\_375 = 0 not(TMP\_375) = 1 TMP\_376 = 1 not(TMP\_376) = 0 TMP\_377 = 1 not(TMP\_377) = 0 TMP\_378 = 1 not(TMP\_378) = 0 TMP\_379 = 2 TMP\_380 = 0 not(TMP\_380) = 1 TMP\_381 = 1 not(TMP\_381) = 0 TMP\_382 = 1 not(TMP\_382) = 0 TMP\_383 = 1 not(TMP\_383) = 0 TMP\_384 = 1 not(TMP\_384) = 0 TMP\_385 = 0 not(TMP\_385) = 1 TMP\_386 = 4 TMP\_387 = 0 not(TMP\_387) = 1 TMP\_388 = 0 not(TMP\_388) = 1 TMP\_389 = 0 TMP\_390 = 1 not(TMP\_390) = 0 TMP\_391 = 1 not(TMP\_391) = 0 TMP\_392 = 2 TMP\_393 = 0 not(TMP\_393) = 1 TMP\_394 = 0 not(TMP\_394) = 1 TMP\_395 = 1 not(TMP\_395) = 0 TMP\_396 = 1 not(TMP\_396) = 0 TMP\_397 = 1 not(TMP\_397) = 0 TMP\_398 = 2 TMP\_399 = 1 not(TMP\_399) = 0 TMP\_400 = 1 not(TMP\_400) = 0 TMP\_401 = 1 not(TMP\_401) = 0 TMP\_402 = 0 not(TMP\_402) = 1 TMP\_403 = 1 not(TMP\_403) = 0 TMP\_404 = 1 not(TMP\_404) = 0 TMP\_405 = 5 TMP\_406 = 0 not(TMP\_406) = 1 TMP\_407 = 0 not(TMP\_407) = 1 TMP\_408 = 0 TMP\_409 = 1 not(TMP\_409) = 0 TMP\_410 = 1 not(TMP\_410) = 0 TMP\_411 = 2 TMP\_412 = 0 not(TMP\_412) = 1 TMP\_413 = 0 not(TMP\_413) = 1 TMP\_414 = 1 not(TMP\_414) = 0 TMP\_415 = 1 not(TMP\_415) = 0 TMP\_416 = 1 not(TMP\_416) = 0 TMP\_417 = 2 TMP\_418 = 0 not(TMP\_418) = 1 TMP\_419 = 1 not(TMP\_419) = 0 TMP\_420 = 1 not(TMP\_420) = 0 TMP\_421 = 1 not(TMP\_421) = 0 TMP\_422 = 1 not(TMP\_422) = 0 TMP\_423 = 0 not(TMP\_423) = 1 TMP\_424 = 4 TMP\_425 = 0 not(TMP\_425) = 1 TMP\_426 = 0 not(TMP\_426) = 1 TMP\_427 = 0 TMP\_428 = 1 not(TMP\_428) = 0 TMP\_429 = 1 not(TMP\_429) = 0 TMP\_430 = 2 TMP\_431 = 0 not(TMP\_431) = 1 TMP\_432 = 0 not(TMP\_432) = 1 TMP\_433 = 1 not(TMP\_433) = 0 TMP\_434 = 1 not(TMP\_434) = 0 TMP\_435 = 1 not(TMP\_435) = 0 TMP\_436 = 2 TMP\_437 = 1 not(TMP\_437) = 0 TMP\_438 = 0 not(TMP\_438) = 1 TMP\_439 = 1 not(TMP\_439) = 0 TMP\_440 = 1 not(TMP\_440) = 0 TMP\_441 = 1 not(TMP\_441) = 0 TMP\_442 = 0 not(TMP\_442) = 1 TMP\_443 = 4 TMP\_444 = 0 not(TMP\_444) = 1 TMP\_445 = 0 not(TMP\_445) = 1 TMP\_446 = 0 TMP\_447 = 1 not(TMP\_447) = 0 TMP\_448 = 1 not(TMP\_448) = 0 TMP\_449 = 2 TMP\_450 = 0 not(TMP\_450) = 1 TMP\_451 = 0 not(TMP\_451) = 1 TMP\_452 = 1 not(TMP\_452) = 0 TMP\_453 = 1 not(TMP\_453) = 0 TMP\_454 = 1 not(TMP\_454) = 0 TMP\_455 = 2 TMP\_456 = 1 not(TMP\_456) = 0 TMP\_457 = 0 not(TMP\_457) = 1 TMP\_458 = 1 not(TMP\_458) = 0 TMP\_459 = 1 not(TMP\_459) = 0 TMP\_460 = 1 not(TMP\_460) = 0 TMP\_461 = 1 not(TMP\_461) = 0 TMP\_462 = 5 TMP\_463 = 0 not(TMP\_463) = 1 TMP\_464 = 0 not(TMP\_464) = 1 TMP\_465 = 0 TMP\_466 = 1 not(TMP\_466) = 0 TMP\_467 = 1 not(TMP\_467) = 0 TMP\_468 = 2 TMP\_469 = 0 not(TMP\_469) = 1 TMP\_470 = 0 not(TMP\_470) = 1 TMP\_471 = 1 not(TMP\_471) = 0 TMP\_472 = 1 not(TMP\_472) = 0 TMP\_473 = 1 not(TMP\_473) = 0 TMP\_474 = 2 TMP\_475 = 1 not(TMP\_475) = 0 TMP\_476 = 0 not(TMP\_476) = 1 TMP\_477 = 1 not(TMP\_477) = 0 TMP\_478 = 1 not(TMP\_478) = 0 TMP\_479 = 1 not(TMP\_479) = 0 TMP\_480 = 1 not(TMP\_480) = 0 TMP\_481 = 5 TMP\_482 = 0 not(TMP\_482) = 1 TMP\_483 = 0 not(TMP\_483) = 1 TMP\_484 = 0 TMP\_485 = 1 not(TMP\_485) = 0 TMP\_486 = 1 not(TMP\_486) = 0 TMP\_487 = 2 TMP\_488 = 0 not(TMP\_488) = 1 TMP\_489 = 0 not(TMP\_489) = 1 TMP\_490 = 1 not(TMP\_490) = 0 TMP\_491 = 1 not(TMP\_491) = 0 TMP\_492 = 1 not(TMP\_492) = 0 TMP\_493 = 2 TMP\_494 = 1 not(TMP\_494) = 0 TMP\_495 = 0 not(TMP\_495) = 1 TMP\_496 = 1 not(TMP\_496) = 0 TMP\_497 = 1 not(TMP\_497) = 0 TMP\_498 = 1 not(TMP\_498) = 0 TMP\_499 = 1 not(TMP\_499) = 0 TMP\_500 = 5 TMP\_501 = 0 not(TMP\_501) = 1 TMP\_502 = 0 not(TMP\_502) = 1 TMP\_503 = 0 TMP\_504 = 1 not(TMP\_504) = 0 TMP\_505 = 1 not(TMP\_505) = 0 TMP\_506 = 2 TMP\_507 = 0 not(TMP\_507) = 1 TMP\_508 = 0 not(TMP\_508) = 1 TMP\_509 = 1 not(TMP\_509) = 0 TMP\_510 = 1 not(TMP\_510) = 0 TMP\_511 = 1 not(TMP\_511) = 0 TMP\_512 = 2 TMP\_513 = 1 not(TMP\_513) = 0 TMP\_514 = 0 not(TMP\_514) = 1 TMP\_515 = 1 not(TMP\_515) = 0 TMP\_516 = 1 not(TMP\_516) = 0 TMP\_517 = 1 not(TMP\_517) = 0 TMP\_518 = 0 not(TMP\_518) = 1 TMP\_519 = 4 TMP\_520 = 0 not(TMP\_520) = 1 TMP\_521 = 0 not(TMP\_521) = 1 TMP\_522 = 0 TMP\_523 = 1 not(TMP\_523) = 0 TMP\_524 = 1 not(TMP\_524) = 0 TMP\_525 = 2 TMP\_526 = 0 not(TMP\_526) = 1 TMP\_527 = 0 not(TMP\_527) = 1 TMP\_528 = 1 not(TMP\_528) = 0 TMP\_529 = 1 not(TMP\_529) = 0 TMP\_530 = 1 not(TMP\_530) = 0 TMP\_531 = 2 TMP\_532 = 0 not(TMP\_532) = 1 TMP\_533 = 1 not(TMP\_533) = 0 TMP\_534 = 1 not(TMP\_534) = 0 TMP\_535 = 1 not(TMP\_535) = 0 TMP\_536 = 1 not(TMP\_536) = 0 TMP\_537 = 1 not(TMP\_537) = 0 TMP\_538 = 5 TMP\_539 = 0 not(TMP\_539) = 1 TMP\_540 = 0 not(TMP\_540) = 1 TMP\_541 = 0 TMP\_542 = 1 not(TMP\_542) = 0 TMP\_543 = 1 not(TMP\_543) = 0 TMP\_544 = 2 TMP\_545 = 0 not(TMP\_545) = 1 TMP\_546 = 0 not(TMP\_546) = 1 TMP\_547 = 1 not(TMP\_547) = 0 TMP\_548 = 1 not(TMP\_548) = 0 TMP\_549 = 1 not(TMP\_549) = 0 TMP\_550 = 2 TMP\_551 = 1 not(TMP\_551) = 0 TMP\_552 = 0 not(TMP\_552) = 1 TMP\_553 = 1 not(TMP\_553) = 0 TMP\_554 = 1 not(TMP\_554) = 0 TMP\_555 = 1 not(TMP\_555) = 0 TMP\_556 = 0 not(TMP\_556) = 1 TMP\_557 = 4 TMP\_558 = 0 not(TMP\_558) = 1 TMP\_559 = 0 not(TMP\_559) = 1 TMP\_560 = 0 TMP\_561 = 1 not(TMP\_561) = 0 TMP\_562 = 1 not(TMP\_562) = 0 TMP\_563 = 2 TMP\_564 = 0 not(TMP\_564) = 1 TMP\_565 = 0 not(TMP\_565) = 1 TMP\_566 = 1 not(TMP\_566) = 0 TMP\_567 = 1 not(TMP\_567) = 0 TMP\_568 = 1 not(TMP\_568) = 0 TMP\_569 = 2 TMP\_570 = 1 not(TMP\_570) = 0 TMP\_571 = 0 not(TMP\_571) = 1 TMP\_572 = 1 not(TMP\_572) = 0 TMP\_573 = 1 not(TMP\_573) = 0 TMP\_574 = 1 not(TMP\_574) = 0 TMP\_575 = 1 not(TMP\_575) = 0 TMP\_576 = 5 TMP\_577 = 0 not(TMP\_577) = 1 TMP\_578 = 0 not(TMP\_578) = 1 TMP\_579 = 0 TMP\_580 = 1 not(TMP\_580) = 0 TMP\_581 = 1 not(TMP\_581) = 0 TMP\_582 = 2 TMP\_583 = 0 not(TMP\_583) = 1 TMP\_584 = 0 not(TMP\_584) = 1 TMP\_585 = 1 not(TMP\_585) = 0 TMP\_586 = 1 not(TMP\_586) = 0 TMP\_587 = 1 not(TMP\_587) = 0 TMP\_588 = 2 TMP\_589 = 1 not(TMP\_589) = 0 TMP\_590 = 1 not(TMP\_590) = 0 TMP\_591 = 1 not(TMP\_591) = 0 TMP\_592 = 1 not(TMP\_592) = 0 TMP\_593 = 1 not(TMP\_593) = 0 TMP\_594 = 0 not(TMP\_594) = 1 TMP\_595 = 5 TMP\_596 = 0 not(TMP\_596) = 1 TMP\_597 = 0 not(TMP\_597) = 1 TMP\_598 = 0 TMP\_599 = 1 not(TMP\_599) = 0 TMP\_600 = 1 not(TMP\_600) = 0 TMP\_601 = 2 TMP\_602 = 0 not(TMP\_602) = 1 TMP\_603 = 0 not(TMP\_603) = 1 TMP\_604 = 1 not(TMP\_604) = 0 TMP\_605 = 1 not(TMP\_605) = 0 TMP\_606 = 1 not(TMP\_606) = 0 TMP\_607 = 2 TMP\_608 = 1 not(TMP\_608) = 0 TMP\_609 = 0 not(TMP\_609) = 1 TMP\_610 = 1 not(TMP\_610) = 0 TMP\_611 = 1 not(TMP\_611) = 0 TMP\_612 = 1 not(TMP\_612) = 0 TMP\_613 = 1 not(TMP\_613) = 0 TMP\_614 = 5 TMP\_615 = 0 not(TMP\_615) = 1 TMP\_616 = 0 not(TMP\_616) = 1 TMP\_617 = 0 TMP\_618 = 1 not(TMP\_618) = 0 TMP\_619 = 1 not(TMP\_619) = 0 TMP\_620 = 2 TMP\_621 = 0 not(TMP\_621) = 1 TMP\_622 = 0 not(TMP\_622) = 1 TMP\_623 = 1 not(TMP\_623) = 0 TMP\_624 = 1 not(TMP\_624) = 0 TMP\_625 = 1 not(TMP\_625) = 0 TMP\_626 = 2 TMP\_627 = 0 not(TMP\_627) = 1 TMP\_628 = 1 not(TMP\_628) = 0 TMP\_629 = 1 not(TMP\_629) = 0 TMP\_630 = 1 not(TMP\_630) = 0 TMP\_631 = 1 not(TMP\_631) = 0 TMP\_632 = 1 not(TMP\_632) = 0 TMP\_633 = 5 TMP\_634 = 0 not(TMP\_634) = 1 TMP\_635 = 0 not(TMP\_635) = 1 TMP\_636 = 0 TMP\_637 = 1 not(TMP\_637) = 0 TMP\_638 = 1 not(TMP\_638) = 0 TMP\_639 = 2 TMP\_640 = 0 not(TMP\_640) = 1 TMP\_641 = 0 not(TMP\_641) = 1 TMP\_642 = 1 not(TMP\_642) = 0 TMP\_643 = 1 not(TMP\_643) = 0 TMP\_644 = 1 not(TMP\_644) = 0 TMP\_645 = 2 TMP\_646 = 1 not(TMP\_646) = 0 TMP\_647 = 0 not(TMP\_647) = 1 TMP\_648 = 1 not(TMP\_648) = 0 TMP\_649 = 1 not(TMP\_649) = 0 TMP\_650 = 1 not(TMP\_650) = 0 TMP\_651 = 1 not(TMP\_651) = 0 TMP\_652 = 5 TMP\_653 = 0 not(TMP\_653) = 1 TMP\_654 = 0 not(TMP\_654) = 1 TMP\_655 = 0 TMP\_656 = 1 not(TMP\_656) = 0 TMP\_657 = 1 not(TMP\_657) = 0 TMP\_658 = 2 TMP\_659 = 0 not(TMP\_659) = 1 TMP\_660 = 0 not(TMP\_660) = 1 TMP\_661 = 1 not(TMP\_661) = 0 TMP\_662 = 1 not(TMP\_662) = 0 TMP\_663 = 1 not(TMP\_663) = 0 TMP\_664 = 2 TMP\_665 = 1 not(TMP\_665) = 0 TMP\_666 = 0 not(TMP\_666) = 1 TMP\_667 = 1 not(TMP\_667) = 0 TMP\_668 = 1 not(TMP\_668) = 0 TMP\_669 = 0 not(TMP\_669) = 1 TMP\_670 = 1 not(TMP\_670) = 0 TMP\_671 = 4 TMP\_672 = 0 not(TMP\_672) = 1 TMP\_673 = 0 not(TMP\_673) = 1 TMP\_674 = 0 TMP\_675 = 1 not(TMP\_675) = 0 TMP\_676 = 1 not(TMP\_676) = 0 TMP\_677 = 2 TMP\_678 = 0 not(TMP\_678) = 1 TMP\_679 = 0 not(TMP\_679) = 1 TMP\_680 = 1 not(TMP\_680) = 0 TMP\_681 = 1 not(TMP\_681) = 0 TMP\_682 = 1 not(TMP\_682) = 0 TMP\_683 = 2 TMP\_684 = 1 not(TMP\_684) = 0 TMP\_685 = 0 not(TMP\_685) = 1 TMP\_686 = 1 not(TMP\_686) = 0 TMP\_687 = 1 not(TMP\_687) = 0 TMP\_688 = 0 not(TMP\_688) = 1 TMP\_689 = 1 not(TMP\_689) = 0 TMP\_690 = 4 TMP\_691 = 0 not(TMP\_691) = 1 TMP\_692 = 0 not(TMP\_692) = 1 TMP\_693 = 0 TMP\_694 = 1 not(TMP\_694) = 0 TMP\_695 = 1 not(TMP\_695) = 0 TMP\_696 = 2 TMP\_697 = 0 not(TMP\_697) = 1 TMP\_698 = 0 not(TMP\_698) = 1 TMP\_699 = 1 not(TMP\_699) = 0 TMP\_700 = 1 not(TMP\_700) = 0 TMP\_701 = 1 not(TMP\_701) = 0 TMP\_702 = 2 TMP\_703 = 1 not(TMP\_703) = 0 TMP\_704 = 0 not(TMP\_704) = 1 TMP\_705 = 1 not(TMP\_705) = 0 TMP\_706 = 1 not(TMP\_706) = 0 TMP\_707 = 0 not(TMP\_707) = 1 TMP\_708 = 1 not(TMP\_708) = 0 TMP\_709 = 4 TMP\_710 = 0 not(TMP\_710) = 1 TMP\_711 = 0 not(TMP\_711) = 1 TMP\_712 = 0 TMP\_713 = 1 not(TMP\_713) = 0 TMP\_714 = 1 not(TMP\_714) = 0 TMP\_715 = 2 TMP\_716 = 0 not(TMP\_716) = 1 TMP\_717 = 0 not(TMP\_717) = 1 TMP\_718 = 1 not(TMP\_718) = 0 TMP\_719 = 1 not(TMP\_719) = 0 TMP\_720 = 1 not(TMP\_720) = 0 TMP\_721 = 2 TMP\_722 = 1 not(TMP\_722) = 0 TMP\_723 = 0 not(TMP\_723) = 1 TMP\_724 = 1 not(TMP\_724) = 0 TMP\_725 = 1 not(TMP\_725) = 0 TMP\_726 = 1 not(TMP\_726) = 0 TMP\_727 = 1 not(TMP\_727) = 0 TMP\_728 = 5 TMP\_729 = 0 not(TMP\_729) = 1 TMP\_730 = 0 not(TMP\_730) = 1 TMP\_731 = 0 TMP\_732 = 1 not(TMP\_732) = 0 TMP\_733 = 1 not(TMP\_733) = 0 TMP\_734 = 2 TMP\_735 = 0 not(TMP\_735) = 1 TMP\_736 = 0 not(TMP\_736) = 1 TMP\_737 = 1 not(TMP\_737) = 0 TMP\_738 = 1 not(TMP\_738) = 0 TMP\_739 = 1 not(TMP\_739) = 0 TMP\_740 = 2 TMP\_741 = 0 not(TMP\_741) = 1 TMP\_742 = 1 not(TMP\_742) = 0 TMP\_743 = 1 not(TMP\_743) = 0 TMP\_744 = 1 not(TMP\_744) = 0 TMP\_745 = 0 not(TMP\_745) = 1 TMP\_746 = 1 not(TMP\_746) = 0 TMP\_747 = 4 TMP\_748 = 0 not(TMP\_748) = 1 TMP\_749 = 0 not(TMP\_749) = 1 TMP\_750 = 0 TMP\_751 = 1 not(TMP\_751) = 0 TMP\_752 = 1 not(TMP\_752) = 0 TMP\_753 = 2 TMP\_754 = 0 not(TMP\_754) = 1 TMP\_755 = 0 not(TMP\_755) = 1 TMP\_756 = 1 not(TMP\_756) = 0 TMP\_757 = 1 not(TMP\_757) = 0 TMP\_758 = 1 not(TMP\_758) = 0 TMP\_759 = 2 TMP\_760 = 1 not(TMP\_760) = 0 TMP\_761 = 0 not(TMP\_761) = 1 TMP\_762 = 1 not(TMP\_762) = 0 TMP\_763 = 1 not(TMP\_763) = 0 TMP\_764 = 1 not(TMP\_764) = 0 TMP\_765 = 1 not(TMP\_765) = 0 TMP\_766 = 5 TMP\_767 = 0 not(TMP\_767) = 1 TMP\_768 = 0 not(TMP\_768) = 1 TMP\_769 = 0 TMP\_770 = 1 not(TMP\_770) = 0 TMP\_771 = 1 not(TMP\_771) = 0 TMP\_772 = 2 TMP\_773 = 0 not(TMP\_773) = 1 TMP\_774 = 0 not(TMP\_774) = 1 TMP\_775 = 1 not(TMP\_775) = 0 TMP\_776 = 1 not(TMP\_776) = 0 TMP\_777 = 1 not(TMP\_777) = 0 TMP\_778 = 2 TMP\_779 = 1 not(TMP\_779) = 0 TMP\_780 = 0 not(TMP\_780) = 1 TMP\_781 = 1 not(TMP\_781) = 0 TMP\_782 = 1 not(TMP\_782) = 0 TMP\_783 = 0 not(TMP\_783) = 1 TMP\_784 = 1 not(TMP\_784) = 0 TMP\_785 = 4 TMP\_786 = 0 not(TMP\_786) = 1 TMP\_787 = 0 not(TMP\_787) = 1 TMP\_788 = 0 TMP\_789 = 1 not(TMP\_789) = 0 TMP\_790 = 1 not(TMP\_790) = 0 TMP\_791 = 2 TMP\_792 = 0 not(TMP\_792) = 1 TMP\_793 = 0 not(TMP\_793) = 1 TMP\_794 = 1 not(TMP\_794) = 0 TMP\_795 = 1 not(TMP\_795) = 0 TMP\_796 = 1 not(TMP\_796) = 0 TMP\_797 = 2 TMP\_798 = 1 not(TMP\_798) = 0 TMP\_799 = 1 not(TMP\_799) = 0 TMP\_800 = 1 not(TMP\_800) = 0 TMP\_801 = 1 not(TMP\_801) = 0 TMP\_802 = 0 not(TMP\_802) = 1 TMP\_803 = 1 not(TMP\_803) = 0 TMP\_804 = 5 TMP\_805 = 0 not(TMP\_805) = 1 TMP\_806 = 0 not(TMP\_806) = 1 TMP\_807 = 0 TMP\_808 = 1 not(TMP\_808) = 0 TMP\_809 = 1 not(TMP\_809) = 0 TMP\_810 = 2 TMP\_811 = 0 not(TMP\_811) = 1 TMP\_812 = 0 not(TMP\_812) = 1 TMP\_813 = 1 not(TMP\_813) = 0 TMP\_814 = 1 not(TMP\_814) = 0 TMP\_815 = 1 not(TMP\_815) = 0 TMP\_816 = 2 TMP\_817 = 1 not(TMP\_817) = 0 TMP\_818 = 0 not(TMP\_818) = 1 TMP\_819 = 1 not(TMP\_819) = 0 TMP\_820 = 1 not(TMP\_820) = 0 TMP\_821 = 0 not(TMP\_821) = 1 TMP\_822 = 1 not(TMP\_822) = 0 TMP\_823 = 4 TMP\_824 = 0 not(TMP\_824) = 1 TMP\_825 = 0 not(TMP\_825) = 1 TMP\_826 = 0 TMP\_827 = 1 not(TMP\_827) = 0 TMP\_828 = 1 not(TMP\_828) = 0 TMP\_829 = 2 TMP\_830 = 0 not(TMP\_830) = 1 TMP\_831 = 0 not(TMP\_831) = 1 TMP\_832 = 1 not(TMP\_832) = 0 TMP\_833 = 1 not(TMP\_833) = 0 TMP\_834 = 1 not(TMP\_834) = 0 TMP\_835 = 2 TMP\_836 = 0 not(TMP\_836) = 1 TMP\_837 = 1 not(TMP\_837) = 0 TMP\_838 = 1 not(TMP\_838) = 0 TMP\_839 = 1 not(TMP\_839) = 0 TMP\_840 = 1 not(TMP\_840) = 0 TMP\_841 = 0 not(TMP\_841) = 1 TMP\_842 = 4 TMP\_843 = 0 not(TMP\_843) = 1 TMP\_844 = 0 not(TMP\_844) = 1 TMP\_845 = 0 TMP\_846 = 1 not(TMP\_846) = 0 TMP\_847 = 1 not(TMP\_847) = 0 TMP\_848 = 2 TMP\_849 = 0 not(TMP\_849) = 1 TMP\_850 = 0 not(TMP\_850) = 1 TMP\_851 = 1 not(TMP\_851) = 0 TMP\_852 = 1 not(TMP\_852) = 0 TMP\_853 = 1 not(TMP\_853) = 0 TMP\_854 = 2 TMP\_855 = 0 not(TMP\_855) = 1 TMP\_856 = 1 not(TMP\_856) = 0 TMP\_857 = 1 not(TMP\_857) = 0 TMP\_858 = 1 not(TMP\_858) = 0 TMP\_859 = 1 not(TMP\_859) = 0 TMP\_860 = 0 not(TMP\_860) = 1 TMP\_861 = 4 TMP\_862 = 0 not(TMP\_862) = 1 TMP\_863 = 0 not(TMP\_863) = 1 TMP\_864 = 0 TMP\_865 = 1 not(TMP\_865) = 0 TMP\_866 = 1 not(TMP\_866) = 0 TMP\_867 = 2 TMP\_868 = 0 not(TMP\_868) = 1 TMP\_869 = 0 not(TMP\_869) = 1 TMP\_870 = 1 not(TMP\_870) = 0 TMP\_871 = 1 not(TMP\_871) = 0 TMP\_872 = 1 not(TMP\_872) = 0 TMP\_873 = 2 TMP\_874 = 0 not(TMP\_874) = 1 TMP\_875 = 1 not(TMP\_875) = 0 TMP\_876 = 1 not(TMP\_876) = 0 TMP\_877 = 1 not(TMP\_877) = 0 TMP\_878 = 1 not(TMP\_878) = 0 TMP\_879 = 1 not(TMP\_879) = 0 TMP\_880 = 5 TMP\_881 = 0 not(TMP\_881) = 1 TMP\_882 = 0 not(TMP\_882) = 1 TMP\_883 = 0 TMP\_884 = 1 not(TMP\_884) = 0 TMP\_885 = 1 not(TMP\_885) = 0 TMP\_886 = 2 TMP\_887 = 0 not(TMP\_887) = 1 TMP\_888 = 0 not(TMP\_888) = 1 TMP\_889 = 1 not(TMP\_889) = 0 TMP\_890 = 1 not(TMP\_890) = 0 TMP\_891 = 1 not(TMP\_891) = 0 TMP\_892 = 2 TMP\_893 = 0 not(TMP\_893) = 1 TMP\_894 = 1 not(TMP\_894) = 0 TMP\_895 = 0 not(TMP\_895) = 1 TMP\_896 = 1 not(TMP\_896) = 0 TMP\_897 = 1 not(TMP\_897) = 0 TMP\_898 = 1 not(TMP\_898) = 0 TMP\_899 = 4 TMP\_900 = 0 not(TMP\_900) = 1 TMP\_901 = 0 not(TMP\_901) = 1 TMP\_902 = 0 TMP\_903 = 1 not(TMP\_903) = 0 TMP\_904 = 1 not(TMP\_904) = 0 TMP\_905 = 2 TMP\_906 = 0 not(TMP\_906) = 1 TMP\_907 = 0 not(TMP\_907) = 1 TMP\_908 = 1 not(TMP\_908) = 0 TMP\_909 = 1 not(TMP\_909) = 0 TMP\_910 = 1 not(TMP\_910) = 0 TMP\_911 = 2 TMP\_912 = 1 not(TMP\_912) = 0 TMP\_913 = 0 not(TMP\_913) = 1 TMP\_914 = 1 not(TMP\_914) = 0 TMP\_915 = 1 not(TMP\_915) = 0 TMP\_916 = 1 not(TMP\_916) = 0 TMP\_917 = 1 not(TMP\_917) = 0 TMP\_918 = 5 TMP\_919 = 0 not(TMP\_919) = 1 TMP\_920 = 0 not(TMP\_920) = 1 TMP\_921 = 0 TMP\_922 = 1 not(TMP\_922) = 0 TMP\_923 = 1 not(TMP\_923) = 0 TMP\_924 = 2 TMP\_925 = 0 not(TMP\_925) = 1 TMP\_926 = 0 not(TMP\_926) = 1 TMP\_927 = 1 not(TMP\_927) = 0 TMP\_928 = 1 not(TMP\_928) = 0 TMP\_929 = 1 not(TMP\_929) = 0 TMP\_930 = 2 TMP\_931 = 1 not(TMP\_931) = 0 TMP\_932 = 0 not(TMP\_932) = 1 TMP\_933 = 1 not(TMP\_933) = 0 TMP\_934 = 1 not(TMP\_934) = 0 TMP\_935 = 1 not(TMP\_935) = 0 TMP\_936 = 0 not(TMP\_936) = 1 TMP\_937 = 4 TMP\_938 = 0 not(TMP\_938) = 1 TMP\_939 = 0 not(TMP\_939) = 1 TMP\_940 = 0 TMP\_941 = 1 not(TMP\_941) = 0 TMP\_942 = 1 not(TMP\_942) = 0 TMP\_943 = 2 TMP\_944 = 0 not(TMP\_944) = 1 TMP\_945 = 0 not(TMP\_945) = 1 TMP\_946 = 1 not(TMP\_946) = 0 TMP\_947 = 1 not(TMP\_947) = 0 TMP\_948 = 1 not(TMP\_948) = 0 TMP\_949 = 2 TMP\_950 = 0 not(TMP\_950) = 1 TMP\_951 = 1 not(TMP\_951) = 0 TMP\_952 = 1 not(TMP\_952) = 0 TMP\_953 = 1 not(TMP\_953) = 0 TMP\_954 = 1 not(TMP\_954) = 0 TMP\_955 = 1 not(TMP\_955) = 0 TMP\_956 = 5 TMP\_957 = 0 not(TMP\_957) = 1 TMP\_958 = 0 not(TMP\_958) = 1 TMP\_959 = 0 TMP\_960 = 1 not(TMP\_960) = 0 TMP\_961 = 1 not(TMP\_961) = 0 TMP\_962 = 2 TMP\_963 = 0 not(TMP\_963) = 1 TMP\_964 = 0 not(TMP\_964) = 1 TMP\_965 = 1 not(TMP\_965) = 0 TMP\_966 = 1 not(TMP\_966) = 0 TMP\_967 = 1 not(TMP\_967) = 0 TMP\_968 = 2 TMP\_969 = 1 not(TMP\_969) = 0 TMP\_970 = 1 not(TMP\_970) = 0 TMP\_971 = 1 not(TMP\_971) = 0 TMP\_972 = 1 not(TMP\_972) = 0 TMP\_973 = 1 not(TMP\_973) = 0 TMP\_974 = 0 not(TMP\_974) = 1 TMP\_975 = 5 TMP\_976 = 0 not(TMP\_976) = 1 TMP\_977 = 0 not(TMP\_977) = 1 TMP\_978 = 0 TMP\_979 = 1 not(TMP\_979) = 0 TMP\_980 = 1 not(TMP\_980) = 0 TMP\_981 = 2 TMP\_982 = 0 not(TMP\_982) = 1 TMP\_983 = 0 not(TMP\_983) = 1 TMP\_984 = 1 not(TMP\_984) = 0 TMP\_985 = 1 not(TMP\_985) = 0 TMP\_986 = 1 not(TMP\_986) = 0 TMP\_987 = 2 TMP\_988 = 1 not(TMP\_988) = 0 TMP\_989 = 1 not(TMP\_989) = 0 TMP\_990 = 0 not(TMP\_990) = 1 TMP\_991 = 1 not(TMP\_991) = 0 TMP\_992 = 1 not(TMP\_992) = 0 TMP\_993 = 1 not(TMP\_993) = 0 TMP\_994 = 5 TMP\_995 = 0 not(TMP\_995) = 1 TMP\_996 = 0 not(TMP\_996) = 1 TMP\_997 = 0 TMP\_998 = 1 not(TMP\_998) = 0 TMP\_999 = 1 not(TMP\_999) = 0 TMP\_1000 = 2 TMP\_1001 = 0 not(TMP\_1001) = 1 TMP\_1002 = 0 not(TMP\_1002) = 1 TMP\_1003 = 1 not(TMP\_1003) = 0 TMP\_1004 = 1 not(TMP\_1004) = 0 TMP\_1005 = 1 not(TMP\_1005) = 0 TMP\_1006 = 2 TMP\_1007 = 0 not(TMP\_1007) = 1 TMP\_1008 = 1 not(TMP\_1008) = 0 TMP\_1009 = 1 not(TMP\_1009) = 0 TMP\_1010 = 1 not(TMP\_1010) = 0 TMP\_1011 = 1 not(TMP\_1011) = 0 TMP\_1012 = 1 not(TMP\_1012) = 0 TMP\_1013 = 5 TMP\_1014 = 0 not(TMP\_1014) = 1 TMP\_1015 = 0 not(TMP\_1015) = 1 TMP\_1016 = 0 TMP\_1017 = 1 not(TMP\_1017) = 0 TMP\_1018 = 1 not(TMP\_1018) = 0 TMP\_1019 = 2 TMP\_1020 = 0 not(TMP\_1020) = 1 TMP\_1021 = 0 not(TMP\_1021) = 1 TMP\_1022 = 1 not(TMP\_1022) = 0 TMP\_1023 = 1 not(TMP\_1023) = 0 TMP\_1024 = 1 not(TMP\_1024) = 0 TMP\_1025 = 2 TMP\_1026 = 0 not(TMP\_1026) = 1 TMP\_1027 = 1 not(TMP\_1027) = 0 TMP\_1028 = 1 not(TMP\_1028) = 0 TMP\_1029 = 1 not(TMP\_1029) = 0 TMP\_1030 = 1 not(TMP\_1030) = 0 TMP\_1031 = 0 not(TMP\_1031) = 1 TMP\_1032 = 4 TMP\_1033 = 0 not(TMP\_1033) = 1 TMP\_1034 = 0 not(TMP\_1034) = 1 TMP\_1035 = 0 TMP\_1036 = 1 not(TMP\_1036) = 0 TMP\_1037 = 1 not(TMP\_1037) = 0 TMP\_1038 = 2 TMP\_1039 = 0 not(TMP\_1039) = 1 TMP\_1040 = 0 not(TMP\_1040) = 1 TMP\_1041 = 1 not(TMP\_1041) = 0 TMP\_1042 = 1 not(TMP\_1042) = 0 TMP\_1043 = 1 not(TMP\_1043) = 0 TMP\_1044 = 2 Area\_0 = 60 Distance\_0\_Rule\_0 = 20 Distance\_1\_Rule\_0 = 3 Distance\_2\_Rule\_0 = 1 Area\_1 = 174 Distance\_0\_Rule\_1 = 58 Distance\_1\_Rule\_1 = 3 Distance\_2\_Rule\_1 = 1 Area\_2 = 116 Distance\_0\_Rule\_2 = 58 Distance\_1\_Rule\_2 = 2 Distance\_2\_Rule\_2 = 1 Area\_3 = 58 Distance\_0\_Rule\_3 = 58 Distance\_1\_Rule\_3 = 1 Distance\_2\_Rule\_3 = 1 Area\_4 = 120 Distance\_0\_Rule\_4 = 40 Distance\_1\_Rule\_4 = 3 Distance\_2\_Rule\_4 = 1 Area\_5 = 120 Distance\_0\_Rule\_5 = 40 Distance\_1\_Rule\_5 = 3 Distance\_2\_Rule\_5 = 1 Area\_6 = 60 Distance\_0\_Rule\_6 = 20 Distance\_1\_Rule\_6 = 3 Distance\_2\_Rule\_6 = 1 Area\_7 = 3 -(Rule\_7\_LB) = -79 Distance\_0\_Rule\_7 = 1 -(Rule\_7\_LB) = 0 Distance\_1\_Rule\_7 = 3 -(Rule\_7\_LB) = -1 Distance\_2\_Rule\_7 = 1 Area\_8 = 1 -(Rule\_8\_LB) = -79 Distance\_0\_Rule\_8 = 1 -(Rule\_8\_LB) = 0 Distance\_1\_Rule\_8 = 1 -(Rule\_8\_LB) = 0 Distance\_2\_Rule\_8 = 1 Area\_9 = 3 -(Rule\_9\_LB) = -20 Distance\_0\_Rule\_9 = 1 -(Rule\_9\_LB) = 0 Distance\_1\_Rule\_9 = 3 -(Rule\_9\_LB) = 0 Distance\_2\_Rule\_9 = 1 Area\_10 = 3 -(Rule\_10\_LB) = -20 Distance\_0\_Rule\_10 = 1 -(Rule\_10\_LB) = 0 Distance\_1\_Rule\_10 = 3 -(Rule\_10\_LB) = -1 Distance\_2\_Rule\_10 = 1 Area\_11 = 2 -(Rule\_11\_LB) = -79 Distance\_0\_Rule\_11 = 1 -(Rule\_11\_LB) = -1 Distance\_1\_Rule\_11 = 2 -(Rule\_11\_LB) = 0 Distance\_2\_Rule\_11 = 1 TMP\_1045 = 720 .

- Solution #4 found. 4 Solutions, Resolution 1.279s, 1462 Nodes (1,142.8 n/s), 2804 Backtracks, 1405 Fails, 0 Restarts

Rule\_7\_LB = 79 Rule\_7\_UB = 80 Rule\_7\_LB = 0 Rule\_7\_UB = 3 Rule\_7\_LB = 1 Rule\_7\_UB = 2 Rule\_8\_LB = 79 Rule\_8\_UB = 80 Rule\_8\_LB = 0 Rule\_8\_UB = 1 Rule\_8\_LB = 0 Rule\_8\_UB = 1 Rule\_9\_LB = 20 Rule\_9\_UB = 21 Rule\_9\_LB = 0 Rule\_9\_UB = 3 Rule\_9\_LB = 0 Rule\_9\_UB = 1 Rule\_10\_LB = 20 Rule\_10\_UB = 21 Rule\_10\_LB = 0 Rule\_10\_UB = 3 Rule\_10\_LB = 1 Rule\_10\_UB = 2 Rule\_11\_LB = 79 Rule\_11\_UB = 80 Rule\_11\_LB = 1 Rule\_11\_UB = 3 Rule\_11\_LB = 0 Rule\_11\_UB = 1 Overlaps\_0\_0 = 0 Overlaps\_0\_1 = 0 Overlaps\_0\_2 = 0 Overlaps\_0\_3 = 0 Overlaps\_0\_4 = 0 Overlaps\_0\_5 = 0 Overlaps\_0\_6 = 0 Overlaps\_0\_7 = 0 Overlaps\_0\_8 = 0 Overlaps\_0\_9 = 0 Overlaps\_0\_10 = 0 Overlaps\_0\_11 = 0 Overlaps\_1\_0 = 0 Overlaps\_1\_1 = 0 Overlaps\_1\_2 = 0 Overlaps\_1\_3 = 0 Overlaps\_1\_4 = 0 Overlaps\_1\_5 = 0 Overlaps\_1\_6 = 0 Overlaps\_1\_7 = 0 Overlaps\_1\_8 = 0 Overlaps\_1\_9 = 0 Overlaps\_1\_10 = 0 Overlaps\_1\_11 = 0 Overlaps\_2\_0 = 0 Overlaps\_2\_1 = 0 Overlaps\_2\_2 = 0 Overlaps\_2\_3 = 0 Overlaps\_2\_4 = 0 Overlaps\_2\_5 = 1 Overlaps\_2\_6 = 0 Overlaps\_2\_7 = 0 Overlaps\_2\_8 = 0 Overlaps\_2\_9 = 0 Overlaps\_2\_10 = 0 Overlaps\_2\_11 = 0 Overlaps\_3\_0 = 0 Overlaps\_3\_1 = 0 Overlaps\_3\_2 = 0 Overlaps\_3\_3 = 0 Overlaps\_3\_4 = 0 Overlaps\_3\_5 = 0 Overlaps\_3\_6 = 0 Overlaps\_3\_7 = 0 Overlaps\_3\_8 = 0 Overlaps\_3\_9 = 0 Overlaps\_3\_10 = 0 Overlaps\_3\_11 = 0 Overlaps\_4\_0 = 0 Overlaps\_4\_1 = 0 Overlaps\_4\_2 = 0 Overlaps\_4\_3 = 0 Overlaps\_4\_4 = 0 Overlaps\_4\_5 = 1 Overlaps\_4\_6 = 0 Overlaps\_4\_7 = 0 Overlaps\_4\_8 = 0 Overlaps\_4\_9 = 0 Overlaps\_4\_10 = 0 Overlaps\_4\_11 = 0 Overlaps\_5\_0 = 0 Overlaps\_5\_1 = 0 Overlaps\_5\_2 = 0 Overlaps\_5\_3 = 0 Overlaps\_5\_4 = 0 Overlaps\_5\_5 = 0 Overlaps\_5\_6 = 0 Overlaps\_5\_7 = 0 Overlaps\_5\_8 = 0 Overlaps\_5\_9 = 0 Overlaps\_5\_10 = 0 Overlaps\_5\_11 = 0 Overlaps\_6\_0 = 0 Overlaps\_6\_1 = 0 Overlaps\_6\_2 = 0 Overlaps\_6\_3 = 0 Overlaps\_6\_4 = 0 Overlaps\_6\_5 = 0 Overlaps\_6\_6 = 0 Overlaps\_6\_7 = 0 Overlaps\_6\_8 = 0 Overlaps\_6\_9 = 0 Overlaps\_6\_10 = 0 Overlaps\_6\_11 = 0 Overlaps\_7\_0 = 0 Overlaps\_7\_1 = 0 Overlaps\_7\_2 = 0 Overlaps\_7\_3 = 0 Overlaps\_7\_4 = 0 Overlaps\_7\_5 = 0 Overlaps\_7\_6 = 0 Overlaps\_7\_7 = 0 Overlaps\_7\_8 = 0 Overlaps\_7\_9 = 0 Overlaps\_7\_10 = 0 Overlaps\_7\_11 = 0 Overlaps\_8\_0 = 0 Overlaps\_8\_1 = 0 Overlaps\_8\_2 = 0 Overlaps\_8\_3 = 0 Overlaps\_8\_4 = 0 Overlaps\_8\_5 = 0 Overlaps\_8\_6 = 0 Overlaps\_8\_7 = 0 Overlaps\_8\_8 = 0 Overlaps\_8\_9 = 0 Overlaps\_8\_10 = 0 Overlaps\_8\_11 = 0 Overlaps\_9\_0 = 0 Overlaps\_9\_1 = 0 Overlaps\_9\_2 = 0 Overlaps\_9\_3 = 0 Overlaps\_9\_4 = 0 Overlaps\_9\_5 = 0 Overlaps\_9\_6 = 0 Overlaps\_9\_7 = 0 Overlaps\_9\_8 = 0 Overlaps\_9\_9 = 0 Overlaps\_9\_10 = 0 Overlaps\_9\_11 = 0 Overlaps\_10\_0 = 0 Overlaps\_10\_1 = 0 Overlaps\_10\_2 = 0 Overlaps\_10\_3 = 0 Overlaps\_10\_4 = 0 Overlaps\_10\_5 = 0 Overlaps\_10\_6 = 0 Overlaps\_10\_7 = 0 Overlaps\_10\_8 = 0 Overlaps\_10\_9 = 0 Overlaps\_10\_10 = 0 Overlaps\_10\_11 = 0 Overlaps\_11\_0 = 0 Overlaps\_11\_1 = 0 Overlaps\_11\_2 = 0 Overlaps\_11\_3 = 0 Overlaps\_11\_4 = 0 Overlaps\_11\_5 = 0 Overlaps\_11\_6 = 0 Overlaps\_11\_7 = 0 Overlaps\_11\_8 = 0 Overlaps\_11\_9 = 0 Overlaps\_11\_10 = 0 Overlaps\_11\_11 = 0 TMP\_0 = 0 not(TMP\_0) = 1 TMP\_1 = 1 not(TMP\_1) = 0 TMP\_2 = 1 not(TMP\_2) = 0 TMP\_3 = 1 not(TMP\_3) = 0 TMP\_4 = 1 not(TMP\_4) = 0 TMP\_5 = 1 not(TMP\_5) = 0 TMP\_6 = 5 TMP\_7 = 0 not(TMP\_7) = 1 TMP\_8 = 0 not(TMP\_8) = 1 TMP\_9 = 0 TMP\_10 = 1 not(TMP\_10) = 0 TMP\_11 = 1 not(TMP\_11) = 0 TMP\_12 = 2 TMP\_13 = 0 not(TMP\_13) = 1 TMP\_14 = 0 not(TMP\_14) = 1 TMP\_15 = 1 not(TMP\_15) = 0 TMP\_16 = 1 not(TMP\_16) = 0 TMP\_17 = 1 not(TMP\_17) = 0 TMP\_18 = 2 TMP\_19 = 0 not(TMP\_19) = 1 TMP\_20 = 1 not(TMP\_20) = 0 TMP\_21 = 1 not(TMP\_21) = 0 TMP\_22 = 1 not(TMP\_22) = 0 TMP\_23 = 1 not(TMP\_23) = 0 TMP\_24 = 1 not(TMP\_24) = 0 TMP\_25 = 5 TMP\_26 = 0 not(TMP\_26) = 1 TMP\_27 = 0 not(TMP\_27) = 1 TMP\_28 = 0 TMP\_29 = 1 not(TMP\_29) = 0 TMP\_30 = 1 not(TMP\_30) = 0 TMP\_31 = 2 TMP\_32 = 0 not(TMP\_32) = 1 TMP\_33 = 0 not(TMP\_33) = 1 TMP\_34 = 1 not(TMP\_34) = 0 TMP\_35 = 1 not(TMP\_35) = 0 TMP\_36 = 1 not(TMP\_36) = 0 TMP\_37 = 2 TMP\_38 = 0 not(TMP\_38) = 1 TMP\_39 = 1 not(TMP\_39) = 0 TMP\_40 = 1 not(TMP\_40) = 0 TMP\_41 = 1 not(TMP\_41) = 0 TMP\_42 = 0 not(TMP\_42) = 1 TMP\_43 = 1 not(TMP\_43) = 0 TMP\_44 = 4 TMP\_45 = 0 not(TMP\_45) = 1 TMP\_46 = 0 not(TMP\_46) = 1 TMP\_47 = 0 TMP\_48 = 1 not(TMP\_48) = 0 TMP\_49 = 1 not(TMP\_49) = 0 TMP\_50 = 2 TMP\_51 = 0 not(TMP\_51) = 1 TMP\_52 = 0 not(TMP\_52) = 1 TMP\_53 = 1 not(TMP\_53) = 0 TMP\_54 = 1 not(TMP\_54) = 0 TMP\_55 = 1 not(TMP\_55) = 0 TMP\_56 = 2 TMP\_57 = 0 not(TMP\_57) = 1 TMP\_58 = 1 not(TMP\_58) = 0 TMP\_59 = 1 not(TMP\_59) = 0 TMP\_60 = 1 not(TMP\_60) = 0 TMP\_61 = 0 not(TMP\_61) = 1 TMP\_62 = 1 not(TMP\_62) = 0 TMP\_63 = 4 TMP\_64 = 0 not(TMP\_64) = 1 TMP\_65 = 0 not(TMP\_65) = 1 TMP\_66 = 0 TMP\_67 = 1 not(TMP\_67) = 0 TMP\_68 = 1 not(TMP\_68) = 0 TMP\_69 = 2 TMP\_70 = 0 not(TMP\_70) = 1 TMP\_71 = 0 not(TMP\_71) = 1 TMP\_72 = 1 not(TMP\_72) = 0 TMP\_73 = 1 not(TMP\_73) = 0 TMP\_74 = 1 not(TMP\_74) = 0 TMP\_75 = 2 TMP\_76 = 1 not(TMP\_76) = 0 TMP\_77 = 0 not(TMP\_77) = 1 TMP\_78 = 1 not(TMP\_78) = 0 TMP\_79 = 1 not(TMP\_79) = 0 TMP\_80 = 0 not(TMP\_80) = 1 TMP\_81 = 1 not(TMP\_81) = 0 TMP\_82 = 4 TMP\_83 = 0 not(TMP\_83) = 1 TMP\_84 = 0 not(TMP\_84) = 1 TMP\_85 = 0 TMP\_86 = 1 not(TMP\_86) = 0 TMP\_87 = 1 not(TMP\_87) = 0 TMP\_88 = 2 TMP\_89 = 0 not(TMP\_89) = 1 TMP\_90 = 0 not(TMP\_90) = 1 TMP\_91 = 1 not(TMP\_91) = 0 TMP\_92 = 1 not(TMP\_92) = 0 TMP\_93 = 1 not(TMP\_93) = 0 TMP\_94 = 2 TMP\_95 = 1 not(TMP\_95) = 0 TMP\_96 = 0 not(TMP\_96) = 1 TMP\_97 = 1 not(TMP\_97) = 0 TMP\_98 = 1 not(TMP\_98) = 0 TMP\_99 = 1 not(TMP\_99) = 0 TMP\_100 = 1 not(TMP\_100) = 0 TMP\_101 = 5 TMP\_102 = 0 not(TMP\_102) = 1 TMP\_103 = 0 not(TMP\_103) = 1 TMP\_104 = 0 TMP\_105 = 1 not(TMP\_105) = 0 TMP\_106 = 1 not(TMP\_106) = 0 TMP\_107 = 2 TMP\_108 = 0 not(TMP\_108) = 1 TMP\_109 = 0 not(TMP\_109) = 1 TMP\_110 = 1 not(TMP\_110) = 0 TMP\_111 = 1 not(TMP\_111) = 0 TMP\_112 = 1 not(TMP\_112) = 0 TMP\_113 = 2 TMP\_114 = 0 not(TMP\_114) = 1 TMP\_115 = 1 not(TMP\_115) = 0 TMP\_116 = 1 not(TMP\_116) = 0 TMP\_117 = 1 not(TMP\_117) = 0 TMP\_118 = 0 not(TMP\_118) = 1 TMP\_119 = 1 not(TMP\_119) = 0 TMP\_120 = 4 TMP\_121 = 0 not(TMP\_121) = 1 TMP\_122 = 0 not(TMP\_122) = 1 TMP\_123 = 0 TMP\_124 = 1 not(TMP\_124) = 0 TMP\_125 = 1 not(TMP\_125) = 0 TMP\_126 = 2 TMP\_127 = 0 not(TMP\_127) = 1 TMP\_128 = 0 not(TMP\_128) = 1 TMP\_129 = 1 not(TMP\_129) = 0 TMP\_130 = 1 not(TMP\_130) = 0 TMP\_131 = 1 not(TMP\_131) = 0 TMP\_132 = 2 TMP\_133 = 1 not(TMP\_133) = 0 TMP\_134 = 1 not(TMP\_134) = 0 TMP\_135 = 1 not(TMP\_135) = 0 TMP\_136 = 1 not(TMP\_136) = 0 TMP\_137 = 0 not(TMP\_137) = 1 TMP\_138 = 1 not(TMP\_138) = 0 TMP\_139 = 5 TMP\_140 = 0 not(TMP\_140) = 1 TMP\_141 = 0 not(TMP\_141) = 1 TMP\_142 = 0 TMP\_143 = 1 not(TMP\_143) = 0 TMP\_144 = 1 not(TMP\_144) = 0 TMP\_145 = 2 TMP\_146 = 0 not(TMP\_146) = 1 TMP\_147 = 0 not(TMP\_147) = 1 TMP\_148 = 1 not(TMP\_148) = 0 TMP\_149 = 1 not(TMP\_149) = 0 TMP\_150 = 1 not(TMP\_150) = 0 TMP\_151 = 2 TMP\_152 = 0 not(TMP\_152) = 1 TMP\_153 = 1 not(TMP\_153) = 0 TMP\_154 = 1 not(TMP\_154) = 0 TMP\_155 = 1 not(TMP\_155) = 0 TMP\_156 = 0 not(TMP\_156) = 1 TMP\_157 = 1 not(TMP\_157) = 0 TMP\_158 = 4 TMP\_159 = 0 not(TMP\_159) = 1 TMP\_160 = 0 not(TMP\_160) = 1 TMP\_161 = 0 TMP\_162 = 1 not(TMP\_162) = 0 TMP\_163 = 1 not(TMP\_163) = 0 TMP\_164 = 2 TMP\_165 = 0 not(TMP\_165) = 1 TMP\_166 = 0 not(TMP\_166) = 1 TMP\_167 = 1 not(TMP\_167) = 0 TMP\_168 = 1 not(TMP\_168) = 0 TMP\_169 = 1 not(TMP\_169) = 0 TMP\_170 = 2 TMP\_171 = 0 not(TMP\_171) = 1 TMP\_172 = 1 not(TMP\_172) = 0 TMP\_173 = 1 not(TMP\_173) = 0 TMP\_174 = 1 not(TMP\_174) = 0 TMP\_175 = 1 not(TMP\_175) = 0 TMP\_176 = 1 not(TMP\_176) = 0 TMP\_177 = 5 TMP\_178 = 0 not(TMP\_178) = 1 TMP\_179 = 0 not(TMP\_179) = 1 TMP\_180 = 0 TMP\_181 = 1 not(TMP\_181) = 0 TMP\_182 = 1 not(TMP\_182) = 0 TMP\_183 = 2 TMP\_184 = 0 not(TMP\_184) = 1 TMP\_185 = 0 not(TMP\_185) = 1 TMP\_186 = 1 not(TMP\_186) = 0 TMP\_187 = 1 not(TMP\_187) = 0 TMP\_188 = 1 not(TMP\_188) = 0 TMP\_189 = 2 TMP\_190 = 1 not(TMP\_190) = 0 TMP\_191 = 1 not(TMP\_191) = 0 TMP\_192 = 1 not(TMP\_192) = 0 TMP\_193 = 1 not(TMP\_193) = 0 TMP\_194 = 0 not(TMP\_194) = 1 TMP\_195 = 1 not(TMP\_195) = 0 TMP\_196 = 5 TMP\_197 = 0 not(TMP\_197) = 1 TMP\_198 = 0 not(TMP\_198) = 1 TMP\_199 = 0 TMP\_200 = 1 not(TMP\_200) = 0 TMP\_201 = 1 not(TMP\_201) = 0 TMP\_202 = 2 TMP\_203 = 0 not(TMP\_203) = 1 TMP\_204 = 0 not(TMP\_204) = 1 TMP\_205 = 1 not(TMP\_205) = 0 TMP\_206 = 1 not(TMP\_206) = 0 TMP\_207 = 1 not(TMP\_207) = 0 TMP\_208 = 2 TMP\_209 = 0 not(TMP\_209) = 1 TMP\_210 = 1 not(TMP\_210) = 0 TMP\_211 = 1 not(TMP\_211) = 0 TMP\_212 = 1 not(TMP\_212) = 0 TMP\_213 = 1 not(TMP\_213) = 0 TMP\_214 = 0 not(TMP\_214) = 1 TMP\_215 = 4 TMP\_216 = 0 not(TMP\_216) = 1 TMP\_217 = 0 not(TMP\_217) = 1 TMP\_218 = 0 TMP\_219 = 1 not(TMP\_219) = 0 TMP\_220 = 1 not(TMP\_220) = 0 TMP\_221 = 2 TMP\_222 = 0 not(TMP\_222) = 1 TMP\_223 = 0 not(TMP\_223) = 1 TMP\_224 = 1 not(TMP\_224) = 0 TMP\_225 = 1 not(TMP\_225) = 0 TMP\_226 = 1 not(TMP\_226) = 0 TMP\_227 = 2 TMP\_228 = 0 not(TMP\_228) = 1 TMP\_229 = 1 not(TMP\_229) = 0 TMP\_230 = 1 not(TMP\_230) = 0 TMP\_231 = 1 not(TMP\_231) = 0 TMP\_232 = 1 not(TMP\_232) = 0 TMP\_233 = 0 not(TMP\_233) = 1 TMP\_234 = 4 TMP\_235 = 0 not(TMP\_235) = 1 TMP\_236 = 0 not(TMP\_236) = 1 TMP\_237 = 0 TMP\_238 = 1 not(TMP\_238) = 0 TMP\_239 = 1 not(TMP\_239) = 0 TMP\_240 = 2 TMP\_241 = 0 not(TMP\_241) = 1 TMP\_242 = 0 not(TMP\_242) = 1 TMP\_243 = 1 not(TMP\_243) = 0 TMP\_244 = 1 not(TMP\_244) = 0 TMP\_245 = 1 not(TMP\_245) = 0 TMP\_246 = 2 TMP\_247 = 0 not(TMP\_247) = 1 TMP\_248 = 1 not(TMP\_248) = 0 TMP\_249 = 1 not(TMP\_249) = 0 TMP\_250 = 0 not(TMP\_250) = 1 TMP\_251 = 1 not(TMP\_251) = 0 TMP\_252 = 1 not(TMP\_252) = 0 TMP\_253 = 4 TMP\_254 = 0 not(TMP\_254) = 1 TMP\_255 = 0 not(TMP\_255) = 1 TMP\_256 = 0 TMP\_257 = 1 not(TMP\_257) = 0 TMP\_258 = 1 not(TMP\_258) = 0 TMP\_259 = 2 TMP\_260 = 0 not(TMP\_260) = 1 TMP\_261 = 0 not(TMP\_261) = 1 TMP\_262 = 1 not(TMP\_262) = 0 TMP\_263 = 1 not(TMP\_263) = 0 TMP\_264 = 1 not(TMP\_264) = 0 TMP\_265 = 2 TMP\_266 = 0 not(TMP\_266) = 1 TMP\_267 = 1 not(TMP\_267) = 0 TMP\_268 = 1 not(TMP\_268) = 0 TMP\_269 = 1 not(TMP\_269) = 0 TMP\_270 = 1 not(TMP\_270) = 0 TMP\_271 = 1 not(TMP\_271) = 0 TMP\_272 = 5 TMP\_273 = 0 not(TMP\_273) = 1 TMP\_274 = 0 not(TMP\_274) = 1 TMP\_275 = 0 TMP\_276 = 1 not(TMP\_276) = 0 TMP\_277 = 1 not(TMP\_277) = 0 TMP\_278 = 2 TMP\_279 = 0 not(TMP\_279) = 1 TMP\_280 = 0 not(TMP\_280) = 1 TMP\_281 = 1 not(TMP\_281) = 0 TMP\_282 = 1 not(TMP\_282) = 0 TMP\_283 = 1 not(TMP\_283) = 0 TMP\_284 = 2 TMP\_285 = 1 not(TMP\_285) = 0 TMP\_286 = 0 not(TMP\_286) = 1 TMP\_287 = 1 not(TMP\_287) = 0 TMP\_288 = 1 not(TMP\_288) = 0 TMP\_289 = 1 not(TMP\_289) = 0 TMP\_290 = 1 not(TMP\_290) = 0 TMP\_291 = 5 TMP\_292 = 0 not(TMP\_292) = 1 TMP\_293 = 0 not(TMP\_293) = 1 TMP\_294 = 0 TMP\_295 = 1 not(TMP\_295) = 0 TMP\_296 = 1 not(TMP\_296) = 0 TMP\_297 = 2 TMP\_298 = 0 not(TMP\_298) = 1 TMP\_299 = 0 not(TMP\_299) = 1 TMP\_300 = 1 not(TMP\_300) = 0 TMP\_301 = 1 not(TMP\_301) = 0 TMP\_302 = 1 not(TMP\_302) = 0 TMP\_303 = 2 TMP\_304 = 1 not(TMP\_304) = 0 TMP\_305 = 0 not(TMP\_305) = 1 TMP\_306 = 1 not(TMP\_306) = 0 TMP\_307 = 1 not(TMP\_307) = 0 TMP\_308 = 1 not(TMP\_308) = 0 TMP\_309 = 0 not(TMP\_309) = 1 TMP\_310 = 4 TMP\_311 = 0 not(TMP\_311) = 1 TMP\_312 = 0 not(TMP\_312) = 1 TMP\_313 = 0 TMP\_314 = 1 not(TMP\_314) = 0 TMP\_315 = 1 not(TMP\_315) = 0 TMP\_316 = 2 TMP\_317 = 0 not(TMP\_317) = 1 TMP\_318 = 0 not(TMP\_318) = 1 TMP\_319 = 1 not(TMP\_319) = 0 TMP\_320 = 1 not(TMP\_320) = 0 TMP\_321 = 1 not(TMP\_321) = 0 TMP\_322 = 2 TMP\_323 = 0 not(TMP\_323) = 1 TMP\_324 = 1 not(TMP\_324) = 0 TMP\_325 = 1 not(TMP\_325) = 0 TMP\_326 = 1 not(TMP\_326) = 0 TMP\_327 = 1 not(TMP\_327) = 0 TMP\_328 = 1 not(TMP\_328) = 0 TMP\_329 = 5 TMP\_330 = 0 not(TMP\_330) = 1 TMP\_331 = 0 not(TMP\_331) = 1 TMP\_332 = 0 TMP\_333 = 1 not(TMP\_333) = 0 TMP\_334 = 1 not(TMP\_334) = 0 TMP\_335 = 2 TMP\_336 = 0 not(TMP\_336) = 1 TMP\_337 = 0 not(TMP\_337) = 1 TMP\_338 = 1 not(TMP\_338) = 0 TMP\_339 = 1 not(TMP\_339) = 0 TMP\_340 = 1 not(TMP\_340) = 0 TMP\_341 = 2 TMP\_342 = 1 not(TMP\_342) = 0 TMP\_343 = 1 not(TMP\_343) = 0 TMP\_344 = 1 not(TMP\_344) = 0 TMP\_345 = 1 not(TMP\_345) = 0 TMP\_346 = 1 not(TMP\_346) = 0 TMP\_347 = 0 not(TMP\_347) = 1 TMP\_348 = 5 TMP\_349 = 0 not(TMP\_349) = 1 TMP\_350 = 0 not(TMP\_350) = 1 TMP\_351 = 0 TMP\_352 = 1 not(TMP\_352) = 0 TMP\_353 = 1 not(TMP\_353) = 0 TMP\_354 = 2 TMP\_355 = 0 not(TMP\_355) = 1 TMP\_356 = 0 not(TMP\_356) = 1 TMP\_357 = 1 not(TMP\_357) = 0 TMP\_358 = 1 not(TMP\_358) = 0 TMP\_359 = 1 not(TMP\_359) = 0 TMP\_360 = 2 TMP\_361 = 0 not(TMP\_361) = 1 TMP\_362 = 1 not(TMP\_362) = 0 TMP\_363 = 1 not(TMP\_363) = 0 TMP\_364 = 1 not(TMP\_364) = 0 TMP\_365 = 1 not(TMP\_365) = 0 TMP\_366 = 1 not(TMP\_366) = 0 TMP\_367 = 5 TMP\_368 = 0 not(TMP\_368) = 1 TMP\_369 = 0 not(TMP\_369) = 1 TMP\_370 = 0 TMP\_371 = 1 not(TMP\_371) = 0 TMP\_372 = 1 not(TMP\_372) = 0 TMP\_373 = 2 TMP\_374 = 0 not(TMP\_374) = 1 TMP\_375 = 0 not(TMP\_375) = 1 TMP\_376 = 1 not(TMP\_376) = 0 TMP\_377 = 1 not(TMP\_377) = 0 TMP\_378 = 1 not(TMP\_378) = 0 TMP\_379 = 2 TMP\_380 = 0 not(TMP\_380) = 1 TMP\_381 = 1 not(TMP\_381) = 0 TMP\_382 = 1 not(TMP\_382) = 0 TMP\_383 = 1 not(TMP\_383) = 0 TMP\_384 = 1 not(TMP\_384) = 0 TMP\_385 = 0 not(TMP\_385) = 1 TMP\_386 = 4 TMP\_387 = 0 not(TMP\_387) = 1 TMP\_388 = 0 not(TMP\_388) = 1 TMP\_389 = 0 TMP\_390 = 1 not(TMP\_390) = 0 TMP\_391 = 1 not(TMP\_391) = 0 TMP\_392 = 2 TMP\_393 = 0 not(TMP\_393) = 1 TMP\_394 = 0 not(TMP\_394) = 1 TMP\_395 = 1 not(TMP\_395) = 0 TMP\_396 = 1 not(TMP\_396) = 0 TMP\_397 = 1 not(TMP\_397) = 0 TMP\_398 = 2 TMP\_399 = 1 not(TMP\_399) = 0 TMP\_400 = 1 not(TMP\_400) = 0 TMP\_401 = 1 not(TMP\_401) = 0 TMP\_402 = 0 not(TMP\_402) = 1 TMP\_403 = 1 not(TMP\_403) = 0 TMP\_404 = 1 not(TMP\_404) = 0 TMP\_405 = 5 TMP\_406 = 0 not(TMP\_406) = 1 TMP\_407 = 0 not(TMP\_407) = 1 TMP\_408 = 0 TMP\_409 = 1 not(TMP\_409) = 0 TMP\_410 = 1 not(TMP\_410) = 0 TMP\_411 = 2 TMP\_412 = 0 not(TMP\_412) = 1 TMP\_413 = 0 not(TMP\_413) = 1 TMP\_414 = 1 not(TMP\_414) = 0 TMP\_415 = 1 not(TMP\_415) = 0 TMP\_416 = 1 not(TMP\_416) = 0 TMP\_417 = 2 TMP\_418 = 0 not(TMP\_418) = 1 TMP\_419 = 1 not(TMP\_419) = 0 TMP\_420 = 1 not(TMP\_420) = 0 TMP\_421 = 1 not(TMP\_421) = 0 TMP\_422 = 1 not(TMP\_422) = 0 TMP\_423 = 0 not(TMP\_423) = 1 TMP\_424 = 4 TMP\_425 = 0 not(TMP\_425) = 1 TMP\_426 = 0 not(TMP\_426) = 1 TMP\_427 = 0 TMP\_428 = 1 not(TMP\_428) = 0 TMP\_429 = 1 not(TMP\_429) = 0 TMP\_430 = 2 TMP\_431 = 0 not(TMP\_431) = 1 TMP\_432 = 0 not(TMP\_432) = 1 TMP\_433 = 1 not(TMP\_433) = 0 TMP\_434 = 1 not(TMP\_434) = 0 TMP\_435 = 1 not(TMP\_435) = 0 TMP\_436 = 2 TMP\_437 = 1 not(TMP\_437) = 0 TMP\_438 = 0 not(TMP\_438) = 1 TMP\_439 = 1 not(TMP\_439) = 0 TMP\_440 = 1 not(TMP\_440) = 0 TMP\_441 = 1 not(TMP\_441) = 0 TMP\_442 = 0 not(TMP\_442) = 1 TMP\_443 = 4 TMP\_444 = 0 not(TMP\_444) = 1 TMP\_445 = 0 not(TMP\_445) = 1 TMP\_446 = 0 TMP\_447 = 1 not(TMP\_447) = 0 TMP\_448 = 1 not(TMP\_448) = 0 TMP\_449 = 2 TMP\_450 = 0 not(TMP\_450) = 1 TMP\_451 = 0 not(TMP\_451) = 1 TMP\_452 = 1 not(TMP\_452) = 0 TMP\_453 = 1 not(TMP\_453) = 0 TMP\_454 = 1 not(TMP\_454) = 0 TMP\_455 = 2 TMP\_456 = 1 not(TMP\_456) = 0 TMP\_457 = 0 not(TMP\_457) = 1 TMP\_458 = 1 not(TMP\_458) = 0 TMP\_459 = 1 not(TMP\_459) = 0 TMP\_460 = 1 not(TMP\_460) = 0 TMP\_461 = 1 not(TMP\_461) = 0 TMP\_462 = 5 TMP\_463 = 0 not(TMP\_463) = 1 TMP\_464 = 0 not(TMP\_464) = 1 TMP\_465 = 0 TMP\_466 = 1 not(TMP\_466) = 0 TMP\_467 = 1 not(TMP\_467) = 0 TMP\_468 = 2 TMP\_469 = 0 not(TMP\_469) = 1 TMP\_470 = 0 not(TMP\_470) = 1 TMP\_471 = 1 not(TMP\_471) = 0 TMP\_472 = 1 not(TMP\_472) = 0 TMP\_473 = 1 not(TMP\_473) = 0 TMP\_474 = 2 TMP\_475 = 1 not(TMP\_475) = 0 TMP\_476 = 0 not(TMP\_476) = 1 TMP\_477 = 1 not(TMP\_477) = 0 TMP\_478 = 1 not(TMP\_478) = 0 TMP\_479 = 1 not(TMP\_479) = 0 TMP\_480 = 1 not(TMP\_480) = 0 TMP\_481 = 5 TMP\_482 = 0 not(TMP\_482) = 1 TMP\_483 = 0 not(TMP\_483) = 1 TMP\_484 = 0 TMP\_485 = 1 not(TMP\_485) = 0 TMP\_486 = 1 not(TMP\_486) = 0 TMP\_487 = 2 TMP\_488 = 0 not(TMP\_488) = 1 TMP\_489 = 0 not(TMP\_489) = 1 TMP\_490 = 1 not(TMP\_490) = 0 TMP\_491 = 1 not(TMP\_491) = 0 TMP\_492 = 1 not(TMP\_492) = 0 TMP\_493 = 2 TMP\_494 = 1 not(TMP\_494) = 0 TMP\_495 = 0 not(TMP\_495) = 1 TMP\_496 = 1 not(TMP\_496) = 0 TMP\_497 = 1 not(TMP\_497) = 0 TMP\_498 = 1 not(TMP\_498) = 0 TMP\_499 = 1 not(TMP\_499) = 0 TMP\_500 = 5 TMP\_501 = 0 not(TMP\_501) = 1 TMP\_502 = 0 not(TMP\_502) = 1 TMP\_503 = 0 TMP\_504 = 1 not(TMP\_504) = 0 TMP\_505 = 1 not(TMP\_505) = 0 TMP\_506 = 2 TMP\_507 = 0 not(TMP\_507) = 1 TMP\_508 = 0 not(TMP\_508) = 1 TMP\_509 = 1 not(TMP\_509) = 0 TMP\_510 = 1 not(TMP\_510) = 0 TMP\_511 = 1 not(TMP\_511) = 0 TMP\_512 = 2 TMP\_513 = 1 not(TMP\_513) = 0 TMP\_514 = 0 not(TMP\_514) = 1 TMP\_515 = 1 not(TMP\_515) = 0 TMP\_516 = 1 not(TMP\_516) = 0 TMP\_517 = 1 not(TMP\_517) = 0 TMP\_518 = 0 not(TMP\_518) = 1 TMP\_519 = 4 TMP\_520 = 0 not(TMP\_520) = 1 TMP\_521 = 0 not(TMP\_521) = 1 TMP\_522 = 0 TMP\_523 = 1 not(TMP\_523) = 0 TMP\_524 = 1 not(TMP\_524) = 0 TMP\_525 = 2 TMP\_526 = 0 not(TMP\_526) = 1 TMP\_527 = 0 not(TMP\_527) = 1 TMP\_528 = 1 not(TMP\_528) = 0 TMP\_529 = 1 not(TMP\_529) = 0 TMP\_530 = 1 not(TMP\_530) = 0 TMP\_531 = 2 TMP\_532 = 0 not(TMP\_532) = 1 TMP\_533 = 1 not(TMP\_533) = 0 TMP\_534 = 1 not(TMP\_534) = 0 TMP\_535 = 1 not(TMP\_535) = 0 TMP\_536 = 1 not(TMP\_536) = 0 TMP\_537 = 1 not(TMP\_537) = 0 TMP\_538 = 5 TMP\_539 = 0 not(TMP\_539) = 1 TMP\_540 = 0 not(TMP\_540) = 1 TMP\_541 = 0 TMP\_542 = 1 not(TMP\_542) = 0 TMP\_543 = 1 not(TMP\_543) = 0 TMP\_544 = 2 TMP\_545 = 0 not(TMP\_545) = 1 TMP\_546 = 0 not(TMP\_546) = 1 TMP\_547 = 1 not(TMP\_547) = 0 TMP\_548 = 1 not(TMP\_548) = 0 TMP\_549 = 1 not(TMP\_549) = 0 TMP\_550 = 2 TMP\_551 = 1 not(TMP\_551) = 0 TMP\_552 = 0 not(TMP\_552) = 1 TMP\_553 = 1 not(TMP\_553) = 0 TMP\_554 = 1 not(TMP\_554) = 0 TMP\_555 = 1 not(TMP\_555) = 0 TMP\_556 = 0 not(TMP\_556) = 1 TMP\_557 = 4 TMP\_558 = 0 not(TMP\_558) = 1 TMP\_559 = 0 not(TMP\_559) = 1 TMP\_560 = 0 TMP\_561 = 1 not(TMP\_561) = 0 TMP\_562 = 1 not(TMP\_562) = 0 TMP\_563 = 2 TMP\_564 = 0 not(TMP\_564) = 1 TMP\_565 = 0 not(TMP\_565) = 1 TMP\_566 = 1 not(TMP\_566) = 0 TMP\_567 = 1 not(TMP\_567) = 0 TMP\_568 = 1 not(TMP\_568) = 0 TMP\_569 = 2 TMP\_570 = 1 not(TMP\_570) = 0 TMP\_571 = 0 not(TMP\_571) = 1 TMP\_572 = 1 not(TMP\_572) = 0 TMP\_573 = 1 not(TMP\_573) = 0 TMP\_574 = 1 not(TMP\_574) = 0 TMP\_575 = 1 not(TMP\_575) = 0 TMP\_576 = 5 TMP\_577 = 0 not(TMP\_577) = 1 TMP\_578 = 0 not(TMP\_578) = 1 TMP\_579 = 0 TMP\_580 = 1 not(TMP\_580) = 0 TMP\_581 = 1 not(TMP\_581) = 0 TMP\_582 = 2 TMP\_583 = 0 not(TMP\_583) = 1 TMP\_584 = 0 not(TMP\_584) = 1 TMP\_585 = 1 not(TMP\_585) = 0 TMP\_586 = 1 not(TMP\_586) = 0 TMP\_587 = 1 not(TMP\_587) = 0 TMP\_588 = 2 TMP\_589 = 1 not(TMP\_589) = 0 TMP\_590 = 1 not(TMP\_590) = 0 TMP\_591 = 1 not(TMP\_591) = 0 TMP\_592 = 1 not(TMP\_592) = 0 TMP\_593 = 1 not(TMP\_593) = 0 TMP\_594 = 0 not(TMP\_594) = 1 TMP\_595 = 5 TMP\_596 = 0 not(TMP\_596) = 1 TMP\_597 = 0 not(TMP\_597) = 1 TMP\_598 = 0 TMP\_599 = 1 not(TMP\_599) = 0 TMP\_600 = 1 not(TMP\_600) = 0 TMP\_601 = 2 TMP\_602 = 0 not(TMP\_602) = 1 TMP\_603 = 0 not(TMP\_603) = 1 TMP\_604 = 1 not(TMP\_604) = 0 TMP\_605 = 1 not(TMP\_605) = 0 TMP\_606 = 1 not(TMP\_606) = 0 TMP\_607 = 2 TMP\_608 = 1 not(TMP\_608) = 0 TMP\_609 = 0 not(TMP\_609) = 1 TMP\_610 = 1 not(TMP\_610) = 0 TMP\_611 = 1 not(TMP\_611) = 0 TMP\_612 = 1 not(TMP\_612) = 0 TMP\_613 = 1 not(TMP\_613) = 0 TMP\_614 = 5 TMP\_615 = 0 not(TMP\_615) = 1 TMP\_616 = 0 not(TMP\_616) = 1 TMP\_617 = 0 TMP\_618 = 1 not(TMP\_618) = 0 TMP\_619 = 1 not(TMP\_619) = 0 TMP\_620 = 2 TMP\_621 = 0 not(TMP\_621) = 1 TMP\_622 = 0 not(TMP\_622) = 1 TMP\_623 = 1 not(TMP\_623) = 0 TMP\_624 = 1 not(TMP\_624) = 0 TMP\_625 = 1 not(TMP\_625) = 0 TMP\_626 = 2 TMP\_627 = 0 not(TMP\_627) = 1 TMP\_628 = 1 not(TMP\_628) = 0 TMP\_629 = 1 not(TMP\_629) = 0 TMP\_630 = 1 not(TMP\_630) = 0 TMP\_631 = 1 not(TMP\_631) = 0 TMP\_632 = 1 not(TMP\_632) = 0 TMP\_633 = 5 TMP\_634 = 0 not(TMP\_634) = 1 TMP\_635 = 0 not(TMP\_635) = 1 TMP\_636 = 0 TMP\_637 = 1 not(TMP\_637) = 0 TMP\_638 = 1 not(TMP\_638) = 0 TMP\_639 = 2 TMP\_640 = 0 not(TMP\_640) = 1 TMP\_641 = 0 not(TMP\_641) = 1 TMP\_642 = 1 not(TMP\_642) = 0 TMP\_643 = 1 not(TMP\_643) = 0 TMP\_644 = 1 not(TMP\_644) = 0 TMP\_645 = 2 TMP\_646 = 1 not(TMP\_646) = 0 TMP\_647 = 0 not(TMP\_647) = 1 TMP\_648 = 1 not(TMP\_648) = 0 TMP\_649 = 1 not(TMP\_649) = 0 TMP\_650 = 1 not(TMP\_650) = 0 TMP\_651 = 1 not(TMP\_651) = 0 TMP\_652 = 5 TMP\_653 = 0 not(TMP\_653) = 1 TMP\_654 = 0 not(TMP\_654) = 1 TMP\_655 = 0 TMP\_656 = 1 not(TMP\_656) = 0 TMP\_657 = 1 not(TMP\_657) = 0 TMP\_658 = 2 TMP\_659 = 0 not(TMP\_659) = 1 TMP\_660 = 0 not(TMP\_660) = 1 TMP\_661 = 1 not(TMP\_661) = 0 TMP\_662 = 1 not(TMP\_662) = 0 TMP\_663 = 1 not(TMP\_663) = 0 TMP\_664 = 2 TMP\_665 = 1 not(TMP\_665) = 0 TMP\_666 = 0 not(TMP\_666) = 1 TMP\_667 = 1 not(TMP\_667) = 0 TMP\_668 = 1 not(TMP\_668) = 0 TMP\_669 = 0 not(TMP\_669) = 1 TMP\_670 = 1 not(TMP\_670) = 0 TMP\_671 = 4 TMP\_672 = 0 not(TMP\_672) = 1 TMP\_673 = 0 not(TMP\_673) = 1 TMP\_674 = 0 TMP\_675 = 1 not(TMP\_675) = 0 TMP\_676 = 1 not(TMP\_676) = 0 TMP\_677 = 2 TMP\_678 = 0 not(TMP\_678) = 1 TMP\_679 = 0 not(TMP\_679) = 1 TMP\_680 = 1 not(TMP\_680) = 0 TMP\_681 = 1 not(TMP\_681) = 0 TMP\_682 = 1 not(TMP\_682) = 0 TMP\_683 = 2 TMP\_684 = 1 not(TMP\_684) = 0 TMP\_685 = 0 not(TMP\_685) = 1 TMP\_686 = 1 not(TMP\_686) = 0 TMP\_687 = 1 not(TMP\_687) = 0 TMP\_688 = 0 not(TMP\_688) = 1 TMP\_689 = 1 not(TMP\_689) = 0 TMP\_690 = 4 TMP\_691 = 0 not(TMP\_691) = 1 TMP\_692 = 0 not(TMP\_692) = 1 TMP\_693 = 0 TMP\_694 = 1 not(TMP\_694) = 0 TMP\_695 = 1 not(TMP\_695) = 0 TMP\_696 = 2 TMP\_697 = 0 not(TMP\_697) = 1 TMP\_698 = 0 not(TMP\_698) = 1 TMP\_699 = 1 not(TMP\_699) = 0 TMP\_700 = 1 not(TMP\_700) = 0 TMP\_701 = 1 not(TMP\_701) = 0 TMP\_702 = 2 TMP\_703 = 1 not(TMP\_703) = 0 TMP\_704 = 0 not(TMP\_704) = 1 TMP\_705 = 1 not(TMP\_705) = 0 TMP\_706 = 1 not(TMP\_706) = 0 TMP\_707 = 0 not(TMP\_707) = 1 TMP\_708 = 1 not(TMP\_708) = 0 TMP\_709 = 4 TMP\_710 = 0 not(TMP\_710) = 1 TMP\_711 = 0 not(TMP\_711) = 1 TMP\_712 = 0 TMP\_713 = 1 not(TMP\_713) = 0 TMP\_714 = 1 not(TMP\_714) = 0 TMP\_715 = 2 TMP\_716 = 0 not(TMP\_716) = 1 TMP\_717 = 0 not(TMP\_717) = 1 TMP\_718 = 1 not(TMP\_718) = 0 TMP\_719 = 1 not(TMP\_719) = 0 TMP\_720 = 1 not(TMP\_720) = 0 TMP\_721 = 2 TMP\_722 = 1 not(TMP\_722) = 0 TMP\_723 = 0 not(TMP\_723) = 1 TMP\_724 = 1 not(TMP\_724) = 0 TMP\_725 = 1 not(TMP\_725) = 0 TMP\_726 = 1 not(TMP\_726) = 0 TMP\_727 = 1 not(TMP\_727) = 0 TMP\_728 = 5 TMP\_729 = 0 not(TMP\_729) = 1 TMP\_730 = 0 not(TMP\_730) = 1 TMP\_731 = 0 TMP\_732 = 1 not(TMP\_732) = 0 TMP\_733 = 1 not(TMP\_733) = 0 TMP\_734 = 2 TMP\_735 = 0 not(TMP\_735) = 1 TMP\_736 = 0 not(TMP\_736) = 1 TMP\_737 = 1 not(TMP\_737) = 0 TMP\_738 = 1 not(TMP\_738) = 0 TMP\_739 = 1 not(TMP\_739) = 0 TMP\_740 = 2 TMP\_741 = 0 not(TMP\_741) = 1 TMP\_742 = 1 not(TMP\_742) = 0 TMP\_743 = 1 not(TMP\_743) = 0 TMP\_744 = 1 not(TMP\_744) = 0 TMP\_745 = 0 not(TMP\_745) = 1 TMP\_746 = 1 not(TMP\_746) = 0 TMP\_747 = 4 TMP\_748 = 0 not(TMP\_748) = 1 TMP\_749 = 0 not(TMP\_749) = 1 TMP\_750 = 0 TMP\_751 = 1 not(TMP\_751) = 0 TMP\_752 = 1 not(TMP\_752) = 0 TMP\_753 = 2 TMP\_754 = 0 not(TMP\_754) = 1 TMP\_755 = 0 not(TMP\_755) = 1 TMP\_756 = 1 not(TMP\_756) = 0 TMP\_757 = 1 not(TMP\_757) = 0 TMP\_758 = 1 not(TMP\_758) = 0 TMP\_759 = 2 TMP\_760 = 1 not(TMP\_760) = 0 TMP\_761 = 0 not(TMP\_761) = 1 TMP\_762 = 1 not(TMP\_762) = 0 TMP\_763 = 1 not(TMP\_763) = 0 TMP\_764 = 1 not(TMP\_764) = 0 TMP\_765 = 1 not(TMP\_765) = 0 TMP\_766 = 5 TMP\_767 = 0 not(TMP\_767) = 1 TMP\_768 = 0 not(TMP\_768) = 1 TMP\_769 = 0 TMP\_770 = 1 not(TMP\_770) = 0 TMP\_771 = 1 not(TMP\_771) = 0 TMP\_772 = 2 TMP\_773 = 0 not(TMP\_773) = 1 TMP\_774 = 0 not(TMP\_774) = 1 TMP\_775 = 1 not(TMP\_775) = 0 TMP\_776 = 1 not(TMP\_776) = 0 TMP\_777 = 1 not(TMP\_777) = 0 TMP\_778 = 2 TMP\_779 = 1 not(TMP\_779) = 0 TMP\_780 = 0 not(TMP\_780) = 1 TMP\_781 = 1 not(TMP\_781) = 0 TMP\_782 = 1 not(TMP\_782) = 0 TMP\_783 = 0 not(TMP\_783) = 1 TMP\_784 = 1 not(TMP\_784) = 0 TMP\_785 = 4 TMP\_786 = 0 not(TMP\_786) = 1 TMP\_787 = 0 not(TMP\_787) = 1 TMP\_788 = 0 TMP\_789 = 1 not(TMP\_789) = 0 TMP\_790 = 1 not(TMP\_790) = 0 TMP\_791 = 2 TMP\_792 = 0 not(TMP\_792) = 1 TMP\_793 = 0 not(TMP\_793) = 1 TMP\_794 = 1 not(TMP\_794) = 0 TMP\_795 = 1 not(TMP\_795) = 0 TMP\_796 = 1 not(TMP\_796) = 0 TMP\_797 = 2 TMP\_798 = 1 not(TMP\_798) = 0 TMP\_799 = 1 not(TMP\_799) = 0 TMP\_800 = 1 not(TMP\_800) = 0 TMP\_801 = 1 not(TMP\_801) = 0 TMP\_802 = 0 not(TMP\_802) = 1 TMP\_803 = 1 not(TMP\_803) = 0 TMP\_804 = 5 TMP\_805 = 0 not(TMP\_805) = 1 TMP\_806 = 0 not(TMP\_806) = 1 TMP\_807 = 0 TMP\_808 = 1 not(TMP\_808) = 0 TMP\_809 = 1 not(TMP\_809) = 0 TMP\_810 = 2 TMP\_811 = 0 not(TMP\_811) = 1 TMP\_812 = 0 not(TMP\_812) = 1 TMP\_813 = 1 not(TMP\_813) = 0 TMP\_814 = 1 not(TMP\_814) = 0 TMP\_815 = 1 not(TMP\_815) = 0 TMP\_816 = 2 TMP\_817 = 1 not(TMP\_817) = 0 TMP\_818 = 0 not(TMP\_818) = 1 TMP\_819 = 1 not(TMP\_819) = 0 TMP\_820 = 1 not(TMP\_820) = 0 TMP\_821 = 0 not(TMP\_821) = 1 TMP\_822 = 1 not(TMP\_822) = 0 TMP\_823 = 4 TMP\_824 = 0 not(TMP\_824) = 1 TMP\_825 = 0 not(TMP\_825) = 1 TMP\_826 = 0 TMP\_827 = 1 not(TMP\_827) = 0 TMP\_828 = 1 not(TMP\_828) = 0 TMP\_829 = 2 TMP\_830 = 0 not(TMP\_830) = 1 TMP\_831 = 0 not(TMP\_831) = 1 TMP\_832 = 1 not(TMP\_832) = 0 TMP\_833 = 1 not(TMP\_833) = 0 TMP\_834 = 1 not(TMP\_834) = 0 TMP\_835 = 2 TMP\_836 = 0 not(TMP\_836) = 1 TMP\_837 = 1 not(TMP\_837) = 0 TMP\_838 = 1 not(TMP\_838) = 0 TMP\_839 = 1 not(TMP\_839) = 0 TMP\_840 = 1 not(TMP\_840) = 0 TMP\_841 = 0 not(TMP\_841) = 1 TMP\_842 = 4 TMP\_843 = 0 not(TMP\_843) = 1 TMP\_844 = 0 not(TMP\_844) = 1 TMP\_845 = 0 TMP\_846 = 1 not(TMP\_846) = 0 TMP\_847 = 1 not(TMP\_847) = 0 TMP\_848 = 2 TMP\_849 = 0 not(TMP\_849) = 1 TMP\_850 = 0 not(TMP\_850) = 1 TMP\_851 = 1 not(TMP\_851) = 0 TMP\_852 = 1 not(TMP\_852) = 0 TMP\_853 = 1 not(TMP\_853) = 0 TMP\_854 = 2 TMP\_855 = 0 not(TMP\_855) = 1 TMP\_856 = 1 not(TMP\_856) = 0 TMP\_857 = 1 not(TMP\_857) = 0 TMP\_858 = 1 not(TMP\_858) = 0 TMP\_859 = 1 not(TMP\_859) = 0 TMP\_860 = 0 not(TMP\_860) = 1 TMP\_861 = 4 TMP\_862 = 0 not(TMP\_862) = 1 TMP\_863 = 0 not(TMP\_863) = 1 TMP\_864 = 0 TMP\_865 = 1 not(TMP\_865) = 0 TMP\_866 = 1 not(TMP\_866) = 0 TMP\_867 = 2 TMP\_868 = 0 not(TMP\_868) = 1 TMP\_869 = 0 not(TMP\_869) = 1 TMP\_870 = 1 not(TMP\_870) = 0 TMP\_871 = 1 not(TMP\_871) = 0 TMP\_872 = 1 not(TMP\_872) = 0 TMP\_873 = 2 TMP\_874 = 0 not(TMP\_874) = 1 TMP\_875 = 1 not(TMP\_875) = 0 TMP\_876 = 1 not(TMP\_876) = 0 TMP\_877 = 1 not(TMP\_877) = 0 TMP\_878 = 1 not(TMP\_878) = 0 TMP\_879 = 1 not(TMP\_879) = 0 TMP\_880 = 5 TMP\_881 = 0 not(TMP\_881) = 1 TMP\_882 = 0 not(TMP\_882) = 1 TMP\_883 = 0 TMP\_884 = 1 not(TMP\_884) = 0 TMP\_885 = 1 not(TMP\_885) = 0 TMP\_886 = 2 TMP\_887 = 0 not(TMP\_887) = 1 TMP\_888 = 0 not(TMP\_888) = 1 TMP\_889 = 1 not(TMP\_889) = 0 TMP\_890 = 1 not(TMP\_890) = 0 TMP\_891 = 1 not(TMP\_891) = 0 TMP\_892 = 2 TMP\_893 = 0 not(TMP\_893) = 1 TMP\_894 = 1 not(TMP\_894) = 0 TMP\_895 = 0 not(TMP\_895) = 1 TMP\_896 = 1 not(TMP\_896) = 0 TMP\_897 = 1 not(TMP\_897) = 0 TMP\_898 = 1 not(TMP\_898) = 0 TMP\_899 = 4 TMP\_900 = 0 not(TMP\_900) = 1 TMP\_901 = 0 not(TMP\_901) = 1 TMP\_902 = 0 TMP\_903 = 1 not(TMP\_903) = 0 TMP\_904 = 1 not(TMP\_904) = 0 TMP\_905 = 2 TMP\_906 = 0 not(TMP\_906) = 1 TMP\_907 = 0 not(TMP\_907) = 1 TMP\_908 = 1 not(TMP\_908) = 0 TMP\_909 = 1 not(TMP\_909) = 0 TMP\_910 = 1 not(TMP\_910) = 0 TMP\_911 = 2 TMP\_912 = 1 not(TMP\_912) = 0 TMP\_913 = 0 not(TMP\_913) = 1 TMP\_914 = 1 not(TMP\_914) = 0 TMP\_915 = 1 not(TMP\_915) = 0 TMP\_916 = 1 not(TMP\_916) = 0 TMP\_917 = 1 not(TMP\_917) = 0 TMP\_918 = 5 TMP\_919 = 0 not(TMP\_919) = 1 TMP\_920 = 0 not(TMP\_920) = 1 TMP\_921 = 0 TMP\_922 = 1 not(TMP\_922) = 0 TMP\_923 = 1 not(TMP\_923) = 0 TMP\_924 = 2 TMP\_925 = 0 not(TMP\_925) = 1 TMP\_926 = 0 not(TMP\_926) = 1 TMP\_927 = 1 not(TMP\_927) = 0 TMP\_928 = 1 not(TMP\_928) = 0 TMP\_929 = 1 not(TMP\_929) = 0 TMP\_930 = 2 TMP\_931 = 1 not(TMP\_931) = 0 TMP\_932 = 0 not(TMP\_932) = 1 TMP\_933 = 1 not(TMP\_933) = 0 TMP\_934 = 1 not(TMP\_934) = 0 TMP\_935 = 1 not(TMP\_935) = 0 TMP\_936 = 0 not(TMP\_936) = 1 TMP\_937 = 4 TMP\_938 = 0 not(TMP\_938) = 1 TMP\_939 = 0 not(TMP\_939) = 1 TMP\_940 = 0 TMP\_941 = 1 not(TMP\_941) = 0 TMP\_942 = 1 not(TMP\_942) = 0 TMP\_943 = 2 TMP\_944 = 0 not(TMP\_944) = 1 TMP\_945 = 0 not(TMP\_945) = 1 TMP\_946 = 1 not(TMP\_946) = 0 TMP\_947 = 1 not(TMP\_947) = 0 TMP\_948 = 1 not(TMP\_948) = 0 TMP\_949 = 2 TMP\_950 = 0 not(TMP\_950) = 1 TMP\_951 = 1 not(TMP\_951) = 0 TMP\_952 = 1 not(TMP\_952) = 0 TMP\_953 = 1 not(TMP\_953) = 0 TMP\_954 = 1 not(TMP\_954) = 0 TMP\_955 = 1 not(TMP\_955) = 0 TMP\_956 = 5 TMP\_957 = 0 not(TMP\_957) = 1 TMP\_958 = 0 not(TMP\_958) = 1 TMP\_959 = 0 TMP\_960 = 1 not(TMP\_960) = 0 TMP\_961 = 1 not(TMP\_961) = 0 TMP\_962 = 2 TMP\_963 = 0 not(TMP\_963) = 1 TMP\_964 = 0 not(TMP\_964) = 1 TMP\_965 = 1 not(TMP\_965) = 0 TMP\_966 = 1 not(TMP\_966) = 0 TMP\_967 = 1 not(TMP\_967) = 0 TMP\_968 = 2 TMP\_969 = 1 not(TMP\_969) = 0 TMP\_970 = 1 not(TMP\_970) = 0 TMP\_971 = 1 not(TMP\_971) = 0 TMP\_972 = 1 not(TMP\_972) = 0 TMP\_973 = 1 not(TMP\_973) = 0 TMP\_974 = 0 not(TMP\_974) = 1 TMP\_975 = 5 TMP\_976 = 0 not(TMP\_976) = 1 TMP\_977 = 0 not(TMP\_977) = 1 TMP\_978 = 0 TMP\_979 = 1 not(TMP\_979) = 0 TMP\_980 = 1 not(TMP\_980) = 0 TMP\_981 = 2 TMP\_982 = 0 not(TMP\_982) = 1 TMP\_983 = 0 not(TMP\_983) = 1 TMP\_984 = 1 not(TMP\_984) = 0 TMP\_985 = 1 not(TMP\_985) = 0 TMP\_986 = 1 not(TMP\_986) = 0 TMP\_987 = 2 TMP\_988 = 1 not(TMP\_988) = 0 TMP\_989 = 1 not(TMP\_989) = 0 TMP\_990 = 0 not(TMP\_990) = 1 TMP\_991 = 1 not(TMP\_991) = 0 TMP\_992 = 1 not(TMP\_992) = 0 TMP\_993 = 1 not(TMP\_993) = 0 TMP\_994 = 5 TMP\_995 = 0 not(TMP\_995) = 1 TMP\_996 = 0 not(TMP\_996) = 1 TMP\_997 = 0 TMP\_998 = 1 not(TMP\_998) = 0 TMP\_999 = 1 not(TMP\_999) = 0 TMP\_1000 = 2 TMP\_1001 = 0 not(TMP\_1001) = 1 TMP\_1002 = 0 not(TMP\_1002) = 1 TMP\_1003 = 1 not(TMP\_1003) = 0 TMP\_1004 = 1 not(TMP\_1004) = 0 TMP\_1005 = 1 not(TMP\_1005) = 0 TMP\_1006 = 2 TMP\_1007 = 0 not(TMP\_1007) = 1 TMP\_1008 = 1 not(TMP\_1008) = 0 TMP\_1009 = 1 not(TMP\_1009) = 0 TMP\_1010 = 1 not(TMP\_1010) = 0 TMP\_1011 = 1 not(TMP\_1011) = 0 TMP\_1012 = 1 not(TMP\_1012) = 0 TMP\_1013 = 5 TMP\_1014 = 0 not(TMP\_1014) = 1 TMP\_1015 = 0 not(TMP\_1015) = 1 TMP\_1016 = 0 TMP\_1017 = 1 not(TMP\_1017) = 0 TMP\_1018 = 1 not(TMP\_1018) = 0 TMP\_1019 = 2 TMP\_1020 = 0 not(TMP\_1020) = 1 TMP\_1021 = 0 not(TMP\_1021) = 1 TMP\_1022 = 1 not(TMP\_1022) = 0 TMP\_1023 = 1 not(TMP\_1023) = 0 TMP\_1024 = 1 not(TMP\_1024) = 0 TMP\_1025 = 2 TMP\_1026 = 0 not(TMP\_1026) = 1 TMP\_1027 = 1 not(TMP\_1027) = 0 TMP\_1028 = 1 not(TMP\_1028) = 0 TMP\_1029 = 1 not(TMP\_1029) = 0 TMP\_1030 = 1 not(TMP\_1030) = 0 TMP\_1031 = 0 not(TMP\_1031) = 1 TMP\_1032 = 4 TMP\_1033 = 0 not(TMP\_1033) = 1 TMP\_1034 = 0 not(TMP\_1034) = 1 TMP\_1035 = 0 TMP\_1036 = 1 not(TMP\_1036) = 0 TMP\_1037 = 1 not(TMP\_1037) = 0 TMP\_1038 = 2 TMP\_1039 = 0 not(TMP\_1039) = 1 TMP\_1040 = 0 not(TMP\_1040) = 1 TMP\_1041 = 1 not(TMP\_1041) = 0 TMP\_1042 = 1 not(TMP\_1042) = 0 TMP\_1043 = 1 not(TMP\_1043) = 0 TMP\_1044 = 2 Area\_0 = 60 Distance\_0\_Rule\_0 = 20 Distance\_1\_Rule\_0 = 3 Distance\_2\_Rule\_0 = 1 Area\_1 = 174 Distance\_0\_Rule\_1 = 58 Distance\_1\_Rule\_1 = 3 Distance\_2\_Rule\_1 = 1 Area\_2 = 116 Distance\_0\_Rule\_2 = 58 Distance\_1\_Rule\_2 = 2 Distance\_2\_Rule\_2 = 1 Area\_3 = 58 Distance\_0\_Rule\_3 = 58 Distance\_1\_Rule\_3 = 1 Distance\_2\_Rule\_3 = 1 Area\_4 = 120 Distance\_0\_Rule\_4 = 40 Distance\_1\_Rule\_4 = 3 Distance\_2\_Rule\_4 = 1 Area\_5 = 120 Distance\_0\_Rule\_5 = 40 Distance\_1\_Rule\_5 = 3 Distance\_2\_Rule\_5 = 1 Area\_6 = 60 Distance\_0\_Rule\_6 = 20 Distance\_1\_Rule\_6 = 3 Distance\_2\_Rule\_6 = 1 Area\_7 = 3 -(Rule\_7\_LB) = -79 Distance\_0\_Rule\_7 = 1 -(Rule\_7\_LB) = 0 Distance\_1\_Rule\_7 = 3 -(Rule\_7\_LB) = -1 Distance\_2\_Rule\_7 = 1 Area\_8 = 1 -(Rule\_8\_LB) = -79 Distance\_0\_Rule\_8 = 1 -(Rule\_8\_LB) = 0 Distance\_1\_Rule\_8 = 1 -(Rule\_8\_LB) = 0 Distance\_2\_Rule\_8 = 1 Area\_9 = 3 -(Rule\_9\_LB) = -20 Distance\_0\_Rule\_9 = 1 -(Rule\_9\_LB) = 0 Distance\_1\_Rule\_9 = 3 -(Rule\_9\_LB) = 0 Distance\_2\_Rule\_9 = 1 Area\_10 = 3 -(Rule\_10\_LB) = -20 Distance\_0\_Rule\_10 = 1 -(Rule\_10\_LB) = 0 Distance\_1\_Rule\_10 = 3 -(Rule\_10\_LB) = -1 Distance\_2\_Rule\_10 = 1 Area\_11 = 2 -(Rule\_11\_LB) = -79 Distance\_0\_Rule\_11 = 1 -(Rule\_11\_LB) = -1 Distance\_1\_Rule\_11 = 2 -(Rule\_11\_LB) = 0 Distance\_2\_Rule\_11 = 1 TMP\_1045 = 720 .

- Solution #5 found. 5 Solutions, Resolution 1.287s, 1465 Nodes (1,138.4 n/s), 2807 Backtracks, 1405 Fails, 0 Restarts

Rule\_7\_LB = 79 Rule\_7\_UB = 80 Rule\_7\_LB = 0 Rule\_7\_UB = 3 Rule\_7\_LB = 1 Rule\_7\_UB = 2 Rule\_8\_LB = 79 Rule\_8\_UB = 80 Rule\_8\_LB = 0 Rule\_8\_UB = 1 Rule\_8\_LB = 0 Rule\_8\_UB = 1 Rule\_9\_LB = 20 Rule\_9\_UB = 21 Rule\_9\_LB = 0 Rule\_9\_UB = 3 Rule\_9\_LB = 0 Rule\_9\_UB = 1 Rule\_10\_LB = 20 Rule\_10\_UB = 21 Rule\_10\_LB = 0 Rule\_10\_UB = 3 Rule\_10\_LB = 1 Rule\_10\_UB = 2 Rule\_11\_LB = 79 Rule\_11\_UB = 80 Rule\_11\_LB = 1 Rule\_11\_UB = 3 Rule\_11\_LB = 0 Rule\_11\_UB = 1 Overlaps\_0\_0 = 0 Overlaps\_0\_1 = 0 Overlaps\_0\_2 = 0 Overlaps\_0\_3 = 0 Overlaps\_0\_4 = 0 Overlaps\_0\_5 = 0 Overlaps\_0\_6 = 0 Overlaps\_0\_7 = 0 Overlaps\_0\_8 = 0 Overlaps\_0\_9 = 0 Overlaps\_0\_10 = 0 Overlaps\_0\_11 = 0 Overlaps\_1\_0 = 0 Overlaps\_1\_1 = 0 Overlaps\_1\_2 = 0 Overlaps\_1\_3 = 0 Overlaps\_1\_4 = 0 Overlaps\_1\_5 = 0 Overlaps\_1\_6 = 0 Overlaps\_1\_7 = 0 Overlaps\_1\_8 = 0 Overlaps\_1\_9 = 0 Overlaps\_1\_10 = 0 Overlaps\_1\_11 = 0 Overlaps\_2\_0 = 0 Overlaps\_2\_1 = 0 Overlaps\_2\_2 = 0 Overlaps\_2\_3 = 0 Overlaps\_2\_4 = 0 Overlaps\_2\_5 = 0 Overlaps\_2\_6 = 0 Overlaps\_2\_7 = 0 Overlaps\_2\_8 = 0 Overlaps\_2\_9 = 0 Overlaps\_2\_10 = 0 Overlaps\_2\_11 = 0 Overlaps\_3\_0 = 0 Overlaps\_3\_1 = 0 Overlaps\_3\_2 = 0 Overlaps\_3\_3 = 0 Overlaps\_3\_4 = 0 Overlaps\_3\_5 = 0 Overlaps\_3\_6 = 0 Overlaps\_3\_7 = 0 Overlaps\_3\_8 = 0 Overlaps\_3\_9 = 0 Overlaps\_3\_10 = 0 Overlaps\_3\_11 = 0 Overlaps\_4\_0 = 0 Overlaps\_4\_1 = 0 Overlaps\_4\_2 = 0 Overlaps\_4\_3 = 0 Overlaps\_4\_4 = 0 Overlaps\_4\_5 = 0 Overlaps\_4\_6 = 0 Overlaps\_4\_7 = 0 Overlaps\_4\_8 = 0 Overlaps\_4\_9 = 0 Overlaps\_4\_10 = 0 Overlaps\_4\_11 = 0 Overlaps\_5\_0 = 0 Overlaps\_5\_1 = 0 Overlaps\_5\_2 = 0 Overlaps\_5\_3 = 0 Overlaps\_5\_4 = 0 Overlaps\_5\_5 = 0 Overlaps\_5\_6 = 0 Overlaps\_5\_7 = 0 Overlaps\_5\_8 = 0 Overlaps\_5\_9 = 0 Overlaps\_5\_10 = 0 Overlaps\_5\_11 = 0 Overlaps\_6\_0 = 0 Overlaps\_6\_1 = 1 Overlaps\_6\_2 = 0 Overlaps\_6\_3 = 0 Overlaps\_6\_4 = 0 Overlaps\_6\_5 = 0 Overlaps\_6\_6 = 0 Overlaps\_6\_7 = 0 Overlaps\_6\_8 = 0 Overlaps\_6\_9 = 0 Overlaps\_6\_10 = 0 Overlaps\_6\_11 = 0 Overlaps\_7\_0 = 0 Overlaps\_7\_1 = 0 Overlaps\_7\_2 = 0 Overlaps\_7\_3 = 0 Overlaps\_7\_4 = 0 Overlaps\_7\_5 = 0 Overlaps\_7\_6 = 0 Overlaps\_7\_7 = 0 Overlaps\_7\_8 = 0 Overlaps\_7\_9 = 0 Overlaps\_7\_10 = 0 Overlaps\_7\_11 = 0 Overlaps\_8\_0 = 0 Overlaps\_8\_1 = 0 Overlaps\_8\_2 = 0 Overlaps\_8\_3 = 0 Overlaps\_8\_4 = 0 Overlaps\_8\_5 = 0 Overlaps\_8\_6 = 0 Overlaps\_8\_7 = 0 Overlaps\_8\_8 = 0 Overlaps\_8\_9 = 0 Overlaps\_8\_10 = 0 Overlaps\_8\_11 = 0 Overlaps\_9\_0 = 0 Overlaps\_9\_1 = 0 Overlaps\_9\_2 = 0 Overlaps\_9\_3 = 0 Overlaps\_9\_4 = 0 Overlaps\_9\_5 = 0 Overlaps\_9\_6 = 0 Overlaps\_9\_7 = 0 Overlaps\_9\_8 = 0 Overlaps\_9\_9 = 0 Overlaps\_9\_10 = 0 Overlaps\_9\_11 = 0 Overlaps\_10\_0 = 0 Overlaps\_10\_1 = 0 Overlaps\_10\_2 = 0 Overlaps\_10\_3 = 0 Overlaps\_10\_4 = 0 Overlaps\_10\_5 = 0 Overlaps\_10\_6 = 0 Overlaps\_10\_7 = 0 Overlaps\_10\_8 = 0 Overlaps\_10\_9 = 0 Overlaps\_10\_10 = 0 Overlaps\_10\_11 = 0 Overlaps\_11\_0 = 0 Overlaps\_11\_1 = 0 Overlaps\_11\_2 = 0 Overlaps\_11\_3 = 0 Overlaps\_11\_4 = 0 Overlaps\_11\_5 = 0 Overlaps\_11\_6 = 0 Overlaps\_11\_7 = 0 Overlaps\_11\_8 = 0 Overlaps\_11\_9 = 0 Overlaps\_11\_10 = 0 Overlaps\_11\_11 = 0 TMP\_0 = 0 not(TMP\_0) = 1 TMP\_1 = 1 not(TMP\_1) = 0 TMP\_2 = 1 not(TMP\_2) = 0 TMP\_3 = 1 not(TMP\_3) = 0 TMP\_4 = 1 not(TMP\_4) = 0 TMP\_5 = 1 not(TMP\_5) = 0 TMP\_6 = 5 TMP\_7 = 0 not(TMP\_7) = 1 TMP\_8 = 0 not(TMP\_8) = 1 TMP\_9 = 0 TMP\_10 = 1 not(TMP\_10) = 0 TMP\_11 = 1 not(TMP\_11) = 0 TMP\_12 = 2 TMP\_13 = 0 not(TMP\_13) = 1 TMP\_14 = 0 not(TMP\_14) = 1 TMP\_15 = 1 not(TMP\_15) = 0 TMP\_16 = 1 not(TMP\_16) = 0 TMP\_17 = 1 not(TMP\_17) = 0 TMP\_18 = 2 TMP\_19 = 0 not(TMP\_19) = 1 TMP\_20 = 1 not(TMP\_20) = 0 TMP\_21 = 1 not(TMP\_21) = 0 TMP\_22 = 1 not(TMP\_22) = 0 TMP\_23 = 1 not(TMP\_23) = 0 TMP\_24 = 1 not(TMP\_24) = 0 TMP\_25 = 5 TMP\_26 = 0 not(TMP\_26) = 1 TMP\_27 = 0 not(TMP\_27) = 1 TMP\_28 = 0 TMP\_29 = 1 not(TMP\_29) = 0 TMP\_30 = 1 not(TMP\_30) = 0 TMP\_31 = 2 TMP\_32 = 0 not(TMP\_32) = 1 TMP\_33 = 0 not(TMP\_33) = 1 TMP\_34 = 1 not(TMP\_34) = 0 TMP\_35 = 1 not(TMP\_35) = 0 TMP\_36 = 1 not(TMP\_36) = 0 TMP\_37 = 2 TMP\_38 = 0 not(TMP\_38) = 1 TMP\_39 = 1 not(TMP\_39) = 0 TMP\_40 = 1 not(TMP\_40) = 0 TMP\_41 = 1 not(TMP\_41) = 0 TMP\_42 = 0 not(TMP\_42) = 1 TMP\_43 = 1 not(TMP\_43) = 0 TMP\_44 = 4 TMP\_45 = 0 not(TMP\_45) = 1 TMP\_46 = 0 not(TMP\_46) = 1 TMP\_47 = 0 TMP\_48 = 1 not(TMP\_48) = 0 TMP\_49 = 1 not(TMP\_49) = 0 TMP\_50 = 2 TMP\_51 = 0 not(TMP\_51) = 1 TMP\_52 = 0 not(TMP\_52) = 1 TMP\_53 = 1 not(TMP\_53) = 0 TMP\_54 = 1 not(TMP\_54) = 0 TMP\_55 = 1 not(TMP\_55) = 0 TMP\_56 = 2 TMP\_57 = 0 not(TMP\_57) = 1 TMP\_58 = 1 not(TMP\_58) = 0 TMP\_59 = 1 not(TMP\_59) = 0 TMP\_60 = 1 not(TMP\_60) = 0 TMP\_61 = 0 not(TMP\_61) = 1 TMP\_62 = 1 not(TMP\_62) = 0 TMP\_63 = 4 TMP\_64 = 0 not(TMP\_64) = 1 TMP\_65 = 0 not(TMP\_65) = 1 TMP\_66 = 0 TMP\_67 = 1 not(TMP\_67) = 0 TMP\_68 = 1 not(TMP\_68) = 0 TMP\_69 = 2 TMP\_70 = 0 not(TMP\_70) = 1 TMP\_71 = 0 not(TMP\_71) = 1 TMP\_72 = 1 not(TMP\_72) = 0 TMP\_73 = 1 not(TMP\_73) = 0 TMP\_74 = 1 not(TMP\_74) = 0 TMP\_75 = 2 TMP\_76 = 1 not(TMP\_76) = 0 TMP\_77 = 0 not(TMP\_77) = 1 TMP\_78 = 1 not(TMP\_78) = 0 TMP\_79 = 1 not(TMP\_79) = 0 TMP\_80 = 0 not(TMP\_80) = 1 TMP\_81 = 1 not(TMP\_81) = 0 TMP\_82 = 4 TMP\_83 = 0 not(TMP\_83) = 1 TMP\_84 = 0 not(TMP\_84) = 1 TMP\_85 = 0 TMP\_86 = 1 not(TMP\_86) = 0 TMP\_87 = 1 not(TMP\_87) = 0 TMP\_88 = 2 TMP\_89 = 0 not(TMP\_89) = 1 TMP\_90 = 0 not(TMP\_90) = 1 TMP\_91 = 1 not(TMP\_91) = 0 TMP\_92 = 1 not(TMP\_92) = 0 TMP\_93 = 1 not(TMP\_93) = 0 TMP\_94 = 2 TMP\_95 = 1 not(TMP\_95) = 0 TMP\_96 = 0 not(TMP\_96) = 1 TMP\_97 = 1 not(TMP\_97) = 0 TMP\_98 = 1 not(TMP\_98) = 0 TMP\_99 = 1 not(TMP\_99) = 0 TMP\_100 = 1 not(TMP\_100) = 0 TMP\_101 = 5 TMP\_102 = 0 not(TMP\_102) = 1 TMP\_103 = 0 not(TMP\_103) = 1 TMP\_104 = 0 TMP\_105 = 1 not(TMP\_105) = 0 TMP\_106 = 1 not(TMP\_106) = 0 TMP\_107 = 2 TMP\_108 = 0 not(TMP\_108) = 1 TMP\_109 = 0 not(TMP\_109) = 1 TMP\_110 = 1 not(TMP\_110) = 0 TMP\_111 = 1 not(TMP\_111) = 0 TMP\_112 = 1 not(TMP\_112) = 0 TMP\_113 = 2 TMP\_114 = 0 not(TMP\_114) = 1 TMP\_115 = 1 not(TMP\_115) = 0 TMP\_116 = 1 not(TMP\_116) = 0 TMP\_117 = 1 not(TMP\_117) = 0 TMP\_118 = 0 not(TMP\_118) = 1 TMP\_119 = 1 not(TMP\_119) = 0 TMP\_120 = 4 TMP\_121 = 0 not(TMP\_121) = 1 TMP\_122 = 0 not(TMP\_122) = 1 TMP\_123 = 0 TMP\_124 = 1 not(TMP\_124) = 0 TMP\_125 = 1 not(TMP\_125) = 0 TMP\_126 = 2 TMP\_127 = 0 not(TMP\_127) = 1 TMP\_128 = 0 not(TMP\_128) = 1 TMP\_129 = 1 not(TMP\_129) = 0 TMP\_130 = 1 not(TMP\_130) = 0 TMP\_131 = 1 not(TMP\_131) = 0 TMP\_132 = 2 TMP\_133 = 1 not(TMP\_133) = 0 TMP\_134 = 1 not(TMP\_134) = 0 TMP\_135 = 1 not(TMP\_135) = 0 TMP\_136 = 1 not(TMP\_136) = 0 TMP\_137 = 0 not(TMP\_137) = 1 TMP\_138 = 1 not(TMP\_138) = 0 TMP\_139 = 5 TMP\_140 = 0 not(TMP\_140) = 1 TMP\_141 = 0 not(TMP\_141) = 1 TMP\_142 = 0 TMP\_143 = 1 not(TMP\_143) = 0 TMP\_144 = 1 not(TMP\_144) = 0 TMP\_145 = 2 TMP\_146 = 0 not(TMP\_146) = 1 TMP\_147 = 0 not(TMP\_147) = 1 TMP\_148 = 1 not(TMP\_148) = 0 TMP\_149 = 1 not(TMP\_149) = 0 TMP\_150 = 1 not(TMP\_150) = 0 TMP\_151 = 2 TMP\_152 = 0 not(TMP\_152) = 1 TMP\_153 = 1 not(TMP\_153) = 0 TMP\_154 = 1 not(TMP\_154) = 0 TMP\_155 = 1 not(TMP\_155) = 0 TMP\_156 = 0 not(TMP\_156) = 1 TMP\_157 = 1 not(TMP\_157) = 0 TMP\_158 = 4 TMP\_159 = 0 not(TMP\_159) = 1 TMP\_160 = 0 not(TMP\_160) = 1 TMP\_161 = 0 TMP\_162 = 1 not(TMP\_162) = 0 TMP\_163 = 1 not(TMP\_163) = 0 TMP\_164 = 2 TMP\_165 = 0 not(TMP\_165) = 1 TMP\_166 = 0 not(TMP\_166) = 1 TMP\_167 = 1 not(TMP\_167) = 0 TMP\_168 = 1 not(TMP\_168) = 0 TMP\_169 = 1 not(TMP\_169) = 0 TMP\_170 = 2 TMP\_171 = 0 not(TMP\_171) = 1 TMP\_172 = 1 not(TMP\_172) = 0 TMP\_173 = 1 not(TMP\_173) = 0 TMP\_174 = 1 not(TMP\_174) = 0 TMP\_175 = 1 not(TMP\_175) = 0 TMP\_176 = 1 not(TMP\_176) = 0 TMP\_177 = 5 TMP\_178 = 0 not(TMP\_178) = 1 TMP\_179 = 0 not(TMP\_179) = 1 TMP\_180 = 0 TMP\_181 = 1 not(TMP\_181) = 0 TMP\_182 = 1 not(TMP\_182) = 0 TMP\_183 = 2 TMP\_184 = 0 not(TMP\_184) = 1 TMP\_185 = 0 not(TMP\_185) = 1 TMP\_186 = 1 not(TMP\_186) = 0 TMP\_187 = 1 not(TMP\_187) = 0 TMP\_188 = 1 not(TMP\_188) = 0 TMP\_189 = 2 TMP\_190 = 1 not(TMP\_190) = 0 TMP\_191 = 1 not(TMP\_191) = 0 TMP\_192 = 1 not(TMP\_192) = 0 TMP\_193 = 1 not(TMP\_193) = 0 TMP\_194 = 0 not(TMP\_194) = 1 TMP\_195 = 1 not(TMP\_195) = 0 TMP\_196 = 5 TMP\_197 = 0 not(TMP\_197) = 1 TMP\_198 = 0 not(TMP\_198) = 1 TMP\_199 = 0 TMP\_200 = 1 not(TMP\_200) = 0 TMP\_201 = 1 not(TMP\_201) = 0 TMP\_202 = 2 TMP\_203 = 0 not(TMP\_203) = 1 TMP\_204 = 0 not(TMP\_204) = 1 TMP\_205 = 1 not(TMP\_205) = 0 TMP\_206 = 1 not(TMP\_206) = 0 TMP\_207 = 1 not(TMP\_207) = 0 TMP\_208 = 2 TMP\_209 = 0 not(TMP\_209) = 1 TMP\_210 = 1 not(TMP\_210) = 0 TMP\_211 = 1 not(TMP\_211) = 0 TMP\_212 = 1 not(TMP\_212) = 0 TMP\_213 = 1 not(TMP\_213) = 0 TMP\_214 = 0 not(TMP\_214) = 1 TMP\_215 = 4 TMP\_216 = 0 not(TMP\_216) = 1 TMP\_217 = 0 not(TMP\_217) = 1 TMP\_218 = 0 TMP\_219 = 1 not(TMP\_219) = 0 TMP\_220 = 1 not(TMP\_220) = 0 TMP\_221 = 2 TMP\_222 = 0 not(TMP\_222) = 1 TMP\_223 = 0 not(TMP\_223) = 1 TMP\_224 = 1 not(TMP\_224) = 0 TMP\_225 = 1 not(TMP\_225) = 0 TMP\_226 = 1 not(TMP\_226) = 0 TMP\_227 = 2 TMP\_228 = 0 not(TMP\_228) = 1 TMP\_229 = 1 not(TMP\_229) = 0 TMP\_230 = 1 not(TMP\_230) = 0 TMP\_231 = 1 not(TMP\_231) = 0 TMP\_232 = 1 not(TMP\_232) = 0 TMP\_233 = 0 not(TMP\_233) = 1 TMP\_234 = 4 TMP\_235 = 0 not(TMP\_235) = 1 TMP\_236 = 0 not(TMP\_236) = 1 TMP\_237 = 0 TMP\_238 = 1 not(TMP\_238) = 0 TMP\_239 = 1 not(TMP\_239) = 0 TMP\_240 = 2 TMP\_241 = 0 not(TMP\_241) = 1 TMP\_242 = 0 not(TMP\_242) = 1 TMP\_243 = 1 not(TMP\_243) = 0 TMP\_244 = 1 not(TMP\_244) = 0 TMP\_245 = 1 not(TMP\_245) = 0 TMP\_246 = 2 TMP\_247 = 0 not(TMP\_247) = 1 TMP\_248 = 1 not(TMP\_248) = 0 TMP\_249 = 1 not(TMP\_249) = 0 TMP\_250 = 0 not(TMP\_250) = 1 TMP\_251 = 1 not(TMP\_251) = 0 TMP\_252 = 1 not(TMP\_252) = 0 TMP\_253 = 4 TMP\_254 = 0 not(TMP\_254) = 1 TMP\_255 = 0 not(TMP\_255) = 1 TMP\_256 = 0 TMP\_257 = 1 not(TMP\_257) = 0 TMP\_258 = 1 not(TMP\_258) = 0 TMP\_259 = 2 TMP\_260 = 0 not(TMP\_260) = 1 TMP\_261 = 0 not(TMP\_261) = 1 TMP\_262 = 1 not(TMP\_262) = 0 TMP\_263 = 1 not(TMP\_263) = 0 TMP\_264 = 1 not(TMP\_264) = 0 TMP\_265 = 2 TMP\_266 = 0 not(TMP\_266) = 1 TMP\_267 = 1 not(TMP\_267) = 0 TMP\_268 = 1 not(TMP\_268) = 0 TMP\_269 = 1 not(TMP\_269) = 0 TMP\_270 = 1 not(TMP\_270) = 0 TMP\_271 = 1 not(TMP\_271) = 0 TMP\_272 = 5 TMP\_273 = 0 not(TMP\_273) = 1 TMP\_274 = 0 not(TMP\_274) = 1 TMP\_275 = 0 TMP\_276 = 1 not(TMP\_276) = 0 TMP\_277 = 1 not(TMP\_277) = 0 TMP\_278 = 2 TMP\_279 = 0 not(TMP\_279) = 1 TMP\_280 = 0 not(TMP\_280) = 1 TMP\_281 = 1 not(TMP\_281) = 0 TMP\_282 = 1 not(TMP\_282) = 0 TMP\_283 = 1 not(TMP\_283) = 0 TMP\_284 = 2 TMP\_285 = 1 not(TMP\_285) = 0 TMP\_286 = 0 not(TMP\_286) = 1 TMP\_287 = 1 not(TMP\_287) = 0 TMP\_288 = 1 not(TMP\_288) = 0 TMP\_289 = 1 not(TMP\_289) = 0 TMP\_290 = 1 not(TMP\_290) = 0 TMP\_291 = 5 TMP\_292 = 0 not(TMP\_292) = 1 TMP\_293 = 0 not(TMP\_293) = 1 TMP\_294 = 0 TMP\_295 = 1 not(TMP\_295) = 0 TMP\_296 = 1 not(TMP\_296) = 0 TMP\_297 = 2 TMP\_298 = 0 not(TMP\_298) = 1 TMP\_299 = 0 not(TMP\_299) = 1 TMP\_300 = 1 not(TMP\_300) = 0 TMP\_301 = 1 not(TMP\_301) = 0 TMP\_302 = 1 not(TMP\_302) = 0 TMP\_303 = 2 TMP\_304 = 1 not(TMP\_304) = 0 TMP\_305 = 0 not(TMP\_305) = 1 TMP\_306 = 1 not(TMP\_306) = 0 TMP\_307 = 1 not(TMP\_307) = 0 TMP\_308 = 1 not(TMP\_308) = 0 TMP\_309 = 0 not(TMP\_309) = 1 TMP\_310 = 4 TMP\_311 = 0 not(TMP\_311) = 1 TMP\_312 = 0 not(TMP\_312) = 1 TMP\_313 = 0 TMP\_314 = 1 not(TMP\_314) = 0 TMP\_315 = 1 not(TMP\_315) = 0 TMP\_316 = 2 TMP\_317 = 0 not(TMP\_317) = 1 TMP\_318 = 0 not(TMP\_318) = 1 TMP\_319 = 1 not(TMP\_319) = 0 TMP\_320 = 1 not(TMP\_320) = 0 TMP\_321 = 1 not(TMP\_321) = 0 TMP\_322 = 2 TMP\_323 = 0 not(TMP\_323) = 1 TMP\_324 = 1 not(TMP\_324) = 0 TMP\_325 = 1 not(TMP\_325) = 0 TMP\_326 = 1 not(TMP\_326) = 0 TMP\_327 = 1 not(TMP\_327) = 0 TMP\_328 = 1 not(TMP\_328) = 0 TMP\_329 = 5 TMP\_330 = 0 not(TMP\_330) = 1 TMP\_331 = 0 not(TMP\_331) = 1 TMP\_332 = 0 TMP\_333 = 1 not(TMP\_333) = 0 TMP\_334 = 1 not(TMP\_334) = 0 TMP\_335 = 2 TMP\_336 = 0 not(TMP\_336) = 1 TMP\_337 = 0 not(TMP\_337) = 1 TMP\_338 = 1 not(TMP\_338) = 0 TMP\_339 = 1 not(TMP\_339) = 0 TMP\_340 = 1 not(TMP\_340) = 0 TMP\_341 = 2 TMP\_342 = 1 not(TMP\_342) = 0 TMP\_343 = 1 not(TMP\_343) = 0 TMP\_344 = 1 not(TMP\_344) = 0 TMP\_345 = 1 not(TMP\_345) = 0 TMP\_346 = 1 not(TMP\_346) = 0 TMP\_347 = 0 not(TMP\_347) = 1 TMP\_348 = 5 TMP\_349 = 0 not(TMP\_349) = 1 TMP\_350 = 0 not(TMP\_350) = 1 TMP\_351 = 0 TMP\_352 = 1 not(TMP\_352) = 0 TMP\_353 = 1 not(TMP\_353) = 0 TMP\_354 = 2 TMP\_355 = 0 not(TMP\_355) = 1 TMP\_356 = 0 not(TMP\_356) = 1 TMP\_357 = 1 not(TMP\_357) = 0 TMP\_358 = 1 not(TMP\_358) = 0 TMP\_359 = 1 not(TMP\_359) = 0 TMP\_360 = 2 TMP\_361 = 0 not(TMP\_361) = 1 TMP\_362 = 1 not(TMP\_362) = 0 TMP\_363 = 1 not(TMP\_363) = 0 TMP\_364 = 1 not(TMP\_364) = 0 TMP\_365 = 1 not(TMP\_365) = 0 TMP\_366 = 1 not(TMP\_366) = 0 TMP\_367 = 5 TMP\_368 = 0 not(TMP\_368) = 1 TMP\_369 = 0 not(TMP\_369) = 1 TMP\_370 = 0 TMP\_371 = 1 not(TMP\_371) = 0 TMP\_372 = 1 not(TMP\_372) = 0 TMP\_373 = 2 TMP\_374 = 0 not(TMP\_374) = 1 TMP\_375 = 0 not(TMP\_375) = 1 TMP\_376 = 1 not(TMP\_376) = 0 TMP\_377 = 1 not(TMP\_377) = 0 TMP\_378 = 1 not(TMP\_378) = 0 TMP\_379 = 2 TMP\_380 = 0 not(TMP\_380) = 1 TMP\_381 = 1 not(TMP\_381) = 0 TMP\_382 = 1 not(TMP\_382) = 0 TMP\_383 = 1 not(TMP\_383) = 0 TMP\_384 = 1 not(TMP\_384) = 0 TMP\_385 = 0 not(TMP\_385) = 1 TMP\_386 = 4 TMP\_387 = 0 not(TMP\_387) = 1 TMP\_388 = 0 not(TMP\_388) = 1 TMP\_389 = 0 TMP\_390 = 1 not(TMP\_390) = 0 TMP\_391 = 1 not(TMP\_391) = 0 TMP\_392 = 2 TMP\_393 = 0 not(TMP\_393) = 1 TMP\_394 = 0 not(TMP\_394) = 1 TMP\_395 = 1 not(TMP\_395) = 0 TMP\_396 = 1 not(TMP\_396) = 0 TMP\_397 = 1 not(TMP\_397) = 0 TMP\_398 = 2 TMP\_399 = 1 not(TMP\_399) = 0 TMP\_400 = 1 not(TMP\_400) = 0 TMP\_401 = 1 not(TMP\_401) = 0 TMP\_402 = 0 not(TMP\_402) = 1 TMP\_403 = 1 not(TMP\_403) = 0 TMP\_404 = 1 not(TMP\_404) = 0 TMP\_405 = 5 TMP\_406 = 0 not(TMP\_406) = 1 TMP\_407 = 0 not(TMP\_407) = 1 TMP\_408 = 0 TMP\_409 = 1 not(TMP\_409) = 0 TMP\_410 = 1 not(TMP\_410) = 0 TMP\_411 = 2 TMP\_412 = 0 not(TMP\_412) = 1 TMP\_413 = 0 not(TMP\_413) = 1 TMP\_414 = 1 not(TMP\_414) = 0 TMP\_415 = 1 not(TMP\_415) = 0 TMP\_416 = 1 not(TMP\_416) = 0 TMP\_417 = 2 TMP\_418 = 0 not(TMP\_418) = 1 TMP\_419 = 1 not(TMP\_419) = 0 TMP\_420 = 1 not(TMP\_420) = 0 TMP\_421 = 1 not(TMP\_421) = 0 TMP\_422 = 1 not(TMP\_422) = 0 TMP\_423 = 0 not(TMP\_423) = 1 TMP\_424 = 4 TMP\_425 = 0 not(TMP\_425) = 1 TMP\_426 = 0 not(TMP\_426) = 1 TMP\_427 = 0 TMP\_428 = 1 not(TMP\_428) = 0 TMP\_429 = 1 not(TMP\_429) = 0 TMP\_430 = 2 TMP\_431 = 0 not(TMP\_431) = 1 TMP\_432 = 0 not(TMP\_432) = 1 TMP\_433 = 1 not(TMP\_433) = 0 TMP\_434 = 1 not(TMP\_434) = 0 TMP\_435 = 1 not(TMP\_435) = 0 TMP\_436 = 2 TMP\_437 = 1 not(TMP\_437) = 0 TMP\_438 = 0 not(TMP\_438) = 1 TMP\_439 = 1 not(TMP\_439) = 0 TMP\_440 = 1 not(TMP\_440) = 0 TMP\_441 = 1 not(TMP\_441) = 0 TMP\_442 = 0 not(TMP\_442) = 1 TMP\_443 = 4 TMP\_444 = 0 not(TMP\_444) = 1 TMP\_445 = 0 not(TMP\_445) = 1 TMP\_446 = 0 TMP\_447 = 1 not(TMP\_447) = 0 TMP\_448 = 1 not(TMP\_448) = 0 TMP\_449 = 2 TMP\_450 = 0 not(TMP\_450) = 1 TMP\_451 = 0 not(TMP\_451) = 1 TMP\_452 = 1 not(TMP\_452) = 0 TMP\_453 = 1 not(TMP\_453) = 0 TMP\_454 = 1 not(TMP\_454) = 0 TMP\_455 = 2 TMP\_456 = 1 not(TMP\_456) = 0 TMP\_457 = 0 not(TMP\_457) = 1 TMP\_458 = 1 not(TMP\_458) = 0 TMP\_459 = 1 not(TMP\_459) = 0 TMP\_460 = 1 not(TMP\_460) = 0 TMP\_461 = 1 not(TMP\_461) = 0 TMP\_462 = 5 TMP\_463 = 0 not(TMP\_463) = 1 TMP\_464 = 0 not(TMP\_464) = 1 TMP\_465 = 0 TMP\_466 = 1 not(TMP\_466) = 0 TMP\_467 = 1 not(TMP\_467) = 0 TMP\_468 = 2 TMP\_469 = 0 not(TMP\_469) = 1 TMP\_470 = 0 not(TMP\_470) = 1 TMP\_471 = 1 not(TMP\_471) = 0 TMP\_472 = 1 not(TMP\_472) = 0 TMP\_473 = 1 not(TMP\_473) = 0 TMP\_474 = 2 TMP\_475 = 1 not(TMP\_475) = 0 TMP\_476 = 0 not(TMP\_476) = 1 TMP\_477 = 1 not(TMP\_477) = 0 TMP\_478 = 1 not(TMP\_478) = 0 TMP\_479 = 1 not(TMP\_479) = 0 TMP\_480 = 1 not(TMP\_480) = 0 TMP\_481 = 5 TMP\_482 = 0 not(TMP\_482) = 1 TMP\_483 = 0 not(TMP\_483) = 1 TMP\_484 = 0 TMP\_485 = 1 not(TMP\_485) = 0 TMP\_486 = 1 not(TMP\_486) = 0 TMP\_487 = 2 TMP\_488 = 0 not(TMP\_488) = 1 TMP\_489 = 0 not(TMP\_489) = 1 TMP\_490 = 1 not(TMP\_490) = 0 TMP\_491 = 1 not(TMP\_491) = 0 TMP\_492 = 1 not(TMP\_492) = 0 TMP\_493 = 2 TMP\_494 = 1 not(TMP\_494) = 0 TMP\_495 = 0 not(TMP\_495) = 1 TMP\_496 = 1 not(TMP\_496) = 0 TMP\_497 = 1 not(TMP\_497) = 0 TMP\_498 = 1 not(TMP\_498) = 0 TMP\_499 = 1 not(TMP\_499) = 0 TMP\_500 = 5 TMP\_501 = 0 not(TMP\_501) = 1 TMP\_502 = 0 not(TMP\_502) = 1 TMP\_503 = 0 TMP\_504 = 1 not(TMP\_504) = 0 TMP\_505 = 1 not(TMP\_505) = 0 TMP\_506 = 2 TMP\_507 = 0 not(TMP\_507) = 1 TMP\_508 = 0 not(TMP\_508) = 1 TMP\_509 = 1 not(TMP\_509) = 0 TMP\_510 = 1 not(TMP\_510) = 0 TMP\_511 = 1 not(TMP\_511) = 0 TMP\_512 = 2 TMP\_513 = 1 not(TMP\_513) = 0 TMP\_514 = 0 not(TMP\_514) = 1 TMP\_515 = 1 not(TMP\_515) = 0 TMP\_516 = 1 not(TMP\_516) = 0 TMP\_517 = 1 not(TMP\_517) = 0 TMP\_518 = 0 not(TMP\_518) = 1 TMP\_519 = 4 TMP\_520 = 0 not(TMP\_520) = 1 TMP\_521 = 0 not(TMP\_521) = 1 TMP\_522 = 0 TMP\_523 = 1 not(TMP\_523) = 0 TMP\_524 = 1 not(TMP\_524) = 0 TMP\_525 = 2 TMP\_526 = 0 not(TMP\_526) = 1 TMP\_527 = 0 not(TMP\_527) = 1 TMP\_528 = 1 not(TMP\_528) = 0 TMP\_529 = 1 not(TMP\_529) = 0 TMP\_530 = 1 not(TMP\_530) = 0 TMP\_531 = 2 TMP\_532 = 0 not(TMP\_532) = 1 TMP\_533 = 1 not(TMP\_533) = 0 TMP\_534 = 1 not(TMP\_534) = 0 TMP\_535 = 1 not(TMP\_535) = 0 TMP\_536 = 1 not(TMP\_536) = 0 TMP\_537 = 1 not(TMP\_537) = 0 TMP\_538 = 5 TMP\_539 = 0 not(TMP\_539) = 1 TMP\_540 = 0 not(TMP\_540) = 1 TMP\_541 = 0 TMP\_542 = 1 not(TMP\_542) = 0 TMP\_543 = 1 not(TMP\_543) = 0 TMP\_544 = 2 TMP\_545 = 0 not(TMP\_545) = 1 TMP\_546 = 0 not(TMP\_546) = 1 TMP\_547 = 1 not(TMP\_547) = 0 TMP\_548 = 1 not(TMP\_548) = 0 TMP\_549 = 1 not(TMP\_549) = 0 TMP\_550 = 2 TMP\_551 = 1 not(TMP\_551) = 0 TMP\_552 = 0 not(TMP\_552) = 1 TMP\_553 = 1 not(TMP\_553) = 0 TMP\_554 = 1 not(TMP\_554) = 0 TMP\_555 = 1 not(TMP\_555) = 0 TMP\_556 = 0 not(TMP\_556) = 1 TMP\_557 = 4 TMP\_558 = 0 not(TMP\_558) = 1 TMP\_559 = 0 not(TMP\_559) = 1 TMP\_560 = 0 TMP\_561 = 1 not(TMP\_561) = 0 TMP\_562 = 1 not(TMP\_562) = 0 TMP\_563 = 2 TMP\_564 = 0 not(TMP\_564) = 1 TMP\_565 = 0 not(TMP\_565) = 1 TMP\_566 = 1 not(TMP\_566) = 0 TMP\_567 = 1 not(TMP\_567) = 0 TMP\_568 = 1 not(TMP\_568) = 0 TMP\_569 = 2 TMP\_570 = 1 not(TMP\_570) = 0 TMP\_571 = 0 not(TMP\_571) = 1 TMP\_572 = 1 not(TMP\_572) = 0 TMP\_573 = 1 not(TMP\_573) = 0 TMP\_574 = 1 not(TMP\_574) = 0 TMP\_575 = 1 not(TMP\_575) = 0 TMP\_576 = 5 TMP\_577 = 0 not(TMP\_577) = 1 TMP\_578 = 0 not(TMP\_578) = 1 TMP\_579 = 0 TMP\_580 = 1 not(TMP\_580) = 0 TMP\_581 = 1 not(TMP\_581) = 0 TMP\_582 = 2 TMP\_583 = 0 not(TMP\_583) = 1 TMP\_584 = 0 not(TMP\_584) = 1 TMP\_585 = 1 not(TMP\_585) = 0 TMP\_586 = 1 not(TMP\_586) = 0 TMP\_587 = 1 not(TMP\_587) = 0 TMP\_588 = 2 TMP\_589 = 1 not(TMP\_589) = 0 TMP\_590 = 1 not(TMP\_590) = 0 TMP\_591 = 1 not(TMP\_591) = 0 TMP\_592 = 1 not(TMP\_592) = 0 TMP\_593 = 1 not(TMP\_593) = 0 TMP\_594 = 0 not(TMP\_594) = 1 TMP\_595 = 5 TMP\_596 = 0 not(TMP\_596) = 1 TMP\_597 = 0 not(TMP\_597) = 1 TMP\_598 = 0 TMP\_599 = 1 not(TMP\_599) = 0 TMP\_600 = 1 not(TMP\_600) = 0 TMP\_601 = 2 TMP\_602 = 0 not(TMP\_602) = 1 TMP\_603 = 0 not(TMP\_603) = 1 TMP\_604 = 1 not(TMP\_604) = 0 TMP\_605 = 1 not(TMP\_605) = 0 TMP\_606 = 1 not(TMP\_606) = 0 TMP\_607 = 2 TMP\_608 = 1 not(TMP\_608) = 0 TMP\_609 = 0 not(TMP\_609) = 1 TMP\_610 = 1 not(TMP\_610) = 0 TMP\_611 = 1 not(TMP\_611) = 0 TMP\_612 = 1 not(TMP\_612) = 0 TMP\_613 = 1 not(TMP\_613) = 0 TMP\_614 = 5 TMP\_615 = 0 not(TMP\_615) = 1 TMP\_616 = 0 not(TMP\_616) = 1 TMP\_617 = 0 TMP\_618 = 1 not(TMP\_618) = 0 TMP\_619 = 1 not(TMP\_619) = 0 TMP\_620 = 2 TMP\_621 = 0 not(TMP\_621) = 1 TMP\_622 = 0 not(TMP\_622) = 1 TMP\_623 = 1 not(TMP\_623) = 0 TMP\_624 = 1 not(TMP\_624) = 0 TMP\_625 = 1 not(TMP\_625) = 0 TMP\_626 = 2 TMP\_627 = 0 not(TMP\_627) = 1 TMP\_628 = 1 not(TMP\_628) = 0 TMP\_629 = 1 not(TMP\_629) = 0 TMP\_630 = 1 not(TMP\_630) = 0 TMP\_631 = 1 not(TMP\_631) = 0 TMP\_632 = 1 not(TMP\_632) = 0 TMP\_633 = 5 TMP\_634 = 0 not(TMP\_634) = 1 TMP\_635 = 0 not(TMP\_635) = 1 TMP\_636 = 0 TMP\_637 = 1 not(TMP\_637) = 0 TMP\_638 = 1 not(TMP\_638) = 0 TMP\_639 = 2 TMP\_640 = 0 not(TMP\_640) = 1 TMP\_641 = 0 not(TMP\_641) = 1 TMP\_642 = 1 not(TMP\_642) = 0 TMP\_643 = 1 not(TMP\_643) = 0 TMP\_644 = 1 not(TMP\_644) = 0 TMP\_645 = 2 TMP\_646 = 1 not(TMP\_646) = 0 TMP\_647 = 0 not(TMP\_647) = 1 TMP\_648 = 1 not(TMP\_648) = 0 TMP\_649 = 1 not(TMP\_649) = 0 TMP\_650 = 1 not(TMP\_650) = 0 TMP\_651 = 1 not(TMP\_651) = 0 TMP\_652 = 5 TMP\_653 = 0 not(TMP\_653) = 1 TMP\_654 = 0 not(TMP\_654) = 1 TMP\_655 = 0 TMP\_656 = 1 not(TMP\_656) = 0 TMP\_657 = 1 not(TMP\_657) = 0 TMP\_658 = 2 TMP\_659 = 0 not(TMP\_659) = 1 TMP\_660 = 0 not(TMP\_660) = 1 TMP\_661 = 1 not(TMP\_661) = 0 TMP\_662 = 1 not(TMP\_662) = 0 TMP\_663 = 1 not(TMP\_663) = 0 TMP\_664 = 2 TMP\_665 = 1 not(TMP\_665) = 0 TMP\_666 = 0 not(TMP\_666) = 1 TMP\_667 = 1 not(TMP\_667) = 0 TMP\_668 = 1 not(TMP\_668) = 0 TMP\_669 = 0 not(TMP\_669) = 1 TMP\_670 = 1 not(TMP\_670) = 0 TMP\_671 = 4 TMP\_672 = 0 not(TMP\_672) = 1 TMP\_673 = 0 not(TMP\_673) = 1 TMP\_674 = 0 TMP\_675 = 1 not(TMP\_675) = 0 TMP\_676 = 1 not(TMP\_676) = 0 TMP\_677 = 2 TMP\_678 = 0 not(TMP\_678) = 1 TMP\_679 = 0 not(TMP\_679) = 1 TMP\_680 = 1 not(TMP\_680) = 0 TMP\_681 = 1 not(TMP\_681) = 0 TMP\_682 = 1 not(TMP\_682) = 0 TMP\_683 = 2 TMP\_684 = 1 not(TMP\_684) = 0 TMP\_685 = 0 not(TMP\_685) = 1 TMP\_686 = 1 not(TMP\_686) = 0 TMP\_687 = 1 not(TMP\_687) = 0 TMP\_688 = 0 not(TMP\_688) = 1 TMP\_689 = 1 not(TMP\_689) = 0 TMP\_690 = 4 TMP\_691 = 0 not(TMP\_691) = 1 TMP\_692 = 0 not(TMP\_692) = 1 TMP\_693 = 0 TMP\_694 = 1 not(TMP\_694) = 0 TMP\_695 = 1 not(TMP\_695) = 0 TMP\_696 = 2 TMP\_697 = 0 not(TMP\_697) = 1 TMP\_698 = 0 not(TMP\_698) = 1 TMP\_699 = 1 not(TMP\_699) = 0 TMP\_700 = 1 not(TMP\_700) = 0 TMP\_701 = 1 not(TMP\_701) = 0 TMP\_702 = 2 TMP\_703 = 1 not(TMP\_703) = 0 TMP\_704 = 0 not(TMP\_704) = 1 TMP\_705 = 1 not(TMP\_705) = 0 TMP\_706 = 1 not(TMP\_706) = 0 TMP\_707 = 0 not(TMP\_707) = 1 TMP\_708 = 1 not(TMP\_708) = 0 TMP\_709 = 4 TMP\_710 = 0 not(TMP\_710) = 1 TMP\_711 = 0 not(TMP\_711) = 1 TMP\_712 = 0 TMP\_713 = 1 not(TMP\_713) = 0 TMP\_714 = 1 not(TMP\_714) = 0 TMP\_715 = 2 TMP\_716 = 0 not(TMP\_716) = 1 TMP\_717 = 0 not(TMP\_717) = 1 TMP\_718 = 1 not(TMP\_718) = 0 TMP\_719 = 1 not(TMP\_719) = 0 TMP\_720 = 1 not(TMP\_720) = 0 TMP\_721 = 2 TMP\_722 = 1 not(TMP\_722) = 0 TMP\_723 = 0 not(TMP\_723) = 1 TMP\_724 = 1 not(TMP\_724) = 0 TMP\_725 = 1 not(TMP\_725) = 0 TMP\_726 = 1 not(TMP\_726) = 0 TMP\_727 = 1 not(TMP\_727) = 0 TMP\_728 = 5 TMP\_729 = 0 not(TMP\_729) = 1 TMP\_730 = 0 not(TMP\_730) = 1 TMP\_731 = 0 TMP\_732 = 1 not(TMP\_732) = 0 TMP\_733 = 1 not(TMP\_733) = 0 TMP\_734 = 2 TMP\_735 = 0 not(TMP\_735) = 1 TMP\_736 = 0 not(TMP\_736) = 1 TMP\_737 = 1 not(TMP\_737) = 0 TMP\_738 = 1 not(TMP\_738) = 0 TMP\_739 = 1 not(TMP\_739) = 0 TMP\_740 = 2 TMP\_741 = 0 not(TMP\_741) = 1 TMP\_742 = 1 not(TMP\_742) = 0 TMP\_743 = 1 not(TMP\_743) = 0 TMP\_744 = 1 not(TMP\_744) = 0 TMP\_745 = 0 not(TMP\_745) = 1 TMP\_746 = 1 not(TMP\_746) = 0 TMP\_747 = 4 TMP\_748 = 0 not(TMP\_748) = 1 TMP\_749 = 0 not(TMP\_749) = 1 TMP\_750 = 0 TMP\_751 = 1 not(TMP\_751) = 0 TMP\_752 = 1 not(TMP\_752) = 0 TMP\_753 = 2 TMP\_754 = 0 not(TMP\_754) = 1 TMP\_755 = 0 not(TMP\_755) = 1 TMP\_756 = 1 not(TMP\_756) = 0 TMP\_757 = 1 not(TMP\_757) = 0 TMP\_758 = 1 not(TMP\_758) = 0 TMP\_759 = 2 TMP\_760 = 1 not(TMP\_760) = 0 TMP\_761 = 0 not(TMP\_761) = 1 TMP\_762 = 1 not(TMP\_762) = 0 TMP\_763 = 1 not(TMP\_763) = 0 TMP\_764 = 1 not(TMP\_764) = 0 TMP\_765 = 1 not(TMP\_765) = 0 TMP\_766 = 5 TMP\_767 = 0 not(TMP\_767) = 1 TMP\_768 = 0 not(TMP\_768) = 1 TMP\_769 = 0 TMP\_770 = 1 not(TMP\_770) = 0 TMP\_771 = 1 not(TMP\_771) = 0 TMP\_772 = 2 TMP\_773 = 0 not(TMP\_773) = 1 TMP\_774 = 0 not(TMP\_774) = 1 TMP\_775 = 1 not(TMP\_775) = 0 TMP\_776 = 1 not(TMP\_776) = 0 TMP\_777 = 1 not(TMP\_777) = 0 TMP\_778 = 2 TMP\_779 = 1 not(TMP\_779) = 0 TMP\_780 = 0 not(TMP\_780) = 1 TMP\_781 = 1 not(TMP\_781) = 0 TMP\_782 = 1 not(TMP\_782) = 0 TMP\_783 = 0 not(TMP\_783) = 1 TMP\_784 = 1 not(TMP\_784) = 0 TMP\_785 = 4 TMP\_786 = 0 not(TMP\_786) = 1 TMP\_787 = 0 not(TMP\_787) = 1 TMP\_788 = 0 TMP\_789 = 1 not(TMP\_789) = 0 TMP\_790 = 1 not(TMP\_790) = 0 TMP\_791 = 2 TMP\_792 = 0 not(TMP\_792) = 1 TMP\_793 = 0 not(TMP\_793) = 1 TMP\_794 = 1 not(TMP\_794) = 0 TMP\_795 = 1 not(TMP\_795) = 0 TMP\_796 = 1 not(TMP\_796) = 0 TMP\_797 = 2 TMP\_798 = 1 not(TMP\_798) = 0 TMP\_799 = 1 not(TMP\_799) = 0 TMP\_800 = 1 not(TMP\_800) = 0 TMP\_801 = 1 not(TMP\_801) = 0 TMP\_802 = 0 not(TMP\_802) = 1 TMP\_803 = 1 not(TMP\_803) = 0 TMP\_804 = 5 TMP\_805 = 0 not(TMP\_805) = 1 TMP\_806 = 0 not(TMP\_806) = 1 TMP\_807 = 0 TMP\_808 = 1 not(TMP\_808) = 0 TMP\_809 = 1 not(TMP\_809) = 0 TMP\_810 = 2 TMP\_811 = 0 not(TMP\_811) = 1 TMP\_812 = 0 not(TMP\_812) = 1 TMP\_813 = 1 not(TMP\_813) = 0 TMP\_814 = 1 not(TMP\_814) = 0 TMP\_815 = 1 not(TMP\_815) = 0 TMP\_816 = 2 TMP\_817 = 1 not(TMP\_817) = 0 TMP\_818 = 0 not(TMP\_818) = 1 TMP\_819 = 1 not(TMP\_819) = 0 TMP\_820 = 1 not(TMP\_820) = 0 TMP\_821 = 0 not(TMP\_821) = 1 TMP\_822 = 1 not(TMP\_822) = 0 TMP\_823 = 4 TMP\_824 = 0 not(TMP\_824) = 1 TMP\_825 = 0 not(TMP\_825) = 1 TMP\_826 = 0 TMP\_827 = 1 not(TMP\_827) = 0 TMP\_828 = 1 not(TMP\_828) = 0 TMP\_829 = 2 TMP\_830 = 0 not(TMP\_830) = 1 TMP\_831 = 0 not(TMP\_831) = 1 TMP\_832 = 1 not(TMP\_832) = 0 TMP\_833 = 1 not(TMP\_833) = 0 TMP\_834 = 1 not(TMP\_834) = 0 TMP\_835 = 2 TMP\_836 = 0 not(TMP\_836) = 1 TMP\_837 = 1 not(TMP\_837) = 0 TMP\_838 = 1 not(TMP\_838) = 0 TMP\_839 = 1 not(TMP\_839) = 0 TMP\_840 = 1 not(TMP\_840) = 0 TMP\_841 = 0 not(TMP\_841) = 1 TMP\_842 = 4 TMP\_843 = 0 not(TMP\_843) = 1 TMP\_844 = 0 not(TMP\_844) = 1 TMP\_845 = 0 TMP\_846 = 1 not(TMP\_846) = 0 TMP\_847 = 1 not(TMP\_847) = 0 TMP\_848 = 2 TMP\_849 = 0 not(TMP\_849) = 1 TMP\_850 = 0 not(TMP\_850) = 1 TMP\_851 = 1 not(TMP\_851) = 0 TMP\_852 = 1 not(TMP\_852) = 0 TMP\_853 = 1 not(TMP\_853) = 0 TMP\_854 = 2 TMP\_855 = 0 not(TMP\_855) = 1 TMP\_856 = 1 not(TMP\_856) = 0 TMP\_857 = 1 not(TMP\_857) = 0 TMP\_858 = 1 not(TMP\_858) = 0 TMP\_859 = 1 not(TMP\_859) = 0 TMP\_860 = 0 not(TMP\_860) = 1 TMP\_861 = 4 TMP\_862 = 0 not(TMP\_862) = 1 TMP\_863 = 0 not(TMP\_863) = 1 TMP\_864 = 0 TMP\_865 = 1 not(TMP\_865) = 0 TMP\_866 = 1 not(TMP\_866) = 0 TMP\_867 = 2 TMP\_868 = 0 not(TMP\_868) = 1 TMP\_869 = 0 not(TMP\_869) = 1 TMP\_870 = 1 not(TMP\_870) = 0 TMP\_871 = 1 not(TMP\_871) = 0 TMP\_872 = 1 not(TMP\_872) = 0 TMP\_873 = 2 TMP\_874 = 0 not(TMP\_874) = 1 TMP\_875 = 1 not(TMP\_875) = 0 TMP\_876 = 1 not(TMP\_876) = 0 TMP\_877 = 1 not(TMP\_877) = 0 TMP\_878 = 1 not(TMP\_878) = 0 TMP\_879 = 1 not(TMP\_879) = 0 TMP\_880 = 5 TMP\_881 = 0 not(TMP\_881) = 1 TMP\_882 = 0 not(TMP\_882) = 1 TMP\_883 = 0 TMP\_884 = 1 not(TMP\_884) = 0 TMP\_885 = 1 not(TMP\_885) = 0 TMP\_886 = 2 TMP\_887 = 0 not(TMP\_887) = 1 TMP\_888 = 0 not(TMP\_888) = 1 TMP\_889 = 1 not(TMP\_889) = 0 TMP\_890 = 1 not(TMP\_890) = 0 TMP\_891 = 1 not(TMP\_891) = 0 TMP\_892 = 2 TMP\_893 = 0 not(TMP\_893) = 1 TMP\_894 = 1 not(TMP\_894) = 0 TMP\_895 = 0 not(TMP\_895) = 1 TMP\_896 = 1 not(TMP\_896) = 0 TMP\_897 = 1 not(TMP\_897) = 0 TMP\_898 = 1 not(TMP\_898) = 0 TMP\_899 = 4 TMP\_900 = 0 not(TMP\_900) = 1 TMP\_901 = 0 not(TMP\_901) = 1 TMP\_902 = 0 TMP\_903 = 1 not(TMP\_903) = 0 TMP\_904 = 1 not(TMP\_904) = 0 TMP\_905 = 2 TMP\_906 = 0 not(TMP\_906) = 1 TMP\_907 = 0 not(TMP\_907) = 1 TMP\_908 = 1 not(TMP\_908) = 0 TMP\_909 = 1 not(TMP\_909) = 0 TMP\_910 = 1 not(TMP\_910) = 0 TMP\_911 = 2 TMP\_912 = 1 not(TMP\_912) = 0 TMP\_913 = 0 not(TMP\_913) = 1 TMP\_914 = 1 not(TMP\_914) = 0 TMP\_915 = 1 not(TMP\_915) = 0 TMP\_916 = 1 not(TMP\_916) = 0 TMP\_917 = 1 not(TMP\_917) = 0 TMP\_918 = 5 TMP\_919 = 0 not(TMP\_919) = 1 TMP\_920 = 0 not(TMP\_920) = 1 TMP\_921 = 0 TMP\_922 = 1 not(TMP\_922) = 0 TMP\_923 = 1 not(TMP\_923) = 0 TMP\_924 = 2 TMP\_925 = 0 not(TMP\_925) = 1 TMP\_926 = 0 not(TMP\_926) = 1 TMP\_927 = 1 not(TMP\_927) = 0 TMP\_928 = 1 not(TMP\_928) = 0 TMP\_929 = 1 not(TMP\_929) = 0 TMP\_930 = 2 TMP\_931 = 1 not(TMP\_931) = 0 TMP\_932 = 0 not(TMP\_932) = 1 TMP\_933 = 1 not(TMP\_933) = 0 TMP\_934 = 1 not(TMP\_934) = 0 TMP\_935 = 1 not(TMP\_935) = 0 TMP\_936 = 0 not(TMP\_936) = 1 TMP\_937 = 4 TMP\_938 = 0 not(TMP\_938) = 1 TMP\_939 = 0 not(TMP\_939) = 1 TMP\_940 = 0 TMP\_941 = 1 not(TMP\_941) = 0 TMP\_942 = 1 not(TMP\_942) = 0 TMP\_943 = 2 TMP\_944 = 0 not(TMP\_944) = 1 TMP\_945 = 0 not(TMP\_945) = 1 TMP\_946 = 1 not(TMP\_946) = 0 TMP\_947 = 1 not(TMP\_947) = 0 TMP\_948 = 1 not(TMP\_948) = 0 TMP\_949 = 2 TMP\_950 = 0 not(TMP\_950) = 1 TMP\_951 = 1 not(TMP\_951) = 0 TMP\_952 = 1 not(TMP\_952) = 0 TMP\_953 = 1 not(TMP\_953) = 0 TMP\_954 = 1 not(TMP\_954) = 0 TMP\_955 = 1 not(TMP\_955) = 0 TMP\_956 = 5 TMP\_957 = 0 not(TMP\_957) = 1 TMP\_958 = 0 not(TMP\_958) = 1 TMP\_959 = 0 TMP\_960 = 1 not(TMP\_960) = 0 TMP\_961 = 1 not(TMP\_961) = 0 TMP\_962 = 2 TMP\_963 = 0 not(TMP\_963) = 1 TMP\_964 = 0 not(TMP\_964) = 1 TMP\_965 = 1 not(TMP\_965) = 0 TMP\_966 = 1 not(TMP\_966) = 0 TMP\_967 = 1 not(TMP\_967) = 0 TMP\_968 = 2 TMP\_969 = 1 not(TMP\_969) = 0 TMP\_970 = 1 not(TMP\_970) = 0 TMP\_971 = 1 not(TMP\_971) = 0 TMP\_972 = 1 not(TMP\_972) = 0 TMP\_973 = 1 not(TMP\_973) = 0 TMP\_974 = 0 not(TMP\_974) = 1 TMP\_975 = 5 TMP\_976 = 0 not(TMP\_976) = 1 TMP\_977 = 0 not(TMP\_977) = 1 TMP\_978 = 0 TMP\_979 = 1 not(TMP\_979) = 0 TMP\_980 = 1 not(TMP\_980) = 0 TMP\_981 = 2 TMP\_982 = 0 not(TMP\_982) = 1 TMP\_983 = 0 not(TMP\_983) = 1 TMP\_984 = 1 not(TMP\_984) = 0 TMP\_985 = 1 not(TMP\_985) = 0 TMP\_986 = 1 not(TMP\_986) = 0 TMP\_987 = 2 TMP\_988 = 1 not(TMP\_988) = 0 TMP\_989 = 1 not(TMP\_989) = 0 TMP\_990 = 0 not(TMP\_990) = 1 TMP\_991 = 1 not(TMP\_991) = 0 TMP\_992 = 1 not(TMP\_992) = 0 TMP\_993 = 1 not(TMP\_993) = 0 TMP\_994 = 5 TMP\_995 = 0 not(TMP\_995) = 1 TMP\_996 = 0 not(TMP\_996) = 1 TMP\_997 = 0 TMP\_998 = 1 not(TMP\_998) = 0 TMP\_999 = 1 not(TMP\_999) = 0 TMP\_1000 = 2 TMP\_1001 = 0 not(TMP\_1001) = 1 TMP\_1002 = 0 not(TMP\_1002) = 1 TMP\_1003 = 1 not(TMP\_1003) = 0 TMP\_1004 = 1 not(TMP\_1004) = 0 TMP\_1005 = 1 not(TMP\_1005) = 0 TMP\_1006 = 2 TMP\_1007 = 0 not(TMP\_1007) = 1 TMP\_1008 = 1 not(TMP\_1008) = 0 TMP\_1009 = 1 not(TMP\_1009) = 0 TMP\_1010 = 1 not(TMP\_1010) = 0 TMP\_1011 = 1 not(TMP\_1011) = 0 TMP\_1012 = 1 not(TMP\_1012) = 0 TMP\_1013 = 5 TMP\_1014 = 0 not(TMP\_1014) = 1 TMP\_1015 = 0 not(TMP\_1015) = 1 TMP\_1016 = 0 TMP\_1017 = 1 not(TMP\_1017) = 0 TMP\_1018 = 1 not(TMP\_1018) = 0 TMP\_1019 = 2 TMP\_1020 = 0 not(TMP\_1020) = 1 TMP\_1021 = 0 not(TMP\_1021) = 1 TMP\_1022 = 1 not(TMP\_1022) = 0 TMP\_1023 = 1 not(TMP\_1023) = 0 TMP\_1024 = 1 not(TMP\_1024) = 0 TMP\_1025 = 2 TMP\_1026 = 0 not(TMP\_1026) = 1 TMP\_1027 = 1 not(TMP\_1027) = 0 TMP\_1028 = 1 not(TMP\_1028) = 0 TMP\_1029 = 1 not(TMP\_1029) = 0 TMP\_1030 = 1 not(TMP\_1030) = 0 TMP\_1031 = 0 not(TMP\_1031) = 1 TMP\_1032 = 4 TMP\_1033 = 0 not(TMP\_1033) = 1 TMP\_1034 = 0 not(TMP\_1034) = 1 TMP\_1035 = 0 TMP\_1036 = 1 not(TMP\_1036) = 0 TMP\_1037 = 1 not(TMP\_1037) = 0 TMP\_1038 = 2 TMP\_1039 = 0 not(TMP\_1039) = 1 TMP\_1040 = 0 not(TMP\_1040) = 1 TMP\_1041 = 1 not(TMP\_1041) = 0 TMP\_1042 = 1 not(TMP\_1042) = 0 TMP\_1043 = 1 not(TMP\_1043) = 0 TMP\_1044 = 2 Area\_0 = 60 Distance\_0\_Rule\_0 = 20 Distance\_1\_Rule\_0 = 3 Distance\_2\_Rule\_0 = 1 Area\_1 = 174 Distance\_0\_Rule\_1 = 58 Distance\_1\_Rule\_1 = 3 Distance\_2\_Rule\_1 = 1 Area\_2 = 116 Distance\_0\_Rule\_2 = 58 Distance\_1\_Rule\_2 = 2 Distance\_2\_Rule\_2 = 1 Area\_3 = 58 Distance\_0\_Rule\_3 = 58 Distance\_1\_Rule\_3 = 1 Distance\_2\_Rule\_3 = 1 Area\_4 = 120 Distance\_0\_Rule\_4 = 40 Distance\_1\_Rule\_4 = 3 Distance\_2\_Rule\_4 = 1 Area\_5 = 120 Distance\_0\_Rule\_5 = 40 Distance\_1\_Rule\_5 = 3 Distance\_2\_Rule\_5 = 1 Area\_6 = 60 Distance\_0\_Rule\_6 = 20 Distance\_1\_Rule\_6 = 3 Distance\_2\_Rule\_6 = 1 Area\_7 = 3 -(Rule\_7\_LB) = -79 Distance\_0\_Rule\_7 = 1 -(Rule\_7\_LB) = 0 Distance\_1\_Rule\_7 = 3 -(Rule\_7\_LB) = -1 Distance\_2\_Rule\_7 = 1 Area\_8 = 1 -(Rule\_8\_LB) = -79 Distance\_0\_Rule\_8 = 1 -(Rule\_8\_LB) = 0 Distance\_1\_Rule\_8 = 1 -(Rule\_8\_LB) = 0 Distance\_2\_Rule\_8 = 1 Area\_9 = 3 -(Rule\_9\_LB) = -20 Distance\_0\_Rule\_9 = 1 -(Rule\_9\_LB) = 0 Distance\_1\_Rule\_9 = 3 -(Rule\_9\_LB) = 0 Distance\_2\_Rule\_9 = 1 Area\_10 = 3 -(Rule\_10\_LB) = -20 Distance\_0\_Rule\_10 = 1 -(Rule\_10\_LB) = 0 Distance\_1\_Rule\_10 = 3 -(Rule\_10\_LB) = -1 Distance\_2\_Rule\_10 = 1 Area\_11 = 2 -(Rule\_11\_LB) = -79 Distance\_0\_Rule\_11 = 1 -(Rule\_11\_LB) = -1 Distance\_1\_Rule\_11 = 2 -(Rule\_11\_LB) = 0 Distance\_2\_Rule\_11 = 1 TMP\_1045 = 720 .

- Solution #6 found. 6 Solutions, Resolution 1.300s, 1466 Nodes (1,127.9 n/s), 2808 Backtracks, 1405 Fails, 0 Restarts

Rule\_7\_LB = 79 Rule\_7\_UB = 80 Rule\_7\_LB = 0 Rule\_7\_UB = 3 Rule\_7\_LB = 1 Rule\_7\_UB = 2 Rule\_8\_LB = 79 Rule\_8\_UB = 80 Rule\_8\_LB = 0 Rule\_8\_UB = 1 Rule\_8\_LB = 0 Rule\_8\_UB = 1 Rule\_9\_LB = 20 Rule\_9\_UB = 21 Rule\_9\_LB = 0 Rule\_9\_UB = 3 Rule\_9\_LB = 0 Rule\_9\_UB = 1 Rule\_10\_LB = 20 Rule\_10\_UB = 21 Rule\_10\_LB = 0 Rule\_10\_UB = 3 Rule\_10\_LB = 1 Rule\_10\_UB = 2 Rule\_11\_LB = 79 Rule\_11\_UB = 80 Rule\_11\_LB = 1 Rule\_11\_UB = 3 Rule\_11\_LB = 0 Rule\_11\_UB = 1 Overlaps\_0\_0 = 0 Overlaps\_0\_1 = 0 Overlaps\_0\_2 = 0 Overlaps\_0\_3 = 0 Overlaps\_0\_4 = 0 Overlaps\_0\_5 = 0 Overlaps\_0\_6 = 0 Overlaps\_0\_7 = 0 Overlaps\_0\_8 = 0 Overlaps\_0\_9 = 0 Overlaps\_0\_10 = 0 Overlaps\_0\_11 = 0 Overlaps\_1\_0 = 0 Overlaps\_1\_1 = 0 Overlaps\_1\_2 = 0 Overlaps\_1\_3 = 0 Overlaps\_1\_4 = 0 Overlaps\_1\_5 = 0 Overlaps\_1\_6 = 0 Overlaps\_1\_7 = 0 Overlaps\_1\_8 = 0 Overlaps\_1\_9 = 0 Overlaps\_1\_10 = 0 Overlaps\_1\_11 = 0 Overlaps\_2\_0 = 0 Overlaps\_2\_1 = 0 Overlaps\_2\_2 = 0 Overlaps\_2\_3 = 0 Overlaps\_2\_4 = 0 Overlaps\_2\_5 = 1 Overlaps\_2\_6 = 0 Overlaps\_2\_7 = 0 Overlaps\_2\_8 = 0 Overlaps\_2\_9 = 0 Overlaps\_2\_10 = 0 Overlaps\_2\_11 = 0 Overlaps\_3\_0 = 0 Overlaps\_3\_1 = 0 Overlaps\_3\_2 = 0 Overlaps\_3\_3 = 0 Overlaps\_3\_4 = 0 Overlaps\_3\_5 = 0 Overlaps\_3\_6 = 0 Overlaps\_3\_7 = 0 Overlaps\_3\_8 = 0 Overlaps\_3\_9 = 0 Overlaps\_3\_10 = 0 Overlaps\_3\_11 = 0 Overlaps\_4\_0 = 0 Overlaps\_4\_1 = 0 Overlaps\_4\_2 = 0 Overlaps\_4\_3 = 0 Overlaps\_4\_4 = 0 Overlaps\_4\_5 = 0 Overlaps\_4\_6 = 0 Overlaps\_4\_7 = 0 Overlaps\_4\_8 = 0 Overlaps\_4\_9 = 0 Overlaps\_4\_10 = 0 Overlaps\_4\_11 = 0 Overlaps\_5\_0 = 0 Overlaps\_5\_1 = 0 Overlaps\_5\_2 = 0 Overlaps\_5\_3 = 0 Overlaps\_5\_4 = 0 Overlaps\_5\_5 = 0 Overlaps\_5\_6 = 0 Overlaps\_5\_7 = 0 Overlaps\_5\_8 = 0 Overlaps\_5\_9 = 0 Overlaps\_5\_10 = 0 Overlaps\_5\_11 = 0 Overlaps\_6\_0 = 0 Overlaps\_6\_1 = 1 Overlaps\_6\_2 = 0 Overlaps\_6\_3 = 0 Overlaps\_6\_4 = 0 Overlaps\_6\_5 = 0 Overlaps\_6\_6 = 0 Overlaps\_6\_7 = 0 Overlaps\_6\_8 = 0 Overlaps\_6\_9 = 0 Overlaps\_6\_10 = 0 Overlaps\_6\_11 = 0 Overlaps\_7\_0 = 0 Overlaps\_7\_1 = 0 Overlaps\_7\_2 = 0 Overlaps\_7\_3 = 0 Overlaps\_7\_4 = 0 Overlaps\_7\_5 = 0 Overlaps\_7\_6 = 0 Overlaps\_7\_7 = 0 Overlaps\_7\_8 = 0 Overlaps\_7\_9 = 0 Overlaps\_7\_10 = 0 Overlaps\_7\_11 = 0 Overlaps\_8\_0 = 0 Overlaps\_8\_1 = 0 Overlaps\_8\_2 = 0 Overlaps\_8\_3 = 0 Overlaps\_8\_4 = 0 Overlaps\_8\_5 = 0 Overlaps\_8\_6 = 0 Overlaps\_8\_7 = 0 Overlaps\_8\_8 = 0 Overlaps\_8\_9 = 0 Overlaps\_8\_10 = 0 Overlaps\_8\_11 = 0 Overlaps\_9\_0 = 0 Overlaps\_9\_1 = 0 Overlaps\_9\_2 = 0 Overlaps\_9\_3 = 0 Overlaps\_9\_4 = 0 Overlaps\_9\_5 = 0 Overlaps\_9\_6 = 0 Overlaps\_9\_7 = 0 Overlaps\_9\_8 = 0 Overlaps\_9\_9 = 0 Overlaps\_9\_10 = 0 Overlaps\_9\_11 = 0 Overlaps\_10\_0 = 0 Overlaps\_10\_1 = 0 Overlaps\_10\_2 = 0 Overlaps\_10\_3 = 0 Overlaps\_10\_4 = 0 Overlaps\_10\_5 = 0 Overlaps\_10\_6 = 0 Overlaps\_10\_7 = 0 Overlaps\_10\_8 = 0 Overlaps\_10\_9 = 0 Overlaps\_10\_10 = 0 Overlaps\_10\_11 = 0 Overlaps\_11\_0 = 0 Overlaps\_11\_1 = 0 Overlaps\_11\_2 = 0 Overlaps\_11\_3 = 0 Overlaps\_11\_4 = 0 Overlaps\_11\_5 = 0 Overlaps\_11\_6 = 0 Overlaps\_11\_7 = 0 Overlaps\_11\_8 = 0 Overlaps\_11\_9 = 0 Overlaps\_11\_10 = 0 Overlaps\_11\_11 = 0 TMP\_0 = 0 not(TMP\_0) = 1 TMP\_1 = 1 not(TMP\_1) = 0 TMP\_2 = 1 not(TMP\_2) = 0 TMP\_3 = 1 not(TMP\_3) = 0 TMP\_4 = 1 not(TMP\_4) = 0 TMP\_5 = 1 not(TMP\_5) = 0 TMP\_6 = 5 TMP\_7 = 0 not(TMP\_7) = 1 TMP\_8 = 0 not(TMP\_8) = 1 TMP\_9 = 0 TMP\_10 = 1 not(TMP\_10) = 0 TMP\_11 = 1 not(TMP\_11) = 0 TMP\_12 = 2 TMP\_13 = 0 not(TMP\_13) = 1 TMP\_14 = 0 not(TMP\_14) = 1 TMP\_15 = 1 not(TMP\_15) = 0 TMP\_16 = 1 not(TMP\_16) = 0 TMP\_17 = 1 not(TMP\_17) = 0 TMP\_18 = 2 TMP\_19 = 0 not(TMP\_19) = 1 TMP\_20 = 1 not(TMP\_20) = 0 TMP\_21 = 1 not(TMP\_21) = 0 TMP\_22 = 1 not(TMP\_22) = 0 TMP\_23 = 1 not(TMP\_23) = 0 TMP\_24 = 1 not(TMP\_24) = 0 TMP\_25 = 5 TMP\_26 = 0 not(TMP\_26) = 1 TMP\_27 = 0 not(TMP\_27) = 1 TMP\_28 = 0 TMP\_29 = 1 not(TMP\_29) = 0 TMP\_30 = 1 not(TMP\_30) = 0 TMP\_31 = 2 TMP\_32 = 0 not(TMP\_32) = 1 TMP\_33 = 0 not(TMP\_33) = 1 TMP\_34 = 1 not(TMP\_34) = 0 TMP\_35 = 1 not(TMP\_35) = 0 TMP\_36 = 1 not(TMP\_36) = 0 TMP\_37 = 2 TMP\_38 = 0 not(TMP\_38) = 1 TMP\_39 = 1 not(TMP\_39) = 0 TMP\_40 = 1 not(TMP\_40) = 0 TMP\_41 = 1 not(TMP\_41) = 0 TMP\_42 = 0 not(TMP\_42) = 1 TMP\_43 = 1 not(TMP\_43) = 0 TMP\_44 = 4 TMP\_45 = 0 not(TMP\_45) = 1 TMP\_46 = 0 not(TMP\_46) = 1 TMP\_47 = 0 TMP\_48 = 1 not(TMP\_48) = 0 TMP\_49 = 1 not(TMP\_49) = 0 TMP\_50 = 2 TMP\_51 = 0 not(TMP\_51) = 1 TMP\_52 = 0 not(TMP\_52) = 1 TMP\_53 = 1 not(TMP\_53) = 0 TMP\_54 = 1 not(TMP\_54) = 0 TMP\_55 = 1 not(TMP\_55) = 0 TMP\_56 = 2 TMP\_57 = 0 not(TMP\_57) = 1 TMP\_58 = 1 not(TMP\_58) = 0 TMP\_59 = 1 not(TMP\_59) = 0 TMP\_60 = 1 not(TMP\_60) = 0 TMP\_61 = 0 not(TMP\_61) = 1 TMP\_62 = 1 not(TMP\_62) = 0 TMP\_63 = 4 TMP\_64 = 0 not(TMP\_64) = 1 TMP\_65 = 0 not(TMP\_65) = 1 TMP\_66 = 0 TMP\_67 = 1 not(TMP\_67) = 0 TMP\_68 = 1 not(TMP\_68) = 0 TMP\_69 = 2 TMP\_70 = 0 not(TMP\_70) = 1 TMP\_71 = 0 not(TMP\_71) = 1 TMP\_72 = 1 not(TMP\_72) = 0 TMP\_73 = 1 not(TMP\_73) = 0 TMP\_74 = 1 not(TMP\_74) = 0 TMP\_75 = 2 TMP\_76 = 1 not(TMP\_76) = 0 TMP\_77 = 0 not(TMP\_77) = 1 TMP\_78 = 1 not(TMP\_78) = 0 TMP\_79 = 1 not(TMP\_79) = 0 TMP\_80 = 0 not(TMP\_80) = 1 TMP\_81 = 1 not(TMP\_81) = 0 TMP\_82 = 4 TMP\_83 = 0 not(TMP\_83) = 1 TMP\_84 = 0 not(TMP\_84) = 1 TMP\_85 = 0 TMP\_86 = 1 not(TMP\_86) = 0 TMP\_87 = 1 not(TMP\_87) = 0 TMP\_88 = 2 TMP\_89 = 0 not(TMP\_89) = 1 TMP\_90 = 0 not(TMP\_90) = 1 TMP\_91 = 1 not(TMP\_91) = 0 TMP\_92 = 1 not(TMP\_92) = 0 TMP\_93 = 1 not(TMP\_93) = 0 TMP\_94 = 2 TMP\_95 = 1 not(TMP\_95) = 0 TMP\_96 = 0 not(TMP\_96) = 1 TMP\_97 = 1 not(TMP\_97) = 0 TMP\_98 = 1 not(TMP\_98) = 0 TMP\_99 = 1 not(TMP\_99) = 0 TMP\_100 = 1 not(TMP\_100) = 0 TMP\_101 = 5 TMP\_102 = 0 not(TMP\_102) = 1 TMP\_103 = 0 not(TMP\_103) = 1 TMP\_104 = 0 TMP\_105 = 1 not(TMP\_105) = 0 TMP\_106 = 1 not(TMP\_106) = 0 TMP\_107 = 2 TMP\_108 = 0 not(TMP\_108) = 1 TMP\_109 = 0 not(TMP\_109) = 1 TMP\_110 = 1 not(TMP\_110) = 0 TMP\_111 = 1 not(TMP\_111) = 0 TMP\_112 = 1 not(TMP\_112) = 0 TMP\_113 = 2 TMP\_114 = 0 not(TMP\_114) = 1 TMP\_115 = 1 not(TMP\_115) = 0 TMP\_116 = 1 not(TMP\_116) = 0 TMP\_117 = 1 not(TMP\_117) = 0 TMP\_118 = 0 not(TMP\_118) = 1 TMP\_119 = 1 not(TMP\_119) = 0 TMP\_120 = 4 TMP\_121 = 0 not(TMP\_121) = 1 TMP\_122 = 0 not(TMP\_122) = 1 TMP\_123 = 0 TMP\_124 = 1 not(TMP\_124) = 0 TMP\_125 = 1 not(TMP\_125) = 0 TMP\_126 = 2 TMP\_127 = 0 not(TMP\_127) = 1 TMP\_128 = 0 not(TMP\_128) = 1 TMP\_129 = 1 not(TMP\_129) = 0 TMP\_130 = 1 not(TMP\_130) = 0 TMP\_131 = 1 not(TMP\_131) = 0 TMP\_132 = 2 TMP\_133 = 1 not(TMP\_133) = 0 TMP\_134 = 1 not(TMP\_134) = 0 TMP\_135 = 1 not(TMP\_135) = 0 TMP\_136 = 1 not(TMP\_136) = 0 TMP\_137 = 0 not(TMP\_137) = 1 TMP\_138 = 1 not(TMP\_138) = 0 TMP\_139 = 5 TMP\_140 = 0 not(TMP\_140) = 1 TMP\_141 = 0 not(TMP\_141) = 1 TMP\_142 = 0 TMP\_143 = 1 not(TMP\_143) = 0 TMP\_144 = 1 not(TMP\_144) = 0 TMP\_145 = 2 TMP\_146 = 0 not(TMP\_146) = 1 TMP\_147 = 0 not(TMP\_147) = 1 TMP\_148 = 1 not(TMP\_148) = 0 TMP\_149 = 1 not(TMP\_149) = 0 TMP\_150 = 1 not(TMP\_150) = 0 TMP\_151 = 2 TMP\_152 = 0 not(TMP\_152) = 1 TMP\_153 = 1 not(TMP\_153) = 0 TMP\_154 = 1 not(TMP\_154) = 0 TMP\_155 = 1 not(TMP\_155) = 0 TMP\_156 = 0 not(TMP\_156) = 1 TMP\_157 = 1 not(TMP\_157) = 0 TMP\_158 = 4 TMP\_159 = 0 not(TMP\_159) = 1 TMP\_160 = 0 not(TMP\_160) = 1 TMP\_161 = 0 TMP\_162 = 1 not(TMP\_162) = 0 TMP\_163 = 1 not(TMP\_163) = 0 TMP\_164 = 2 TMP\_165 = 0 not(TMP\_165) = 1 TMP\_166 = 0 not(TMP\_166) = 1 TMP\_167 = 1 not(TMP\_167) = 0 TMP\_168 = 1 not(TMP\_168) = 0 TMP\_169 = 1 not(TMP\_169) = 0 TMP\_170 = 2 TMP\_171 = 0 not(TMP\_171) = 1 TMP\_172 = 1 not(TMP\_172) = 0 TMP\_173 = 1 not(TMP\_173) = 0 TMP\_174 = 1 not(TMP\_174) = 0 TMP\_175 = 1 not(TMP\_175) = 0 TMP\_176 = 1 not(TMP\_176) = 0 TMP\_177 = 5 TMP\_178 = 0 not(TMP\_178) = 1 TMP\_179 = 0 not(TMP\_179) = 1 TMP\_180 = 0 TMP\_181 = 1 not(TMP\_181) = 0 TMP\_182 = 1 not(TMP\_182) = 0 TMP\_183 = 2 TMP\_184 = 0 not(TMP\_184) = 1 TMP\_185 = 0 not(TMP\_185) = 1 TMP\_186 = 1 not(TMP\_186) = 0 TMP\_187 = 1 not(TMP\_187) = 0 TMP\_188 = 1 not(TMP\_188) = 0 TMP\_189 = 2 TMP\_190 = 1 not(TMP\_190) = 0 TMP\_191 = 1 not(TMP\_191) = 0 TMP\_192 = 1 not(TMP\_192) = 0 TMP\_193 = 1 not(TMP\_193) = 0 TMP\_194 = 0 not(TMP\_194) = 1 TMP\_195 = 1 not(TMP\_195) = 0 TMP\_196 = 5 TMP\_197 = 0 not(TMP\_197) = 1 TMP\_198 = 0 not(TMP\_198) = 1 TMP\_199 = 0 TMP\_200 = 1 not(TMP\_200) = 0 TMP\_201 = 1 not(TMP\_201) = 0 TMP\_202 = 2 TMP\_203 = 0 not(TMP\_203) = 1 TMP\_204 = 0 not(TMP\_204) = 1 TMP\_205 = 1 not(TMP\_205) = 0 TMP\_206 = 1 not(TMP\_206) = 0 TMP\_207 = 1 not(TMP\_207) = 0 TMP\_208 = 2 TMP\_209 = 0 not(TMP\_209) = 1 TMP\_210 = 1 not(TMP\_210) = 0 TMP\_211 = 1 not(TMP\_211) = 0 TMP\_212 = 1 not(TMP\_212) = 0 TMP\_213 = 1 not(TMP\_213) = 0 TMP\_214 = 0 not(TMP\_214) = 1 TMP\_215 = 4 TMP\_216 = 0 not(TMP\_216) = 1 TMP\_217 = 0 not(TMP\_217) = 1 TMP\_218 = 0 TMP\_219 = 1 not(TMP\_219) = 0 TMP\_220 = 1 not(TMP\_220) = 0 TMP\_221 = 2 TMP\_222 = 0 not(TMP\_222) = 1 TMP\_223 = 0 not(TMP\_223) = 1 TMP\_224 = 1 not(TMP\_224) = 0 TMP\_225 = 1 not(TMP\_225) = 0 TMP\_226 = 1 not(TMP\_226) = 0 TMP\_227 = 2 TMP\_228 = 0 not(TMP\_228) = 1 TMP\_229 = 1 not(TMP\_229) = 0 TMP\_230 = 1 not(TMP\_230) = 0 TMP\_231 = 1 not(TMP\_231) = 0 TMP\_232 = 1 not(TMP\_232) = 0 TMP\_233 = 0 not(TMP\_233) = 1 TMP\_234 = 4 TMP\_235 = 0 not(TMP\_235) = 1 TMP\_236 = 0 not(TMP\_236) = 1 TMP\_237 = 0 TMP\_238 = 1 not(TMP\_238) = 0 TMP\_239 = 1 not(TMP\_239) = 0 TMP\_240 = 2 TMP\_241 = 0 not(TMP\_241) = 1 TMP\_242 = 0 not(TMP\_242) = 1 TMP\_243 = 1 not(TMP\_243) = 0 TMP\_244 = 1 not(TMP\_244) = 0 TMP\_245 = 1 not(TMP\_245) = 0 TMP\_246 = 2 TMP\_247 = 0 not(TMP\_247) = 1 TMP\_248 = 1 not(TMP\_248) = 0 TMP\_249 = 1 not(TMP\_249) = 0 TMP\_250 = 0 not(TMP\_250) = 1 TMP\_251 = 1 not(TMP\_251) = 0 TMP\_252 = 1 not(TMP\_252) = 0 TMP\_253 = 4 TMP\_254 = 0 not(TMP\_254) = 1 TMP\_255 = 0 not(TMP\_255) = 1 TMP\_256 = 0 TMP\_257 = 1 not(TMP\_257) = 0 TMP\_258 = 1 not(TMP\_258) = 0 TMP\_259 = 2 TMP\_260 = 0 not(TMP\_260) = 1 TMP\_261 = 0 not(TMP\_261) = 1 TMP\_262 = 1 not(TMP\_262) = 0 TMP\_263 = 1 not(TMP\_263) = 0 TMP\_264 = 1 not(TMP\_264) = 0 TMP\_265 = 2 TMP\_266 = 0 not(TMP\_266) = 1 TMP\_267 = 1 not(TMP\_267) = 0 TMP\_268 = 1 not(TMP\_268) = 0 TMP\_269 = 1 not(TMP\_269) = 0 TMP\_270 = 1 not(TMP\_270) = 0 TMP\_271 = 1 not(TMP\_271) = 0 TMP\_272 = 5 TMP\_273 = 0 not(TMP\_273) = 1 TMP\_274 = 0 not(TMP\_274) = 1 TMP\_275 = 0 TMP\_276 = 1 not(TMP\_276) = 0 TMP\_277 = 1 not(TMP\_277) = 0 TMP\_278 = 2 TMP\_279 = 0 not(TMP\_279) = 1 TMP\_280 = 0 not(TMP\_280) = 1 TMP\_281 = 1 not(TMP\_281) = 0 TMP\_282 = 1 not(TMP\_282) = 0 TMP\_283 = 1 not(TMP\_283) = 0 TMP\_284 = 2 TMP\_285 = 1 not(TMP\_285) = 0 TMP\_286 = 0 not(TMP\_286) = 1 TMP\_287 = 1 not(TMP\_287) = 0 TMP\_288 = 1 not(TMP\_288) = 0 TMP\_289 = 1 not(TMP\_289) = 0 TMP\_290 = 1 not(TMP\_290) = 0 TMP\_291 = 5 TMP\_292 = 0 not(TMP\_292) = 1 TMP\_293 = 0 not(TMP\_293) = 1 TMP\_294 = 0 TMP\_295 = 1 not(TMP\_295) = 0 TMP\_296 = 1 not(TMP\_296) = 0 TMP\_297 = 2 TMP\_298 = 0 not(TMP\_298) = 1 TMP\_299 = 0 not(TMP\_299) = 1 TMP\_300 = 1 not(TMP\_300) = 0 TMP\_301 = 1 not(TMP\_301) = 0 TMP\_302 = 1 not(TMP\_302) = 0 TMP\_303 = 2 TMP\_304 = 1 not(TMP\_304) = 0 TMP\_305 = 0 not(TMP\_305) = 1 TMP\_306 = 1 not(TMP\_306) = 0 TMP\_307 = 1 not(TMP\_307) = 0 TMP\_308 = 1 not(TMP\_308) = 0 TMP\_309 = 0 not(TMP\_309) = 1 TMP\_310 = 4 TMP\_311 = 0 not(TMP\_311) = 1 TMP\_312 = 0 not(TMP\_312) = 1 TMP\_313 = 0 TMP\_314 = 1 not(TMP\_314) = 0 TMP\_315 = 1 not(TMP\_315) = 0 TMP\_316 = 2 TMP\_317 = 0 not(TMP\_317) = 1 TMP\_318 = 0 not(TMP\_318) = 1 TMP\_319 = 1 not(TMP\_319) = 0 TMP\_320 = 1 not(TMP\_320) = 0 TMP\_321 = 1 not(TMP\_321) = 0 TMP\_322 = 2 TMP\_323 = 0 not(TMP\_323) = 1 TMP\_324 = 1 not(TMP\_324) = 0 TMP\_325 = 1 not(TMP\_325) = 0 TMP\_326 = 1 not(TMP\_326) = 0 TMP\_327 = 1 not(TMP\_327) = 0 TMP\_328 = 1 not(TMP\_328) = 0 TMP\_329 = 5 TMP\_330 = 0 not(TMP\_330) = 1 TMP\_331 = 0 not(TMP\_331) = 1 TMP\_332 = 0 TMP\_333 = 1 not(TMP\_333) = 0 TMP\_334 = 1 not(TMP\_334) = 0 TMP\_335 = 2 TMP\_336 = 0 not(TMP\_336) = 1 TMP\_337 = 0 not(TMP\_337) = 1 TMP\_338 = 1 not(TMP\_338) = 0 TMP\_339 = 1 not(TMP\_339) = 0 TMP\_340 = 1 not(TMP\_340) = 0 TMP\_341 = 2 TMP\_342 = 1 not(TMP\_342) = 0 TMP\_343 = 1 not(TMP\_343) = 0 TMP\_344 = 1 not(TMP\_344) = 0 TMP\_345 = 1 not(TMP\_345) = 0 TMP\_346 = 1 not(TMP\_346) = 0 TMP\_347 = 0 not(TMP\_347) = 1 TMP\_348 = 5 TMP\_349 = 0 not(TMP\_349) = 1 TMP\_350 = 0 not(TMP\_350) = 1 TMP\_351 = 0 TMP\_352 = 1 not(TMP\_352) = 0 TMP\_353 = 1 not(TMP\_353) = 0 TMP\_354 = 2 TMP\_355 = 0 not(TMP\_355) = 1 TMP\_356 = 0 not(TMP\_356) = 1 TMP\_357 = 1 not(TMP\_357) = 0 TMP\_358 = 1 not(TMP\_358) = 0 TMP\_359 = 1 not(TMP\_359) = 0 TMP\_360 = 2 TMP\_361 = 0 not(TMP\_361) = 1 TMP\_362 = 1 not(TMP\_362) = 0 TMP\_363 = 1 not(TMP\_363) = 0 TMP\_364 = 1 not(TMP\_364) = 0 TMP\_365 = 1 not(TMP\_365) = 0 TMP\_366 = 1 not(TMP\_366) = 0 TMP\_367 = 5 TMP\_368 = 0 not(TMP\_368) = 1 TMP\_369 = 0 not(TMP\_369) = 1 TMP\_370 = 0 TMP\_371 = 1 not(TMP\_371) = 0 TMP\_372 = 1 not(TMP\_372) = 0 TMP\_373 = 2 TMP\_374 = 0 not(TMP\_374) = 1 TMP\_375 = 0 not(TMP\_375) = 1 TMP\_376 = 1 not(TMP\_376) = 0 TMP\_377 = 1 not(TMP\_377) = 0 TMP\_378 = 1 not(TMP\_378) = 0 TMP\_379 = 2 TMP\_380 = 0 not(TMP\_380) = 1 TMP\_381 = 1 not(TMP\_381) = 0 TMP\_382 = 1 not(TMP\_382) = 0 TMP\_383 = 1 not(TMP\_383) = 0 TMP\_384 = 1 not(TMP\_384) = 0 TMP\_385 = 0 not(TMP\_385) = 1 TMP\_386 = 4 TMP\_387 = 0 not(TMP\_387) = 1 TMP\_388 = 0 not(TMP\_388) = 1 TMP\_389 = 0 TMP\_390 = 1 not(TMP\_390) = 0 TMP\_391 = 1 not(TMP\_391) = 0 TMP\_392 = 2 TMP\_393 = 0 not(TMP\_393) = 1 TMP\_394 = 0 not(TMP\_394) = 1 TMP\_395 = 1 not(TMP\_395) = 0 TMP\_396 = 1 not(TMP\_396) = 0 TMP\_397 = 1 not(TMP\_397) = 0 TMP\_398 = 2 TMP\_399 = 1 not(TMP\_399) = 0 TMP\_400 = 1 not(TMP\_400) = 0 TMP\_401 = 1 not(TMP\_401) = 0 TMP\_402 = 0 not(TMP\_402) = 1 TMP\_403 = 1 not(TMP\_403) = 0 TMP\_404 = 1 not(TMP\_404) = 0 TMP\_405 = 5 TMP\_406 = 0 not(TMP\_406) = 1 TMP\_407 = 0 not(TMP\_407) = 1 TMP\_408 = 0 TMP\_409 = 1 not(TMP\_409) = 0 TMP\_410 = 1 not(TMP\_410) = 0 TMP\_411 = 2 TMP\_412 = 0 not(TMP\_412) = 1 TMP\_413 = 0 not(TMP\_413) = 1 TMP\_414 = 1 not(TMP\_414) = 0 TMP\_415 = 1 not(TMP\_415) = 0 TMP\_416 = 1 not(TMP\_416) = 0 TMP\_417 = 2 TMP\_418 = 0 not(TMP\_418) = 1 TMP\_419 = 1 not(TMP\_419) = 0 TMP\_420 = 1 not(TMP\_420) = 0 TMP\_421 = 1 not(TMP\_421) = 0 TMP\_422 = 1 not(TMP\_422) = 0 TMP\_423 = 0 not(TMP\_423) = 1 TMP\_424 = 4 TMP\_425 = 0 not(TMP\_425) = 1 TMP\_426 = 0 not(TMP\_426) = 1 TMP\_427 = 0 TMP\_428 = 1 not(TMP\_428) = 0 TMP\_429 = 1 not(TMP\_429) = 0 TMP\_430 = 2 TMP\_431 = 0 not(TMP\_431) = 1 TMP\_432 = 0 not(TMP\_432) = 1 TMP\_433 = 1 not(TMP\_433) = 0 TMP\_434 = 1 not(TMP\_434) = 0 TMP\_435 = 1 not(TMP\_435) = 0 TMP\_436 = 2 TMP\_437 = 1 not(TMP\_437) = 0 TMP\_438 = 0 not(TMP\_438) = 1 TMP\_439 = 1 not(TMP\_439) = 0 TMP\_440 = 1 not(TMP\_440) = 0 TMP\_441 = 1 not(TMP\_441) = 0 TMP\_442 = 0 not(TMP\_442) = 1 TMP\_443 = 4 TMP\_444 = 0 not(TMP\_444) = 1 TMP\_445 = 0 not(TMP\_445) = 1 TMP\_446 = 0 TMP\_447 = 1 not(TMP\_447) = 0 TMP\_448 = 1 not(TMP\_448) = 0 TMP\_449 = 2 TMP\_450 = 0 not(TMP\_450) = 1 TMP\_451 = 0 not(TMP\_451) = 1 TMP\_452 = 1 not(TMP\_452) = 0 TMP\_453 = 1 not(TMP\_453) = 0 TMP\_454 = 1 not(TMP\_454) = 0 TMP\_455 = 2 TMP\_456 = 1 not(TMP\_456) = 0 TMP\_457 = 0 not(TMP\_457) = 1 TMP\_458 = 1 not(TMP\_458) = 0 TMP\_459 = 1 not(TMP\_459) = 0 TMP\_460 = 1 not(TMP\_460) = 0 TMP\_461 = 1 not(TMP\_461) = 0 TMP\_462 = 5 TMP\_463 = 0 not(TMP\_463) = 1 TMP\_464 = 0 not(TMP\_464) = 1 TMP\_465 = 0 TMP\_466 = 1 not(TMP\_466) = 0 TMP\_467 = 1 not(TMP\_467) = 0 TMP\_468 = 2 TMP\_469 = 0 not(TMP\_469) = 1 TMP\_470 = 0 not(TMP\_470) = 1 TMP\_471 = 1 not(TMP\_471) = 0 TMP\_472 = 1 not(TMP\_472) = 0 TMP\_473 = 1 not(TMP\_473) = 0 TMP\_474 = 2 TMP\_475 = 1 not(TMP\_475) = 0 TMP\_476 = 0 not(TMP\_476) = 1 TMP\_477 = 1 not(TMP\_477) = 0 TMP\_478 = 1 not(TMP\_478) = 0 TMP\_479 = 1 not(TMP\_479) = 0 TMP\_480 = 1 not(TMP\_480) = 0 TMP\_481 = 5 TMP\_482 = 0 not(TMP\_482) = 1 TMP\_483 = 0 not(TMP\_483) = 1 TMP\_484 = 0 TMP\_485 = 1 not(TMP\_485) = 0 TMP\_486 = 1 not(TMP\_486) = 0 TMP\_487 = 2 TMP\_488 = 0 not(TMP\_488) = 1 TMP\_489 = 0 not(TMP\_489) = 1 TMP\_490 = 1 not(TMP\_490) = 0 TMP\_491 = 1 not(TMP\_491) = 0 TMP\_492 = 1 not(TMP\_492) = 0 TMP\_493 = 2 TMP\_494 = 1 not(TMP\_494) = 0 TMP\_495 = 0 not(TMP\_495) = 1 TMP\_496 = 1 not(TMP\_496) = 0 TMP\_497 = 1 not(TMP\_497) = 0 TMP\_498 = 1 not(TMP\_498) = 0 TMP\_499 = 1 not(TMP\_499) = 0 TMP\_500 = 5 TMP\_501 = 0 not(TMP\_501) = 1 TMP\_502 = 0 not(TMP\_502) = 1 TMP\_503 = 0 TMP\_504 = 1 not(TMP\_504) = 0 TMP\_505 = 1 not(TMP\_505) = 0 TMP\_506 = 2 TMP\_507 = 0 not(TMP\_507) = 1 TMP\_508 = 0 not(TMP\_508) = 1 TMP\_509 = 1 not(TMP\_509) = 0 TMP\_510 = 1 not(TMP\_510) = 0 TMP\_511 = 1 not(TMP\_511) = 0 TMP\_512 = 2 TMP\_513 = 1 not(TMP\_513) = 0 TMP\_514 = 0 not(TMP\_514) = 1 TMP\_515 = 1 not(TMP\_515) = 0 TMP\_516 = 1 not(TMP\_516) = 0 TMP\_517 = 1 not(TMP\_517) = 0 TMP\_518 = 0 not(TMP\_518) = 1 TMP\_519 = 4 TMP\_520 = 0 not(TMP\_520) = 1 TMP\_521 = 0 not(TMP\_521) = 1 TMP\_522 = 0 TMP\_523 = 1 not(TMP\_523) = 0 TMP\_524 = 1 not(TMP\_524) = 0 TMP\_525 = 2 TMP\_526 = 0 not(TMP\_526) = 1 TMP\_527 = 0 not(TMP\_527) = 1 TMP\_528 = 1 not(TMP\_528) = 0 TMP\_529 = 1 not(TMP\_529) = 0 TMP\_530 = 1 not(TMP\_530) = 0 TMP\_531 = 2 TMP\_532 = 0 not(TMP\_532) = 1 TMP\_533 = 1 not(TMP\_533) = 0 TMP\_534 = 1 not(TMP\_534) = 0 TMP\_535 = 1 not(TMP\_535) = 0 TMP\_536 = 1 not(TMP\_536) = 0 TMP\_537 = 1 not(TMP\_537) = 0 TMP\_538 = 5 TMP\_539 = 0 not(TMP\_539) = 1 TMP\_540 = 0 not(TMP\_540) = 1 TMP\_541 = 0 TMP\_542 = 1 not(TMP\_542) = 0 TMP\_543 = 1 not(TMP\_543) = 0 TMP\_544 = 2 TMP\_545 = 0 not(TMP\_545) = 1 TMP\_546 = 0 not(TMP\_546) = 1 TMP\_547 = 1 not(TMP\_547) = 0 TMP\_548 = 1 not(TMP\_548) = 0 TMP\_549 = 1 not(TMP\_549) = 0 TMP\_550 = 2 TMP\_551 = 1 not(TMP\_551) = 0 TMP\_552 = 0 not(TMP\_552) = 1 TMP\_553 = 1 not(TMP\_553) = 0 TMP\_554 = 1 not(TMP\_554) = 0 TMP\_555 = 1 not(TMP\_555) = 0 TMP\_556 = 0 not(TMP\_556) = 1 TMP\_557 = 4 TMP\_558 = 0 not(TMP\_558) = 1 TMP\_559 = 0 not(TMP\_559) = 1 TMP\_560 = 0 TMP\_561 = 1 not(TMP\_561) = 0 TMP\_562 = 1 not(TMP\_562) = 0 TMP\_563 = 2 TMP\_564 = 0 not(TMP\_564) = 1 TMP\_565 = 0 not(TMP\_565) = 1 TMP\_566 = 1 not(TMP\_566) = 0 TMP\_567 = 1 not(TMP\_567) = 0 TMP\_568 = 1 not(TMP\_568) = 0 TMP\_569 = 2 TMP\_570 = 1 not(TMP\_570) = 0 TMP\_571 = 0 not(TMP\_571) = 1 TMP\_572 = 1 not(TMP\_572) = 0 TMP\_573 = 1 not(TMP\_573) = 0 TMP\_574 = 1 not(TMP\_574) = 0 TMP\_575 = 1 not(TMP\_575) = 0 TMP\_576 = 5 TMP\_577 = 0 not(TMP\_577) = 1 TMP\_578 = 0 not(TMP\_578) = 1 TMP\_579 = 0 TMP\_580 = 1 not(TMP\_580) = 0 TMP\_581 = 1 not(TMP\_581) = 0 TMP\_582 = 2 TMP\_583 = 0 not(TMP\_583) = 1 TMP\_584 = 0 not(TMP\_584) = 1 TMP\_585 = 1 not(TMP\_585) = 0 TMP\_586 = 1 not(TMP\_586) = 0 TMP\_587 = 1 not(TMP\_587) = 0 TMP\_588 = 2 TMP\_589 = 1 not(TMP\_589) = 0 TMP\_590 = 1 not(TMP\_590) = 0 TMP\_591 = 1 not(TMP\_591) = 0 TMP\_592 = 1 not(TMP\_592) = 0 TMP\_593 = 1 not(TMP\_593) = 0 TMP\_594 = 0 not(TMP\_594) = 1 TMP\_595 = 5 TMP\_596 = 0 not(TMP\_596) = 1 TMP\_597 = 0 not(TMP\_597) = 1 TMP\_598 = 0 TMP\_599 = 1 not(TMP\_599) = 0 TMP\_600 = 1 not(TMP\_600) = 0 TMP\_601 = 2 TMP\_602 = 0 not(TMP\_602) = 1 TMP\_603 = 0 not(TMP\_603) = 1 TMP\_604 = 1 not(TMP\_604) = 0 TMP\_605 = 1 not(TMP\_605) = 0 TMP\_606 = 1 not(TMP\_606) = 0 TMP\_607 = 2 TMP\_608 = 1 not(TMP\_608) = 0 TMP\_609 = 0 not(TMP\_609) = 1 TMP\_610 = 1 not(TMP\_610) = 0 TMP\_611 = 1 not(TMP\_611) = 0 TMP\_612 = 1 not(TMP\_612) = 0 TMP\_613 = 1 not(TMP\_613) = 0 TMP\_614 = 5 TMP\_615 = 0 not(TMP\_615) = 1 TMP\_616 = 0 not(TMP\_616) = 1 TMP\_617 = 0 TMP\_618 = 1 not(TMP\_618) = 0 TMP\_619 = 1 not(TMP\_619) = 0 TMP\_620 = 2 TMP\_621 = 0 not(TMP\_621) = 1 TMP\_622 = 0 not(TMP\_622) = 1 TMP\_623 = 1 not(TMP\_623) = 0 TMP\_624 = 1 not(TMP\_624) = 0 TMP\_625 = 1 not(TMP\_625) = 0 TMP\_626 = 2 TMP\_627 = 0 not(TMP\_627) = 1 TMP\_628 = 1 not(TMP\_628) = 0 TMP\_629 = 1 not(TMP\_629) = 0 TMP\_630 = 1 not(TMP\_630) = 0 TMP\_631 = 1 not(TMP\_631) = 0 TMP\_632 = 1 not(TMP\_632) = 0 TMP\_633 = 5 TMP\_634 = 0 not(TMP\_634) = 1 TMP\_635 = 0 not(TMP\_635) = 1 TMP\_636 = 0 TMP\_637 = 1 not(TMP\_637) = 0 TMP\_638 = 1 not(TMP\_638) = 0 TMP\_639 = 2 TMP\_640 = 0 not(TMP\_640) = 1 TMP\_641 = 0 not(TMP\_641) = 1 TMP\_642 = 1 not(TMP\_642) = 0 TMP\_643 = 1 not(TMP\_643) = 0 TMP\_644 = 1 not(TMP\_644) = 0 TMP\_645 = 2 TMP\_646 = 1 not(TMP\_646) = 0 TMP\_647 = 0 not(TMP\_647) = 1 TMP\_648 = 1 not(TMP\_648) = 0 TMP\_649 = 1 not(TMP\_649) = 0 TMP\_650 = 1 not(TMP\_650) = 0 TMP\_651 = 1 not(TMP\_651) = 0 TMP\_652 = 5 TMP\_653 = 0 not(TMP\_653) = 1 TMP\_654 = 0 not(TMP\_654) = 1 TMP\_655 = 0 TMP\_656 = 1 not(TMP\_656) = 0 TMP\_657 = 1 not(TMP\_657) = 0 TMP\_658 = 2 TMP\_659 = 0 not(TMP\_659) = 1 TMP\_660 = 0 not(TMP\_660) = 1 TMP\_661 = 1 not(TMP\_661) = 0 TMP\_662 = 1 not(TMP\_662) = 0 TMP\_663 = 1 not(TMP\_663) = 0 TMP\_664 = 2 TMP\_665 = 1 not(TMP\_665) = 0 TMP\_666 = 0 not(TMP\_666) = 1 TMP\_667 = 1 not(TMP\_667) = 0 TMP\_668 = 1 not(TMP\_668) = 0 TMP\_669 = 0 not(TMP\_669) = 1 TMP\_670 = 1 not(TMP\_670) = 0 TMP\_671 = 4 TMP\_672 = 0 not(TMP\_672) = 1 TMP\_673 = 0 not(TMP\_673) = 1 TMP\_674 = 0 TMP\_675 = 1 not(TMP\_675) = 0 TMP\_676 = 1 not(TMP\_676) = 0 TMP\_677 = 2 TMP\_678 = 0 not(TMP\_678) = 1 TMP\_679 = 0 not(TMP\_679) = 1 TMP\_680 = 1 not(TMP\_680) = 0 TMP\_681 = 1 not(TMP\_681) = 0 TMP\_682 = 1 not(TMP\_682) = 0 TMP\_683 = 2 TMP\_684 = 1 not(TMP\_684) = 0 TMP\_685 = 0 not(TMP\_685) = 1 TMP\_686 = 1 not(TMP\_686) = 0 TMP\_687 = 1 not(TMP\_687) = 0 TMP\_688 = 0 not(TMP\_688) = 1 TMP\_689 = 1 not(TMP\_689) = 0 TMP\_690 = 4 TMP\_691 = 0 not(TMP\_691) = 1 TMP\_692 = 0 not(TMP\_692) = 1 TMP\_693 = 0 TMP\_694 = 1 not(TMP\_694) = 0 TMP\_695 = 1 not(TMP\_695) = 0 TMP\_696 = 2 TMP\_697 = 0 not(TMP\_697) = 1 TMP\_698 = 0 not(TMP\_698) = 1 TMP\_699 = 1 not(TMP\_699) = 0 TMP\_700 = 1 not(TMP\_700) = 0 TMP\_701 = 1 not(TMP\_701) = 0 TMP\_702 = 2 TMP\_703 = 1 not(TMP\_703) = 0 TMP\_704 = 0 not(TMP\_704) = 1 TMP\_705 = 1 not(TMP\_705) = 0 TMP\_706 = 1 not(TMP\_706) = 0 TMP\_707 = 0 not(TMP\_707) = 1 TMP\_708 = 1 not(TMP\_708) = 0 TMP\_709 = 4 TMP\_710 = 0 not(TMP\_710) = 1 TMP\_711 = 0 not(TMP\_711) = 1 TMP\_712 = 0 TMP\_713 = 1 not(TMP\_713) = 0 TMP\_714 = 1 not(TMP\_714) = 0 TMP\_715 = 2 TMP\_716 = 0 not(TMP\_716) = 1 TMP\_717 = 0 not(TMP\_717) = 1 TMP\_718 = 1 not(TMP\_718) = 0 TMP\_719 = 1 not(TMP\_719) = 0 TMP\_720 = 1 not(TMP\_720) = 0 TMP\_721 = 2 TMP\_722 = 1 not(TMP\_722) = 0 TMP\_723 = 0 not(TMP\_723) = 1 TMP\_724 = 1 not(TMP\_724) = 0 TMP\_725 = 1 not(TMP\_725) = 0 TMP\_726 = 1 not(TMP\_726) = 0 TMP\_727 = 1 not(TMP\_727) = 0 TMP\_728 = 5 TMP\_729 = 0 not(TMP\_729) = 1 TMP\_730 = 0 not(TMP\_730) = 1 TMP\_731 = 0 TMP\_732 = 1 not(TMP\_732) = 0 TMP\_733 = 1 not(TMP\_733) = 0 TMP\_734 = 2 TMP\_735 = 0 not(TMP\_735) = 1 TMP\_736 = 0 not(TMP\_736) = 1 TMP\_737 = 1 not(TMP\_737) = 0 TMP\_738 = 1 not(TMP\_738) = 0 TMP\_739 = 1 not(TMP\_739) = 0 TMP\_740 = 2 TMP\_741 = 0 not(TMP\_741) = 1 TMP\_742 = 1 not(TMP\_742) = 0 TMP\_743 = 1 not(TMP\_743) = 0 TMP\_744 = 1 not(TMP\_744) = 0 TMP\_745 = 0 not(TMP\_745) = 1 TMP\_746 = 1 not(TMP\_746) = 0 TMP\_747 = 4 TMP\_748 = 0 not(TMP\_748) = 1 TMP\_749 = 0 not(TMP\_749) = 1 TMP\_750 = 0 TMP\_751 = 1 not(TMP\_751) = 0 TMP\_752 = 1 not(TMP\_752) = 0 TMP\_753 = 2 TMP\_754 = 0 not(TMP\_754) = 1 TMP\_755 = 0 not(TMP\_755) = 1 TMP\_756 = 1 not(TMP\_756) = 0 TMP\_757 = 1 not(TMP\_757) = 0 TMP\_758 = 1 not(TMP\_758) = 0 TMP\_759 = 2 TMP\_760 = 1 not(TMP\_760) = 0 TMP\_761 = 0 not(TMP\_761) = 1 TMP\_762 = 1 not(TMP\_762) = 0 TMP\_763 = 1 not(TMP\_763) = 0 TMP\_764 = 1 not(TMP\_764) = 0 TMP\_765 = 1 not(TMP\_765) = 0 TMP\_766 = 5 TMP\_767 = 0 not(TMP\_767) = 1 TMP\_768 = 0 not(TMP\_768) = 1 TMP\_769 = 0 TMP\_770 = 1 not(TMP\_770) = 0 TMP\_771 = 1 not(TMP\_771) = 0 TMP\_772 = 2 TMP\_773 = 0 not(TMP\_773) = 1 TMP\_774 = 0 not(TMP\_774) = 1 TMP\_775 = 1 not(TMP\_775) = 0 TMP\_776 = 1 not(TMP\_776) = 0 TMP\_777 = 1 not(TMP\_777) = 0 TMP\_778 = 2 TMP\_779 = 1 not(TMP\_779) = 0 TMP\_780 = 0 not(TMP\_780) = 1 TMP\_781 = 1 not(TMP\_781) = 0 TMP\_782 = 1 not(TMP\_782) = 0 TMP\_783 = 0 not(TMP\_783) = 1 TMP\_784 = 1 not(TMP\_784) = 0 TMP\_785 = 4 TMP\_786 = 0 not(TMP\_786) = 1 TMP\_787 = 0 not(TMP\_787) = 1 TMP\_788 = 0 TMP\_789 = 1 not(TMP\_789) = 0 TMP\_790 = 1 not(TMP\_790) = 0 TMP\_791 = 2 TMP\_792 = 0 not(TMP\_792) = 1 TMP\_793 = 0 not(TMP\_793) = 1 TMP\_794 = 1 not(TMP\_794) = 0 TMP\_795 = 1 not(TMP\_795) = 0 TMP\_796 = 1 not(TMP\_796) = 0 TMP\_797 = 2 TMP\_798 = 1 not(TMP\_798) = 0 TMP\_799 = 1 not(TMP\_799) = 0 TMP\_800 = 1 not(TMP\_800) = 0 TMP\_801 = 1 not(TMP\_801) = 0 TMP\_802 = 0 not(TMP\_802) = 1 TMP\_803 = 1 not(TMP\_803) = 0 TMP\_804 = 5 TMP\_805 = 0 not(TMP\_805) = 1 TMP\_806 = 0 not(TMP\_806) = 1 TMP\_807 = 0 TMP\_808 = 1 not(TMP\_808) = 0 TMP\_809 = 1 not(TMP\_809) = 0 TMP\_810 = 2 TMP\_811 = 0 not(TMP\_811) = 1 TMP\_812 = 0 not(TMP\_812) = 1 TMP\_813 = 1 not(TMP\_813) = 0 TMP\_814 = 1 not(TMP\_814) = 0 TMP\_815 = 1 not(TMP\_815) = 0 TMP\_816 = 2 TMP\_817 = 1 not(TMP\_817) = 0 TMP\_818 = 0 not(TMP\_818) = 1 TMP\_819 = 1 not(TMP\_819) = 0 TMP\_820 = 1 not(TMP\_820) = 0 TMP\_821 = 0 not(TMP\_821) = 1 TMP\_822 = 1 not(TMP\_822) = 0 TMP\_823 = 4 TMP\_824 = 0 not(TMP\_824) = 1 TMP\_825 = 0 not(TMP\_825) = 1 TMP\_826 = 0 TMP\_827 = 1 not(TMP\_827) = 0 TMP\_828 = 1 not(TMP\_828) = 0 TMP\_829 = 2 TMP\_830 = 0 not(TMP\_830) = 1 TMP\_831 = 0 not(TMP\_831) = 1 TMP\_832 = 1 not(TMP\_832) = 0 TMP\_833 = 1 not(TMP\_833) = 0 TMP\_834 = 1 not(TMP\_834) = 0 TMP\_835 = 2 TMP\_836 = 0 not(TMP\_836) = 1 TMP\_837 = 1 not(TMP\_837) = 0 TMP\_838 = 1 not(TMP\_838) = 0 TMP\_839 = 1 not(TMP\_839) = 0 TMP\_840 = 1 not(TMP\_840) = 0 TMP\_841 = 0 not(TMP\_841) = 1 TMP\_842 = 4 TMP\_843 = 0 not(TMP\_843) = 1 TMP\_844 = 0 not(TMP\_844) = 1 TMP\_845 = 0 TMP\_846 = 1 not(TMP\_846) = 0 TMP\_847 = 1 not(TMP\_847) = 0 TMP\_848 = 2 TMP\_849 = 0 not(TMP\_849) = 1 TMP\_850 = 0 not(TMP\_850) = 1 TMP\_851 = 1 not(TMP\_851) = 0 TMP\_852 = 1 not(TMP\_852) = 0 TMP\_853 = 1 not(TMP\_853) = 0 TMP\_854 = 2 TMP\_855 = 0 not(TMP\_855) = 1 TMP\_856 = 1 not(TMP\_856) = 0 TMP\_857 = 1 not(TMP\_857) = 0 TMP\_858 = 1 not(TMP\_858) = 0 TMP\_859 = 1 not(TMP\_859) = 0 TMP\_860 = 0 not(TMP\_860) = 1 TMP\_861 = 4 TMP\_862 = 0 not(TMP\_862) = 1 TMP\_863 = 0 not(TMP\_863) = 1 TMP\_864 = 0 TMP\_865 = 1 not(TMP\_865) = 0 TMP\_866 = 1 not(TMP\_866) = 0 TMP\_867 = 2 TMP\_868 = 0 not(TMP\_868) = 1 TMP\_869 = 0 not(TMP\_869) = 1 TMP\_870 = 1 not(TMP\_870) = 0 TMP\_871 = 1 not(TMP\_871) = 0 TMP\_872 = 1 not(TMP\_872) = 0 TMP\_873 = 2 TMP\_874 = 0 not(TMP\_874) = 1 TMP\_875 = 1 not(TMP\_875) = 0 TMP\_876 = 1 not(TMP\_876) = 0 TMP\_877 = 1 not(TMP\_877) = 0 TMP\_878 = 1 not(TMP\_878) = 0 TMP\_879 = 1 not(TMP\_879) = 0 TMP\_880 = 5 TMP\_881 = 0 not(TMP\_881) = 1 TMP\_882 = 0 not(TMP\_882) = 1 TMP\_883 = 0 TMP\_884 = 1 not(TMP\_884) = 0 TMP\_885 = 1 not(TMP\_885) = 0 TMP\_886 = 2 TMP\_887 = 0 not(TMP\_887) = 1 TMP\_888 = 0 not(TMP\_888) = 1 TMP\_889 = 1 not(TMP\_889) = 0 TMP\_890 = 1 not(TMP\_890) = 0 TMP\_891 = 1 not(TMP\_891) = 0 TMP\_892 = 2 TMP\_893 = 0 not(TMP\_893) = 1 TMP\_894 = 1 not(TMP\_894) = 0 TMP\_895 = 0 not(TMP\_895) = 1 TMP\_896 = 1 not(TMP\_896) = 0 TMP\_897 = 1 not(TMP\_897) = 0 TMP\_898 = 1 not(TMP\_898) = 0 TMP\_899 = 4 TMP\_900 = 0 not(TMP\_900) = 1 TMP\_901 = 0 not(TMP\_901) = 1 TMP\_902 = 0 TMP\_903 = 1 not(TMP\_903) = 0 TMP\_904 = 1 not(TMP\_904) = 0 TMP\_905 = 2 TMP\_906 = 0 not(TMP\_906) = 1 TMP\_907 = 0 not(TMP\_907) = 1 TMP\_908 = 1 not(TMP\_908) = 0 TMP\_909 = 1 not(TMP\_909) = 0 TMP\_910 = 1 not(TMP\_910) = 0 TMP\_911 = 2 TMP\_912 = 1 not(TMP\_912) = 0 TMP\_913 = 0 not(TMP\_913) = 1 TMP\_914 = 1 not(TMP\_914) = 0 TMP\_915 = 1 not(TMP\_915) = 0 TMP\_916 = 1 not(TMP\_916) = 0 TMP\_917 = 1 not(TMP\_917) = 0 TMP\_918 = 5 TMP\_919 = 0 not(TMP\_919) = 1 TMP\_920 = 0 not(TMP\_920) = 1 TMP\_921 = 0 TMP\_922 = 1 not(TMP\_922) = 0 TMP\_923 = 1 not(TMP\_923) = 0 TMP\_924 = 2 TMP\_925 = 0 not(TMP\_925) = 1 TMP\_926 = 0 not(TMP\_926) = 1 TMP\_927 = 1 not(TMP\_927) = 0 TMP\_928 = 1 not(TMP\_928) = 0 TMP\_929 = 1 not(TMP\_929) = 0 TMP\_930 = 2 TMP\_931 = 1 not(TMP\_931) = 0 TMP\_932 = 0 not(TMP\_932) = 1 TMP\_933 = 1 not(TMP\_933) = 0 TMP\_934 = 1 not(TMP\_934) = 0 TMP\_935 = 1 not(TMP\_935) = 0 TMP\_936 = 0 not(TMP\_936) = 1 TMP\_937 = 4 TMP\_938 = 0 not(TMP\_938) = 1 TMP\_939 = 0 not(TMP\_939) = 1 TMP\_940 = 0 TMP\_941 = 1 not(TMP\_941) = 0 TMP\_942 = 1 not(TMP\_942) = 0 TMP\_943 = 2 TMP\_944 = 0 not(TMP\_944) = 1 TMP\_945 = 0 not(TMP\_945) = 1 TMP\_946 = 1 not(TMP\_946) = 0 TMP\_947 = 1 not(TMP\_947) = 0 TMP\_948 = 1 not(TMP\_948) = 0 TMP\_949 = 2 TMP\_950 = 0 not(TMP\_950) = 1 TMP\_951 = 1 not(TMP\_951) = 0 TMP\_952 = 1 not(TMP\_952) = 0 TMP\_953 = 1 not(TMP\_953) = 0 TMP\_954 = 1 not(TMP\_954) = 0 TMP\_955 = 1 not(TMP\_955) = 0 TMP\_956 = 5 TMP\_957 = 0 not(TMP\_957) = 1 TMP\_958 = 0 not(TMP\_958) = 1 TMP\_959 = 0 TMP\_960 = 1 not(TMP\_960) = 0 TMP\_961 = 1 not(TMP\_961) = 0 TMP\_962 = 2 TMP\_963 = 0 not(TMP\_963) = 1 TMP\_964 = 0 not(TMP\_964) = 1 TMP\_965 = 1 not(TMP\_965) = 0 TMP\_966 = 1 not(TMP\_966) = 0 TMP\_967 = 1 not(TMP\_967) = 0 TMP\_968 = 2 TMP\_969 = 1 not(TMP\_969) = 0 TMP\_970 = 1 not(TMP\_970) = 0 TMP\_971 = 1 not(TMP\_971) = 0 TMP\_972 = 1 not(TMP\_972) = 0 TMP\_973 = 1 not(TMP\_973) = 0 TMP\_974 = 0 not(TMP\_974) = 1 TMP\_975 = 5 TMP\_976 = 0 not(TMP\_976) = 1 TMP\_977 = 0 not(TMP\_977) = 1 TMP\_978 = 0 TMP\_979 = 1 not(TMP\_979) = 0 TMP\_980 = 1 not(TMP\_980) = 0 TMP\_981 = 2 TMP\_982 = 0 not(TMP\_982) = 1 TMP\_983 = 0 not(TMP\_983) = 1 TMP\_984 = 1 not(TMP\_984) = 0 TMP\_985 = 1 not(TMP\_985) = 0 TMP\_986 = 1 not(TMP\_986) = 0 TMP\_987 = 2 TMP\_988 = 1 not(TMP\_988) = 0 TMP\_989 = 1 not(TMP\_989) = 0 TMP\_990 = 0 not(TMP\_990) = 1 TMP\_991 = 1 not(TMP\_991) = 0 TMP\_992 = 1 not(TMP\_992) = 0 TMP\_993 = 1 not(TMP\_993) = 0 TMP\_994 = 5 TMP\_995 = 0 not(TMP\_995) = 1 TMP\_996 = 0 not(TMP\_996) = 1 TMP\_997 = 0 TMP\_998 = 1 not(TMP\_998) = 0 TMP\_999 = 1 not(TMP\_999) = 0 TMP\_1000 = 2 TMP\_1001 = 0 not(TMP\_1001) = 1 TMP\_1002 = 0 not(TMP\_1002) = 1 TMP\_1003 = 1 not(TMP\_1003) = 0 TMP\_1004 = 1 not(TMP\_1004) = 0 TMP\_1005 = 1 not(TMP\_1005) = 0 TMP\_1006 = 2 TMP\_1007 = 0 not(TMP\_1007) = 1 TMP\_1008 = 1 not(TMP\_1008) = 0 TMP\_1009 = 1 not(TMP\_1009) = 0 TMP\_1010 = 1 not(TMP\_1010) = 0 TMP\_1011 = 1 not(TMP\_1011) = 0 TMP\_1012 = 1 not(TMP\_1012) = 0 TMP\_1013 = 5 TMP\_1014 = 0 not(TMP\_1014) = 1 TMP\_1015 = 0 not(TMP\_1015) = 1 TMP\_1016 = 0 TMP\_1017 = 1 not(TMP\_1017) = 0 TMP\_1018 = 1 not(TMP\_1018) = 0 TMP\_1019 = 2 TMP\_1020 = 0 not(TMP\_1020) = 1 TMP\_1021 = 0 not(TMP\_1021) = 1 TMP\_1022 = 1 not(TMP\_1022) = 0 TMP\_1023 = 1 not(TMP\_1023) = 0 TMP\_1024 = 1 not(TMP\_1024) = 0 TMP\_1025 = 2 TMP\_1026 = 0 not(TMP\_1026) = 1 TMP\_1027 = 1 not(TMP\_1027) = 0 TMP\_1028 = 1 not(TMP\_1028) = 0 TMP\_1029 = 1 not(TMP\_1029) = 0 TMP\_1030 = 1 not(TMP\_1030) = 0 TMP\_1031 = 0 not(TMP\_1031) = 1 TMP\_1032 = 4 TMP\_1033 = 0 not(TMP\_1033) = 1 TMP\_1034 = 0 not(TMP\_1034) = 1 TMP\_1035 = 0 TMP\_1036 = 1 not(TMP\_1036) = 0 TMP\_1037 = 1 not(TMP\_1037) = 0 TMP\_1038 = 2 TMP\_1039 = 0 not(TMP\_1039) = 1 TMP\_1040 = 0 not(TMP\_1040) = 1 TMP\_1041 = 1 not(TMP\_1041) = 0 TMP\_1042 = 1 not(TMP\_1042) = 0 TMP\_1043 = 1 not(TMP\_1043) = 0 TMP\_1044 = 2 Area\_0 = 60 Distance\_0\_Rule\_0 = 20 Distance\_1\_Rule\_0 = 3 Distance\_2\_Rule\_0 = 1 Area\_1 = 174 Distance\_0\_Rule\_1 = 58 Distance\_1\_Rule\_1 = 3 Distance\_2\_Rule\_1 = 1 Area\_2 = 116 Distance\_0\_Rule\_2 = 58 Distance\_1\_Rule\_2 = 2 Distance\_2\_Rule\_2 = 1 Area\_3 = 58 Distance\_0\_Rule\_3 = 58 Distance\_1\_Rule\_3 = 1 Distance\_2\_Rule\_3 = 1 Area\_4 = 120 Distance\_0\_Rule\_4 = 40 Distance\_1\_Rule\_4 = 3 Distance\_2\_Rule\_4 = 1 Area\_5 = 120 Distance\_0\_Rule\_5 = 40 Distance\_1\_Rule\_5 = 3 Distance\_2\_Rule\_5 = 1 Area\_6 = 60 Distance\_0\_Rule\_6 = 20 Distance\_1\_Rule\_6 = 3 Distance\_2\_Rule\_6 = 1 Area\_7 = 3 -(Rule\_7\_LB) = -79 Distance\_0\_Rule\_7 = 1 -(Rule\_7\_LB) = 0 Distance\_1\_Rule\_7 = 3 -(Rule\_7\_LB) = -1 Distance\_2\_Rule\_7 = 1 Area\_8 = 1 -(Rule\_8\_LB) = -79 Distance\_0\_Rule\_8 = 1 -(Rule\_8\_LB) = 0 Distance\_1\_Rule\_8 = 1 -(Rule\_8\_LB) = 0 Distance\_2\_Rule\_8 = 1 Area\_9 = 3 -(Rule\_9\_LB) = -20 Distance\_0\_Rule\_9 = 1 -(Rule\_9\_LB) = 0 Distance\_1\_Rule\_9 = 3 -(Rule\_9\_LB) = 0 Distance\_2\_Rule\_9 = 1 Area\_10 = 3 -(Rule\_10\_LB) = -20 Distance\_0\_Rule\_10 = 1 -(Rule\_10\_LB) = 0 Distance\_1\_Rule\_10 = 3 -(Rule\_10\_LB) = -1 Distance\_2\_Rule\_10 = 1 Area\_11 = 2 -(Rule\_11\_LB) = -79 Distance\_0\_Rule\_11 = 1 -(Rule\_11\_LB) = -1 Distance\_1\_Rule\_11 = 2 -(Rule\_11\_LB) = 0 Distance\_2\_Rule\_11 = 1 TMP\_1045 = 720 .

- Solution #7 found. 7 Solutions, Resolution 1.311s, 1468 Nodes (1,119.4 n/s), 2810 Backtracks, 1405 Fails, 0 Restarts

Rule\_7\_LB = 79 Rule\_7\_UB = 80 Rule\_7\_LB = 0 Rule\_7\_UB = 3 Rule\_7\_LB = 1 Rule\_7\_UB = 2 Rule\_8\_LB = 79 Rule\_8\_UB = 80 Rule\_8\_LB = 0 Rule\_8\_UB = 1 Rule\_8\_LB = 0 Rule\_8\_UB = 1 Rule\_9\_LB = 20 Rule\_9\_UB = 21 Rule\_9\_LB = 0 Rule\_9\_UB = 3 Rule\_9\_LB = 0 Rule\_9\_UB = 1 Rule\_10\_LB = 20 Rule\_10\_UB = 21 Rule\_10\_LB = 0 Rule\_10\_UB = 3 Rule\_10\_LB = 1 Rule\_10\_UB = 2 Rule\_11\_LB = 79 Rule\_11\_UB = 80 Rule\_11\_LB = 1 Rule\_11\_UB = 3 Rule\_11\_LB = 0 Rule\_11\_UB = 1 Overlaps\_0\_0 = 0 Overlaps\_0\_1 = 0 Overlaps\_0\_2 = 0 Overlaps\_0\_3 = 0 Overlaps\_0\_4 = 0 Overlaps\_0\_5 = 0 Overlaps\_0\_6 = 0 Overlaps\_0\_7 = 0 Overlaps\_0\_8 = 0 Overlaps\_0\_9 = 0 Overlaps\_0\_10 = 0 Overlaps\_0\_11 = 0 Overlaps\_1\_0 = 0 Overlaps\_1\_1 = 0 Overlaps\_1\_2 = 0 Overlaps\_1\_3 = 0 Overlaps\_1\_4 = 0 Overlaps\_1\_5 = 0 Overlaps\_1\_6 = 0 Overlaps\_1\_7 = 0 Overlaps\_1\_8 = 0 Overlaps\_1\_9 = 0 Overlaps\_1\_10 = 0 Overlaps\_1\_11 = 0 Overlaps\_2\_0 = 0 Overlaps\_2\_1 = 0 Overlaps\_2\_2 = 0 Overlaps\_2\_3 = 0 Overlaps\_2\_4 = 0 Overlaps\_2\_5 = 0 Overlaps\_2\_6 = 0 Overlaps\_2\_7 = 0 Overlaps\_2\_8 = 0 Overlaps\_2\_9 = 0 Overlaps\_2\_10 = 0 Overlaps\_2\_11 = 0 Overlaps\_3\_0 = 0 Overlaps\_3\_1 = 0 Overlaps\_3\_2 = 0 Overlaps\_3\_3 = 0 Overlaps\_3\_4 = 0 Overlaps\_3\_5 = 0 Overlaps\_3\_6 = 0 Overlaps\_3\_7 = 0 Overlaps\_3\_8 = 0 Overlaps\_3\_9 = 0 Overlaps\_3\_10 = 0 Overlaps\_3\_11 = 0 Overlaps\_4\_0 = 0 Overlaps\_4\_1 = 0 Overlaps\_4\_2 = 0 Overlaps\_4\_3 = 0 Overlaps\_4\_4 = 0 Overlaps\_4\_5 = 1 Overlaps\_4\_6 = 0 Overlaps\_4\_7 = 0 Overlaps\_4\_8 = 0 Overlaps\_4\_9 = 0 Overlaps\_4\_10 = 0 Overlaps\_4\_11 = 0 Overlaps\_5\_0 = 0 Overlaps\_5\_1 = 0 Overlaps\_5\_2 = 0 Overlaps\_5\_3 = 0 Overlaps\_5\_4 = 0 Overlaps\_5\_5 = 0 Overlaps\_5\_6 = 0 Overlaps\_5\_7 = 0 Overlaps\_5\_8 = 0 Overlaps\_5\_9 = 0 Overlaps\_5\_10 = 0 Overlaps\_5\_11 = 0 Overlaps\_6\_0 = 0 Overlaps\_6\_1 = 1 Overlaps\_6\_2 = 0 Overlaps\_6\_3 = 0 Overlaps\_6\_4 = 0 Overlaps\_6\_5 = 0 Overlaps\_6\_6 = 0 Overlaps\_6\_7 = 0 Overlaps\_6\_8 = 0 Overlaps\_6\_9 = 0 Overlaps\_6\_10 = 0 Overlaps\_6\_11 = 0 Overlaps\_7\_0 = 0 Overlaps\_7\_1 = 0 Overlaps\_7\_2 = 0 Overlaps\_7\_3 = 0 Overlaps\_7\_4 = 0 Overlaps\_7\_5 = 0 Overlaps\_7\_6 = 0 Overlaps\_7\_7 = 0 Overlaps\_7\_8 = 0 Overlaps\_7\_9 = 0 Overlaps\_7\_10 = 0 Overlaps\_7\_11 = 0 Overlaps\_8\_0 = 0 Overlaps\_8\_1 = 0 Overlaps\_8\_2 = 0 Overlaps\_8\_3 = 0 Overlaps\_8\_4 = 0 Overlaps\_8\_5 = 0 Overlaps\_8\_6 = 0 Overlaps\_8\_7 = 0 Overlaps\_8\_8 = 0 Overlaps\_8\_9 = 0 Overlaps\_8\_10 = 0 Overlaps\_8\_11 = 0 Overlaps\_9\_0 = 0 Overlaps\_9\_1 = 0 Overlaps\_9\_2 = 0 Overlaps\_9\_3 = 0 Overlaps\_9\_4 = 0 Overlaps\_9\_5 = 0 Overlaps\_9\_6 = 0 Overlaps\_9\_7 = 0 Overlaps\_9\_8 = 0 Overlaps\_9\_9 = 0 Overlaps\_9\_10 = 0 Overlaps\_9\_11 = 0 Overlaps\_10\_0 = 0 Overlaps\_10\_1 = 0 Overlaps\_10\_2 = 0 Overlaps\_10\_3 = 0 Overlaps\_10\_4 = 0 Overlaps\_10\_5 = 0 Overlaps\_10\_6 = 0 Overlaps\_10\_7 = 0 Overlaps\_10\_8 = 0 Overlaps\_10\_9 = 0 Overlaps\_10\_10 = 0 Overlaps\_10\_11 = 0 Overlaps\_11\_0 = 0 Overlaps\_11\_1 = 0 Overlaps\_11\_2 = 0 Overlaps\_11\_3 = 0 Overlaps\_11\_4 = 0 Overlaps\_11\_5 = 0 Overlaps\_11\_6 = 0 Overlaps\_11\_7 = 0 Overlaps\_11\_8 = 0 Overlaps\_11\_9 = 0 Overlaps\_11\_10 = 0 Overlaps\_11\_11 = 0 TMP\_0 = 0 not(TMP\_0) = 1 TMP\_1 = 1 not(TMP\_1) = 0 TMP\_2 = 1 not(TMP\_2) = 0 TMP\_3 = 1 not(TMP\_3) = 0 TMP\_4 = 1 not(TMP\_4) = 0 TMP\_5 = 1 not(TMP\_5) = 0 TMP\_6 = 5 TMP\_7 = 0 not(TMP\_7) = 1 TMP\_8 = 0 not(TMP\_8) = 1 TMP\_9 = 0 TMP\_10 = 1 not(TMP\_10) = 0 TMP\_11 = 1 not(TMP\_11) = 0 TMP\_12 = 2 TMP\_13 = 0 not(TMP\_13) = 1 TMP\_14 = 0 not(TMP\_14) = 1 TMP\_15 = 1 not(TMP\_15) = 0 TMP\_16 = 1 not(TMP\_16) = 0 TMP\_17 = 1 not(TMP\_17) = 0 TMP\_18 = 2 TMP\_19 = 0 not(TMP\_19) = 1 TMP\_20 = 1 not(TMP\_20) = 0 TMP\_21 = 1 not(TMP\_21) = 0 TMP\_22 = 1 not(TMP\_22) = 0 TMP\_23 = 1 not(TMP\_23) = 0 TMP\_24 = 1 not(TMP\_24) = 0 TMP\_25 = 5 TMP\_26 = 0 not(TMP\_26) = 1 TMP\_27 = 0 not(TMP\_27) = 1 TMP\_28 = 0 TMP\_29 = 1 not(TMP\_29) = 0 TMP\_30 = 1 not(TMP\_30) = 0 TMP\_31 = 2 TMP\_32 = 0 not(TMP\_32) = 1 TMP\_33 = 0 not(TMP\_33) = 1 TMP\_34 = 1 not(TMP\_34) = 0 TMP\_35 = 1 not(TMP\_35) = 0 TMP\_36 = 1 not(TMP\_36) = 0 TMP\_37 = 2 TMP\_38 = 0 not(TMP\_38) = 1 TMP\_39 = 1 not(TMP\_39) = 0 TMP\_40 = 1 not(TMP\_40) = 0 TMP\_41 = 1 not(TMP\_41) = 0 TMP\_42 = 0 not(TMP\_42) = 1 TMP\_43 = 1 not(TMP\_43) = 0 TMP\_44 = 4 TMP\_45 = 0 not(TMP\_45) = 1 TMP\_46 = 0 not(TMP\_46) = 1 TMP\_47 = 0 TMP\_48 = 1 not(TMP\_48) = 0 TMP\_49 = 1 not(TMP\_49) = 0 TMP\_50 = 2 TMP\_51 = 0 not(TMP\_51) = 1 TMP\_52 = 0 not(TMP\_52) = 1 TMP\_53 = 1 not(TMP\_53) = 0 TMP\_54 = 1 not(TMP\_54) = 0 TMP\_55 = 1 not(TMP\_55) = 0 TMP\_56 = 2 TMP\_57 = 0 not(TMP\_57) = 1 TMP\_58 = 1 not(TMP\_58) = 0 TMP\_59 = 1 not(TMP\_59) = 0 TMP\_60 = 1 not(TMP\_60) = 0 TMP\_61 = 0 not(TMP\_61) = 1 TMP\_62 = 1 not(TMP\_62) = 0 TMP\_63 = 4 TMP\_64 = 0 not(TMP\_64) = 1 TMP\_65 = 0 not(TMP\_65) = 1 TMP\_66 = 0 TMP\_67 = 1 not(TMP\_67) = 0 TMP\_68 = 1 not(TMP\_68) = 0 TMP\_69 = 2 TMP\_70 = 0 not(TMP\_70) = 1 TMP\_71 = 0 not(TMP\_71) = 1 TMP\_72 = 1 not(TMP\_72) = 0 TMP\_73 = 1 not(TMP\_73) = 0 TMP\_74 = 1 not(TMP\_74) = 0 TMP\_75 = 2 TMP\_76 = 1 not(TMP\_76) = 0 TMP\_77 = 0 not(TMP\_77) = 1 TMP\_78 = 1 not(TMP\_78) = 0 TMP\_79 = 1 not(TMP\_79) = 0 TMP\_80 = 0 not(TMP\_80) = 1 TMP\_81 = 1 not(TMP\_81) = 0 TMP\_82 = 4 TMP\_83 = 0 not(TMP\_83) = 1 TMP\_84 = 0 not(TMP\_84) = 1 TMP\_85 = 0 TMP\_86 = 1 not(TMP\_86) = 0 TMP\_87 = 1 not(TMP\_87) = 0 TMP\_88 = 2 TMP\_89 = 0 not(TMP\_89) = 1 TMP\_90 = 0 not(TMP\_90) = 1 TMP\_91 = 1 not(TMP\_91) = 0 TMP\_92 = 1 not(TMP\_92) = 0 TMP\_93 = 1 not(TMP\_93) = 0 TMP\_94 = 2 TMP\_95 = 1 not(TMP\_95) = 0 TMP\_96 = 0 not(TMP\_96) = 1 TMP\_97 = 1 not(TMP\_97) = 0 TMP\_98 = 1 not(TMP\_98) = 0 TMP\_99 = 1 not(TMP\_99) = 0 TMP\_100 = 1 not(TMP\_100) = 0 TMP\_101 = 5 TMP\_102 = 0 not(TMP\_102) = 1 TMP\_103 = 0 not(TMP\_103) = 1 TMP\_104 = 0 TMP\_105 = 1 not(TMP\_105) = 0 TMP\_106 = 1 not(TMP\_106) = 0 TMP\_107 = 2 TMP\_108 = 0 not(TMP\_108) = 1 TMP\_109 = 0 not(TMP\_109) = 1 TMP\_110 = 1 not(TMP\_110) = 0 TMP\_111 = 1 not(TMP\_111) = 0 TMP\_112 = 1 not(TMP\_112) = 0 TMP\_113 = 2 TMP\_114 = 0 not(TMP\_114) = 1 TMP\_115 = 1 not(TMP\_115) = 0 TMP\_116 = 1 not(TMP\_116) = 0 TMP\_117 = 1 not(TMP\_117) = 0 TMP\_118 = 0 not(TMP\_118) = 1 TMP\_119 = 1 not(TMP\_119) = 0 TMP\_120 = 4 TMP\_121 = 0 not(TMP\_121) = 1 TMP\_122 = 0 not(TMP\_122) = 1 TMP\_123 = 0 TMP\_124 = 1 not(TMP\_124) = 0 TMP\_125 = 1 not(TMP\_125) = 0 TMP\_126 = 2 TMP\_127 = 0 not(TMP\_127) = 1 TMP\_128 = 0 not(TMP\_128) = 1 TMP\_129 = 1 not(TMP\_129) = 0 TMP\_130 = 1 not(TMP\_130) = 0 TMP\_131 = 1 not(TMP\_131) = 0 TMP\_132 = 2 TMP\_133 = 1 not(TMP\_133) = 0 TMP\_134 = 1 not(TMP\_134) = 0 TMP\_135 = 1 not(TMP\_135) = 0 TMP\_136 = 1 not(TMP\_136) = 0 TMP\_137 = 0 not(TMP\_137) = 1 TMP\_138 = 1 not(TMP\_138) = 0 TMP\_139 = 5 TMP\_140 = 0 not(TMP\_140) = 1 TMP\_141 = 0 not(TMP\_141) = 1 TMP\_142 = 0 TMP\_143 = 1 not(TMP\_143) = 0 TMP\_144 = 1 not(TMP\_144) = 0 TMP\_145 = 2 TMP\_146 = 0 not(TMP\_146) = 1 TMP\_147 = 0 not(TMP\_147) = 1 TMP\_148 = 1 not(TMP\_148) = 0 TMP\_149 = 1 not(TMP\_149) = 0 TMP\_150 = 1 not(TMP\_150) = 0 TMP\_151 = 2 TMP\_152 = 0 not(TMP\_152) = 1 TMP\_153 = 1 not(TMP\_153) = 0 TMP\_154 = 1 not(TMP\_154) = 0 TMP\_155 = 1 not(TMP\_155) = 0 TMP\_156 = 0 not(TMP\_156) = 1 TMP\_157 = 1 not(TMP\_157) = 0 TMP\_158 = 4 TMP\_159 = 0 not(TMP\_159) = 1 TMP\_160 = 0 not(TMP\_160) = 1 TMP\_161 = 0 TMP\_162 = 1 not(TMP\_162) = 0 TMP\_163 = 1 not(TMP\_163) = 0 TMP\_164 = 2 TMP\_165 = 0 not(TMP\_165) = 1 TMP\_166 = 0 not(TMP\_166) = 1 TMP\_167 = 1 not(TMP\_167) = 0 TMP\_168 = 1 not(TMP\_168) = 0 TMP\_169 = 1 not(TMP\_169) = 0 TMP\_170 = 2 TMP\_171 = 0 not(TMP\_171) = 1 TMP\_172 = 1 not(TMP\_172) = 0 TMP\_173 = 1 not(TMP\_173) = 0 TMP\_174 = 1 not(TMP\_174) = 0 TMP\_175 = 1 not(TMP\_175) = 0 TMP\_176 = 1 not(TMP\_176) = 0 TMP\_177 = 5 TMP\_178 = 0 not(TMP\_178) = 1 TMP\_179 = 0 not(TMP\_179) = 1 TMP\_180 = 0 TMP\_181 = 1 not(TMP\_181) = 0 TMP\_182 = 1 not(TMP\_182) = 0 TMP\_183 = 2 TMP\_184 = 0 not(TMP\_184) = 1 TMP\_185 = 0 not(TMP\_185) = 1 TMP\_186 = 1 not(TMP\_186) = 0 TMP\_187 = 1 not(TMP\_187) = 0 TMP\_188 = 1 not(TMP\_188) = 0 TMP\_189 = 2 TMP\_190 = 1 not(TMP\_190) = 0 TMP\_191 = 1 not(TMP\_191) = 0 TMP\_192 = 1 not(TMP\_192) = 0 TMP\_193 = 1 not(TMP\_193) = 0 TMP\_194 = 0 not(TMP\_194) = 1 TMP\_195 = 1 not(TMP\_195) = 0 TMP\_196 = 5 TMP\_197 = 0 not(TMP\_197) = 1 TMP\_198 = 0 not(TMP\_198) = 1 TMP\_199 = 0 TMP\_200 = 1 not(TMP\_200) = 0 TMP\_201 = 1 not(TMP\_201) = 0 TMP\_202 = 2 TMP\_203 = 0 not(TMP\_203) = 1 TMP\_204 = 0 not(TMP\_204) = 1 TMP\_205 = 1 not(TMP\_205) = 0 TMP\_206 = 1 not(TMP\_206) = 0 TMP\_207 = 1 not(TMP\_207) = 0 TMP\_208 = 2 TMP\_209 = 0 not(TMP\_209) = 1 TMP\_210 = 1 not(TMP\_210) = 0 TMP\_211 = 1 not(TMP\_211) = 0 TMP\_212 = 1 not(TMP\_212) = 0 TMP\_213 = 1 not(TMP\_213) = 0 TMP\_214 = 0 not(TMP\_214) = 1 TMP\_215 = 4 TMP\_216 = 0 not(TMP\_216) = 1 TMP\_217 = 0 not(TMP\_217) = 1 TMP\_218 = 0 TMP\_219 = 1 not(TMP\_219) = 0 TMP\_220 = 1 not(TMP\_220) = 0 TMP\_221 = 2 TMP\_222 = 0 not(TMP\_222) = 1 TMP\_223 = 0 not(TMP\_223) = 1 TMP\_224 = 1 not(TMP\_224) = 0 TMP\_225 = 1 not(TMP\_225) = 0 TMP\_226 = 1 not(TMP\_226) = 0 TMP\_227 = 2 TMP\_228 = 0 not(TMP\_228) = 1 TMP\_229 = 1 not(TMP\_229) = 0 TMP\_230 = 1 not(TMP\_230) = 0 TMP\_231 = 1 not(TMP\_231) = 0 TMP\_232 = 1 not(TMP\_232) = 0 TMP\_233 = 0 not(TMP\_233) = 1 TMP\_234 = 4 TMP\_235 = 0 not(TMP\_235) = 1 TMP\_236 = 0 not(TMP\_236) = 1 TMP\_237 = 0 TMP\_238 = 1 not(TMP\_238) = 0 TMP\_239 = 1 not(TMP\_239) = 0 TMP\_240 = 2 TMP\_241 = 0 not(TMP\_241) = 1 TMP\_242 = 0 not(TMP\_242) = 1 TMP\_243 = 1 not(TMP\_243) = 0 TMP\_244 = 1 not(TMP\_244) = 0 TMP\_245 = 1 not(TMP\_245) = 0 TMP\_246 = 2 TMP\_247 = 0 not(TMP\_247) = 1 TMP\_248 = 1 not(TMP\_248) = 0 TMP\_249 = 1 not(TMP\_249) = 0 TMP\_250 = 0 not(TMP\_250) = 1 TMP\_251 = 1 not(TMP\_251) = 0 TMP\_252 = 1 not(TMP\_252) = 0 TMP\_253 = 4 TMP\_254 = 0 not(TMP\_254) = 1 TMP\_255 = 0 not(TMP\_255) = 1 TMP\_256 = 0 TMP\_257 = 1 not(TMP\_257) = 0 TMP\_258 = 1 not(TMP\_258) = 0 TMP\_259 = 2 TMP\_260 = 0 not(TMP\_260) = 1 TMP\_261 = 0 not(TMP\_261) = 1 TMP\_262 = 1 not(TMP\_262) = 0 TMP\_263 = 1 not(TMP\_263) = 0 TMP\_264 = 1 not(TMP\_264) = 0 TMP\_265 = 2 TMP\_266 = 0 not(TMP\_266) = 1 TMP\_267 = 1 not(TMP\_267) = 0 TMP\_268 = 1 not(TMP\_268) = 0 TMP\_269 = 1 not(TMP\_269) = 0 TMP\_270 = 1 not(TMP\_270) = 0 TMP\_271 = 1 not(TMP\_271) = 0 TMP\_272 = 5 TMP\_273 = 0 not(TMP\_273) = 1 TMP\_274 = 0 not(TMP\_274) = 1 TMP\_275 = 0 TMP\_276 = 1 not(TMP\_276) = 0 TMP\_277 = 1 not(TMP\_277) = 0 TMP\_278 = 2 TMP\_279 = 0 not(TMP\_279) = 1 TMP\_280 = 0 not(TMP\_280) = 1 TMP\_281 = 1 not(TMP\_281) = 0 TMP\_282 = 1 not(TMP\_282) = 0 TMP\_283 = 1 not(TMP\_283) = 0 TMP\_284 = 2 TMP\_285 = 1 not(TMP\_285) = 0 TMP\_286 = 0 not(TMP\_286) = 1 TMP\_287 = 1 not(TMP\_287) = 0 TMP\_288 = 1 not(TMP\_288) = 0 TMP\_289 = 1 not(TMP\_289) = 0 TMP\_290 = 1 not(TMP\_290) = 0 TMP\_291 = 5 TMP\_292 = 0 not(TMP\_292) = 1 TMP\_293 = 0 not(TMP\_293) = 1 TMP\_294 = 0 TMP\_295 = 1 not(TMP\_295) = 0 TMP\_296 = 1 not(TMP\_296) = 0 TMP\_297 = 2 TMP\_298 = 0 not(TMP\_298) = 1 TMP\_299 = 0 not(TMP\_299) = 1 TMP\_300 = 1 not(TMP\_300) = 0 TMP\_301 = 1 not(TMP\_301) = 0 TMP\_302 = 1 not(TMP\_302) = 0 TMP\_303 = 2 TMP\_304 = 1 not(TMP\_304) = 0 TMP\_305 = 0 not(TMP\_305) = 1 TMP\_306 = 1 not(TMP\_306) = 0 TMP\_307 = 1 not(TMP\_307) = 0 TMP\_308 = 1 not(TMP\_308) = 0 TMP\_309 = 0 not(TMP\_309) = 1 TMP\_310 = 4 TMP\_311 = 0 not(TMP\_311) = 1 TMP\_312 = 0 not(TMP\_312) = 1 TMP\_313 = 0 TMP\_314 = 1 not(TMP\_314) = 0 TMP\_315 = 1 not(TMP\_315) = 0 TMP\_316 = 2 TMP\_317 = 0 not(TMP\_317) = 1 TMP\_318 = 0 not(TMP\_318) = 1 TMP\_319 = 1 not(TMP\_319) = 0 TMP\_320 = 1 not(TMP\_320) = 0 TMP\_321 = 1 not(TMP\_321) = 0 TMP\_322 = 2 TMP\_323 = 0 not(TMP\_323) = 1 TMP\_324 = 1 not(TMP\_324) = 0 TMP\_325 = 1 not(TMP\_325) = 0 TMP\_326 = 1 not(TMP\_326) = 0 TMP\_327 = 1 not(TMP\_327) = 0 TMP\_328 = 1 not(TMP\_328) = 0 TMP\_329 = 5 TMP\_330 = 0 not(TMP\_330) = 1 TMP\_331 = 0 not(TMP\_331) = 1 TMP\_332 = 0 TMP\_333 = 1 not(TMP\_333) = 0 TMP\_334 = 1 not(TMP\_334) = 0 TMP\_335 = 2 TMP\_336 = 0 not(TMP\_336) = 1 TMP\_337 = 0 not(TMP\_337) = 1 TMP\_338 = 1 not(TMP\_338) = 0 TMP\_339 = 1 not(TMP\_339) = 0 TMP\_340 = 1 not(TMP\_340) = 0 TMP\_341 = 2 TMP\_342 = 1 not(TMP\_342) = 0 TMP\_343 = 1 not(TMP\_343) = 0 TMP\_344 = 1 not(TMP\_344) = 0 TMP\_345 = 1 not(TMP\_345) = 0 TMP\_346 = 1 not(TMP\_346) = 0 TMP\_347 = 0 not(TMP\_347) = 1 TMP\_348 = 5 TMP\_349 = 0 not(TMP\_349) = 1 TMP\_350 = 0 not(TMP\_350) = 1 TMP\_351 = 0 TMP\_352 = 1 not(TMP\_352) = 0 TMP\_353 = 1 not(TMP\_353) = 0 TMP\_354 = 2 TMP\_355 = 0 not(TMP\_355) = 1 TMP\_356 = 0 not(TMP\_356) = 1 TMP\_357 = 1 not(TMP\_357) = 0 TMP\_358 = 1 not(TMP\_358) = 0 TMP\_359 = 1 not(TMP\_359) = 0 TMP\_360 = 2 TMP\_361 = 0 not(TMP\_361) = 1 TMP\_362 = 1 not(TMP\_362) = 0 TMP\_363 = 1 not(TMP\_363) = 0 TMP\_364 = 1 not(TMP\_364) = 0 TMP\_365 = 1 not(TMP\_365) = 0 TMP\_366 = 1 not(TMP\_366) = 0 TMP\_367 = 5 TMP\_368 = 0 not(TMP\_368) = 1 TMP\_369 = 0 not(TMP\_369) = 1 TMP\_370 = 0 TMP\_371 = 1 not(TMP\_371) = 0 TMP\_372 = 1 not(TMP\_372) = 0 TMP\_373 = 2 TMP\_374 = 0 not(TMP\_374) = 1 TMP\_375 = 0 not(TMP\_375) = 1 TMP\_376 = 1 not(TMP\_376) = 0 TMP\_377 = 1 not(TMP\_377) = 0 TMP\_378 = 1 not(TMP\_378) = 0 TMP\_379 = 2 TMP\_380 = 0 not(TMP\_380) = 1 TMP\_381 = 1 not(TMP\_381) = 0 TMP\_382 = 1 not(TMP\_382) = 0 TMP\_383 = 1 not(TMP\_383) = 0 TMP\_384 = 1 not(TMP\_384) = 0 TMP\_385 = 0 not(TMP\_385) = 1 TMP\_386 = 4 TMP\_387 = 0 not(TMP\_387) = 1 TMP\_388 = 0 not(TMP\_388) = 1 TMP\_389 = 0 TMP\_390 = 1 not(TMP\_390) = 0 TMP\_391 = 1 not(TMP\_391) = 0 TMP\_392 = 2 TMP\_393 = 0 not(TMP\_393) = 1 TMP\_394 = 0 not(TMP\_394) = 1 TMP\_395 = 1 not(TMP\_395) = 0 TMP\_396 = 1 not(TMP\_396) = 0 TMP\_397 = 1 not(TMP\_397) = 0 TMP\_398 = 2 TMP\_399 = 1 not(TMP\_399) = 0 TMP\_400 = 1 not(TMP\_400) = 0 TMP\_401 = 1 not(TMP\_401) = 0 TMP\_402 = 0 not(TMP\_402) = 1 TMP\_403 = 1 not(TMP\_403) = 0 TMP\_404 = 1 not(TMP\_404) = 0 TMP\_405 = 5 TMP\_406 = 0 not(TMP\_406) = 1 TMP\_407 = 0 not(TMP\_407) = 1 TMP\_408 = 0 TMP\_409 = 1 not(TMP\_409) = 0 TMP\_410 = 1 not(TMP\_410) = 0 TMP\_411 = 2 TMP\_412 = 0 not(TMP\_412) = 1 TMP\_413 = 0 not(TMP\_413) = 1 TMP\_414 = 1 not(TMP\_414) = 0 TMP\_415 = 1 not(TMP\_415) = 0 TMP\_416 = 1 not(TMP\_416) = 0 TMP\_417 = 2 TMP\_418 = 0 not(TMP\_418) = 1 TMP\_419 = 1 not(TMP\_419) = 0 TMP\_420 = 1 not(TMP\_420) = 0 TMP\_421 = 1 not(TMP\_421) = 0 TMP\_422 = 1 not(TMP\_422) = 0 TMP\_423 = 0 not(TMP\_423) = 1 TMP\_424 = 4 TMP\_425 = 0 not(TMP\_425) = 1 TMP\_426 = 0 not(TMP\_426) = 1 TMP\_427 = 0 TMP\_428 = 1 not(TMP\_428) = 0 TMP\_429 = 1 not(TMP\_429) = 0 TMP\_430 = 2 TMP\_431 = 0 not(TMP\_431) = 1 TMP\_432 = 0 not(TMP\_432) = 1 TMP\_433 = 1 not(TMP\_433) = 0 TMP\_434 = 1 not(TMP\_434) = 0 TMP\_435 = 1 not(TMP\_435) = 0 TMP\_436 = 2 TMP\_437 = 1 not(TMP\_437) = 0 TMP\_438 = 0 not(TMP\_438) = 1 TMP\_439 = 1 not(TMP\_439) = 0 TMP\_440 = 1 not(TMP\_440) = 0 TMP\_441 = 1 not(TMP\_441) = 0 TMP\_442 = 0 not(TMP\_442) = 1 TMP\_443 = 4 TMP\_444 = 0 not(TMP\_444) = 1 TMP\_445 = 0 not(TMP\_445) = 1 TMP\_446 = 0 TMP\_447 = 1 not(TMP\_447) = 0 TMP\_448 = 1 not(TMP\_448) = 0 TMP\_449 = 2 TMP\_450 = 0 not(TMP\_450) = 1 TMP\_451 = 0 not(TMP\_451) = 1 TMP\_452 = 1 not(TMP\_452) = 0 TMP\_453 = 1 not(TMP\_453) = 0 TMP\_454 = 1 not(TMP\_454) = 0 TMP\_455 = 2 TMP\_456 = 1 not(TMP\_456) = 0 TMP\_457 = 0 not(TMP\_457) = 1 TMP\_458 = 1 not(TMP\_458) = 0 TMP\_459 = 1 not(TMP\_459) = 0 TMP\_460 = 1 not(TMP\_460) = 0 TMP\_461 = 1 not(TMP\_461) = 0 TMP\_462 = 5 TMP\_463 = 0 not(TMP\_463) = 1 TMP\_464 = 0 not(TMP\_464) = 1 TMP\_465 = 0 TMP\_466 = 1 not(TMP\_466) = 0 TMP\_467 = 1 not(TMP\_467) = 0 TMP\_468 = 2 TMP\_469 = 0 not(TMP\_469) = 1 TMP\_470 = 0 not(TMP\_470) = 1 TMP\_471 = 1 not(TMP\_471) = 0 TMP\_472 = 1 not(TMP\_472) = 0 TMP\_473 = 1 not(TMP\_473) = 0 TMP\_474 = 2 TMP\_475 = 1 not(TMP\_475) = 0 TMP\_476 = 0 not(TMP\_476) = 1 TMP\_477 = 1 not(TMP\_477) = 0 TMP\_478 = 1 not(TMP\_478) = 0 TMP\_479 = 1 not(TMP\_479) = 0 TMP\_480 = 1 not(TMP\_480) = 0 TMP\_481 = 5 TMP\_482 = 0 not(TMP\_482) = 1 TMP\_483 = 0 not(TMP\_483) = 1 TMP\_484 = 0 TMP\_485 = 1 not(TMP\_485) = 0 TMP\_486 = 1 not(TMP\_486) = 0 TMP\_487 = 2 TMP\_488 = 0 not(TMP\_488) = 1 TMP\_489 = 0 not(TMP\_489) = 1 TMP\_490 = 1 not(TMP\_490) = 0 TMP\_491 = 1 not(TMP\_491) = 0 TMP\_492 = 1 not(TMP\_492) = 0 TMP\_493 = 2 TMP\_494 = 1 not(TMP\_494) = 0 TMP\_495 = 0 not(TMP\_495) = 1 TMP\_496 = 1 not(TMP\_496) = 0 TMP\_497 = 1 not(TMP\_497) = 0 TMP\_498 = 1 not(TMP\_498) = 0 TMP\_499 = 1 not(TMP\_499) = 0 TMP\_500 = 5 TMP\_501 = 0 not(TMP\_501) = 1 TMP\_502 = 0 not(TMP\_502) = 1 TMP\_503 = 0 TMP\_504 = 1 not(TMP\_504) = 0 TMP\_505 = 1 not(TMP\_505) = 0 TMP\_506 = 2 TMP\_507 = 0 not(TMP\_507) = 1 TMP\_508 = 0 not(TMP\_508) = 1 TMP\_509 = 1 not(TMP\_509) = 0 TMP\_510 = 1 not(TMP\_510) = 0 TMP\_511 = 1 not(TMP\_511) = 0 TMP\_512 = 2 TMP\_513 = 1 not(TMP\_513) = 0 TMP\_514 = 0 not(TMP\_514) = 1 TMP\_515 = 1 not(TMP\_515) = 0 TMP\_516 = 1 not(TMP\_516) = 0 TMP\_517 = 1 not(TMP\_517) = 0 TMP\_518 = 0 not(TMP\_518) = 1 TMP\_519 = 4 TMP\_520 = 0 not(TMP\_520) = 1 TMP\_521 = 0 not(TMP\_521) = 1 TMP\_522 = 0 TMP\_523 = 1 not(TMP\_523) = 0 TMP\_524 = 1 not(TMP\_524) = 0 TMP\_525 = 2 TMP\_526 = 0 not(TMP\_526) = 1 TMP\_527 = 0 not(TMP\_527) = 1 TMP\_528 = 1 not(TMP\_528) = 0 TMP\_529 = 1 not(TMP\_529) = 0 TMP\_530 = 1 not(TMP\_530) = 0 TMP\_531 = 2 TMP\_532 = 0 not(TMP\_532) = 1 TMP\_533 = 1 not(TMP\_533) = 0 TMP\_534 = 1 not(TMP\_534) = 0 TMP\_535 = 1 not(TMP\_535) = 0 TMP\_536 = 1 not(TMP\_536) = 0 TMP\_537 = 1 not(TMP\_537) = 0 TMP\_538 = 5 TMP\_539 = 0 not(TMP\_539) = 1 TMP\_540 = 0 not(TMP\_540) = 1 TMP\_541 = 0 TMP\_542 = 1 not(TMP\_542) = 0 TMP\_543 = 1 not(TMP\_543) = 0 TMP\_544 = 2 TMP\_545 = 0 not(TMP\_545) = 1 TMP\_546 = 0 not(TMP\_546) = 1 TMP\_547 = 1 not(TMP\_547) = 0 TMP\_548 = 1 not(TMP\_548) = 0 TMP\_549 = 1 not(TMP\_549) = 0 TMP\_550 = 2 TMP\_551 = 1 not(TMP\_551) = 0 TMP\_552 = 0 not(TMP\_552) = 1 TMP\_553 = 1 not(TMP\_553) = 0 TMP\_554 = 1 not(TMP\_554) = 0 TMP\_555 = 1 not(TMP\_555) = 0 TMP\_556 = 0 not(TMP\_556) = 1 TMP\_557 = 4 TMP\_558 = 0 not(TMP\_558) = 1 TMP\_559 = 0 not(TMP\_559) = 1 TMP\_560 = 0 TMP\_561 = 1 not(TMP\_561) = 0 TMP\_562 = 1 not(TMP\_562) = 0 TMP\_563 = 2 TMP\_564 = 0 not(TMP\_564) = 1 TMP\_565 = 0 not(TMP\_565) = 1 TMP\_566 = 1 not(TMP\_566) = 0 TMP\_567 = 1 not(TMP\_567) = 0 TMP\_568 = 1 not(TMP\_568) = 0 TMP\_569 = 2 TMP\_570 = 1 not(TMP\_570) = 0 TMP\_571 = 0 not(TMP\_571) = 1 TMP\_572 = 1 not(TMP\_572) = 0 TMP\_573 = 1 not(TMP\_573) = 0 TMP\_574 = 1 not(TMP\_574) = 0 TMP\_575 = 1 not(TMP\_575) = 0 TMP\_576 = 5 TMP\_577 = 0 not(TMP\_577) = 1 TMP\_578 = 0 not(TMP\_578) = 1 TMP\_579 = 0 TMP\_580 = 1 not(TMP\_580) = 0 TMP\_581 = 1 not(TMP\_581) = 0 TMP\_582 = 2 TMP\_583 = 0 not(TMP\_583) = 1 TMP\_584 = 0 not(TMP\_584) = 1 TMP\_585 = 1 not(TMP\_585) = 0 TMP\_586 = 1 not(TMP\_586) = 0 TMP\_587 = 1 not(TMP\_587) = 0 TMP\_588 = 2 TMP\_589 = 1 not(TMP\_589) = 0 TMP\_590 = 1 not(TMP\_590) = 0 TMP\_591 = 1 not(TMP\_591) = 0 TMP\_592 = 1 not(TMP\_592) = 0 TMP\_593 = 1 not(TMP\_593) = 0 TMP\_594 = 0 not(TMP\_594) = 1 TMP\_595 = 5 TMP\_596 = 0 not(TMP\_596) = 1 TMP\_597 = 0 not(TMP\_597) = 1 TMP\_598 = 0 TMP\_599 = 1 not(TMP\_599) = 0 TMP\_600 = 1 not(TMP\_600) = 0 TMP\_601 = 2 TMP\_602 = 0 not(TMP\_602) = 1 TMP\_603 = 0 not(TMP\_603) = 1 TMP\_604 = 1 not(TMP\_604) = 0 TMP\_605 = 1 not(TMP\_605) = 0 TMP\_606 = 1 not(TMP\_606) = 0 TMP\_607 = 2 TMP\_608 = 1 not(TMP\_608) = 0 TMP\_609 = 0 not(TMP\_609) = 1 TMP\_610 = 1 not(TMP\_610) = 0 TMP\_611 = 1 not(TMP\_611) = 0 TMP\_612 = 1 not(TMP\_612) = 0 TMP\_613 = 1 not(TMP\_613) = 0 TMP\_614 = 5 TMP\_615 = 0 not(TMP\_615) = 1 TMP\_616 = 0 not(TMP\_616) = 1 TMP\_617 = 0 TMP\_618 = 1 not(TMP\_618) = 0 TMP\_619 = 1 not(TMP\_619) = 0 TMP\_620 = 2 TMP\_621 = 0 not(TMP\_621) = 1 TMP\_622 = 0 not(TMP\_622) = 1 TMP\_623 = 1 not(TMP\_623) = 0 TMP\_624 = 1 not(TMP\_624) = 0 TMP\_625 = 1 not(TMP\_625) = 0 TMP\_626 = 2 TMP\_627 = 0 not(TMP\_627) = 1 TMP\_628 = 1 not(TMP\_628) = 0 TMP\_629 = 1 not(TMP\_629) = 0 TMP\_630 = 1 not(TMP\_630) = 0 TMP\_631 = 1 not(TMP\_631) = 0 TMP\_632 = 1 not(TMP\_632) = 0 TMP\_633 = 5 TMP\_634 = 0 not(TMP\_634) = 1 TMP\_635 = 0 not(TMP\_635) = 1 TMP\_636 = 0 TMP\_637 = 1 not(TMP\_637) = 0 TMP\_638 = 1 not(TMP\_638) = 0 TMP\_639 = 2 TMP\_640 = 0 not(TMP\_640) = 1 TMP\_641 = 0 not(TMP\_641) = 1 TMP\_642 = 1 not(TMP\_642) = 0 TMP\_643 = 1 not(TMP\_643) = 0 TMP\_644 = 1 not(TMP\_644) = 0 TMP\_645 = 2 TMP\_646 = 1 not(TMP\_646) = 0 TMP\_647 = 0 not(TMP\_647) = 1 TMP\_648 = 1 not(TMP\_648) = 0 TMP\_649 = 1 not(TMP\_649) = 0 TMP\_650 = 1 not(TMP\_650) = 0 TMP\_651 = 1 not(TMP\_651) = 0 TMP\_652 = 5 TMP\_653 = 0 not(TMP\_653) = 1 TMP\_654 = 0 not(TMP\_654) = 1 TMP\_655 = 0 TMP\_656 = 1 not(TMP\_656) = 0 TMP\_657 = 1 not(TMP\_657) = 0 TMP\_658 = 2 TMP\_659 = 0 not(TMP\_659) = 1 TMP\_660 = 0 not(TMP\_660) = 1 TMP\_661 = 1 not(TMP\_661) = 0 TMP\_662 = 1 not(TMP\_662) = 0 TMP\_663 = 1 not(TMP\_663) = 0 TMP\_664 = 2 TMP\_665 = 1 not(TMP\_665) = 0 TMP\_666 = 0 not(TMP\_666) = 1 TMP\_667 = 1 not(TMP\_667) = 0 TMP\_668 = 1 not(TMP\_668) = 0 TMP\_669 = 0 not(TMP\_669) = 1 TMP\_670 = 1 not(TMP\_670) = 0 TMP\_671 = 4 TMP\_672 = 0 not(TMP\_672) = 1 TMP\_673 = 0 not(TMP\_673) = 1 TMP\_674 = 0 TMP\_675 = 1 not(TMP\_675) = 0 TMP\_676 = 1 not(TMP\_676) = 0 TMP\_677 = 2 TMP\_678 = 0 not(TMP\_678) = 1 TMP\_679 = 0 not(TMP\_679) = 1 TMP\_680 = 1 not(TMP\_680) = 0 TMP\_681 = 1 not(TMP\_681) = 0 TMP\_682 = 1 not(TMP\_682) = 0 TMP\_683 = 2 TMP\_684 = 1 not(TMP\_684) = 0 TMP\_685 = 0 not(TMP\_685) = 1 TMP\_686 = 1 not(TMP\_686) = 0 TMP\_687 = 1 not(TMP\_687) = 0 TMP\_688 = 0 not(TMP\_688) = 1 TMP\_689 = 1 not(TMP\_689) = 0 TMP\_690 = 4 TMP\_691 = 0 not(TMP\_691) = 1 TMP\_692 = 0 not(TMP\_692) = 1 TMP\_693 = 0 TMP\_694 = 1 not(TMP\_694) = 0 TMP\_695 = 1 not(TMP\_695) = 0 TMP\_696 = 2 TMP\_697 = 0 not(TMP\_697) = 1 TMP\_698 = 0 not(TMP\_698) = 1 TMP\_699 = 1 not(TMP\_699) = 0 TMP\_700 = 1 not(TMP\_700) = 0 TMP\_701 = 1 not(TMP\_701) = 0 TMP\_702 = 2 TMP\_703 = 1 not(TMP\_703) = 0 TMP\_704 = 0 not(TMP\_704) = 1 TMP\_705 = 1 not(TMP\_705) = 0 TMP\_706 = 1 not(TMP\_706) = 0 TMP\_707 = 0 not(TMP\_707) = 1 TMP\_708 = 1 not(TMP\_708) = 0 TMP\_709 = 4 TMP\_710 = 0 not(TMP\_710) = 1 TMP\_711 = 0 not(TMP\_711) = 1 TMP\_712 = 0 TMP\_713 = 1 not(TMP\_713) = 0 TMP\_714 = 1 not(TMP\_714) = 0 TMP\_715 = 2 TMP\_716 = 0 not(TMP\_716) = 1 TMP\_717 = 0 not(TMP\_717) = 1 TMP\_718 = 1 not(TMP\_718) = 0 TMP\_719 = 1 not(TMP\_719) = 0 TMP\_720 = 1 not(TMP\_720) = 0 TMP\_721 = 2 TMP\_722 = 1 not(TMP\_722) = 0 TMP\_723 = 0 not(TMP\_723) = 1 TMP\_724 = 1 not(TMP\_724) = 0 TMP\_725 = 1 not(TMP\_725) = 0 TMP\_726 = 1 not(TMP\_726) = 0 TMP\_727 = 1 not(TMP\_727) = 0 TMP\_728 = 5 TMP\_729 = 0 not(TMP\_729) = 1 TMP\_730 = 0 not(TMP\_730) = 1 TMP\_731 = 0 TMP\_732 = 1 not(TMP\_732) = 0 TMP\_733 = 1 not(TMP\_733) = 0 TMP\_734 = 2 TMP\_735 = 0 not(TMP\_735) = 1 TMP\_736 = 0 not(TMP\_736) = 1 TMP\_737 = 1 not(TMP\_737) = 0 TMP\_738 = 1 not(TMP\_738) = 0 TMP\_739 = 1 not(TMP\_739) = 0 TMP\_740 = 2 TMP\_741 = 0 not(TMP\_741) = 1 TMP\_742 = 1 not(TMP\_742) = 0 TMP\_743 = 1 not(TMP\_743) = 0 TMP\_744 = 1 not(TMP\_744) = 0 TMP\_745 = 0 not(TMP\_745) = 1 TMP\_746 = 1 not(TMP\_746) = 0 TMP\_747 = 4 TMP\_748 = 0 not(TMP\_748) = 1 TMP\_749 = 0 not(TMP\_749) = 1 TMP\_750 = 0 TMP\_751 = 1 not(TMP\_751) = 0 TMP\_752 = 1 not(TMP\_752) = 0 TMP\_753 = 2 TMP\_754 = 0 not(TMP\_754) = 1 TMP\_755 = 0 not(TMP\_755) = 1 TMP\_756 = 1 not(TMP\_756) = 0 TMP\_757 = 1 not(TMP\_757) = 0 TMP\_758 = 1 not(TMP\_758) = 0 TMP\_759 = 2 TMP\_760 = 1 not(TMP\_760) = 0 TMP\_761 = 0 not(TMP\_761) = 1 TMP\_762 = 1 not(TMP\_762) = 0 TMP\_763 = 1 not(TMP\_763) = 0 TMP\_764 = 1 not(TMP\_764) = 0 TMP\_765 = 1 not(TMP\_765) = 0 TMP\_766 = 5 TMP\_767 = 0 not(TMP\_767) = 1 TMP\_768 = 0 not(TMP\_768) = 1 TMP\_769 = 0 TMP\_770 = 1 not(TMP\_770) = 0 TMP\_771 = 1 not(TMP\_771) = 0 TMP\_772 = 2 TMP\_773 = 0 not(TMP\_773) = 1 TMP\_774 = 0 not(TMP\_774) = 1 TMP\_775 = 1 not(TMP\_775) = 0 TMP\_776 = 1 not(TMP\_776) = 0 TMP\_777 = 1 not(TMP\_777) = 0 TMP\_778 = 2 TMP\_779 = 1 not(TMP\_779) = 0 TMP\_780 = 0 not(TMP\_780) = 1 TMP\_781 = 1 not(TMP\_781) = 0 TMP\_782 = 1 not(TMP\_782) = 0 TMP\_783 = 0 not(TMP\_783) = 1 TMP\_784 = 1 not(TMP\_784) = 0 TMP\_785 = 4 TMP\_786 = 0 not(TMP\_786) = 1 TMP\_787 = 0 not(TMP\_787) = 1 TMP\_788 = 0 TMP\_789 = 1 not(TMP\_789) = 0 TMP\_790 = 1 not(TMP\_790) = 0 TMP\_791 = 2 TMP\_792 = 0 not(TMP\_792) = 1 TMP\_793 = 0 not(TMP\_793) = 1 TMP\_794 = 1 not(TMP\_794) = 0 TMP\_795 = 1 not(TMP\_795) = 0 TMP\_796 = 1 not(TMP\_796) = 0 TMP\_797 = 2 TMP\_798 = 1 not(TMP\_798) = 0 TMP\_799 = 1 not(TMP\_799) = 0 TMP\_800 = 1 not(TMP\_800) = 0 TMP\_801 = 1 not(TMP\_801) = 0 TMP\_802 = 0 not(TMP\_802) = 1 TMP\_803 = 1 not(TMP\_803) = 0 TMP\_804 = 5 TMP\_805 = 0 not(TMP\_805) = 1 TMP\_806 = 0 not(TMP\_806) = 1 TMP\_807 = 0 TMP\_808 = 1 not(TMP\_808) = 0 TMP\_809 = 1 not(TMP\_809) = 0 TMP\_810 = 2 TMP\_811 = 0 not(TMP\_811) = 1 TMP\_812 = 0 not(TMP\_812) = 1 TMP\_813 = 1 not(TMP\_813) = 0 TMP\_814 = 1 not(TMP\_814) = 0 TMP\_815 = 1 not(TMP\_815) = 0 TMP\_816 = 2 TMP\_817 = 1 not(TMP\_817) = 0 TMP\_818 = 0 not(TMP\_818) = 1 TMP\_819 = 1 not(TMP\_819) = 0 TMP\_820 = 1 not(TMP\_820) = 0 TMP\_821 = 0 not(TMP\_821) = 1 TMP\_822 = 1 not(TMP\_822) = 0 TMP\_823 = 4 TMP\_824 = 0 not(TMP\_824) = 1 TMP\_825 = 0 not(TMP\_825) = 1 TMP\_826 = 0 TMP\_827 = 1 not(TMP\_827) = 0 TMP\_828 = 1 not(TMP\_828) = 0 TMP\_829 = 2 TMP\_830 = 0 not(TMP\_830) = 1 TMP\_831 = 0 not(TMP\_831) = 1 TMP\_832 = 1 not(TMP\_832) = 0 TMP\_833 = 1 not(TMP\_833) = 0 TMP\_834 = 1 not(TMP\_834) = 0 TMP\_835 = 2 TMP\_836 = 0 not(TMP\_836) = 1 TMP\_837 = 1 not(TMP\_837) = 0 TMP\_838 = 1 not(TMP\_838) = 0 TMP\_839 = 1 not(TMP\_839) = 0 TMP\_840 = 1 not(TMP\_840) = 0 TMP\_841 = 0 not(TMP\_841) = 1 TMP\_842 = 4 TMP\_843 = 0 not(TMP\_843) = 1 TMP\_844 = 0 not(TMP\_844) = 1 TMP\_845 = 0 TMP\_846 = 1 not(TMP\_846) = 0 TMP\_847 = 1 not(TMP\_847) = 0 TMP\_848 = 2 TMP\_849 = 0 not(TMP\_849) = 1 TMP\_850 = 0 not(TMP\_850) = 1 TMP\_851 = 1 not(TMP\_851) = 0 TMP\_852 = 1 not(TMP\_852) = 0 TMP\_853 = 1 not(TMP\_853) = 0 TMP\_854 = 2 TMP\_855 = 0 not(TMP\_855) = 1 TMP\_856 = 1 not(TMP\_856) = 0 TMP\_857 = 1 not(TMP\_857) = 0 TMP\_858 = 1 not(TMP\_858) = 0 TMP\_859 = 1 not(TMP\_859) = 0 TMP\_860 = 0 not(TMP\_860) = 1 TMP\_861 = 4 TMP\_862 = 0 not(TMP\_862) = 1 TMP\_863 = 0 not(TMP\_863) = 1 TMP\_864 = 0 TMP\_865 = 1 not(TMP\_865) = 0 TMP\_866 = 1 not(TMP\_866) = 0 TMP\_867 = 2 TMP\_868 = 0 not(TMP\_868) = 1 TMP\_869 = 0 not(TMP\_869) = 1 TMP\_870 = 1 not(TMP\_870) = 0 TMP\_871 = 1 not(TMP\_871) = 0 TMP\_872 = 1 not(TMP\_872) = 0 TMP\_873 = 2 TMP\_874 = 0 not(TMP\_874) = 1 TMP\_875 = 1 not(TMP\_875) = 0 TMP\_876 = 1 not(TMP\_876) = 0 TMP\_877 = 1 not(TMP\_877) = 0 TMP\_878 = 1 not(TMP\_878) = 0 TMP\_879 = 1 not(TMP\_879) = 0 TMP\_880 = 5 TMP\_881 = 0 not(TMP\_881) = 1 TMP\_882 = 0 not(TMP\_882) = 1 TMP\_883 = 0 TMP\_884 = 1 not(TMP\_884) = 0 TMP\_885 = 1 not(TMP\_885) = 0 TMP\_886 = 2 TMP\_887 = 0 not(TMP\_887) = 1 TMP\_888 = 0 not(TMP\_888) = 1 TMP\_889 = 1 not(TMP\_889) = 0 TMP\_890 = 1 not(TMP\_890) = 0 TMP\_891 = 1 not(TMP\_891) = 0 TMP\_892 = 2 TMP\_893 = 0 not(TMP\_893) = 1 TMP\_894 = 1 not(TMP\_894) = 0 TMP\_895 = 0 not(TMP\_895) = 1 TMP\_896 = 1 not(TMP\_896) = 0 TMP\_897 = 1 not(TMP\_897) = 0 TMP\_898 = 1 not(TMP\_898) = 0 TMP\_899 = 4 TMP\_900 = 0 not(TMP\_900) = 1 TMP\_901 = 0 not(TMP\_901) = 1 TMP\_902 = 0 TMP\_903 = 1 not(TMP\_903) = 0 TMP\_904 = 1 not(TMP\_904) = 0 TMP\_905 = 2 TMP\_906 = 0 not(TMP\_906) = 1 TMP\_907 = 0 not(TMP\_907) = 1 TMP\_908 = 1 not(TMP\_908) = 0 TMP\_909 = 1 not(TMP\_909) = 0 TMP\_910 = 1 not(TMP\_910) = 0 TMP\_911 = 2 TMP\_912 = 1 not(TMP\_912) = 0 TMP\_913 = 0 not(TMP\_913) = 1 TMP\_914 = 1 not(TMP\_914) = 0 TMP\_915 = 1 not(TMP\_915) = 0 TMP\_916 = 1 not(TMP\_916) = 0 TMP\_917 = 1 not(TMP\_917) = 0 TMP\_918 = 5 TMP\_919 = 0 not(TMP\_919) = 1 TMP\_920 = 0 not(TMP\_920) = 1 TMP\_921 = 0 TMP\_922 = 1 not(TMP\_922) = 0 TMP\_923 = 1 not(TMP\_923) = 0 TMP\_924 = 2 TMP\_925 = 0 not(TMP\_925) = 1 TMP\_926 = 0 not(TMP\_926) = 1 TMP\_927 = 1 not(TMP\_927) = 0 TMP\_928 = 1 not(TMP\_928) = 0 TMP\_929 = 1 not(TMP\_929) = 0 TMP\_930 = 2 TMP\_931 = 1 not(TMP\_931) = 0 TMP\_932 = 0 not(TMP\_932) = 1 TMP\_933 = 1 not(TMP\_933) = 0 TMP\_934 = 1 not(TMP\_934) = 0 TMP\_935 = 1 not(TMP\_935) = 0 TMP\_936 = 0 not(TMP\_936) = 1 TMP\_937 = 4 TMP\_938 = 0 not(TMP\_938) = 1 TMP\_939 = 0 not(TMP\_939) = 1 TMP\_940 = 0 TMP\_941 = 1 not(TMP\_941) = 0 TMP\_942 = 1 not(TMP\_942) = 0 TMP\_943 = 2 TMP\_944 = 0 not(TMP\_944) = 1 TMP\_945 = 0 not(TMP\_945) = 1 TMP\_946 = 1 not(TMP\_946) = 0 TMP\_947 = 1 not(TMP\_947) = 0 TMP\_948 = 1 not(TMP\_948) = 0 TMP\_949 = 2 TMP\_950 = 0 not(TMP\_950) = 1 TMP\_951 = 1 not(TMP\_951) = 0 TMP\_952 = 1 not(TMP\_952) = 0 TMP\_953 = 1 not(TMP\_953) = 0 TMP\_954 = 1 not(TMP\_954) = 0 TMP\_955 = 1 not(TMP\_955) = 0 TMP\_956 = 5 TMP\_957 = 0 not(TMP\_957) = 1 TMP\_958 = 0 not(TMP\_958) = 1 TMP\_959 = 0 TMP\_960 = 1 not(TMP\_960) = 0 TMP\_961 = 1 not(TMP\_961) = 0 TMP\_962 = 2 TMP\_963 = 0 not(TMP\_963) = 1 TMP\_964 = 0 not(TMP\_964) = 1 TMP\_965 = 1 not(TMP\_965) = 0 TMP\_966 = 1 not(TMP\_966) = 0 TMP\_967 = 1 not(TMP\_967) = 0 TMP\_968 = 2 TMP\_969 = 1 not(TMP\_969) = 0 TMP\_970 = 1 not(TMP\_970) = 0 TMP\_971 = 1 not(TMP\_971) = 0 TMP\_972 = 1 not(TMP\_972) = 0 TMP\_973 = 1 not(TMP\_973) = 0 TMP\_974 = 0 not(TMP\_974) = 1 TMP\_975 = 5 TMP\_976 = 0 not(TMP\_976) = 1 TMP\_977 = 0 not(TMP\_977) = 1 TMP\_978 = 0 TMP\_979 = 1 not(TMP\_979) = 0 TMP\_980 = 1 not(TMP\_980) = 0 TMP\_981 = 2 TMP\_982 = 0 not(TMP\_982) = 1 TMP\_983 = 0 not(TMP\_983) = 1 TMP\_984 = 1 not(TMP\_984) = 0 TMP\_985 = 1 not(TMP\_985) = 0 TMP\_986 = 1 not(TMP\_986) = 0 TMP\_987 = 2 TMP\_988 = 1 not(TMP\_988) = 0 TMP\_989 = 1 not(TMP\_989) = 0 TMP\_990 = 0 not(TMP\_990) = 1 TMP\_991 = 1 not(TMP\_991) = 0 TMP\_992 = 1 not(TMP\_992) = 0 TMP\_993 = 1 not(TMP\_993) = 0 TMP\_994 = 5 TMP\_995 = 0 not(TMP\_995) = 1 TMP\_996 = 0 not(TMP\_996) = 1 TMP\_997 = 0 TMP\_998 = 1 not(TMP\_998) = 0 TMP\_999 = 1 not(TMP\_999) = 0 TMP\_1000 = 2 TMP\_1001 = 0 not(TMP\_1001) = 1 TMP\_1002 = 0 not(TMP\_1002) = 1 TMP\_1003 = 1 not(TMP\_1003) = 0 TMP\_1004 = 1 not(TMP\_1004) = 0 TMP\_1005 = 1 not(TMP\_1005) = 0 TMP\_1006 = 2 TMP\_1007 = 0 not(TMP\_1007) = 1 TMP\_1008 = 1 not(TMP\_1008) = 0 TMP\_1009 = 1 not(TMP\_1009) = 0 TMP\_1010 = 1 not(TMP\_1010) = 0 TMP\_1011 = 1 not(TMP\_1011) = 0 TMP\_1012 = 1 not(TMP\_1012) = 0 TMP\_1013 = 5 TMP\_1014 = 0 not(TMP\_1014) = 1 TMP\_1015 = 0 not(TMP\_1015) = 1 TMP\_1016 = 0 TMP\_1017 = 1 not(TMP\_1017) = 0 TMP\_1018 = 1 not(TMP\_1018) = 0 TMP\_1019 = 2 TMP\_1020 = 0 not(TMP\_1020) = 1 TMP\_1021 = 0 not(TMP\_1021) = 1 TMP\_1022 = 1 not(TMP\_1022) = 0 TMP\_1023 = 1 not(TMP\_1023) = 0 TMP\_1024 = 1 not(TMP\_1024) = 0 TMP\_1025 = 2 TMP\_1026 = 0 not(TMP\_1026) = 1 TMP\_1027 = 1 not(TMP\_1027) = 0 TMP\_1028 = 1 not(TMP\_1028) = 0 TMP\_1029 = 1 not(TMP\_1029) = 0 TMP\_1030 = 1 not(TMP\_1030) = 0 TMP\_1031 = 0 not(TMP\_1031) = 1 TMP\_1032 = 4 TMP\_1033 = 0 not(TMP\_1033) = 1 TMP\_1034 = 0 not(TMP\_1034) = 1 TMP\_1035 = 0 TMP\_1036 = 1 not(TMP\_1036) = 0 TMP\_1037 = 1 not(TMP\_1037) = 0 TMP\_1038 = 2 TMP\_1039 = 0 not(TMP\_1039) = 1 TMP\_1040 = 0 not(TMP\_1040) = 1 TMP\_1041 = 1 not(TMP\_1041) = 0 TMP\_1042 = 1 not(TMP\_1042) = 0 TMP\_1043 = 1 not(TMP\_1043) = 0 TMP\_1044 = 2 Area\_0 = 60 Distance\_0\_Rule\_0 = 20 Distance\_1\_Rule\_0 = 3 Distance\_2\_Rule\_0 = 1 Area\_1 = 174 Distance\_0\_Rule\_1 = 58 Distance\_1\_Rule\_1 = 3 Distance\_2\_Rule\_1 = 1 Area\_2 = 116 Distance\_0\_Rule\_2 = 58 Distance\_1\_Rule\_2 = 2 Distance\_2\_Rule\_2 = 1 Area\_3 = 58 Distance\_0\_Rule\_3 = 58 Distance\_1\_Rule\_3 = 1 Distance\_2\_Rule\_3 = 1 Area\_4 = 120 Distance\_0\_Rule\_4 = 40 Distance\_1\_Rule\_4 = 3 Distance\_2\_Rule\_4 = 1 Area\_5 = 120 Distance\_0\_Rule\_5 = 40 Distance\_1\_Rule\_5 = 3 Distance\_2\_Rule\_5 = 1 Area\_6 = 60 Distance\_0\_Rule\_6 = 20 Distance\_1\_Rule\_6 = 3 Distance\_2\_Rule\_6 = 1 Area\_7 = 3 -(Rule\_7\_LB) = -79 Distance\_0\_Rule\_7 = 1 -(Rule\_7\_LB) = 0 Distance\_1\_Rule\_7 = 3 -(Rule\_7\_LB) = -1 Distance\_2\_Rule\_7 = 1 Area\_8 = 1 -(Rule\_8\_LB) = -79 Distance\_0\_Rule\_8 = 1 -(Rule\_8\_LB) = 0 Distance\_1\_Rule\_8 = 1 -(Rule\_8\_LB) = 0 Distance\_2\_Rule\_8 = 1 Area\_9 = 3 -(Rule\_9\_LB) = -20 Distance\_0\_Rule\_9 = 1 -(Rule\_9\_LB) = 0 Distance\_1\_Rule\_9 = 3 -(Rule\_9\_LB) = 0 Distance\_2\_Rule\_9 = 1 Area\_10 = 3 -(Rule\_10\_LB) = -20 Distance\_0\_Rule\_10 = 1 -(Rule\_10\_LB) = 0 Distance\_1\_Rule\_10 = 3 -(Rule\_10\_LB) = -1 Distance\_2\_Rule\_10 = 1 Area\_11 = 2 -(Rule\_11\_LB) = -79 Distance\_0\_Rule\_11 = 1 -(Rule\_11\_LB) = -1 Distance\_1\_Rule\_11 = 2 -(Rule\_11\_LB) = 0 Distance\_2\_Rule\_11 = 1 TMP\_1045 = 720 .

- Solution #8 found. 8 Solutions, Resolution 1.316s, 1469 Nodes (1,116.1 n/s), 2811 Backtracks, 1405 Fails, 0 Restarts

Rule\_7\_LB = 79 Rule\_7\_UB = 80 Rule\_7\_LB = 0 Rule\_7\_UB = 3 Rule\_7\_LB = 1 Rule\_7\_UB = 2 Rule\_8\_LB = 79 Rule\_8\_UB = 80 Rule\_8\_LB = 0 Rule\_8\_UB = 1 Rule\_8\_LB = 0 Rule\_8\_UB = 1 Rule\_9\_LB = 20 Rule\_9\_UB = 21 Rule\_9\_LB = 0 Rule\_9\_UB = 3 Rule\_9\_LB = 0 Rule\_9\_UB = 1 Rule\_10\_LB = 20 Rule\_10\_UB = 21 Rule\_10\_LB = 0 Rule\_10\_UB = 3 Rule\_10\_LB = 1 Rule\_10\_UB = 2 Rule\_11\_LB = 79 Rule\_11\_UB = 80 Rule\_11\_LB = 1 Rule\_11\_UB = 3 Rule\_11\_LB = 0 Rule\_11\_UB = 1 Overlaps\_0\_0 = 0 Overlaps\_0\_1 = 0 Overlaps\_0\_2 = 0 Overlaps\_0\_3 = 0 Overlaps\_0\_4 = 0 Overlaps\_0\_5 = 0 Overlaps\_0\_6 = 0 Overlaps\_0\_7 = 0 Overlaps\_0\_8 = 0 Overlaps\_0\_9 = 0 Overlaps\_0\_10 = 0 Overlaps\_0\_11 = 0 Overlaps\_1\_0 = 0 Overlaps\_1\_1 = 0 Overlaps\_1\_2 = 0 Overlaps\_1\_3 = 0 Overlaps\_1\_4 = 0 Overlaps\_1\_5 = 0 Overlaps\_1\_6 = 0 Overlaps\_1\_7 = 0 Overlaps\_1\_8 = 0 Overlaps\_1\_9 = 0 Overlaps\_1\_10 = 0 Overlaps\_1\_11 = 0 Overlaps\_2\_0 = 0 Overlaps\_2\_1 = 0 Overlaps\_2\_2 = 0 Overlaps\_2\_3 = 0 Overlaps\_2\_4 = 0 Overlaps\_2\_5 = 1 Overlaps\_2\_6 = 0 Overlaps\_2\_7 = 0 Overlaps\_2\_8 = 0 Overlaps\_2\_9 = 0 Overlaps\_2\_10 = 0 Overlaps\_2\_11 = 0 Overlaps\_3\_0 = 0 Overlaps\_3\_1 = 0 Overlaps\_3\_2 = 0 Overlaps\_3\_3 = 0 Overlaps\_3\_4 = 0 Overlaps\_3\_5 = 0 Overlaps\_3\_6 = 0 Overlaps\_3\_7 = 0 Overlaps\_3\_8 = 0 Overlaps\_3\_9 = 0 Overlaps\_3\_10 = 0 Overlaps\_3\_11 = 0 Overlaps\_4\_0 = 0 Overlaps\_4\_1 = 0 Overlaps\_4\_2 = 0 Overlaps\_4\_3 = 0 Overlaps\_4\_4 = 0 Overlaps\_4\_5 = 1 Overlaps\_4\_6 = 0 Overlaps\_4\_7 = 0 Overlaps\_4\_8 = 0 Overlaps\_4\_9 = 0 Overlaps\_4\_10 = 0 Overlaps\_4\_11 = 0 Overlaps\_5\_0 = 0 Overlaps\_5\_1 = 0 Overlaps\_5\_2 = 0 Overlaps\_5\_3 = 0 Overlaps\_5\_4 = 0 Overlaps\_5\_5 = 0 Overlaps\_5\_6 = 0 Overlaps\_5\_7 = 0 Overlaps\_5\_8 = 0 Overlaps\_5\_9 = 0 Overlaps\_5\_10 = 0 Overlaps\_5\_11 = 0 Overlaps\_6\_0 = 0 Overlaps\_6\_1 = 1 Overlaps\_6\_2 = 0 Overlaps\_6\_3 = 0 Overlaps\_6\_4 = 0 Overlaps\_6\_5 = 0 Overlaps\_6\_6 = 0 Overlaps\_6\_7 = 0 Overlaps\_6\_8 = 0 Overlaps\_6\_9 = 0 Overlaps\_6\_10 = 0 Overlaps\_6\_11 = 0 Overlaps\_7\_0 = 0 Overlaps\_7\_1 = 0 Overlaps\_7\_2 = 0 Overlaps\_7\_3 = 0 Overlaps\_7\_4 = 0 Overlaps\_7\_5 = 0 Overlaps\_7\_6 = 0 Overlaps\_7\_7 = 0 Overlaps\_7\_8 = 0 Overlaps\_7\_9 = 0 Overlaps\_7\_10 = 0 Overlaps\_7\_11 = 0 Overlaps\_8\_0 = 0 Overlaps\_8\_1 = 0 Overlaps\_8\_2 = 0 Overlaps\_8\_3 = 0 Overlaps\_8\_4 = 0 Overlaps\_8\_5 = 0 Overlaps\_8\_6 = 0 Overlaps\_8\_7 = 0 Overlaps\_8\_8 = 0 Overlaps\_8\_9 = 0 Overlaps\_8\_10 = 0 Overlaps\_8\_11 = 0 Overlaps\_9\_0 = 0 Overlaps\_9\_1 = 0 Overlaps\_9\_2 = 0 Overlaps\_9\_3 = 0 Overlaps\_9\_4 = 0 Overlaps\_9\_5 = 0 Overlaps\_9\_6 = 0 Overlaps\_9\_7 = 0 Overlaps\_9\_8 = 0 Overlaps\_9\_9 = 0 Overlaps\_9\_10 = 0 Overlaps\_9\_11 = 0 Overlaps\_10\_0 = 0 Overlaps\_10\_1 = 0 Overlaps\_10\_2 = 0 Overlaps\_10\_3 = 0 Overlaps\_10\_4 = 0 Overlaps\_10\_5 = 0 Overlaps\_10\_6 = 0 Overlaps\_10\_7 = 0 Overlaps\_10\_8 = 0 Overlaps\_10\_9 = 0 Overlaps\_10\_10 = 0 Overlaps\_10\_11 = 0 Overlaps\_11\_0 = 0 Overlaps\_11\_1 = 0 Overlaps\_11\_2 = 0 Overlaps\_11\_3 = 0 Overlaps\_11\_4 = 0 Overlaps\_11\_5 = 0 Overlaps\_11\_6 = 0 Overlaps\_11\_7 = 0 Overlaps\_11\_8 = 0 Overlaps\_11\_9 = 0 Overlaps\_11\_10 = 0 Overlaps\_11\_11 = 0 TMP\_0 = 0 not(TMP\_0) = 1 TMP\_1 = 1 not(TMP\_1) = 0 TMP\_2 = 1 not(TMP\_2) = 0 TMP\_3 = 1 not(TMP\_3) = 0 TMP\_4 = 1 not(TMP\_4) = 0 TMP\_5 = 1 not(TMP\_5) = 0 TMP\_6 = 5 TMP\_7 = 0 not(TMP\_7) = 1 TMP\_8 = 0 not(TMP\_8) = 1 TMP\_9 = 0 TMP\_10 = 1 not(TMP\_10) = 0 TMP\_11 = 1 not(TMP\_11) = 0 TMP\_12 = 2 TMP\_13 = 0 not(TMP\_13) = 1 TMP\_14 = 0 not(TMP\_14) = 1 TMP\_15 = 1 not(TMP\_15) = 0 TMP\_16 = 1 not(TMP\_16) = 0 TMP\_17 = 1 not(TMP\_17) = 0 TMP\_18 = 2 TMP\_19 = 0 not(TMP\_19) = 1 TMP\_20 = 1 not(TMP\_20) = 0 TMP\_21 = 1 not(TMP\_21) = 0 TMP\_22 = 1 not(TMP\_22) = 0 TMP\_23 = 1 not(TMP\_23) = 0 TMP\_24 = 1 not(TMP\_24) = 0 TMP\_25 = 5 TMP\_26 = 0 not(TMP\_26) = 1 TMP\_27 = 0 not(TMP\_27) = 1 TMP\_28 = 0 TMP\_29 = 1 not(TMP\_29) = 0 TMP\_30 = 1 not(TMP\_30) = 0 TMP\_31 = 2 TMP\_32 = 0 not(TMP\_32) = 1 TMP\_33 = 0 not(TMP\_33) = 1 TMP\_34 = 1 not(TMP\_34) = 0 TMP\_35 = 1 not(TMP\_35) = 0 TMP\_36 = 1 not(TMP\_36) = 0 TMP\_37 = 2 TMP\_38 = 0 not(TMP\_38) = 1 TMP\_39 = 1 not(TMP\_39) = 0 TMP\_40 = 1 not(TMP\_40) = 0 TMP\_41 = 1 not(TMP\_41) = 0 TMP\_42 = 0 not(TMP\_42) = 1 TMP\_43 = 1 not(TMP\_43) = 0 TMP\_44 = 4 TMP\_45 = 0 not(TMP\_45) = 1 TMP\_46 = 0 not(TMP\_46) = 1 TMP\_47 = 0 TMP\_48 = 1 not(TMP\_48) = 0 TMP\_49 = 1 not(TMP\_49) = 0 TMP\_50 = 2 TMP\_51 = 0 not(TMP\_51) = 1 TMP\_52 = 0 not(TMP\_52) = 1 TMP\_53 = 1 not(TMP\_53) = 0 TMP\_54 = 1 not(TMP\_54) = 0 TMP\_55 = 1 not(TMP\_55) = 0 TMP\_56 = 2 TMP\_57 = 0 not(TMP\_57) = 1 TMP\_58 = 1 not(TMP\_58) = 0 TMP\_59 = 1 not(TMP\_59) = 0 TMP\_60 = 1 not(TMP\_60) = 0 TMP\_61 = 0 not(TMP\_61) = 1 TMP\_62 = 1 not(TMP\_62) = 0 TMP\_63 = 4 TMP\_64 = 0 not(TMP\_64) = 1 TMP\_65 = 0 not(TMP\_65) = 1 TMP\_66 = 0 TMP\_67 = 1 not(TMP\_67) = 0 TMP\_68 = 1 not(TMP\_68) = 0 TMP\_69 = 2 TMP\_70 = 0 not(TMP\_70) = 1 TMP\_71 = 0 not(TMP\_71) = 1 TMP\_72 = 1 not(TMP\_72) = 0 TMP\_73 = 1 not(TMP\_73) = 0 TMP\_74 = 1 not(TMP\_74) = 0 TMP\_75 = 2 TMP\_76 = 1 not(TMP\_76) = 0 TMP\_77 = 0 not(TMP\_77) = 1 TMP\_78 = 1 not(TMP\_78) = 0 TMP\_79 = 1 not(TMP\_79) = 0 TMP\_80 = 0 not(TMP\_80) = 1 TMP\_81 = 1 not(TMP\_81) = 0 TMP\_82 = 4 TMP\_83 = 0 not(TMP\_83) = 1 TMP\_84 = 0 not(TMP\_84) = 1 TMP\_85 = 0 TMP\_86 = 1 not(TMP\_86) = 0 TMP\_87 = 1 not(TMP\_87) = 0 TMP\_88 = 2 TMP\_89 = 0 not(TMP\_89) = 1 TMP\_90 = 0 not(TMP\_90) = 1 TMP\_91 = 1 not(TMP\_91) = 0 TMP\_92 = 1 not(TMP\_92) = 0 TMP\_93 = 1 not(TMP\_93) = 0 TMP\_94 = 2 TMP\_95 = 1 not(TMP\_95) = 0 TMP\_96 = 0 not(TMP\_96) = 1 TMP\_97 = 1 not(TMP\_97) = 0 TMP\_98 = 1 not(TMP\_98) = 0 TMP\_99 = 1 not(TMP\_99) = 0 TMP\_100 = 1 not(TMP\_100) = 0 TMP\_101 = 5 TMP\_102 = 0 not(TMP\_102) = 1 TMP\_103 = 0 not(TMP\_103) = 1 TMP\_104 = 0 TMP\_105 = 1 not(TMP\_105) = 0 TMP\_106 = 1 not(TMP\_106) = 0 TMP\_107 = 2 TMP\_108 = 0 not(TMP\_108) = 1 TMP\_109 = 0 not(TMP\_109) = 1 TMP\_110 = 1 not(TMP\_110) = 0 TMP\_111 = 1 not(TMP\_111) = 0 TMP\_112 = 1 not(TMP\_112) = 0 TMP\_113 = 2 TMP\_114 = 0 not(TMP\_114) = 1 TMP\_115 = 1 not(TMP\_115) = 0 TMP\_116 = 1 not(TMP\_116) = 0 TMP\_117 = 1 not(TMP\_117) = 0 TMP\_118 = 0 not(TMP\_118) = 1 TMP\_119 = 1 not(TMP\_119) = 0 TMP\_120 = 4 TMP\_121 = 0 not(TMP\_121) = 1 TMP\_122 = 0 not(TMP\_122) = 1 TMP\_123 = 0 TMP\_124 = 1 not(TMP\_124) = 0 TMP\_125 = 1 not(TMP\_125) = 0 TMP\_126 = 2 TMP\_127 = 0 not(TMP\_127) = 1 TMP\_128 = 0 not(TMP\_128) = 1 TMP\_129 = 1 not(TMP\_129) = 0 TMP\_130 = 1 not(TMP\_130) = 0 TMP\_131 = 1 not(TMP\_131) = 0 TMP\_132 = 2 TMP\_133 = 1 not(TMP\_133) = 0 TMP\_134 = 1 not(TMP\_134) = 0 TMP\_135 = 1 not(TMP\_135) = 0 TMP\_136 = 1 not(TMP\_136) = 0 TMP\_137 = 0 not(TMP\_137) = 1 TMP\_138 = 1 not(TMP\_138) = 0 TMP\_139 = 5 TMP\_140 = 0 not(TMP\_140) = 1 TMP\_141 = 0 not(TMP\_141) = 1 TMP\_142 = 0 TMP\_143 = 1 not(TMP\_143) = 0 TMP\_144 = 1 not(TMP\_144) = 0 TMP\_145 = 2 TMP\_146 = 0 not(TMP\_146) = 1 TMP\_147 = 0 not(TMP\_147) = 1 TMP\_148 = 1 not(TMP\_148) = 0 TMP\_149 = 1 not(TMP\_149) = 0 TMP\_150 = 1 not(TMP\_150) = 0 TMP\_151 = 2 TMP\_152 = 0 not(TMP\_152) = 1 TMP\_153 = 1 not(TMP\_153) = 0 TMP\_154 = 1 not(TMP\_154) = 0 TMP\_155 = 1 not(TMP\_155) = 0 TMP\_156 = 0 not(TMP\_156) = 1 TMP\_157 = 1 not(TMP\_157) = 0 TMP\_158 = 4 TMP\_159 = 0 not(TMP\_159) = 1 TMP\_160 = 0 not(TMP\_160) = 1 TMP\_161 = 0 TMP\_162 = 1 not(TMP\_162) = 0 TMP\_163 = 1 not(TMP\_163) = 0 TMP\_164 = 2 TMP\_165 = 0 not(TMP\_165) = 1 TMP\_166 = 0 not(TMP\_166) = 1 TMP\_167 = 1 not(TMP\_167) = 0 TMP\_168 = 1 not(TMP\_168) = 0 TMP\_169 = 1 not(TMP\_169) = 0 TMP\_170 = 2 TMP\_171 = 0 not(TMP\_171) = 1 TMP\_172 = 1 not(TMP\_172) = 0 TMP\_173 = 1 not(TMP\_173) = 0 TMP\_174 = 1 not(TMP\_174) = 0 TMP\_175 = 1 not(TMP\_175) = 0 TMP\_176 = 1 not(TMP\_176) = 0 TMP\_177 = 5 TMP\_178 = 0 not(TMP\_178) = 1 TMP\_179 = 0 not(TMP\_179) = 1 TMP\_180 = 0 TMP\_181 = 1 not(TMP\_181) = 0 TMP\_182 = 1 not(TMP\_182) = 0 TMP\_183 = 2 TMP\_184 = 0 not(TMP\_184) = 1 TMP\_185 = 0 not(TMP\_185) = 1 TMP\_186 = 1 not(TMP\_186) = 0 TMP\_187 = 1 not(TMP\_187) = 0 TMP\_188 = 1 not(TMP\_188) = 0 TMP\_189 = 2 TMP\_190 = 1 not(TMP\_190) = 0 TMP\_191 = 1 not(TMP\_191) = 0 TMP\_192 = 1 not(TMP\_192) = 0 TMP\_193 = 1 not(TMP\_193) = 0 TMP\_194 = 0 not(TMP\_194) = 1 TMP\_195 = 1 not(TMP\_195) = 0 TMP\_196 = 5 TMP\_197 = 0 not(TMP\_197) = 1 TMP\_198 = 0 not(TMP\_198) = 1 TMP\_199 = 0 TMP\_200 = 1 not(TMP\_200) = 0 TMP\_201 = 1 not(TMP\_201) = 0 TMP\_202 = 2 TMP\_203 = 0 not(TMP\_203) = 1 TMP\_204 = 0 not(TMP\_204) = 1 TMP\_205 = 1 not(TMP\_205) = 0 TMP\_206 = 1 not(TMP\_206) = 0 TMP\_207 = 1 not(TMP\_207) = 0 TMP\_208 = 2 TMP\_209 = 0 not(TMP\_209) = 1 TMP\_210 = 1 not(TMP\_210) = 0 TMP\_211 = 1 not(TMP\_211) = 0 TMP\_212 = 1 not(TMP\_212) = 0 TMP\_213 = 1 not(TMP\_213) = 0 TMP\_214 = 0 not(TMP\_214) = 1 TMP\_215 = 4 TMP\_216 = 0 not(TMP\_216) = 1 TMP\_217 = 0 not(TMP\_217) = 1 TMP\_218 = 0 TMP\_219 = 1 not(TMP\_219) = 0 TMP\_220 = 1 not(TMP\_220) = 0 TMP\_221 = 2 TMP\_222 = 0 not(TMP\_222) = 1 TMP\_223 = 0 not(TMP\_223) = 1 TMP\_224 = 1 not(TMP\_224) = 0 TMP\_225 = 1 not(TMP\_225) = 0 TMP\_226 = 1 not(TMP\_226) = 0 TMP\_227 = 2 TMP\_228 = 0 not(TMP\_228) = 1 TMP\_229 = 1 not(TMP\_229) = 0 TMP\_230 = 1 not(TMP\_230) = 0 TMP\_231 = 1 not(TMP\_231) = 0 TMP\_232 = 1 not(TMP\_232) = 0 TMP\_233 = 0 not(TMP\_233) = 1 TMP\_234 = 4 TMP\_235 = 0 not(TMP\_235) = 1 TMP\_236 = 0 not(TMP\_236) = 1 TMP\_237 = 0 TMP\_238 = 1 not(TMP\_238) = 0 TMP\_239 = 1 not(TMP\_239) = 0 TMP\_240 = 2 TMP\_241 = 0 not(TMP\_241) = 1 TMP\_242 = 0 not(TMP\_242) = 1 TMP\_243 = 1 not(TMP\_243) = 0 TMP\_244 = 1 not(TMP\_244) = 0 TMP\_245 = 1 not(TMP\_245) = 0 TMP\_246 = 2 TMP\_247 = 0 not(TMP\_247) = 1 TMP\_248 = 1 not(TMP\_248) = 0 TMP\_249 = 1 not(TMP\_249) = 0 TMP\_250 = 0 not(TMP\_250) = 1 TMP\_251 = 1 not(TMP\_251) = 0 TMP\_252 = 1 not(TMP\_252) = 0 TMP\_253 = 4 TMP\_254 = 0 not(TMP\_254) = 1 TMP\_255 = 0 not(TMP\_255) = 1 TMP\_256 = 0 TMP\_257 = 1 not(TMP\_257) = 0 TMP\_258 = 1 not(TMP\_258) = 0 TMP\_259 = 2 TMP\_260 = 0 not(TMP\_260) = 1 TMP\_261 = 0 not(TMP\_261) = 1 TMP\_262 = 1 not(TMP\_262) = 0 TMP\_263 = 1 not(TMP\_263) = 0 TMP\_264 = 1 not(TMP\_264) = 0 TMP\_265 = 2 TMP\_266 = 0 not(TMP\_266) = 1 TMP\_267 = 1 not(TMP\_267) = 0 TMP\_268 = 1 not(TMP\_268) = 0 TMP\_269 = 1 not(TMP\_269) = 0 TMP\_270 = 1 not(TMP\_270) = 0 TMP\_271 = 1 not(TMP\_271) = 0 TMP\_272 = 5 TMP\_273 = 0 not(TMP\_273) = 1 TMP\_274 = 0 not(TMP\_274) = 1 TMP\_275 = 0 TMP\_276 = 1 not(TMP\_276) = 0 TMP\_277 = 1 not(TMP\_277) = 0 TMP\_278 = 2 TMP\_279 = 0 not(TMP\_279) = 1 TMP\_280 = 0 not(TMP\_280) = 1 TMP\_281 = 1 not(TMP\_281) = 0 TMP\_282 = 1 not(TMP\_282) = 0 TMP\_283 = 1 not(TMP\_283) = 0 TMP\_284 = 2 TMP\_285 = 1 not(TMP\_285) = 0 TMP\_286 = 0 not(TMP\_286) = 1 TMP\_287 = 1 not(TMP\_287) = 0 TMP\_288 = 1 not(TMP\_288) = 0 TMP\_289 = 1 not(TMP\_289) = 0 TMP\_290 = 1 not(TMP\_290) = 0 TMP\_291 = 5 TMP\_292 = 0 not(TMP\_292) = 1 TMP\_293 = 0 not(TMP\_293) = 1 TMP\_294 = 0 TMP\_295 = 1 not(TMP\_295) = 0 TMP\_296 = 1 not(TMP\_296) = 0 TMP\_297 = 2 TMP\_298 = 0 not(TMP\_298) = 1 TMP\_299 = 0 not(TMP\_299) = 1 TMP\_300 = 1 not(TMP\_300) = 0 TMP\_301 = 1 not(TMP\_301) = 0 TMP\_302 = 1 not(TMP\_302) = 0 TMP\_303 = 2 TMP\_304 = 1 not(TMP\_304) = 0 TMP\_305 = 0 not(TMP\_305) = 1 TMP\_306 = 1 not(TMP\_306) = 0 TMP\_307 = 1 not(TMP\_307) = 0 TMP\_308 = 1 not(TMP\_308) = 0 TMP\_309 = 0 not(TMP\_309) = 1 TMP\_310 = 4 TMP\_311 = 0 not(TMP\_311) = 1 TMP\_312 = 0 not(TMP\_312) = 1 TMP\_313 = 0 TMP\_314 = 1 not(TMP\_314) = 0 TMP\_315 = 1 not(TMP\_315) = 0 TMP\_316 = 2 TMP\_317 = 0 not(TMP\_317) = 1 TMP\_318 = 0 not(TMP\_318) = 1 TMP\_319 = 1 not(TMP\_319) = 0 TMP\_320 = 1 not(TMP\_320) = 0 TMP\_321 = 1 not(TMP\_321) = 0 TMP\_322 = 2 TMP\_323 = 0 not(TMP\_323) = 1 TMP\_324 = 1 not(TMP\_324) = 0 TMP\_325 = 1 not(TMP\_325) = 0 TMP\_326 = 1 not(TMP\_326) = 0 TMP\_327 = 1 not(TMP\_327) = 0 TMP\_328 = 1 not(TMP\_328) = 0 TMP\_329 = 5 TMP\_330 = 0 not(TMP\_330) = 1 TMP\_331 = 0 not(TMP\_331) = 1 TMP\_332 = 0 TMP\_333 = 1 not(TMP\_333) = 0 TMP\_334 = 1 not(TMP\_334) = 0 TMP\_335 = 2 TMP\_336 = 0 not(TMP\_336) = 1 TMP\_337 = 0 not(TMP\_337) = 1 TMP\_338 = 1 not(TMP\_338) = 0 TMP\_339 = 1 not(TMP\_339) = 0 TMP\_340 = 1 not(TMP\_340) = 0 TMP\_341 = 2 TMP\_342 = 1 not(TMP\_342) = 0 TMP\_343 = 1 not(TMP\_343) = 0 TMP\_344 = 1 not(TMP\_344) = 0 TMP\_345 = 1 not(TMP\_345) = 0 TMP\_346 = 1 not(TMP\_346) = 0 TMP\_347 = 0 not(TMP\_347) = 1 TMP\_348 = 5 TMP\_349 = 0 not(TMP\_349) = 1 TMP\_350 = 0 not(TMP\_350) = 1 TMP\_351 = 0 TMP\_352 = 1 not(TMP\_352) = 0 TMP\_353 = 1 not(TMP\_353) = 0 TMP\_354 = 2 TMP\_355 = 0 not(TMP\_355) = 1 TMP\_356 = 0 not(TMP\_356) = 1 TMP\_357 = 1 not(TMP\_357) = 0 TMP\_358 = 1 not(TMP\_358) = 0 TMP\_359 = 1 not(TMP\_359) = 0 TMP\_360 = 2 TMP\_361 = 0 not(TMP\_361) = 1 TMP\_362 = 1 not(TMP\_362) = 0 TMP\_363 = 1 not(TMP\_363) = 0 TMP\_364 = 1 not(TMP\_364) = 0 TMP\_365 = 1 not(TMP\_365) = 0 TMP\_366 = 1 not(TMP\_366) = 0 TMP\_367 = 5 TMP\_368 = 0 not(TMP\_368) = 1 TMP\_369 = 0 not(TMP\_369) = 1 TMP\_370 = 0 TMP\_371 = 1 not(TMP\_371) = 0 TMP\_372 = 1 not(TMP\_372) = 0 TMP\_373 = 2 TMP\_374 = 0 not(TMP\_374) = 1 TMP\_375 = 0 not(TMP\_375) = 1 TMP\_376 = 1 not(TMP\_376) = 0 TMP\_377 = 1 not(TMP\_377) = 0 TMP\_378 = 1 not(TMP\_378) = 0 TMP\_379 = 2 TMP\_380 = 0 not(TMP\_380) = 1 TMP\_381 = 1 not(TMP\_381) = 0 TMP\_382 = 1 not(TMP\_382) = 0 TMP\_383 = 1 not(TMP\_383) = 0 TMP\_384 = 1 not(TMP\_384) = 0 TMP\_385 = 0 not(TMP\_385) = 1 TMP\_386 = 4 TMP\_387 = 0 not(TMP\_387) = 1 TMP\_388 = 0 not(TMP\_388) = 1 TMP\_389 = 0 TMP\_390 = 1 not(TMP\_390) = 0 TMP\_391 = 1 not(TMP\_391) = 0 TMP\_392 = 2 TMP\_393 = 0 not(TMP\_393) = 1 TMP\_394 = 0 not(TMP\_394) = 1 TMP\_395 = 1 not(TMP\_395) = 0 TMP\_396 = 1 not(TMP\_396) = 0 TMP\_397 = 1 not(TMP\_397) = 0 TMP\_398 = 2 TMP\_399 = 1 not(TMP\_399) = 0 TMP\_400 = 1 not(TMP\_400) = 0 TMP\_401 = 1 not(TMP\_401) = 0 TMP\_402 = 0 not(TMP\_402) = 1 TMP\_403 = 1 not(TMP\_403) = 0 TMP\_404 = 1 not(TMP\_404) = 0 TMP\_405 = 5 TMP\_406 = 0 not(TMP\_406) = 1 TMP\_407 = 0 not(TMP\_407) = 1 TMP\_408 = 0 TMP\_409 = 1 not(TMP\_409) = 0 TMP\_410 = 1 not(TMP\_410) = 0 TMP\_411 = 2 TMP\_412 = 0 not(TMP\_412) = 1 TMP\_413 = 0 not(TMP\_413) = 1 TMP\_414 = 1 not(TMP\_414) = 0 TMP\_415 = 1 not(TMP\_415) = 0 TMP\_416 = 1 not(TMP\_416) = 0 TMP\_417 = 2 TMP\_418 = 0 not(TMP\_418) = 1 TMP\_419 = 1 not(TMP\_419) = 0 TMP\_420 = 1 not(TMP\_420) = 0 TMP\_421 = 1 not(TMP\_421) = 0 TMP\_422 = 1 not(TMP\_422) = 0 TMP\_423 = 0 not(TMP\_423) = 1 TMP\_424 = 4 TMP\_425 = 0 not(TMP\_425) = 1 TMP\_426 = 0 not(TMP\_426) = 1 TMP\_427 = 0 TMP\_428 = 1 not(TMP\_428) = 0 TMP\_429 = 1 not(TMP\_429) = 0 TMP\_430 = 2 TMP\_431 = 0 not(TMP\_431) = 1 TMP\_432 = 0 not(TMP\_432) = 1 TMP\_433 = 1 not(TMP\_433) = 0 TMP\_434 = 1 not(TMP\_434) = 0 TMP\_435 = 1 not(TMP\_435) = 0 TMP\_436 = 2 TMP\_437 = 1 not(TMP\_437) = 0 TMP\_438 = 0 not(TMP\_438) = 1 TMP\_439 = 1 not(TMP\_439) = 0 TMP\_440 = 1 not(TMP\_440) = 0 TMP\_441 = 1 not(TMP\_441) = 0 TMP\_442 = 0 not(TMP\_442) = 1 TMP\_443 = 4 TMP\_444 = 0 not(TMP\_444) = 1 TMP\_445 = 0 not(TMP\_445) = 1 TMP\_446 = 0 TMP\_447 = 1 not(TMP\_447) = 0 TMP\_448 = 1 not(TMP\_448) = 0 TMP\_449 = 2 TMP\_450 = 0 not(TMP\_450) = 1 TMP\_451 = 0 not(TMP\_451) = 1 TMP\_452 = 1 not(TMP\_452) = 0 TMP\_453 = 1 not(TMP\_453) = 0 TMP\_454 = 1 not(TMP\_454) = 0 TMP\_455 = 2 TMP\_456 = 1 not(TMP\_456) = 0 TMP\_457 = 0 not(TMP\_457) = 1 TMP\_458 = 1 not(TMP\_458) = 0 TMP\_459 = 1 not(TMP\_459) = 0 TMP\_460 = 1 not(TMP\_460) = 0 TMP\_461 = 1 not(TMP\_461) = 0 TMP\_462 = 5 TMP\_463 = 0 not(TMP\_463) = 1 TMP\_464 = 0 not(TMP\_464) = 1 TMP\_465 = 0 TMP\_466 = 1 not(TMP\_466) = 0 TMP\_467 = 1 not(TMP\_467) = 0 TMP\_468 = 2 TMP\_469 = 0 not(TMP\_469) = 1 TMP\_470 = 0 not(TMP\_470) = 1 TMP\_471 = 1 not(TMP\_471) = 0 TMP\_472 = 1 not(TMP\_472) = 0 TMP\_473 = 1 not(TMP\_473) = 0 TMP\_474 = 2 TMP\_475 = 1 not(TMP\_475) = 0 TMP\_476 = 0 not(TMP\_476) = 1 TMP\_477 = 1 not(TMP\_477) = 0 TMP\_478 = 1 not(TMP\_478) = 0 TMP\_479 = 1 not(TMP\_479) = 0 TMP\_480 = 1 not(TMP\_480) = 0 TMP\_481 = 5 TMP\_482 = 0 not(TMP\_482) = 1 TMP\_483 = 0 not(TMP\_483) = 1 TMP\_484 = 0 TMP\_485 = 1 not(TMP\_485) = 0 TMP\_486 = 1 not(TMP\_486) = 0 TMP\_487 = 2 TMP\_488 = 0 not(TMP\_488) = 1 TMP\_489 = 0 not(TMP\_489) = 1 TMP\_490 = 1 not(TMP\_490) = 0 TMP\_491 = 1 not(TMP\_491) = 0 TMP\_492 = 1 not(TMP\_492) = 0 TMP\_493 = 2 TMP\_494 = 1 not(TMP\_494) = 0 TMP\_495 = 0 not(TMP\_495) = 1 TMP\_496 = 1 not(TMP\_496) = 0 TMP\_497 = 1 not(TMP\_497) = 0 TMP\_498 = 1 not(TMP\_498) = 0 TMP\_499 = 1 not(TMP\_499) = 0 TMP\_500 = 5 TMP\_501 = 0 not(TMP\_501) = 1 TMP\_502 = 0 not(TMP\_502) = 1 TMP\_503 = 0 TMP\_504 = 1 not(TMP\_504) = 0 TMP\_505 = 1 not(TMP\_505) = 0 TMP\_506 = 2 TMP\_507 = 0 not(TMP\_507) = 1 TMP\_508 = 0 not(TMP\_508) = 1 TMP\_509 = 1 not(TMP\_509) = 0 TMP\_510 = 1 not(TMP\_510) = 0 TMP\_511 = 1 not(TMP\_511) = 0 TMP\_512 = 2 TMP\_513 = 1 not(TMP\_513) = 0 TMP\_514 = 0 not(TMP\_514) = 1 TMP\_515 = 1 not(TMP\_515) = 0 TMP\_516 = 1 not(TMP\_516) = 0 TMP\_517 = 1 not(TMP\_517) = 0 TMP\_518 = 0 not(TMP\_518) = 1 TMP\_519 = 4 TMP\_520 = 0 not(TMP\_520) = 1 TMP\_521 = 0 not(TMP\_521) = 1 TMP\_522 = 0 TMP\_523 = 1 not(TMP\_523) = 0 TMP\_524 = 1 not(TMP\_524) = 0 TMP\_525 = 2 TMP\_526 = 0 not(TMP\_526) = 1 TMP\_527 = 0 not(TMP\_527) = 1 TMP\_528 = 1 not(TMP\_528) = 0 TMP\_529 = 1 not(TMP\_529) = 0 TMP\_530 = 1 not(TMP\_530) = 0 TMP\_531 = 2 TMP\_532 = 0 not(TMP\_532) = 1 TMP\_533 = 1 not(TMP\_533) = 0 TMP\_534 = 1 not(TMP\_534) = 0 TMP\_535 = 1 not(TMP\_535) = 0 TMP\_536 = 1 not(TMP\_536) = 0 TMP\_537 = 1 not(TMP\_537) = 0 TMP\_538 = 5 TMP\_539 = 0 not(TMP\_539) = 1 TMP\_540 = 0 not(TMP\_540) = 1 TMP\_541 = 0 TMP\_542 = 1 not(TMP\_542) = 0 TMP\_543 = 1 not(TMP\_543) = 0 TMP\_544 = 2 TMP\_545 = 0 not(TMP\_545) = 1 TMP\_546 = 0 not(TMP\_546) = 1 TMP\_547 = 1 not(TMP\_547) = 0 TMP\_548 = 1 not(TMP\_548) = 0 TMP\_549 = 1 not(TMP\_549) = 0 TMP\_550 = 2 TMP\_551 = 1 not(TMP\_551) = 0 TMP\_552 = 0 not(TMP\_552) = 1 TMP\_553 = 1 not(TMP\_553) = 0 TMP\_554 = 1 not(TMP\_554) = 0 TMP\_555 = 1 not(TMP\_555) = 0 TMP\_556 = 0 not(TMP\_556) = 1 TMP\_557 = 4 TMP\_558 = 0 not(TMP\_558) = 1 TMP\_559 = 0 not(TMP\_559) = 1 TMP\_560 = 0 TMP\_561 = 1 not(TMP\_561) = 0 TMP\_562 = 1 not(TMP\_562) = 0 TMP\_563 = 2 TMP\_564 = 0 not(TMP\_564) = 1 TMP\_565 = 0 not(TMP\_565) = 1 TMP\_566 = 1 not(TMP\_566) = 0 TMP\_567 = 1 not(TMP\_567) = 0 TMP\_568 = 1 not(TMP\_568) = 0 TMP\_569 = 2 TMP\_570 = 1 not(TMP\_570) = 0 TMP\_571 = 0 not(TMP\_571) = 1 TMP\_572 = 1 not(TMP\_572) = 0 TMP\_573 = 1 not(TMP\_573) = 0 TMP\_574 = 1 not(TMP\_574) = 0 TMP\_575 = 1 not(TMP\_575) = 0 TMP\_576 = 5 TMP\_577 = 0 not(TMP\_577) = 1 TMP\_578 = 0 not(TMP\_578) = 1 TMP\_579 = 0 TMP\_580 = 1 not(TMP\_580) = 0 TMP\_581 = 1 not(TMP\_581) = 0 TMP\_582 = 2 TMP\_583 = 0 not(TMP\_583) = 1 TMP\_584 = 0 not(TMP\_584) = 1 TMP\_585 = 1 not(TMP\_585) = 0 TMP\_586 = 1 not(TMP\_586) = 0 TMP\_587 = 1 not(TMP\_587) = 0 TMP\_588 = 2 TMP\_589 = 1 not(TMP\_589) = 0 TMP\_590 = 1 not(TMP\_590) = 0 TMP\_591 = 1 not(TMP\_591) = 0 TMP\_592 = 1 not(TMP\_592) = 0 TMP\_593 = 1 not(TMP\_593) = 0 TMP\_594 = 0 not(TMP\_594) = 1 TMP\_595 = 5 TMP\_596 = 0 not(TMP\_596) = 1 TMP\_597 = 0 not(TMP\_597) = 1 TMP\_598 = 0 TMP\_599 = 1 not(TMP\_599) = 0 TMP\_600 = 1 not(TMP\_600) = 0 TMP\_601 = 2 TMP\_602 = 0 not(TMP\_602) = 1 TMP\_603 = 0 not(TMP\_603) = 1 TMP\_604 = 1 not(TMP\_604) = 0 TMP\_605 = 1 not(TMP\_605) = 0 TMP\_606 = 1 not(TMP\_606) = 0 TMP\_607 = 2 TMP\_608 = 1 not(TMP\_608) = 0 TMP\_609 = 0 not(TMP\_609) = 1 TMP\_610 = 1 not(TMP\_610) = 0 TMP\_611 = 1 not(TMP\_611) = 0 TMP\_612 = 1 not(TMP\_612) = 0 TMP\_613 = 1 not(TMP\_613) = 0 TMP\_614 = 5 TMP\_615 = 0 not(TMP\_615) = 1 TMP\_616 = 0 not(TMP\_616) = 1 TMP\_617 = 0 TMP\_618 = 1 not(TMP\_618) = 0 TMP\_619 = 1 not(TMP\_619) = 0 TMP\_620 = 2 TMP\_621 = 0 not(TMP\_621) = 1 TMP\_622 = 0 not(TMP\_622) = 1 TMP\_623 = 1 not(TMP\_623) = 0 TMP\_624 = 1 not(TMP\_624) = 0 TMP\_625 = 1 not(TMP\_625) = 0 TMP\_626 = 2 TMP\_627 = 0 not(TMP\_627) = 1 TMP\_628 = 1 not(TMP\_628) = 0 TMP\_629 = 1 not(TMP\_629) = 0 TMP\_630 = 1 not(TMP\_630) = 0 TMP\_631 = 1 not(TMP\_631) = 0 TMP\_632 = 1 not(TMP\_632) = 0 TMP\_633 = 5 TMP\_634 = 0 not(TMP\_634) = 1 TMP\_635 = 0 not(TMP\_635) = 1 TMP\_636 = 0 TMP\_637 = 1 not(TMP\_637) = 0 TMP\_638 = 1 not(TMP\_638) = 0 TMP\_639 = 2 TMP\_640 = 0 not(TMP\_640) = 1 TMP\_641 = 0 not(TMP\_641) = 1 TMP\_642 = 1 not(TMP\_642) = 0 TMP\_643 = 1 not(TMP\_643) = 0 TMP\_644 = 1 not(TMP\_644) = 0 TMP\_645 = 2 TMP\_646 = 1 not(TMP\_646) = 0 TMP\_647 = 0 not(TMP\_647) = 1 TMP\_648 = 1 not(TMP\_648) = 0 TMP\_649 = 1 not(TMP\_649) = 0 TMP\_650 = 1 not(TMP\_650) = 0 TMP\_651 = 1 not(TMP\_651) = 0 TMP\_652 = 5 TMP\_653 = 0 not(TMP\_653) = 1 TMP\_654 = 0 not(TMP\_654) = 1 TMP\_655 = 0 TMP\_656 = 1 not(TMP\_656) = 0 TMP\_657 = 1 not(TMP\_657) = 0 TMP\_658 = 2 TMP\_659 = 0 not(TMP\_659) = 1 TMP\_660 = 0 not(TMP\_660) = 1 TMP\_661 = 1 not(TMP\_661) = 0 TMP\_662 = 1 not(TMP\_662) = 0 TMP\_663 = 1 not(TMP\_663) = 0 TMP\_664 = 2 TMP\_665 = 1 not(TMP\_665) = 0 TMP\_666 = 0 not(TMP\_666) = 1 TMP\_667 = 1 not(TMP\_667) = 0 TMP\_668 = 1 not(TMP\_668) = 0 TMP\_669 = 0 not(TMP\_669) = 1 TMP\_670 = 1 not(TMP\_670) = 0 TMP\_671 = 4 TMP\_672 = 0 not(TMP\_672) = 1 TMP\_673 = 0 not(TMP\_673) = 1 TMP\_674 = 0 TMP\_675 = 1 not(TMP\_675) = 0 TMP\_676 = 1 not(TMP\_676) = 0 TMP\_677 = 2 TMP\_678 = 0 not(TMP\_678) = 1 TMP\_679 = 0 not(TMP\_679) = 1 TMP\_680 = 1 not(TMP\_680) = 0 TMP\_681 = 1 not(TMP\_681) = 0 TMP\_682 = 1 not(TMP\_682) = 0 TMP\_683 = 2 TMP\_684 = 1 not(TMP\_684) = 0 TMP\_685 = 0 not(TMP\_685) = 1 TMP\_686 = 1 not(TMP\_686) = 0 TMP\_687 = 1 not(TMP\_687) = 0 TMP\_688 = 0 not(TMP\_688) = 1 TMP\_689 = 1 not(TMP\_689) = 0 TMP\_690 = 4 TMP\_691 = 0 not(TMP\_691) = 1 TMP\_692 = 0 not(TMP\_692) = 1 TMP\_693 = 0 TMP\_694 = 1 not(TMP\_694) = 0 TMP\_695 = 1 not(TMP\_695) = 0 TMP\_696 = 2 TMP\_697 = 0 not(TMP\_697) = 1 TMP\_698 = 0 not(TMP\_698) = 1 TMP\_699 = 1 not(TMP\_699) = 0 TMP\_700 = 1 not(TMP\_700) = 0 TMP\_701 = 1 not(TMP\_701) = 0 TMP\_702 = 2 TMP\_703 = 1 not(TMP\_703) = 0 TMP\_704 = 0 not(TMP\_704) = 1 TMP\_705 = 1 not(TMP\_705) = 0 TMP\_706 = 1 not(TMP\_706) = 0 TMP\_707 = 0 not(TMP\_707) = 1 TMP\_708 = 1 not(TMP\_708) = 0 TMP\_709 = 4 TMP\_710 = 0 not(TMP\_710) = 1 TMP\_711 = 0 not(TMP\_711) = 1 TMP\_712 = 0 TMP\_713 = 1 not(TMP\_713) = 0 TMP\_714 = 1 not(TMP\_714) = 0 TMP\_715 = 2 TMP\_716 = 0 not(TMP\_716) = 1 TMP\_717 = 0 not(TMP\_717) = 1 TMP\_718 = 1 not(TMP\_718) = 0 TMP\_719 = 1 not(TMP\_719) = 0 TMP\_720 = 1 not(TMP\_720) = 0 TMP\_721 = 2 TMP\_722 = 1 not(TMP\_722) = 0 TMP\_723 = 0 not(TMP\_723) = 1 TMP\_724 = 1 not(TMP\_724) = 0 TMP\_725 = 1 not(TMP\_725) = 0 TMP\_726 = 1 not(TMP\_726) = 0 TMP\_727 = 1 not(TMP\_727) = 0 TMP\_728 = 5 TMP\_729 = 0 not(TMP\_729) = 1 TMP\_730 = 0 not(TMP\_730) = 1 TMP\_731 = 0 TMP\_732 = 1 not(TMP\_732) = 0 TMP\_733 = 1 not(TMP\_733) = 0 TMP\_734 = 2 TMP\_735 = 0 not(TMP\_735) = 1 TMP\_736 = 0 not(TMP\_736) = 1 TMP\_737 = 1 not(TMP\_737) = 0 TMP\_738 = 1 not(TMP\_738) = 0 TMP\_739 = 1 not(TMP\_739) = 0 TMP\_740 = 2 TMP\_741 = 0 not(TMP\_741) = 1 TMP\_742 = 1 not(TMP\_742) = 0 TMP\_743 = 1 not(TMP\_743) = 0 TMP\_744 = 1 not(TMP\_744) = 0 TMP\_745 = 0 not(TMP\_745) = 1 TMP\_746 = 1 not(TMP\_746) = 0 TMP\_747 = 4 TMP\_748 = 0 not(TMP\_748) = 1 TMP\_749 = 0 not(TMP\_749) = 1 TMP\_750 = 0 TMP\_751 = 1 not(TMP\_751) = 0 TMP\_752 = 1 not(TMP\_752) = 0 TMP\_753 = 2 TMP\_754 = 0 not(TMP\_754) = 1 TMP\_755 = 0 not(TMP\_755) = 1 TMP\_756 = 1 not(TMP\_756) = 0 TMP\_757 = 1 not(TMP\_757) = 0 TMP\_758 = 1 not(TMP\_758) = 0 TMP\_759 = 2 TMP\_760 = 1 not(TMP\_760) = 0 TMP\_761 = 0 not(TMP\_761) = 1 TMP\_762 = 1 not(TMP\_762) = 0 TMP\_763 = 1 not(TMP\_763) = 0 TMP\_764 = 1 not(TMP\_764) = 0 TMP\_765 = 1 not(TMP\_765) = 0 TMP\_766 = 5 TMP\_767 = 0 not(TMP\_767) = 1 TMP\_768 = 0 not(TMP\_768) = 1 TMP\_769 = 0 TMP\_770 = 1 not(TMP\_770) = 0 TMP\_771 = 1 not(TMP\_771) = 0 TMP\_772 = 2 TMP\_773 = 0 not(TMP\_773) = 1 TMP\_774 = 0 not(TMP\_774) = 1 TMP\_775 = 1 not(TMP\_775) = 0 TMP\_776 = 1 not(TMP\_776) = 0 TMP\_777 = 1 not(TMP\_777) = 0 TMP\_778 = 2 TMP\_779 = 1 not(TMP\_779) = 0 TMP\_780 = 0 not(TMP\_780) = 1 TMP\_781 = 1 not(TMP\_781) = 0 TMP\_782 = 1 not(TMP\_782) = 0 TMP\_783 = 0 not(TMP\_783) = 1 TMP\_784 = 1 not(TMP\_784) = 0 TMP\_785 = 4 TMP\_786 = 0 not(TMP\_786) = 1 TMP\_787 = 0 not(TMP\_787) = 1 TMP\_788 = 0 TMP\_789 = 1 not(TMP\_789) = 0 TMP\_790 = 1 not(TMP\_790) = 0 TMP\_791 = 2 TMP\_792 = 0 not(TMP\_792) = 1 TMP\_793 = 0 not(TMP\_793) = 1 TMP\_794 = 1 not(TMP\_794) = 0 TMP\_795 = 1 not(TMP\_795) = 0 TMP\_796 = 1 not(TMP\_796) = 0 TMP\_797 = 2 TMP\_798 = 1 not(TMP\_798) = 0 TMP\_799 = 1 not(TMP\_799) = 0 TMP\_800 = 1 not(TMP\_800) = 0 TMP\_801 = 1 not(TMP\_801) = 0 TMP\_802 = 0 not(TMP\_802) = 1 TMP\_803 = 1 not(TMP\_803) = 0 TMP\_804 = 5 TMP\_805 = 0 not(TMP\_805) = 1 TMP\_806 = 0 not(TMP\_806) = 1 TMP\_807 = 0 TMP\_808 = 1 not(TMP\_808) = 0 TMP\_809 = 1 not(TMP\_809) = 0 TMP\_810 = 2 TMP\_811 = 0 not(TMP\_811) = 1 TMP\_812 = 0 not(TMP\_812) = 1 TMP\_813 = 1 not(TMP\_813) = 0 TMP\_814 = 1 not(TMP\_814) = 0 TMP\_815 = 1 not(TMP\_815) = 0 TMP\_816 = 2 TMP\_817 = 1 not(TMP\_817) = 0 TMP\_818 = 0 not(TMP\_818) = 1 TMP\_819 = 1 not(TMP\_819) = 0 TMP\_820 = 1 not(TMP\_820) = 0 TMP\_821 = 0 not(TMP\_821) = 1 TMP\_822 = 1 not(TMP\_822) = 0 TMP\_823 = 4 TMP\_824 = 0 not(TMP\_824) = 1 TMP\_825 = 0 not(TMP\_825) = 1 TMP\_826 = 0 TMP\_827 = 1 not(TMP\_827) = 0 TMP\_828 = 1 not(TMP\_828) = 0 TMP\_829 = 2 TMP\_830 = 0 not(TMP\_830) = 1 TMP\_831 = 0 not(TMP\_831) = 1 TMP\_832 = 1 not(TMP\_832) = 0 TMP\_833 = 1 not(TMP\_833) = 0 TMP\_834 = 1 not(TMP\_834) = 0 TMP\_835 = 2 TMP\_836 = 0 not(TMP\_836) = 1 TMP\_837 = 1 not(TMP\_837) = 0 TMP\_838 = 1 not(TMP\_838) = 0 TMP\_839 = 1 not(TMP\_839) = 0 TMP\_840 = 1 not(TMP\_840) = 0 TMP\_841 = 0 not(TMP\_841) = 1 TMP\_842 = 4 TMP\_843 = 0 not(TMP\_843) = 1 TMP\_844 = 0 not(TMP\_844) = 1 TMP\_845 = 0 TMP\_846 = 1 not(TMP\_846) = 0 TMP\_847 = 1 not(TMP\_847) = 0 TMP\_848 = 2 TMP\_849 = 0 not(TMP\_849) = 1 TMP\_850 = 0 not(TMP\_850) = 1 TMP\_851 = 1 not(TMP\_851) = 0 TMP\_852 = 1 not(TMP\_852) = 0 TMP\_853 = 1 not(TMP\_853) = 0 TMP\_854 = 2 TMP\_855 = 0 not(TMP\_855) = 1 TMP\_856 = 1 not(TMP\_856) = 0 TMP\_857 = 1 not(TMP\_857) = 0 TMP\_858 = 1 not(TMP\_858) = 0 TMP\_859 = 1 not(TMP\_859) = 0 TMP\_860 = 0 not(TMP\_860) = 1 TMP\_861 = 4 TMP\_862 = 0 not(TMP\_862) = 1 TMP\_863 = 0 not(TMP\_863) = 1 TMP\_864 = 0 TMP\_865 = 1 not(TMP\_865) = 0 TMP\_866 = 1 not(TMP\_866) = 0 TMP\_867 = 2 TMP\_868 = 0 not(TMP\_868) = 1 TMP\_869 = 0 not(TMP\_869) = 1 TMP\_870 = 1 not(TMP\_870) = 0 TMP\_871 = 1 not(TMP\_871) = 0 TMP\_872 = 1 not(TMP\_872) = 0 TMP\_873 = 2 TMP\_874 = 0 not(TMP\_874) = 1 TMP\_875 = 1 not(TMP\_875) = 0 TMP\_876 = 1 not(TMP\_876) = 0 TMP\_877 = 1 not(TMP\_877) = 0 TMP\_878 = 1 not(TMP\_878) = 0 TMP\_879 = 1 not(TMP\_879) = 0 TMP\_880 = 5 TMP\_881 = 0 not(TMP\_881) = 1 TMP\_882 = 0 not(TMP\_882) = 1 TMP\_883 = 0 TMP\_884 = 1 not(TMP\_884) = 0 TMP\_885 = 1 not(TMP\_885) = 0 TMP\_886 = 2 TMP\_887 = 0 not(TMP\_887) = 1 TMP\_888 = 0 not(TMP\_888) = 1 TMP\_889 = 1 not(TMP\_889) = 0 TMP\_890 = 1 not(TMP\_890) = 0 TMP\_891 = 1 not(TMP\_891) = 0 TMP\_892 = 2 TMP\_893 = 0 not(TMP\_893) = 1 TMP\_894 = 1 not(TMP\_894) = 0 TMP\_895 = 0 not(TMP\_895) = 1 TMP\_896 = 1 not(TMP\_896) = 0 TMP\_897 = 1 not(TMP\_897) = 0 TMP\_898 = 1 not(TMP\_898) = 0 TMP\_899 = 4 TMP\_900 = 0 not(TMP\_900) = 1 TMP\_901 = 0 not(TMP\_901) = 1 TMP\_902 = 0 TMP\_903 = 1 not(TMP\_903) = 0 TMP\_904 = 1 not(TMP\_904) = 0 TMP\_905 = 2 TMP\_906 = 0 not(TMP\_906) = 1 TMP\_907 = 0 not(TMP\_907) = 1 TMP\_908 = 1 not(TMP\_908) = 0 TMP\_909 = 1 not(TMP\_909) = 0 TMP\_910 = 1 not(TMP\_910) = 0 TMP\_911 = 2 TMP\_912 = 1 not(TMP\_912) = 0 TMP\_913 = 0 not(TMP\_913) = 1 TMP\_914 = 1 not(TMP\_914) = 0 TMP\_915 = 1 not(TMP\_915) = 0 TMP\_916 = 1 not(TMP\_916) = 0 TMP\_917 = 1 not(TMP\_917) = 0 TMP\_918 = 5 TMP\_919 = 0 not(TMP\_919) = 1 TMP\_920 = 0 not(TMP\_920) = 1 TMP\_921 = 0 TMP\_922 = 1 not(TMP\_922) = 0 TMP\_923 = 1 not(TMP\_923) = 0 TMP\_924 = 2 TMP\_925 = 0 not(TMP\_925) = 1 TMP\_926 = 0 not(TMP\_926) = 1 TMP\_927 = 1 not(TMP\_927) = 0 TMP\_928 = 1 not(TMP\_928) = 0 TMP\_929 = 1 not(TMP\_929) = 0 TMP\_930 = 2 TMP\_931 = 1 not(TMP\_931) = 0 TMP\_932 = 0 not(TMP\_932) = 1 TMP\_933 = 1 not(TMP\_933) = 0 TMP\_934 = 1 not(TMP\_934) = 0 TMP\_935 = 1 not(TMP\_935) = 0 TMP\_936 = 0 not(TMP\_936) = 1 TMP\_937 = 4 TMP\_938 = 0 not(TMP\_938) = 1 TMP\_939 = 0 not(TMP\_939) = 1 TMP\_940 = 0 TMP\_941 = 1 not(TMP\_941) = 0 TMP\_942 = 1 not(TMP\_942) = 0 TMP\_943 = 2 TMP\_944 = 0 not(TMP\_944) = 1 TMP\_945 = 0 not(TMP\_945) = 1 TMP\_946 = 1 not(TMP\_946) = 0 TMP\_947 = 1 not(TMP\_947) = 0 TMP\_948 = 1 not(TMP\_948) = 0 TMP\_949 = 2 TMP\_950 = 0 not(TMP\_950) = 1 TMP\_951 = 1 not(TMP\_951) = 0 TMP\_952 = 1 not(TMP\_952) = 0 TMP\_953 = 1 not(TMP\_953) = 0 TMP\_954 = 1 not(TMP\_954) = 0 TMP\_955 = 1 not(TMP\_955) = 0 TMP\_956 = 5 TMP\_957 = 0 not(TMP\_957) = 1 TMP\_958 = 0 not(TMP\_958) = 1 TMP\_959 = 0 TMP\_960 = 1 not(TMP\_960) = 0 TMP\_961 = 1 not(TMP\_961) = 0 TMP\_962 = 2 TMP\_963 = 0 not(TMP\_963) = 1 TMP\_964 = 0 not(TMP\_964) = 1 TMP\_965 = 1 not(TMP\_965) = 0 TMP\_966 = 1 not(TMP\_966) = 0 TMP\_967 = 1 not(TMP\_967) = 0 TMP\_968 = 2 TMP\_969 = 1 not(TMP\_969) = 0 TMP\_970 = 1 not(TMP\_970) = 0 TMP\_971 = 1 not(TMP\_971) = 0 TMP\_972 = 1 not(TMP\_972) = 0 TMP\_973 = 1 not(TMP\_973) = 0 TMP\_974 = 0 not(TMP\_974) = 1 TMP\_975 = 5 TMP\_976 = 0 not(TMP\_976) = 1 TMP\_977 = 0 not(TMP\_977) = 1 TMP\_978 = 0 TMP\_979 = 1 not(TMP\_979) = 0 TMP\_980 = 1 not(TMP\_980) = 0 TMP\_981 = 2 TMP\_982 = 0 not(TMP\_982) = 1 TMP\_983 = 0 not(TMP\_983) = 1 TMP\_984 = 1 not(TMP\_984) = 0 TMP\_985 = 1 not(TMP\_985) = 0 TMP\_986 = 1 not(TMP\_986) = 0 TMP\_987 = 2 TMP\_988 = 1 not(TMP\_988) = 0 TMP\_989 = 1 not(TMP\_989) = 0 TMP\_990 = 0 not(TMP\_990) = 1 TMP\_991 = 1 not(TMP\_991) = 0 TMP\_992 = 1 not(TMP\_992) = 0 TMP\_993 = 1 not(TMP\_993) = 0 TMP\_994 = 5 TMP\_995 = 0 not(TMP\_995) = 1 TMP\_996 = 0 not(TMP\_996) = 1 TMP\_997 = 0 TMP\_998 = 1 not(TMP\_998) = 0 TMP\_999 = 1 not(TMP\_999) = 0 TMP\_1000 = 2 TMP\_1001 = 0 not(TMP\_1001) = 1 TMP\_1002 = 0 not(TMP\_1002) = 1 TMP\_1003 = 1 not(TMP\_1003) = 0 TMP\_1004 = 1 not(TMP\_1004) = 0 TMP\_1005 = 1 not(TMP\_1005) = 0 TMP\_1006 = 2 TMP\_1007 = 0 not(TMP\_1007) = 1 TMP\_1008 = 1 not(TMP\_1008) = 0 TMP\_1009 = 1 not(TMP\_1009) = 0 TMP\_1010 = 1 not(TMP\_1010) = 0 TMP\_1011 = 1 not(TMP\_1011) = 0 TMP\_1012 = 1 not(TMP\_1012) = 0 TMP\_1013 = 5 TMP\_1014 = 0 not(TMP\_1014) = 1 TMP\_1015 = 0 not(TMP\_1015) = 1 TMP\_1016 = 0 TMP\_1017 = 1 not(TMP\_1017) = 0 TMP\_1018 = 1 not(TMP\_1018) = 0 TMP\_1019 = 2 TMP\_1020 = 0 not(TMP\_1020) = 1 TMP\_1021 = 0 not(TMP\_1021) = 1 TMP\_1022 = 1 not(TMP\_1022) = 0 TMP\_1023 = 1 not(TMP\_1023) = 0 TMP\_1024 = 1 not(TMP\_1024) = 0 TMP\_1025 = 2 TMP\_1026 = 0 not(TMP\_1026) = 1 TMP\_1027 = 1 not(TMP\_1027) = 0 TMP\_1028 = 1 not(TMP\_1028) = 0 TMP\_1029 = 1 not(TMP\_1029) = 0 TMP\_1030 = 1 not(TMP\_1030) = 0 TMP\_1031 = 0 not(TMP\_1031) = 1 TMP\_1032 = 4 TMP\_1033 = 0 not(TMP\_1033) = 1 TMP\_1034 = 0 not(TMP\_1034) = 1 TMP\_1035 = 0 TMP\_1036 = 1 not(TMP\_1036) = 0 TMP\_1037 = 1 not(TMP\_1037) = 0 TMP\_1038 = 2 TMP\_1039 = 0 not(TMP\_1039) = 1 TMP\_1040 = 0 not(TMP\_1040) = 1 TMP\_1041 = 1 not(TMP\_1041) = 0 TMP\_1042 = 1 not(TMP\_1042) = 0 TMP\_1043 = 1 not(TMP\_1043) = 0 TMP\_1044 = 2 Area\_0 = 60 Distance\_0\_Rule\_0 = 20 Distance\_1\_Rule\_0 = 3 Distance\_2\_Rule\_0 = 1 Area\_1 = 174 Distance\_0\_Rule\_1 = 58 Distance\_1\_Rule\_1 = 3 Distance\_2\_Rule\_1 = 1 Area\_2 = 116 Distance\_0\_Rule\_2 = 58 Distance\_1\_Rule\_2 = 2 Distance\_2\_Rule\_2 = 1 Area\_3 = 58 Distance\_0\_Rule\_3 = 58 Distance\_1\_Rule\_3 = 1 Distance\_2\_Rule\_3 = 1 Area\_4 = 120 Distance\_0\_Rule\_4 = 40 Distance\_1\_Rule\_4 = 3 Distance\_2\_Rule\_4 = 1 Area\_5 = 120 Distance\_0\_Rule\_5 = 40 Distance\_1\_Rule\_5 = 3 Distance\_2\_Rule\_5 = 1 Area\_6 = 60 Distance\_0\_Rule\_6 = 20 Distance\_1\_Rule\_6 = 3 Distance\_2\_Rule\_6 = 1 Area\_7 = 3 -(Rule\_7\_LB) = -79 Distance\_0\_Rule\_7 = 1 -(Rule\_7\_LB) = 0 Distance\_1\_Rule\_7 = 3 -(Rule\_7\_LB) = -1 Distance\_2\_Rule\_7 = 1 Area\_8 = 1 -(Rule\_8\_LB) = -79 Distance\_0\_Rule\_8 = 1 -(Rule\_8\_LB) = 0 Distance\_1\_Rule\_8 = 1 -(Rule\_8\_LB) = 0 Distance\_2\_Rule\_8 = 1 Area\_9 = 3 -(Rule\_9\_LB) = -20 Distance\_0\_Rule\_9 = 1 -(Rule\_9\_LB) = 0 Distance\_1\_Rule\_9 = 3 -(Rule\_9\_LB) = 0 Distance\_2\_Rule\_9 = 1 Area\_10 = 3 -(Rule\_10\_LB) = -20 Distance\_0\_Rule\_10 = 1 -(Rule\_10\_LB) = 0 Distance\_1\_Rule\_10 = 3 -(Rule\_10\_LB) = -1 Distance\_2\_Rule\_10 = 1 Area\_11 = 2 -(Rule\_11\_LB) = -79 Distance\_0\_Rule\_11 = 1 -(Rule\_11\_LB) = -1 Distance\_1\_Rule\_11 = 2 -(Rule\_11\_LB) = 0 Distance\_2\_Rule\_11 = 1 TMP\_1045 = 720 .

- Solution #9 found. 9 Solutions, Resolution 1.319s, 1473 Nodes (1,116.4 n/s), 2815 Backtracks, 1405 Fails, 0 Restarts

Rule\_7\_LB = 79 Rule\_7\_UB = 80 Rule\_7\_LB = 0 Rule\_7\_UB = 3 Rule\_7\_LB = 1 Rule\_7\_UB = 2 Rule\_8\_LB = 79 Rule\_8\_UB = 80 Rule\_8\_LB = 0 Rule\_8\_UB = 1 Rule\_8\_LB = 0 Rule\_8\_UB = 1 Rule\_9\_LB = 20 Rule\_9\_UB = 21 Rule\_9\_LB = 0 Rule\_9\_UB = 3 Rule\_9\_LB = 0 Rule\_9\_UB = 1 Rule\_10\_LB = 20 Rule\_10\_UB = 21 Rule\_10\_LB = 0 Rule\_10\_UB = 3 Rule\_10\_LB = 1 Rule\_10\_UB = 2 Rule\_11\_LB = 79 Rule\_11\_UB = 80 Rule\_11\_LB = 1 Rule\_11\_UB = 3 Rule\_11\_LB = 0 Rule\_11\_UB = 1 Overlaps\_0\_0 = 0 Overlaps\_0\_1 = 0 Overlaps\_0\_2 = 0 Overlaps\_0\_3 = 0 Overlaps\_0\_4 = 0 Overlaps\_0\_5 = 0 Overlaps\_0\_6 = 0 Overlaps\_0\_7 = 0 Overlaps\_0\_8 = 0 Overlaps\_0\_9 = 0 Overlaps\_0\_10 = 0 Overlaps\_0\_11 = 0 Overlaps\_1\_0 = 0 Overlaps\_1\_1 = 0 Overlaps\_1\_2 = 1 Overlaps\_1\_3 = 0 Overlaps\_1\_4 = 0 Overlaps\_1\_5 = 0 Overlaps\_1\_6 = 0 Overlaps\_1\_7 = 0 Overlaps\_1\_8 = 0 Overlaps\_1\_9 = 0 Overlaps\_1\_10 = 0 Overlaps\_1\_11 = 0 Overlaps\_2\_0 = 0 Overlaps\_2\_1 = 0 Overlaps\_2\_2 = 0 Overlaps\_2\_3 = 0 Overlaps\_2\_4 = 0 Overlaps\_2\_5 = 0 Overlaps\_2\_6 = 0 Overlaps\_2\_7 = 0 Overlaps\_2\_8 = 0 Overlaps\_2\_9 = 0 Overlaps\_2\_10 = 0 Overlaps\_2\_11 = 0 Overlaps\_3\_0 = 0 Overlaps\_3\_1 = 0 Overlaps\_3\_2 = 0 Overlaps\_3\_3 = 0 Overlaps\_3\_4 = 0 Overlaps\_3\_5 = 0 Overlaps\_3\_6 = 0 Overlaps\_3\_7 = 0 Overlaps\_3\_8 = 0 Overlaps\_3\_9 = 0 Overlaps\_3\_10 = 0 Overlaps\_3\_11 = 0 Overlaps\_4\_0 = 0 Overlaps\_4\_1 = 0 Overlaps\_4\_2 = 0 Overlaps\_4\_3 = 0 Overlaps\_4\_4 = 0 Overlaps\_4\_5 = 0 Overlaps\_4\_6 = 0 Overlaps\_4\_7 = 0 Overlaps\_4\_8 = 0 Overlaps\_4\_9 = 0 Overlaps\_4\_10 = 0 Overlaps\_4\_11 = 0 Overlaps\_5\_0 = 0 Overlaps\_5\_1 = 0 Overlaps\_5\_2 = 0 Overlaps\_5\_3 = 0 Overlaps\_5\_4 = 0 Overlaps\_5\_5 = 0 Overlaps\_5\_6 = 0 Overlaps\_5\_7 = 0 Overlaps\_5\_8 = 0 Overlaps\_5\_9 = 0 Overlaps\_5\_10 = 0 Overlaps\_5\_11 = 0 Overlaps\_6\_0 = 0 Overlaps\_6\_1 = 0 Overlaps\_6\_2 = 0 Overlaps\_6\_3 = 0 Overlaps\_6\_4 = 0 Overlaps\_6\_5 = 0 Overlaps\_6\_6 = 0 Overlaps\_6\_7 = 0 Overlaps\_6\_8 = 0 Overlaps\_6\_9 = 0 Overlaps\_6\_10 = 0 Overlaps\_6\_11 = 0 Overlaps\_7\_0 = 0 Overlaps\_7\_1 = 0 Overlaps\_7\_2 = 0 Overlaps\_7\_3 = 0 Overlaps\_7\_4 = 0 Overlaps\_7\_5 = 0 Overlaps\_7\_6 = 0 Overlaps\_7\_7 = 0 Overlaps\_7\_8 = 0 Overlaps\_7\_9 = 0 Overlaps\_7\_10 = 0 Overlaps\_7\_11 = 0 Overlaps\_8\_0 = 0 Overlaps\_8\_1 = 0 Overlaps\_8\_2 = 0 Overlaps\_8\_3 = 0 Overlaps\_8\_4 = 0 Overlaps\_8\_5 = 0 Overlaps\_8\_6 = 0 Overlaps\_8\_7 = 0 Overlaps\_8\_8 = 0 Overlaps\_8\_9 = 0 Overlaps\_8\_10 = 0 Overlaps\_8\_11 = 0 Overlaps\_9\_0 = 0 Overlaps\_9\_1 = 0 Overlaps\_9\_2 = 0 Overlaps\_9\_3 = 0 Overlaps\_9\_4 = 0 Overlaps\_9\_5 = 0 Overlaps\_9\_6 = 0 Overlaps\_9\_7 = 0 Overlaps\_9\_8 = 0 Overlaps\_9\_9 = 0 Overlaps\_9\_10 = 0 Overlaps\_9\_11 = 0 Overlaps\_10\_0 = 0 Overlaps\_10\_1 = 0 Overlaps\_10\_2 = 0 Overlaps\_10\_3 = 0 Overlaps\_10\_4 = 0 Overlaps\_10\_5 = 0 Overlaps\_10\_6 = 0 Overlaps\_10\_7 = 0 Overlaps\_10\_8 = 0 Overlaps\_10\_9 = 0 Overlaps\_10\_10 = 0 Overlaps\_10\_11 = 0 Overlaps\_11\_0 = 0 Overlaps\_11\_1 = 0 Overlaps\_11\_2 = 0 Overlaps\_11\_3 = 0 Overlaps\_11\_4 = 0 Overlaps\_11\_5 = 0 Overlaps\_11\_6 = 0 Overlaps\_11\_7 = 0 Overlaps\_11\_8 = 0 Overlaps\_11\_9 = 0 Overlaps\_11\_10 = 0 Overlaps\_11\_11 = 0 TMP\_0 = 0 not(TMP\_0) = 1 TMP\_1 = 1 not(TMP\_1) = 0 TMP\_2 = 1 not(TMP\_2) = 0 TMP\_3 = 1 not(TMP\_3) = 0 TMP\_4 = 1 not(TMP\_4) = 0 TMP\_5 = 1 not(TMP\_5) = 0 TMP\_6 = 5 TMP\_7 = 0 not(TMP\_7) = 1 TMP\_8 = 0 not(TMP\_8) = 1 TMP\_9 = 0 TMP\_10 = 1 not(TMP\_10) = 0 TMP\_11 = 1 not(TMP\_11) = 0 TMP\_12 = 2 TMP\_13 = 0 not(TMP\_13) = 1 TMP\_14 = 0 not(TMP\_14) = 1 TMP\_15 = 1 not(TMP\_15) = 0 TMP\_16 = 1 not(TMP\_16) = 0 TMP\_17 = 1 not(TMP\_17) = 0 TMP\_18 = 2 TMP\_19 = 0 not(TMP\_19) = 1 TMP\_20 = 1 not(TMP\_20) = 0 TMP\_21 = 1 not(TMP\_21) = 0 TMP\_22 = 1 not(TMP\_22) = 0 TMP\_23 = 1 not(TMP\_23) = 0 TMP\_24 = 1 not(TMP\_24) = 0 TMP\_25 = 5 TMP\_26 = 0 not(TMP\_26) = 1 TMP\_27 = 0 not(TMP\_27) = 1 TMP\_28 = 0 TMP\_29 = 1 not(TMP\_29) = 0 TMP\_30 = 1 not(TMP\_30) = 0 TMP\_31 = 2 TMP\_32 = 0 not(TMP\_32) = 1 TMP\_33 = 0 not(TMP\_33) = 1 TMP\_34 = 1 not(TMP\_34) = 0 TMP\_35 = 1 not(TMP\_35) = 0 TMP\_36 = 1 not(TMP\_36) = 0 TMP\_37 = 2 TMP\_38 = 0 not(TMP\_38) = 1 TMP\_39 = 1 not(TMP\_39) = 0 TMP\_40 = 1 not(TMP\_40) = 0 TMP\_41 = 1 not(TMP\_41) = 0 TMP\_42 = 0 not(TMP\_42) = 1 TMP\_43 = 1 not(TMP\_43) = 0 TMP\_44 = 4 TMP\_45 = 0 not(TMP\_45) = 1 TMP\_46 = 0 not(TMP\_46) = 1 TMP\_47 = 0 TMP\_48 = 1 not(TMP\_48) = 0 TMP\_49 = 1 not(TMP\_49) = 0 TMP\_50 = 2 TMP\_51 = 0 not(TMP\_51) = 1 TMP\_52 = 0 not(TMP\_52) = 1 TMP\_53 = 1 not(TMP\_53) = 0 TMP\_54 = 1 not(TMP\_54) = 0 TMP\_55 = 1 not(TMP\_55) = 0 TMP\_56 = 2 TMP\_57 = 0 not(TMP\_57) = 1 TMP\_58 = 1 not(TMP\_58) = 0 TMP\_59 = 1 not(TMP\_59) = 0 TMP\_60 = 1 not(TMP\_60) = 0 TMP\_61 = 0 not(TMP\_61) = 1 TMP\_62 = 1 not(TMP\_62) = 0 TMP\_63 = 4 TMP\_64 = 0 not(TMP\_64) = 1 TMP\_65 = 0 not(TMP\_65) = 1 TMP\_66 = 0 TMP\_67 = 1 not(TMP\_67) = 0 TMP\_68 = 1 not(TMP\_68) = 0 TMP\_69 = 2 TMP\_70 = 0 not(TMP\_70) = 1 TMP\_71 = 0 not(TMP\_71) = 1 TMP\_72 = 1 not(TMP\_72) = 0 TMP\_73 = 1 not(TMP\_73) = 0 TMP\_74 = 1 not(TMP\_74) = 0 TMP\_75 = 2 TMP\_76 = 1 not(TMP\_76) = 0 TMP\_77 = 0 not(TMP\_77) = 1 TMP\_78 = 1 not(TMP\_78) = 0 TMP\_79 = 1 not(TMP\_79) = 0 TMP\_80 = 0 not(TMP\_80) = 1 TMP\_81 = 1 not(TMP\_81) = 0 TMP\_82 = 4 TMP\_83 = 0 not(TMP\_83) = 1 TMP\_84 = 0 not(TMP\_84) = 1 TMP\_85 = 0 TMP\_86 = 1 not(TMP\_86) = 0 TMP\_87 = 1 not(TMP\_87) = 0 TMP\_88 = 2 TMP\_89 = 0 not(TMP\_89) = 1 TMP\_90 = 0 not(TMP\_90) = 1 TMP\_91 = 1 not(TMP\_91) = 0 TMP\_92 = 1 not(TMP\_92) = 0 TMP\_93 = 1 not(TMP\_93) = 0 TMP\_94 = 2 TMP\_95 = 1 not(TMP\_95) = 0 TMP\_96 = 0 not(TMP\_96) = 1 TMP\_97 = 1 not(TMP\_97) = 0 TMP\_98 = 1 not(TMP\_98) = 0 TMP\_99 = 1 not(TMP\_99) = 0 TMP\_100 = 1 not(TMP\_100) = 0 TMP\_101 = 5 TMP\_102 = 0 not(TMP\_102) = 1 TMP\_103 = 0 not(TMP\_103) = 1 TMP\_104 = 0 TMP\_105 = 1 not(TMP\_105) = 0 TMP\_106 = 1 not(TMP\_106) = 0 TMP\_107 = 2 TMP\_108 = 0 not(TMP\_108) = 1 TMP\_109 = 0 not(TMP\_109) = 1 TMP\_110 = 1 not(TMP\_110) = 0 TMP\_111 = 1 not(TMP\_111) = 0 TMP\_112 = 1 not(TMP\_112) = 0 TMP\_113 = 2 TMP\_114 = 0 not(TMP\_114) = 1 TMP\_115 = 1 not(TMP\_115) = 0 TMP\_116 = 1 not(TMP\_116) = 0 TMP\_117 = 1 not(TMP\_117) = 0 TMP\_118 = 0 not(TMP\_118) = 1 TMP\_119 = 1 not(TMP\_119) = 0 TMP\_120 = 4 TMP\_121 = 0 not(TMP\_121) = 1 TMP\_122 = 0 not(TMP\_122) = 1 TMP\_123 = 0 TMP\_124 = 1 not(TMP\_124) = 0 TMP\_125 = 1 not(TMP\_125) = 0 TMP\_126 = 2 TMP\_127 = 0 not(TMP\_127) = 1 TMP\_128 = 0 not(TMP\_128) = 1 TMP\_129 = 1 not(TMP\_129) = 0 TMP\_130 = 1 not(TMP\_130) = 0 TMP\_131 = 1 not(TMP\_131) = 0 TMP\_132 = 2 TMP\_133 = 1 not(TMP\_133) = 0 TMP\_134 = 1 not(TMP\_134) = 0 TMP\_135 = 1 not(TMP\_135) = 0 TMP\_136 = 1 not(TMP\_136) = 0 TMP\_137 = 0 not(TMP\_137) = 1 TMP\_138 = 1 not(TMP\_138) = 0 TMP\_139 = 5 TMP\_140 = 0 not(TMP\_140) = 1 TMP\_141 = 0 not(TMP\_141) = 1 TMP\_142 = 0 TMP\_143 = 1 not(TMP\_143) = 0 TMP\_144 = 1 not(TMP\_144) = 0 TMP\_145 = 2 TMP\_146 = 0 not(TMP\_146) = 1 TMP\_147 = 0 not(TMP\_147) = 1 TMP\_148 = 1 not(TMP\_148) = 0 TMP\_149 = 1 not(TMP\_149) = 0 TMP\_150 = 1 not(TMP\_150) = 0 TMP\_151 = 2 TMP\_152 = 0 not(TMP\_152) = 1 TMP\_153 = 1 not(TMP\_153) = 0 TMP\_154 = 1 not(TMP\_154) = 0 TMP\_155 = 1 not(TMP\_155) = 0 TMP\_156 = 0 not(TMP\_156) = 1 TMP\_157 = 1 not(TMP\_157) = 0 TMP\_158 = 4 TMP\_159 = 0 not(TMP\_159) = 1 TMP\_160 = 0 not(TMP\_160) = 1 TMP\_161 = 0 TMP\_162 = 1 not(TMP\_162) = 0 TMP\_163 = 1 not(TMP\_163) = 0 TMP\_164 = 2 TMP\_165 = 0 not(TMP\_165) = 1 TMP\_166 = 0 not(TMP\_166) = 1 TMP\_167 = 1 not(TMP\_167) = 0 TMP\_168 = 1 not(TMP\_168) = 0 TMP\_169 = 1 not(TMP\_169) = 0 TMP\_170 = 2 TMP\_171 = 0 not(TMP\_171) = 1 TMP\_172 = 1 not(TMP\_172) = 0 TMP\_173 = 1 not(TMP\_173) = 0 TMP\_174 = 1 not(TMP\_174) = 0 TMP\_175 = 1 not(TMP\_175) = 0 TMP\_176 = 1 not(TMP\_176) = 0 TMP\_177 = 5 TMP\_178 = 0 not(TMP\_178) = 1 TMP\_179 = 0 not(TMP\_179) = 1 TMP\_180 = 0 TMP\_181 = 1 not(TMP\_181) = 0 TMP\_182 = 1 not(TMP\_182) = 0 TMP\_183 = 2 TMP\_184 = 0 not(TMP\_184) = 1 TMP\_185 = 0 not(TMP\_185) = 1 TMP\_186 = 1 not(TMP\_186) = 0 TMP\_187 = 1 not(TMP\_187) = 0 TMP\_188 = 1 not(TMP\_188) = 0 TMP\_189 = 2 TMP\_190 = 1 not(TMP\_190) = 0 TMP\_191 = 1 not(TMP\_191) = 0 TMP\_192 = 1 not(TMP\_192) = 0 TMP\_193 = 1 not(TMP\_193) = 0 TMP\_194 = 0 not(TMP\_194) = 1 TMP\_195 = 1 not(TMP\_195) = 0 TMP\_196 = 5 TMP\_197 = 0 not(TMP\_197) = 1 TMP\_198 = 0 not(TMP\_198) = 1 TMP\_199 = 0 TMP\_200 = 1 not(TMP\_200) = 0 TMP\_201 = 1 not(TMP\_201) = 0 TMP\_202 = 2 TMP\_203 = 0 not(TMP\_203) = 1 TMP\_204 = 0 not(TMP\_204) = 1 TMP\_205 = 1 not(TMP\_205) = 0 TMP\_206 = 1 not(TMP\_206) = 0 TMP\_207 = 1 not(TMP\_207) = 0 TMP\_208 = 2 TMP\_209 = 0 not(TMP\_209) = 1 TMP\_210 = 1 not(TMP\_210) = 0 TMP\_211 = 1 not(TMP\_211) = 0 TMP\_212 = 1 not(TMP\_212) = 0 TMP\_213 = 1 not(TMP\_213) = 0 TMP\_214 = 0 not(TMP\_214) = 1 TMP\_215 = 4 TMP\_216 = 0 not(TMP\_216) = 1 TMP\_217 = 0 not(TMP\_217) = 1 TMP\_218 = 0 TMP\_219 = 1 not(TMP\_219) = 0 TMP\_220 = 1 not(TMP\_220) = 0 TMP\_221 = 2 TMP\_222 = 0 not(TMP\_222) = 1 TMP\_223 = 0 not(TMP\_223) = 1 TMP\_224 = 1 not(TMP\_224) = 0 TMP\_225 = 1 not(TMP\_225) = 0 TMP\_226 = 1 not(TMP\_226) = 0 TMP\_227 = 2 TMP\_228 = 0 not(TMP\_228) = 1 TMP\_229 = 1 not(TMP\_229) = 0 TMP\_230 = 1 not(TMP\_230) = 0 TMP\_231 = 1 not(TMP\_231) = 0 TMP\_232 = 1 not(TMP\_232) = 0 TMP\_233 = 0 not(TMP\_233) = 1 TMP\_234 = 4 TMP\_235 = 0 not(TMP\_235) = 1 TMP\_236 = 0 not(TMP\_236) = 1 TMP\_237 = 0 TMP\_238 = 1 not(TMP\_238) = 0 TMP\_239 = 1 not(TMP\_239) = 0 TMP\_240 = 2 TMP\_241 = 0 not(TMP\_241) = 1 TMP\_242 = 0 not(TMP\_242) = 1 TMP\_243 = 1 not(TMP\_243) = 0 TMP\_244 = 1 not(TMP\_244) = 0 TMP\_245 = 1 not(TMP\_245) = 0 TMP\_246 = 2 TMP\_247 = 0 not(TMP\_247) = 1 TMP\_248 = 1 not(TMP\_248) = 0 TMP\_249 = 1 not(TMP\_249) = 0 TMP\_250 = 0 not(TMP\_250) = 1 TMP\_251 = 1 not(TMP\_251) = 0 TMP\_252 = 1 not(TMP\_252) = 0 TMP\_253 = 4 TMP\_254 = 0 not(TMP\_254) = 1 TMP\_255 = 0 not(TMP\_255) = 1 TMP\_256 = 0 TMP\_257 = 1 not(TMP\_257) = 0 TMP\_258 = 1 not(TMP\_258) = 0 TMP\_259 = 2 TMP\_260 = 0 not(TMP\_260) = 1 TMP\_261 = 0 not(TMP\_261) = 1 TMP\_262 = 1 not(TMP\_262) = 0 TMP\_263 = 1 not(TMP\_263) = 0 TMP\_264 = 1 not(TMP\_264) = 0 TMP\_265 = 2 TMP\_266 = 0 not(TMP\_266) = 1 TMP\_267 = 1 not(TMP\_267) = 0 TMP\_268 = 1 not(TMP\_268) = 0 TMP\_269 = 1 not(TMP\_269) = 0 TMP\_270 = 1 not(TMP\_270) = 0 TMP\_271 = 1 not(TMP\_271) = 0 TMP\_272 = 5 TMP\_273 = 0 not(TMP\_273) = 1 TMP\_274 = 0 not(TMP\_274) = 1 TMP\_275 = 0 TMP\_276 = 1 not(TMP\_276) = 0 TMP\_277 = 1 not(TMP\_277) = 0 TMP\_278 = 2 TMP\_279 = 0 not(TMP\_279) = 1 TMP\_280 = 0 not(TMP\_280) = 1 TMP\_281 = 1 not(TMP\_281) = 0 TMP\_282 = 1 not(TMP\_282) = 0 TMP\_283 = 1 not(TMP\_283) = 0 TMP\_284 = 2 TMP\_285 = 1 not(TMP\_285) = 0 TMP\_286 = 0 not(TMP\_286) = 1 TMP\_287 = 1 not(TMP\_287) = 0 TMP\_288 = 1 not(TMP\_288) = 0 TMP\_289 = 1 not(TMP\_289) = 0 TMP\_290 = 1 not(TMP\_290) = 0 TMP\_291 = 5 TMP\_292 = 0 not(TMP\_292) = 1 TMP\_293 = 0 not(TMP\_293) = 1 TMP\_294 = 0 TMP\_295 = 1 not(TMP\_295) = 0 TMP\_296 = 1 not(TMP\_296) = 0 TMP\_297 = 2 TMP\_298 = 0 not(TMP\_298) = 1 TMP\_299 = 0 not(TMP\_299) = 1 TMP\_300 = 1 not(TMP\_300) = 0 TMP\_301 = 1 not(TMP\_301) = 0 TMP\_302 = 1 not(TMP\_302) = 0 TMP\_303 = 2 TMP\_304 = 1 not(TMP\_304) = 0 TMP\_305 = 0 not(TMP\_305) = 1 TMP\_306 = 1 not(TMP\_306) = 0 TMP\_307 = 1 not(TMP\_307) = 0 TMP\_308 = 1 not(TMP\_308) = 0 TMP\_309 = 0 not(TMP\_309) = 1 TMP\_310 = 4 TMP\_311 = 0 not(TMP\_311) = 1 TMP\_312 = 0 not(TMP\_312) = 1 TMP\_313 = 0 TMP\_314 = 1 not(TMP\_314) = 0 TMP\_315 = 1 not(TMP\_315) = 0 TMP\_316 = 2 TMP\_317 = 0 not(TMP\_317) = 1 TMP\_318 = 0 not(TMP\_318) = 1 TMP\_319 = 1 not(TMP\_319) = 0 TMP\_320 = 1 not(TMP\_320) = 0 TMP\_321 = 1 not(TMP\_321) = 0 TMP\_322 = 2 TMP\_323 = 0 not(TMP\_323) = 1 TMP\_324 = 1 not(TMP\_324) = 0 TMP\_325 = 1 not(TMP\_325) = 0 TMP\_326 = 1 not(TMP\_326) = 0 TMP\_327 = 1 not(TMP\_327) = 0 TMP\_328 = 1 not(TMP\_328) = 0 TMP\_329 = 5 TMP\_330 = 0 not(TMP\_330) = 1 TMP\_331 = 0 not(TMP\_331) = 1 TMP\_332 = 0 TMP\_333 = 1 not(TMP\_333) = 0 TMP\_334 = 1 not(TMP\_334) = 0 TMP\_335 = 2 TMP\_336 = 0 not(TMP\_336) = 1 TMP\_337 = 0 not(TMP\_337) = 1 TMP\_338 = 1 not(TMP\_338) = 0 TMP\_339 = 1 not(TMP\_339) = 0 TMP\_340 = 1 not(TMP\_340) = 0 TMP\_341 = 2 TMP\_342 = 1 not(TMP\_342) = 0 TMP\_343 = 1 not(TMP\_343) = 0 TMP\_344 = 1 not(TMP\_344) = 0 TMP\_345 = 1 not(TMP\_345) = 0 TMP\_346 = 1 not(TMP\_346) = 0 TMP\_347 = 0 not(TMP\_347) = 1 TMP\_348 = 5 TMP\_349 = 0 not(TMP\_349) = 1 TMP\_350 = 0 not(TMP\_350) = 1 TMP\_351 = 0 TMP\_352 = 1 not(TMP\_352) = 0 TMP\_353 = 1 not(TMP\_353) = 0 TMP\_354 = 2 TMP\_355 = 0 not(TMP\_355) = 1 TMP\_356 = 0 not(TMP\_356) = 1 TMP\_357 = 1 not(TMP\_357) = 0 TMP\_358 = 1 not(TMP\_358) = 0 TMP\_359 = 1 not(TMP\_359) = 0 TMP\_360 = 2 TMP\_361 = 0 not(TMP\_361) = 1 TMP\_362 = 1 not(TMP\_362) = 0 TMP\_363 = 1 not(TMP\_363) = 0 TMP\_364 = 1 not(TMP\_364) = 0 TMP\_365 = 1 not(TMP\_365) = 0 TMP\_366 = 1 not(TMP\_366) = 0 TMP\_367 = 5 TMP\_368 = 0 not(TMP\_368) = 1 TMP\_369 = 0 not(TMP\_369) = 1 TMP\_370 = 0 TMP\_371 = 1 not(TMP\_371) = 0 TMP\_372 = 1 not(TMP\_372) = 0 TMP\_373 = 2 TMP\_374 = 0 not(TMP\_374) = 1 TMP\_375 = 0 not(TMP\_375) = 1 TMP\_376 = 1 not(TMP\_376) = 0 TMP\_377 = 1 not(TMP\_377) = 0 TMP\_378 = 1 not(TMP\_378) = 0 TMP\_379 = 2 TMP\_380 = 0 not(TMP\_380) = 1 TMP\_381 = 1 not(TMP\_381) = 0 TMP\_382 = 1 not(TMP\_382) = 0 TMP\_383 = 1 not(TMP\_383) = 0 TMP\_384 = 1 not(TMP\_384) = 0 TMP\_385 = 0 not(TMP\_385) = 1 TMP\_386 = 4 TMP\_387 = 0 not(TMP\_387) = 1 TMP\_388 = 0 not(TMP\_388) = 1 TMP\_389 = 0 TMP\_390 = 1 not(TMP\_390) = 0 TMP\_391 = 1 not(TMP\_391) = 0 TMP\_392 = 2 TMP\_393 = 0 not(TMP\_393) = 1 TMP\_394 = 0 not(TMP\_394) = 1 TMP\_395 = 1 not(TMP\_395) = 0 TMP\_396 = 1 not(TMP\_396) = 0 TMP\_397 = 1 not(TMP\_397) = 0 TMP\_398 = 2 TMP\_399 = 1 not(TMP\_399) = 0 TMP\_400 = 1 not(TMP\_400) = 0 TMP\_401 = 1 not(TMP\_401) = 0 TMP\_402 = 0 not(TMP\_402) = 1 TMP\_403 = 1 not(TMP\_403) = 0 TMP\_404 = 1 not(TMP\_404) = 0 TMP\_405 = 5 TMP\_406 = 0 not(TMP\_406) = 1 TMP\_407 = 0 not(TMP\_407) = 1 TMP\_408 = 0 TMP\_409 = 1 not(TMP\_409) = 0 TMP\_410 = 1 not(TMP\_410) = 0 TMP\_411 = 2 TMP\_412 = 0 not(TMP\_412) = 1 TMP\_413 = 0 not(TMP\_413) = 1 TMP\_414 = 1 not(TMP\_414) = 0 TMP\_415 = 1 not(TMP\_415) = 0 TMP\_416 = 1 not(TMP\_416) = 0 TMP\_417 = 2 TMP\_418 = 0 not(TMP\_418) = 1 TMP\_419 = 1 not(TMP\_419) = 0 TMP\_420 = 1 not(TMP\_420) = 0 TMP\_421 = 1 not(TMP\_421) = 0 TMP\_422 = 1 not(TMP\_422) = 0 TMP\_423 = 0 not(TMP\_423) = 1 TMP\_424 = 4 TMP\_425 = 0 not(TMP\_425) = 1 TMP\_426 = 0 not(TMP\_426) = 1 TMP\_427 = 0 TMP\_428 = 1 not(TMP\_428) = 0 TMP\_429 = 1 not(TMP\_429) = 0 TMP\_430 = 2 TMP\_431 = 0 not(TMP\_431) = 1 TMP\_432 = 0 not(TMP\_432) = 1 TMP\_433 = 1 not(TMP\_433) = 0 TMP\_434 = 1 not(TMP\_434) = 0 TMP\_435 = 1 not(TMP\_435) = 0 TMP\_436 = 2 TMP\_437 = 1 not(TMP\_437) = 0 TMP\_438 = 0 not(TMP\_438) = 1 TMP\_439 = 1 not(TMP\_439) = 0 TMP\_440 = 1 not(TMP\_440) = 0 TMP\_441 = 1 not(TMP\_441) = 0 TMP\_442 = 0 not(TMP\_442) = 1 TMP\_443 = 4 TMP\_444 = 0 not(TMP\_444) = 1 TMP\_445 = 0 not(TMP\_445) = 1 TMP\_446 = 0 TMP\_447 = 1 not(TMP\_447) = 0 TMP\_448 = 1 not(TMP\_448) = 0 TMP\_449 = 2 TMP\_450 = 0 not(TMP\_450) = 1 TMP\_451 = 0 not(TMP\_451) = 1 TMP\_452 = 1 not(TMP\_452) = 0 TMP\_453 = 1 not(TMP\_453) = 0 TMP\_454 = 1 not(TMP\_454) = 0 TMP\_455 = 2 TMP\_456 = 1 not(TMP\_456) = 0 TMP\_457 = 0 not(TMP\_457) = 1 TMP\_458 = 1 not(TMP\_458) = 0 TMP\_459 = 1 not(TMP\_459) = 0 TMP\_460 = 1 not(TMP\_460) = 0 TMP\_461 = 1 not(TMP\_461) = 0 TMP\_462 = 5 TMP\_463 = 0 not(TMP\_463) = 1 TMP\_464 = 0 not(TMP\_464) = 1 TMP\_465 = 0 TMP\_466 = 1 not(TMP\_466) = 0 TMP\_467 = 1 not(TMP\_467) = 0 TMP\_468 = 2 TMP\_469 = 0 not(TMP\_469) = 1 TMP\_470 = 0 not(TMP\_470) = 1 TMP\_471 = 1 not(TMP\_471) = 0 TMP\_472 = 1 not(TMP\_472) = 0 TMP\_473 = 1 not(TMP\_473) = 0 TMP\_474 = 2 TMP\_475 = 1 not(TMP\_475) = 0 TMP\_476 = 0 not(TMP\_476) = 1 TMP\_477 = 1 not(TMP\_477) = 0 TMP\_478 = 1 not(TMP\_478) = 0 TMP\_479 = 1 not(TMP\_479) = 0 TMP\_480 = 1 not(TMP\_480) = 0 TMP\_481 = 5 TMP\_482 = 0 not(TMP\_482) = 1 TMP\_483 = 0 not(TMP\_483) = 1 TMP\_484 = 0 TMP\_485 = 1 not(TMP\_485) = 0 TMP\_486 = 1 not(TMP\_486) = 0 TMP\_487 = 2 TMP\_488 = 0 not(TMP\_488) = 1 TMP\_489 = 0 not(TMP\_489) = 1 TMP\_490 = 1 not(TMP\_490) = 0 TMP\_491 = 1 not(TMP\_491) = 0 TMP\_492 = 1 not(TMP\_492) = 0 TMP\_493 = 2 TMP\_494 = 1 not(TMP\_494) = 0 TMP\_495 = 0 not(TMP\_495) = 1 TMP\_496 = 1 not(TMP\_496) = 0 TMP\_497 = 1 not(TMP\_497) = 0 TMP\_498 = 1 not(TMP\_498) = 0 TMP\_499 = 1 not(TMP\_499) = 0 TMP\_500 = 5 TMP\_501 = 0 not(TMP\_501) = 1 TMP\_502 = 0 not(TMP\_502) = 1 TMP\_503 = 0 TMP\_504 = 1 not(TMP\_504) = 0 TMP\_505 = 1 not(TMP\_505) = 0 TMP\_506 = 2 TMP\_507 = 0 not(TMP\_507) = 1 TMP\_508 = 0 not(TMP\_508) = 1 TMP\_509 = 1 not(TMP\_509) = 0 TMP\_510 = 1 not(TMP\_510) = 0 TMP\_511 = 1 not(TMP\_511) = 0 TMP\_512 = 2 TMP\_513 = 1 not(TMP\_513) = 0 TMP\_514 = 0 not(TMP\_514) = 1 TMP\_515 = 1 not(TMP\_515) = 0 TMP\_516 = 1 not(TMP\_516) = 0 TMP\_517 = 1 not(TMP\_517) = 0 TMP\_518 = 0 not(TMP\_518) = 1 TMP\_519 = 4 TMP\_520 = 0 not(TMP\_520) = 1 TMP\_521 = 0 not(TMP\_521) = 1 TMP\_522 = 0 TMP\_523 = 1 not(TMP\_523) = 0 TMP\_524 = 1 not(TMP\_524) = 0 TMP\_525 = 2 TMP\_526 = 0 not(TMP\_526) = 1 TMP\_527 = 0 not(TMP\_527) = 1 TMP\_528 = 1 not(TMP\_528) = 0 TMP\_529 = 1 not(TMP\_529) = 0 TMP\_530 = 1 not(TMP\_530) = 0 TMP\_531 = 2 TMP\_532 = 0 not(TMP\_532) = 1 TMP\_533 = 1 not(TMP\_533) = 0 TMP\_534 = 1 not(TMP\_534) = 0 TMP\_535 = 1 not(TMP\_535) = 0 TMP\_536 = 1 not(TMP\_536) = 0 TMP\_537 = 1 not(TMP\_537) = 0 TMP\_538 = 5 TMP\_539 = 0 not(TMP\_539) = 1 TMP\_540 = 0 not(TMP\_540) = 1 TMP\_541 = 0 TMP\_542 = 1 not(TMP\_542) = 0 TMP\_543 = 1 not(TMP\_543) = 0 TMP\_544 = 2 TMP\_545 = 0 not(TMP\_545) = 1 TMP\_546 = 0 not(TMP\_546) = 1 TMP\_547 = 1 not(TMP\_547) = 0 TMP\_548 = 1 not(TMP\_548) = 0 TMP\_549 = 1 not(TMP\_549) = 0 TMP\_550 = 2 TMP\_551 = 1 not(TMP\_551) = 0 TMP\_552 = 0 not(TMP\_552) = 1 TMP\_553 = 1 not(TMP\_553) = 0 TMP\_554 = 1 not(TMP\_554) = 0 TMP\_555 = 1 not(TMP\_555) = 0 TMP\_556 = 0 not(TMP\_556) = 1 TMP\_557 = 4 TMP\_558 = 0 not(TMP\_558) = 1 TMP\_559 = 0 not(TMP\_559) = 1 TMP\_560 = 0 TMP\_561 = 1 not(TMP\_561) = 0 TMP\_562 = 1 not(TMP\_562) = 0 TMP\_563 = 2 TMP\_564 = 0 not(TMP\_564) = 1 TMP\_565 = 0 not(TMP\_565) = 1 TMP\_566 = 1 not(TMP\_566) = 0 TMP\_567 = 1 not(TMP\_567) = 0 TMP\_568 = 1 not(TMP\_568) = 0 TMP\_569 = 2 TMP\_570 = 1 not(TMP\_570) = 0 TMP\_571 = 0 not(TMP\_571) = 1 TMP\_572 = 1 not(TMP\_572) = 0 TMP\_573 = 1 not(TMP\_573) = 0 TMP\_574 = 1 not(TMP\_574) = 0 TMP\_575 = 1 not(TMP\_575) = 0 TMP\_576 = 5 TMP\_577 = 0 not(TMP\_577) = 1 TMP\_578 = 0 not(TMP\_578) = 1 TMP\_579 = 0 TMP\_580 = 1 not(TMP\_580) = 0 TMP\_581 = 1 not(TMP\_581) = 0 TMP\_582 = 2 TMP\_583 = 0 not(TMP\_583) = 1 TMP\_584 = 0 not(TMP\_584) = 1 TMP\_585 = 1 not(TMP\_585) = 0 TMP\_586 = 1 not(TMP\_586) = 0 TMP\_587 = 1 not(TMP\_587) = 0 TMP\_588 = 2 TMP\_589 = 1 not(TMP\_589) = 0 TMP\_590 = 1 not(TMP\_590) = 0 TMP\_591 = 1 not(TMP\_591) = 0 TMP\_592 = 1 not(TMP\_592) = 0 TMP\_593 = 1 not(TMP\_593) = 0 TMP\_594 = 0 not(TMP\_594) = 1 TMP\_595 = 5 TMP\_596 = 0 not(TMP\_596) = 1 TMP\_597 = 0 not(TMP\_597) = 1 TMP\_598 = 0 TMP\_599 = 1 not(TMP\_599) = 0 TMP\_600 = 1 not(TMP\_600) = 0 TMP\_601 = 2 TMP\_602 = 0 not(TMP\_602) = 1 TMP\_603 = 0 not(TMP\_603) = 1 TMP\_604 = 1 not(TMP\_604) = 0 TMP\_605 = 1 not(TMP\_605) = 0 TMP\_606 = 1 not(TMP\_606) = 0 TMP\_607 = 2 TMP\_608 = 1 not(TMP\_608) = 0 TMP\_609 = 0 not(TMP\_609) = 1 TMP\_610 = 1 not(TMP\_610) = 0 TMP\_611 = 1 not(TMP\_611) = 0 TMP\_612 = 1 not(TMP\_612) = 0 TMP\_613 = 1 not(TMP\_613) = 0 TMP\_614 = 5 TMP\_615 = 0 not(TMP\_615) = 1 TMP\_616 = 0 not(TMP\_616) = 1 TMP\_617 = 0 TMP\_618 = 1 not(TMP\_618) = 0 TMP\_619 = 1 not(TMP\_619) = 0 TMP\_620 = 2 TMP\_621 = 0 not(TMP\_621) = 1 TMP\_622 = 0 not(TMP\_622) = 1 TMP\_623 = 1 not(TMP\_623) = 0 TMP\_624 = 1 not(TMP\_624) = 0 TMP\_625 = 1 not(TMP\_625) = 0 TMP\_626 = 2 TMP\_627 = 0 not(TMP\_627) = 1 TMP\_628 = 1 not(TMP\_628) = 0 TMP\_629 = 1 not(TMP\_629) = 0 TMP\_630 = 1 not(TMP\_630) = 0 TMP\_631 = 1 not(TMP\_631) = 0 TMP\_632 = 1 not(TMP\_632) = 0 TMP\_633 = 5 TMP\_634 = 0 not(TMP\_634) = 1 TMP\_635 = 0 not(TMP\_635) = 1 TMP\_636 = 0 TMP\_637 = 1 not(TMP\_637) = 0 TMP\_638 = 1 not(TMP\_638) = 0 TMP\_639 = 2 TMP\_640 = 0 not(TMP\_640) = 1 TMP\_641 = 0 not(TMP\_641) = 1 TMP\_642 = 1 not(TMP\_642) = 0 TMP\_643 = 1 not(TMP\_643) = 0 TMP\_644 = 1 not(TMP\_644) = 0 TMP\_645 = 2 TMP\_646 = 1 not(TMP\_646) = 0 TMP\_647 = 0 not(TMP\_647) = 1 TMP\_648 = 1 not(TMP\_648) = 0 TMP\_649 = 1 not(TMP\_649) = 0 TMP\_650 = 1 not(TMP\_650) = 0 TMP\_651 = 1 not(TMP\_651) = 0 TMP\_652 = 5 TMP\_653 = 0 not(TMP\_653) = 1 TMP\_654 = 0 not(TMP\_654) = 1 TMP\_655 = 0 TMP\_656 = 1 not(TMP\_656) = 0 TMP\_657 = 1 not(TMP\_657) = 0 TMP\_658 = 2 TMP\_659 = 0 not(TMP\_659) = 1 TMP\_660 = 0 not(TMP\_660) = 1 TMP\_661 = 1 not(TMP\_661) = 0 TMP\_662 = 1 not(TMP\_662) = 0 TMP\_663 = 1 not(TMP\_663) = 0 TMP\_664 = 2 TMP\_665 = 1 not(TMP\_665) = 0 TMP\_666 = 0 not(TMP\_666) = 1 TMP\_667 = 1 not(TMP\_667) = 0 TMP\_668 = 1 not(TMP\_668) = 0 TMP\_669 = 0 not(TMP\_669) = 1 TMP\_670 = 1 not(TMP\_670) = 0 TMP\_671 = 4 TMP\_672 = 0 not(TMP\_672) = 1 TMP\_673 = 0 not(TMP\_673) = 1 TMP\_674 = 0 TMP\_675 = 1 not(TMP\_675) = 0 TMP\_676 = 1 not(TMP\_676) = 0 TMP\_677 = 2 TMP\_678 = 0 not(TMP\_678) = 1 TMP\_679 = 0 not(TMP\_679) = 1 TMP\_680 = 1 not(TMP\_680) = 0 TMP\_681 = 1 not(TMP\_681) = 0 TMP\_682 = 1 not(TMP\_682) = 0 TMP\_683 = 2 TMP\_684 = 1 not(TMP\_684) = 0 TMP\_685 = 0 not(TMP\_685) = 1 TMP\_686 = 1 not(TMP\_686) = 0 TMP\_687 = 1 not(TMP\_687) = 0 TMP\_688 = 0 not(TMP\_688) = 1 TMP\_689 = 1 not(TMP\_689) = 0 TMP\_690 = 4 TMP\_691 = 0 not(TMP\_691) = 1 TMP\_692 = 0 not(TMP\_692) = 1 TMP\_693 = 0 TMP\_694 = 1 not(TMP\_694) = 0 TMP\_695 = 1 not(TMP\_695) = 0 TMP\_696 = 2 TMP\_697 = 0 not(TMP\_697) = 1 TMP\_698 = 0 not(TMP\_698) = 1 TMP\_699 = 1 not(TMP\_699) = 0 TMP\_700 = 1 not(TMP\_700) = 0 TMP\_701 = 1 not(TMP\_701) = 0 TMP\_702 = 2 TMP\_703 = 1 not(TMP\_703) = 0 TMP\_704 = 0 not(TMP\_704) = 1 TMP\_705 = 1 not(TMP\_705) = 0 TMP\_706 = 1 not(TMP\_706) = 0 TMP\_707 = 0 not(TMP\_707) = 1 TMP\_708 = 1 not(TMP\_708) = 0 TMP\_709 = 4 TMP\_710 = 0 not(TMP\_710) = 1 TMP\_711 = 0 not(TMP\_711) = 1 TMP\_712 = 0 TMP\_713 = 1 not(TMP\_713) = 0 TMP\_714 = 1 not(TMP\_714) = 0 TMP\_715 = 2 TMP\_716 = 0 not(TMP\_716) = 1 TMP\_717 = 0 not(TMP\_717) = 1 TMP\_718 = 1 not(TMP\_718) = 0 TMP\_719 = 1 not(TMP\_719) = 0 TMP\_720 = 1 not(TMP\_720) = 0 TMP\_721 = 2 TMP\_722 = 1 not(TMP\_722) = 0 TMP\_723 = 0 not(TMP\_723) = 1 TMP\_724 = 1 not(TMP\_724) = 0 TMP\_725 = 1 not(TMP\_725) = 0 TMP\_726 = 1 not(TMP\_726) = 0 TMP\_727 = 1 not(TMP\_727) = 0 TMP\_728 = 5 TMP\_729 = 0 not(TMP\_729) = 1 TMP\_730 = 0 not(TMP\_730) = 1 TMP\_731 = 0 TMP\_732 = 1 not(TMP\_732) = 0 TMP\_733 = 1 not(TMP\_733) = 0 TMP\_734 = 2 TMP\_735 = 0 not(TMP\_735) = 1 TMP\_736 = 0 not(TMP\_736) = 1 TMP\_737 = 1 not(TMP\_737) = 0 TMP\_738 = 1 not(TMP\_738) = 0 TMP\_739 = 1 not(TMP\_739) = 0 TMP\_740 = 2 TMP\_741 = 0 not(TMP\_741) = 1 TMP\_742 = 1 not(TMP\_742) = 0 TMP\_743 = 1 not(TMP\_743) = 0 TMP\_744 = 1 not(TMP\_744) = 0 TMP\_745 = 0 not(TMP\_745) = 1 TMP\_746 = 1 not(TMP\_746) = 0 TMP\_747 = 4 TMP\_748 = 0 not(TMP\_748) = 1 TMP\_749 = 0 not(TMP\_749) = 1 TMP\_750 = 0 TMP\_751 = 1 not(TMP\_751) = 0 TMP\_752 = 1 not(TMP\_752) = 0 TMP\_753 = 2 TMP\_754 = 0 not(TMP\_754) = 1 TMP\_755 = 0 not(TMP\_755) = 1 TMP\_756 = 1 not(TMP\_756) = 0 TMP\_757 = 1 not(TMP\_757) = 0 TMP\_758 = 1 not(TMP\_758) = 0 TMP\_759 = 2 TMP\_760 = 1 not(TMP\_760) = 0 TMP\_761 = 0 not(TMP\_761) = 1 TMP\_762 = 1 not(TMP\_762) = 0 TMP\_763 = 1 not(TMP\_763) = 0 TMP\_764 = 1 not(TMP\_764) = 0 TMP\_765 = 1 not(TMP\_765) = 0 TMP\_766 = 5 TMP\_767 = 0 not(TMP\_767) = 1 TMP\_768 = 0 not(TMP\_768) = 1 TMP\_769 = 0 TMP\_770 = 1 not(TMP\_770) = 0 TMP\_771 = 1 not(TMP\_771) = 0 TMP\_772 = 2 TMP\_773 = 0 not(TMP\_773) = 1 TMP\_774 = 0 not(TMP\_774) = 1 TMP\_775 = 1 not(TMP\_775) = 0 TMP\_776 = 1 not(TMP\_776) = 0 TMP\_777 = 1 not(TMP\_777) = 0 TMP\_778 = 2 TMP\_779 = 1 not(TMP\_779) = 0 TMP\_780 = 0 not(TMP\_780) = 1 TMP\_781 = 1 not(TMP\_781) = 0 TMP\_782 = 1 not(TMP\_782) = 0 TMP\_783 = 0 not(TMP\_783) = 1 TMP\_784 = 1 not(TMP\_784) = 0 TMP\_785 = 4 TMP\_786 = 0 not(TMP\_786) = 1 TMP\_787 = 0 not(TMP\_787) = 1 TMP\_788 = 0 TMP\_789 = 1 not(TMP\_789) = 0 TMP\_790 = 1 not(TMP\_790) = 0 TMP\_791 = 2 TMP\_792 = 0 not(TMP\_792) = 1 TMP\_793 = 0 not(TMP\_793) = 1 TMP\_794 = 1 not(TMP\_794) = 0 TMP\_795 = 1 not(TMP\_795) = 0 TMP\_796 = 1 not(TMP\_796) = 0 TMP\_797 = 2 TMP\_798 = 1 not(TMP\_798) = 0 TMP\_799 = 1 not(TMP\_799) = 0 TMP\_800 = 1 not(TMP\_800) = 0 TMP\_801 = 1 not(TMP\_801) = 0 TMP\_802 = 0 not(TMP\_802) = 1 TMP\_803 = 1 not(TMP\_803) = 0 TMP\_804 = 5 TMP\_805 = 0 not(TMP\_805) = 1 TMP\_806 = 0 not(TMP\_806) = 1 TMP\_807 = 0 TMP\_808 = 1 not(TMP\_808) = 0 TMP\_809 = 1 not(TMP\_809) = 0 TMP\_810 = 2 TMP\_811 = 0 not(TMP\_811) = 1 TMP\_812 = 0 not(TMP\_812) = 1 TMP\_813 = 1 not(TMP\_813) = 0 TMP\_814 = 1 not(TMP\_814) = 0 TMP\_815 = 1 not(TMP\_815) = 0 TMP\_816 = 2 TMP\_817 = 1 not(TMP\_817) = 0 TMP\_818 = 0 not(TMP\_818) = 1 TMP\_819 = 1 not(TMP\_819) = 0 TMP\_820 = 1 not(TMP\_820) = 0 TMP\_821 = 0 not(TMP\_821) = 1 TMP\_822 = 1 not(TMP\_822) = 0 TMP\_823 = 4 TMP\_824 = 0 not(TMP\_824) = 1 TMP\_825 = 0 not(TMP\_825) = 1 TMP\_826 = 0 TMP\_827 = 1 not(TMP\_827) = 0 TMP\_828 = 1 not(TMP\_828) = 0 TMP\_829 = 2 TMP\_830 = 0 not(TMP\_830) = 1 TMP\_831 = 0 not(TMP\_831) = 1 TMP\_832 = 1 not(TMP\_832) = 0 TMP\_833 = 1 not(TMP\_833) = 0 TMP\_834 = 1 not(TMP\_834) = 0 TMP\_835 = 2 TMP\_836 = 0 not(TMP\_836) = 1 TMP\_837 = 1 not(TMP\_837) = 0 TMP\_838 = 1 not(TMP\_838) = 0 TMP\_839 = 1 not(TMP\_839) = 0 TMP\_840 = 1 not(TMP\_840) = 0 TMP\_841 = 0 not(TMP\_841) = 1 TMP\_842 = 4 TMP\_843 = 0 not(TMP\_843) = 1 TMP\_844 = 0 not(TMP\_844) = 1 TMP\_845 = 0 TMP\_846 = 1 not(TMP\_846) = 0 TMP\_847 = 1 not(TMP\_847) = 0 TMP\_848 = 2 TMP\_849 = 0 not(TMP\_849) = 1 TMP\_850 = 0 not(TMP\_850) = 1 TMP\_851 = 1 not(TMP\_851) = 0 TMP\_852 = 1 not(TMP\_852) = 0 TMP\_853 = 1 not(TMP\_853) = 0 TMP\_854 = 2 TMP\_855 = 0 not(TMP\_855) = 1 TMP\_856 = 1 not(TMP\_856) = 0 TMP\_857 = 1 not(TMP\_857) = 0 TMP\_858 = 1 not(TMP\_858) = 0 TMP\_859 = 1 not(TMP\_859) = 0 TMP\_860 = 0 not(TMP\_860) = 1 TMP\_861 = 4 TMP\_862 = 0 not(TMP\_862) = 1 TMP\_863 = 0 not(TMP\_863) = 1 TMP\_864 = 0 TMP\_865 = 1 not(TMP\_865) = 0 TMP\_866 = 1 not(TMP\_866) = 0 TMP\_867 = 2 TMP\_868 = 0 not(TMP\_868) = 1 TMP\_869 = 0 not(TMP\_869) = 1 TMP\_870 = 1 not(TMP\_870) = 0 TMP\_871 = 1 not(TMP\_871) = 0 TMP\_872 = 1 not(TMP\_872) = 0 TMP\_873 = 2 TMP\_874 = 0 not(TMP\_874) = 1 TMP\_875 = 1 not(TMP\_875) = 0 TMP\_876 = 1 not(TMP\_876) = 0 TMP\_877 = 1 not(TMP\_877) = 0 TMP\_878 = 1 not(TMP\_878) = 0 TMP\_879 = 1 not(TMP\_879) = 0 TMP\_880 = 5 TMP\_881 = 0 not(TMP\_881) = 1 TMP\_882 = 0 not(TMP\_882) = 1 TMP\_883 = 0 TMP\_884 = 1 not(TMP\_884) = 0 TMP\_885 = 1 not(TMP\_885) = 0 TMP\_886 = 2 TMP\_887 = 0 not(TMP\_887) = 1 TMP\_888 = 0 not(TMP\_888) = 1 TMP\_889 = 1 not(TMP\_889) = 0 TMP\_890 = 1 not(TMP\_890) = 0 TMP\_891 = 1 not(TMP\_891) = 0 TMP\_892 = 2 TMP\_893 = 0 not(TMP\_893) = 1 TMP\_894 = 1 not(TMP\_894) = 0 TMP\_895 = 0 not(TMP\_895) = 1 TMP\_896 = 1 not(TMP\_896) = 0 TMP\_897 = 1 not(TMP\_897) = 0 TMP\_898 = 1 not(TMP\_898) = 0 TMP\_899 = 4 TMP\_900 = 0 not(TMP\_900) = 1 TMP\_901 = 0 not(TMP\_901) = 1 TMP\_902 = 0 TMP\_903 = 1 not(TMP\_903) = 0 TMP\_904 = 1 not(TMP\_904) = 0 TMP\_905 = 2 TMP\_906 = 0 not(TMP\_906) = 1 TMP\_907 = 0 not(TMP\_907) = 1 TMP\_908 = 1 not(TMP\_908) = 0 TMP\_909 = 1 not(TMP\_909) = 0 TMP\_910 = 1 not(TMP\_910) = 0 TMP\_911 = 2 TMP\_912 = 1 not(TMP\_912) = 0 TMP\_913 = 0 not(TMP\_913) = 1 TMP\_914 = 1 not(TMP\_914) = 0 TMP\_915 = 1 not(TMP\_915) = 0 TMP\_916 = 1 not(TMP\_916) = 0 TMP\_917 = 1 not(TMP\_917) = 0 TMP\_918 = 5 TMP\_919 = 0 not(TMP\_919) = 1 TMP\_920 = 0 not(TMP\_920) = 1 TMP\_921 = 0 TMP\_922 = 1 not(TMP\_922) = 0 TMP\_923 = 1 not(TMP\_923) = 0 TMP\_924 = 2 TMP\_925 = 0 not(TMP\_925) = 1 TMP\_926 = 0 not(TMP\_926) = 1 TMP\_927 = 1 not(TMP\_927) = 0 TMP\_928 = 1 not(TMP\_928) = 0 TMP\_929 = 1 not(TMP\_929) = 0 TMP\_930 = 2 TMP\_931 = 1 not(TMP\_931) = 0 TMP\_932 = 0 not(TMP\_932) = 1 TMP\_933 = 1 not(TMP\_933) = 0 TMP\_934 = 1 not(TMP\_934) = 0 TMP\_935 = 1 not(TMP\_935) = 0 TMP\_936 = 0 not(TMP\_936) = 1 TMP\_937 = 4 TMP\_938 = 0 not(TMP\_938) = 1 TMP\_939 = 0 not(TMP\_939) = 1 TMP\_940 = 0 TMP\_941 = 1 not(TMP\_941) = 0 TMP\_942 = 1 not(TMP\_942) = 0 TMP\_943 = 2 TMP\_944 = 0 not(TMP\_944) = 1 TMP\_945 = 0 not(TMP\_945) = 1 TMP\_946 = 1 not(TMP\_946) = 0 TMP\_947 = 1 not(TMP\_947) = 0 TMP\_948 = 1 not(TMP\_948) = 0 TMP\_949 = 2 TMP\_950 = 0 not(TMP\_950) = 1 TMP\_951 = 1 not(TMP\_951) = 0 TMP\_952 = 1 not(TMP\_952) = 0 TMP\_953 = 1 not(TMP\_953) = 0 TMP\_954 = 1 not(TMP\_954) = 0 TMP\_955 = 1 not(TMP\_955) = 0 TMP\_956 = 5 TMP\_957 = 0 not(TMP\_957) = 1 TMP\_958 = 0 not(TMP\_958) = 1 TMP\_959 = 0 TMP\_960 = 1 not(TMP\_960) = 0 TMP\_961 = 1 not(TMP\_961) = 0 TMP\_962 = 2 TMP\_963 = 0 not(TMP\_963) = 1 TMP\_964 = 0 not(TMP\_964) = 1 TMP\_965 = 1 not(TMP\_965) = 0 TMP\_966 = 1 not(TMP\_966) = 0 TMP\_967 = 1 not(TMP\_967) = 0 TMP\_968 = 2 TMP\_969 = 1 not(TMP\_969) = 0 TMP\_970 = 1 not(TMP\_970) = 0 TMP\_971 = 1 not(TMP\_971) = 0 TMP\_972 = 1 not(TMP\_972) = 0 TMP\_973 = 1 not(TMP\_973) = 0 TMP\_974 = 0 not(TMP\_974) = 1 TMP\_975 = 5 TMP\_976 = 0 not(TMP\_976) = 1 TMP\_977 = 0 not(TMP\_977) = 1 TMP\_978 = 0 TMP\_979 = 1 not(TMP\_979) = 0 TMP\_980 = 1 not(TMP\_980) = 0 TMP\_981 = 2 TMP\_982 = 0 not(TMP\_982) = 1 TMP\_983 = 0 not(TMP\_983) = 1 TMP\_984 = 1 not(TMP\_984) = 0 TMP\_985 = 1 not(TMP\_985) = 0 TMP\_986 = 1 not(TMP\_986) = 0 TMP\_987 = 2 TMP\_988 = 1 not(TMP\_988) = 0 TMP\_989 = 1 not(TMP\_989) = 0 TMP\_990 = 0 not(TMP\_990) = 1 TMP\_991 = 1 not(TMP\_991) = 0 TMP\_992 = 1 not(TMP\_992) = 0 TMP\_993 = 1 not(TMP\_993) = 0 TMP\_994 = 5 TMP\_995 = 0 not(TMP\_995) = 1 TMP\_996 = 0 not(TMP\_996) = 1 TMP\_997 = 0 TMP\_998 = 1 not(TMP\_998) = 0 TMP\_999 = 1 not(TMP\_999) = 0 TMP\_1000 = 2 TMP\_1001 = 0 not(TMP\_1001) = 1 TMP\_1002 = 0 not(TMP\_1002) = 1 TMP\_1003 = 1 not(TMP\_1003) = 0 TMP\_1004 = 1 not(TMP\_1004) = 0 TMP\_1005 = 1 not(TMP\_1005) = 0 TMP\_1006 = 2 TMP\_1007 = 0 not(TMP\_1007) = 1 TMP\_1008 = 1 not(TMP\_1008) = 0 TMP\_1009 = 1 not(TMP\_1009) = 0 TMP\_1010 = 1 not(TMP\_1010) = 0 TMP\_1011 = 1 not(TMP\_1011) = 0 TMP\_1012 = 1 not(TMP\_1012) = 0 TMP\_1013 = 5 TMP\_1014 = 0 not(TMP\_1014) = 1 TMP\_1015 = 0 not(TMP\_1015) = 1 TMP\_1016 = 0 TMP\_1017 = 1 not(TMP\_1017) = 0 TMP\_1018 = 1 not(TMP\_1018) = 0 TMP\_1019 = 2 TMP\_1020 = 0 not(TMP\_1020) = 1 TMP\_1021 = 0 not(TMP\_1021) = 1 TMP\_1022 = 1 not(TMP\_1022) = 0 TMP\_1023 = 1 not(TMP\_1023) = 0 TMP\_1024 = 1 not(TMP\_1024) = 0 TMP\_1025 = 2 TMP\_1026 = 0 not(TMP\_1026) = 1 TMP\_1027 = 1 not(TMP\_1027) = 0 TMP\_1028 = 1 not(TMP\_1028) = 0 TMP\_1029 = 1 not(TMP\_1029) = 0 TMP\_1030 = 1 not(TMP\_1030) = 0 TMP\_1031 = 0 not(TMP\_1031) = 1 TMP\_1032 = 4 TMP\_1033 = 0 not(TMP\_1033) = 1 TMP\_1034 = 0 not(TMP\_1034) = 1 TMP\_1035 = 0 TMP\_1036 = 1 not(TMP\_1036) = 0 TMP\_1037 = 1 not(TMP\_1037) = 0 TMP\_1038 = 2 TMP\_1039 = 0 not(TMP\_1039) = 1 TMP\_1040 = 0 not(TMP\_1040) = 1 TMP\_1041 = 1 not(TMP\_1041) = 0 TMP\_1042 = 1 not(TMP\_1042) = 0 TMP\_1043 = 1 not(TMP\_1043) = 0 TMP\_1044 = 2 Area\_0 = 60 Distance\_0\_Rule\_0 = 20 Distance\_1\_Rule\_0 = 3 Distance\_2\_Rule\_0 = 1 Area\_1 = 174 Distance\_0\_Rule\_1 = 58 Distance\_1\_Rule\_1 = 3 Distance\_2\_Rule\_1 = 1 Area\_2 = 116 Distance\_0\_Rule\_2 = 58 Distance\_1\_Rule\_2 = 2 Distance\_2\_Rule\_2 = 1 Area\_3 = 58 Distance\_0\_Rule\_3 = 58 Distance\_1\_Rule\_3 = 1 Distance\_2\_Rule\_3 = 1 Area\_4 = 120 Distance\_0\_Rule\_4 = 40 Distance\_1\_Rule\_4 = 3 Distance\_2\_Rule\_4 = 1 Area\_5 = 120 Distance\_0\_Rule\_5 = 40 Distance\_1\_Rule\_5 = 3 Distance\_2\_Rule\_5 = 1 Area\_6 = 60 Distance\_0\_Rule\_6 = 20 Distance\_1\_Rule\_6 = 3 Distance\_2\_Rule\_6 = 1 Area\_7 = 3 -(Rule\_7\_LB) = -79 Distance\_0\_Rule\_7 = 1 -(Rule\_7\_LB) = 0 Distance\_1\_Rule\_7 = 3 -(Rule\_7\_LB) = -1 Distance\_2\_Rule\_7 = 1 Area\_8 = 1 -(Rule\_8\_LB) = -79 Distance\_0\_Rule\_8 = 1 -(Rule\_8\_LB) = 0 Distance\_1\_Rule\_8 = 1 -(Rule\_8\_LB) = 0 Distance\_2\_Rule\_8 = 1 Area\_9 = 3 -(Rule\_9\_LB) = -20 Distance\_0\_Rule\_9 = 1 -(Rule\_9\_LB) = 0 Distance\_1\_Rule\_9 = 3 -(Rule\_9\_LB) = 0 Distance\_2\_Rule\_9 = 1 Area\_10 = 3 -(Rule\_10\_LB) = -20 Distance\_0\_Rule\_10 = 1 -(Rule\_10\_LB) = 0 Distance\_1\_Rule\_10 = 3 -(Rule\_10\_LB) = -1 Distance\_2\_Rule\_10 = 1 Area\_11 = 2 -(Rule\_11\_LB) = -79 Distance\_0\_Rule\_11 = 1 -(Rule\_11\_LB) = -1 Distance\_1\_Rule\_11 = 2 -(Rule\_11\_LB) = 0 Distance\_2\_Rule\_11 = 1 TMP\_1045 = 720 .

- Solution #10 found. 10 Solutions, Resolution 1.329s, 1474 Nodes (1,109.4 n/s), 2816 Backtracks, 1405 Fails, 0 Restarts

Rule\_7\_LB = 79 Rule\_7\_UB = 80 Rule\_7\_LB = 0 Rule\_7\_UB = 3 Rule\_7\_LB = 1 Rule\_7\_UB = 2 Rule\_8\_LB = 79 Rule\_8\_UB = 80 Rule\_8\_LB = 0 Rule\_8\_UB = 1 Rule\_8\_LB = 0 Rule\_8\_UB = 1 Rule\_9\_LB = 20 Rule\_9\_UB = 21 Rule\_9\_LB = 0 Rule\_9\_UB = 3 Rule\_9\_LB = 0 Rule\_9\_UB = 1 Rule\_10\_LB = 20 Rule\_10\_UB = 21 Rule\_10\_LB = 0 Rule\_10\_UB = 3 Rule\_10\_LB = 1 Rule\_10\_UB = 2 Rule\_11\_LB = 79 Rule\_11\_UB = 80 Rule\_11\_LB = 1 Rule\_11\_UB = 3 Rule\_11\_LB = 0 Rule\_11\_UB = 1 Overlaps\_0\_0 = 0 Overlaps\_0\_1 = 0 Overlaps\_0\_2 = 0 Overlaps\_0\_3 = 0 Overlaps\_0\_4 = 0 Overlaps\_0\_5 = 0 Overlaps\_0\_6 = 0 Overlaps\_0\_7 = 0 Overlaps\_0\_8 = 0 Overlaps\_0\_9 = 0 Overlaps\_0\_10 = 0 Overlaps\_0\_11 = 0 Overlaps\_1\_0 = 0 Overlaps\_1\_1 = 0 Overlaps\_1\_2 = 1 Overlaps\_1\_3 = 0 Overlaps\_1\_4 = 0 Overlaps\_1\_5 = 0 Overlaps\_1\_6 = 0 Overlaps\_1\_7 = 0 Overlaps\_1\_8 = 0 Overlaps\_1\_9 = 0 Overlaps\_1\_10 = 0 Overlaps\_1\_11 = 0 Overlaps\_2\_0 = 0 Overlaps\_2\_1 = 0 Overlaps\_2\_2 = 0 Overlaps\_2\_3 = 0 Overlaps\_2\_4 = 0 Overlaps\_2\_5 = 0 Overlaps\_2\_6 = 0 Overlaps\_2\_7 = 0 Overlaps\_2\_8 = 0 Overlaps\_2\_9 = 0 Overlaps\_2\_10 = 0 Overlaps\_2\_11 = 0 Overlaps\_3\_0 = 0 Overlaps\_3\_1 = 0 Overlaps\_3\_2 = 0 Overlaps\_3\_3 = 0 Overlaps\_3\_4 = 0 Overlaps\_3\_5 = 0 Overlaps\_3\_6 = 0 Overlaps\_3\_7 = 0 Overlaps\_3\_8 = 0 Overlaps\_3\_9 = 0 Overlaps\_3\_10 = 0 Overlaps\_3\_11 = 0 Overlaps\_4\_0 = 0 Overlaps\_4\_1 = 0 Overlaps\_4\_2 = 0 Overlaps\_4\_3 = 0 Overlaps\_4\_4 = 0 Overlaps\_4\_5 = 0 Overlaps\_4\_6 = 0 Overlaps\_4\_7 = 0 Overlaps\_4\_8 = 0 Overlaps\_4\_9 = 0 Overlaps\_4\_10 = 0 Overlaps\_4\_11 = 0 Overlaps\_5\_0 = 0 Overlaps\_5\_1 = 0 Overlaps\_5\_2 = 0 Overlaps\_5\_3 = 0 Overlaps\_5\_4 = 0 Overlaps\_5\_5 = 0 Overlaps\_5\_6 = 0 Overlaps\_5\_7 = 0 Overlaps\_5\_8 = 0 Overlaps\_5\_9 = 0 Overlaps\_5\_10 = 0 Overlaps\_5\_11 = 0 Overlaps\_6\_0 = 0 Overlaps\_6\_1 = 1 Overlaps\_6\_2 = 0 Overlaps\_6\_3 = 0 Overlaps\_6\_4 = 0 Overlaps\_6\_5 = 0 Overlaps\_6\_6 = 0 Overlaps\_6\_7 = 0 Overlaps\_6\_8 = 0 Overlaps\_6\_9 = 0 Overlaps\_6\_10 = 0 Overlaps\_6\_11 = 0 Overlaps\_7\_0 = 0 Overlaps\_7\_1 = 0 Overlaps\_7\_2 = 0 Overlaps\_7\_3 = 0 Overlaps\_7\_4 = 0 Overlaps\_7\_5 = 0 Overlaps\_7\_6 = 0 Overlaps\_7\_7 = 0 Overlaps\_7\_8 = 0 Overlaps\_7\_9 = 0 Overlaps\_7\_10 = 0 Overlaps\_7\_11 = 0 Overlaps\_8\_0 = 0 Overlaps\_8\_1 = 0 Overlaps\_8\_2 = 0 Overlaps\_8\_3 = 0 Overlaps\_8\_4 = 0 Overlaps\_8\_5 = 0 Overlaps\_8\_6 = 0 Overlaps\_8\_7 = 0 Overlaps\_8\_8 = 0 Overlaps\_8\_9 = 0 Overlaps\_8\_10 = 0 Overlaps\_8\_11 = 0 Overlaps\_9\_0 = 0 Overlaps\_9\_1 = 0 Overlaps\_9\_2 = 0 Overlaps\_9\_3 = 0 Overlaps\_9\_4 = 0 Overlaps\_9\_5 = 0 Overlaps\_9\_6 = 0 Overlaps\_9\_7 = 0 Overlaps\_9\_8 = 0 Overlaps\_9\_9 = 0 Overlaps\_9\_10 = 0 Overlaps\_9\_11 = 0 Overlaps\_10\_0 = 0 Overlaps\_10\_1 = 0 Overlaps\_10\_2 = 0 Overlaps\_10\_3 = 0 Overlaps\_10\_4 = 0 Overlaps\_10\_5 = 0 Overlaps\_10\_6 = 0 Overlaps\_10\_7 = 0 Overlaps\_10\_8 = 0 Overlaps\_10\_9 = 0 Overlaps\_10\_10 = 0 Overlaps\_10\_11 = 0 Overlaps\_11\_0 = 0 Overlaps\_11\_1 = 0 Overlaps\_11\_2 = 0 Overlaps\_11\_3 = 0 Overlaps\_11\_4 = 0 Overlaps\_11\_5 = 0 Overlaps\_11\_6 = 0 Overlaps\_11\_7 = 0 Overlaps\_11\_8 = 0 Overlaps\_11\_9 = 0 Overlaps\_11\_10 = 0 Overlaps\_11\_11 = 0 TMP\_0 = 0 not(TMP\_0) = 1 TMP\_1 = 1 not(TMP\_1) = 0 TMP\_2 = 1 not(TMP\_2) = 0 TMP\_3 = 1 not(TMP\_3) = 0 TMP\_4 = 1 not(TMP\_4) = 0 TMP\_5 = 1 not(TMP\_5) = 0 TMP\_6 = 5 TMP\_7 = 0 not(TMP\_7) = 1 TMP\_8 = 0 not(TMP\_8) = 1 TMP\_9 = 0 TMP\_10 = 1 not(TMP\_10) = 0 TMP\_11 = 1 not(TMP\_11) = 0 TMP\_12 = 2 TMP\_13 = 0 not(TMP\_13) = 1 TMP\_14 = 0 not(TMP\_14) = 1 TMP\_15 = 1 not(TMP\_15) = 0 TMP\_16 = 1 not(TMP\_16) = 0 TMP\_17 = 1 not(TMP\_17) = 0 TMP\_18 = 2 TMP\_19 = 0 not(TMP\_19) = 1 TMP\_20 = 1 not(TMP\_20) = 0 TMP\_21 = 1 not(TMP\_21) = 0 TMP\_22 = 1 not(TMP\_22) = 0 TMP\_23 = 1 not(TMP\_23) = 0 TMP\_24 = 1 not(TMP\_24) = 0 TMP\_25 = 5 TMP\_26 = 0 not(TMP\_26) = 1 TMP\_27 = 0 not(TMP\_27) = 1 TMP\_28 = 0 TMP\_29 = 1 not(TMP\_29) = 0 TMP\_30 = 1 not(TMP\_30) = 0 TMP\_31 = 2 TMP\_32 = 0 not(TMP\_32) = 1 TMP\_33 = 0 not(TMP\_33) = 1 TMP\_34 = 1 not(TMP\_34) = 0 TMP\_35 = 1 not(TMP\_35) = 0 TMP\_36 = 1 not(TMP\_36) = 0 TMP\_37 = 2 TMP\_38 = 0 not(TMP\_38) = 1 TMP\_39 = 1 not(TMP\_39) = 0 TMP\_40 = 1 not(TMP\_40) = 0 TMP\_41 = 1 not(TMP\_41) = 0 TMP\_42 = 0 not(TMP\_42) = 1 TMP\_43 = 1 not(TMP\_43) = 0 TMP\_44 = 4 TMP\_45 = 0 not(TMP\_45) = 1 TMP\_46 = 0 not(TMP\_46) = 1 TMP\_47 = 0 TMP\_48 = 1 not(TMP\_48) = 0 TMP\_49 = 1 not(TMP\_49) = 0 TMP\_50 = 2 TMP\_51 = 0 not(TMP\_51) = 1 TMP\_52 = 0 not(TMP\_52) = 1 TMP\_53 = 1 not(TMP\_53) = 0 TMP\_54 = 1 not(TMP\_54) = 0 TMP\_55 = 1 not(TMP\_55) = 0 TMP\_56 = 2 TMP\_57 = 0 not(TMP\_57) = 1 TMP\_58 = 1 not(TMP\_58) = 0 TMP\_59 = 1 not(TMP\_59) = 0 TMP\_60 = 1 not(TMP\_60) = 0 TMP\_61 = 0 not(TMP\_61) = 1 TMP\_62 = 1 not(TMP\_62) = 0 TMP\_63 = 4 TMP\_64 = 0 not(TMP\_64) = 1 TMP\_65 = 0 not(TMP\_65) = 1 TMP\_66 = 0 TMP\_67 = 1 not(TMP\_67) = 0 TMP\_68 = 1 not(TMP\_68) = 0 TMP\_69 = 2 TMP\_70 = 0 not(TMP\_70) = 1 TMP\_71 = 0 not(TMP\_71) = 1 TMP\_72 = 1 not(TMP\_72) = 0 TMP\_73 = 1 not(TMP\_73) = 0 TMP\_74 = 1 not(TMP\_74) = 0 TMP\_75 = 2 TMP\_76 = 1 not(TMP\_76) = 0 TMP\_77 = 0 not(TMP\_77) = 1 TMP\_78 = 1 not(TMP\_78) = 0 TMP\_79 = 1 not(TMP\_79) = 0 TMP\_80 = 0 not(TMP\_80) = 1 TMP\_81 = 1 not(TMP\_81) = 0 TMP\_82 = 4 TMP\_83 = 0 not(TMP\_83) = 1 TMP\_84 = 0 not(TMP\_84) = 1 TMP\_85 = 0 TMP\_86 = 1 not(TMP\_86) = 0 TMP\_87 = 1 not(TMP\_87) = 0 TMP\_88 = 2 TMP\_89 = 0 not(TMP\_89) = 1 TMP\_90 = 0 not(TMP\_90) = 1 TMP\_91 = 1 not(TMP\_91) = 0 TMP\_92 = 1 not(TMP\_92) = 0 TMP\_93 = 1 not(TMP\_93) = 0 TMP\_94 = 2 TMP\_95 = 1 not(TMP\_95) = 0 TMP\_96 = 0 not(TMP\_96) = 1 TMP\_97 = 1 not(TMP\_97) = 0 TMP\_98 = 1 not(TMP\_98) = 0 TMP\_99 = 1 not(TMP\_99) = 0 TMP\_100 = 1 not(TMP\_100) = 0 TMP\_101 = 5 TMP\_102 = 0 not(TMP\_102) = 1 TMP\_103 = 0 not(TMP\_103) = 1 TMP\_104 = 0 TMP\_105 = 1 not(TMP\_105) = 0 TMP\_106 = 1 not(TMP\_106) = 0 TMP\_107 = 2 TMP\_108 = 0 not(TMP\_108) = 1 TMP\_109 = 0 not(TMP\_109) = 1 TMP\_110 = 1 not(TMP\_110) = 0 TMP\_111 = 1 not(TMP\_111) = 0 TMP\_112 = 1 not(TMP\_112) = 0 TMP\_113 = 2 TMP\_114 = 0 not(TMP\_114) = 1 TMP\_115 = 1 not(TMP\_115) = 0 TMP\_116 = 1 not(TMP\_116) = 0 TMP\_117 = 1 not(TMP\_117) = 0 TMP\_118 = 0 not(TMP\_118) = 1 TMP\_119 = 1 not(TMP\_119) = 0 TMP\_120 = 4 TMP\_121 = 0 not(TMP\_121) = 1 TMP\_122 = 0 not(TMP\_122) = 1 TMP\_123 = 0 TMP\_124 = 1 not(TMP\_124) = 0 TMP\_125 = 1 not(TMP\_125) = 0 TMP\_126 = 2 TMP\_127 = 0 not(TMP\_127) = 1 TMP\_128 = 0 not(TMP\_128) = 1 TMP\_129 = 1 not(TMP\_129) = 0 TMP\_130 = 1 not(TMP\_130) = 0 TMP\_131 = 1 not(TMP\_131) = 0 TMP\_132 = 2 TMP\_133 = 1 not(TMP\_133) = 0 TMP\_134 = 1 not(TMP\_134) = 0 TMP\_135 = 1 not(TMP\_135) = 0 TMP\_136 = 1 not(TMP\_136) = 0 TMP\_137 = 0 not(TMP\_137) = 1 TMP\_138 = 1 not(TMP\_138) = 0 TMP\_139 = 5 TMP\_140 = 0 not(TMP\_140) = 1 TMP\_141 = 0 not(TMP\_141) = 1 TMP\_142 = 0 TMP\_143 = 1 not(TMP\_143) = 0 TMP\_144 = 1 not(TMP\_144) = 0 TMP\_145 = 2 TMP\_146 = 0 not(TMP\_146) = 1 TMP\_147 = 0 not(TMP\_147) = 1 TMP\_148 = 1 not(TMP\_148) = 0 TMP\_149 = 1 not(TMP\_149) = 0 TMP\_150 = 1 not(TMP\_150) = 0 TMP\_151 = 2 TMP\_152 = 0 not(TMP\_152) = 1 TMP\_153 = 1 not(TMP\_153) = 0 TMP\_154 = 1 not(TMP\_154) = 0 TMP\_155 = 1 not(TMP\_155) = 0 TMP\_156 = 0 not(TMP\_156) = 1 TMP\_157 = 1 not(TMP\_157) = 0 TMP\_158 = 4 TMP\_159 = 0 not(TMP\_159) = 1 TMP\_160 = 0 not(TMP\_160) = 1 TMP\_161 = 0 TMP\_162 = 1 not(TMP\_162) = 0 TMP\_163 = 1 not(TMP\_163) = 0 TMP\_164 = 2 TMP\_165 = 0 not(TMP\_165) = 1 TMP\_166 = 0 not(TMP\_166) = 1 TMP\_167 = 1 not(TMP\_167) = 0 TMP\_168 = 1 not(TMP\_168) = 0 TMP\_169 = 1 not(TMP\_169) = 0 TMP\_170 = 2 TMP\_171 = 0 not(TMP\_171) = 1 TMP\_172 = 1 not(TMP\_172) = 0 TMP\_173 = 1 not(TMP\_173) = 0 TMP\_174 = 1 not(TMP\_174) = 0 TMP\_175 = 1 not(TMP\_175) = 0 TMP\_176 = 1 not(TMP\_176) = 0 TMP\_177 = 5 TMP\_178 = 0 not(TMP\_178) = 1 TMP\_179 = 0 not(TMP\_179) = 1 TMP\_180 = 0 TMP\_181 = 1 not(TMP\_181) = 0 TMP\_182 = 1 not(TMP\_182) = 0 TMP\_183 = 2 TMP\_184 = 0 not(TMP\_184) = 1 TMP\_185 = 0 not(TMP\_185) = 1 TMP\_186 = 1 not(TMP\_186) = 0 TMP\_187 = 1 not(TMP\_187) = 0 TMP\_188 = 1 not(TMP\_188) = 0 TMP\_189 = 2 TMP\_190 = 1 not(TMP\_190) = 0 TMP\_191 = 1 not(TMP\_191) = 0 TMP\_192 = 1 not(TMP\_192) = 0 TMP\_193 = 1 not(TMP\_193) = 0 TMP\_194 = 0 not(TMP\_194) = 1 TMP\_195 = 1 not(TMP\_195) = 0 TMP\_196 = 5 TMP\_197 = 0 not(TMP\_197) = 1 TMP\_198 = 0 not(TMP\_198) = 1 TMP\_199 = 0 TMP\_200 = 1 not(TMP\_200) = 0 TMP\_201 = 1 not(TMP\_201) = 0 TMP\_202 = 2 TMP\_203 = 0 not(TMP\_203) = 1 TMP\_204 = 0 not(TMP\_204) = 1 TMP\_205 = 1 not(TMP\_205) = 0 TMP\_206 = 1 not(TMP\_206) = 0 TMP\_207 = 1 not(TMP\_207) = 0 TMP\_208 = 2 TMP\_209 = 0 not(TMP\_209) = 1 TMP\_210 = 1 not(TMP\_210) = 0 TMP\_211 = 1 not(TMP\_211) = 0 TMP\_212 = 1 not(TMP\_212) = 0 TMP\_213 = 1 not(TMP\_213) = 0 TMP\_214 = 0 not(TMP\_214) = 1 TMP\_215 = 4 TMP\_216 = 0 not(TMP\_216) = 1 TMP\_217 = 0 not(TMP\_217) = 1 TMP\_218 = 0 TMP\_219 = 1 not(TMP\_219) = 0 TMP\_220 = 1 not(TMP\_220) = 0 TMP\_221 = 2 TMP\_222 = 0 not(TMP\_222) = 1 TMP\_223 = 0 not(TMP\_223) = 1 TMP\_224 = 1 not(TMP\_224) = 0 TMP\_225 = 1 not(TMP\_225) = 0 TMP\_226 = 1 not(TMP\_226) = 0 TMP\_227 = 2 TMP\_228 = 0 not(TMP\_228) = 1 TMP\_229 = 1 not(TMP\_229) = 0 TMP\_230 = 1 not(TMP\_230) = 0 TMP\_231 = 1 not(TMP\_231) = 0 TMP\_232 = 1 not(TMP\_232) = 0 TMP\_233 = 0 not(TMP\_233) = 1 TMP\_234 = 4 TMP\_235 = 0 not(TMP\_235) = 1 TMP\_236 = 0 not(TMP\_236) = 1 TMP\_237 = 0 TMP\_238 = 1 not(TMP\_238) = 0 TMP\_239 = 1 not(TMP\_239) = 0 TMP\_240 = 2 TMP\_241 = 0 not(TMP\_241) = 1 TMP\_242 = 0 not(TMP\_242) = 1 TMP\_243 = 1 not(TMP\_243) = 0 TMP\_244 = 1 not(TMP\_244) = 0 TMP\_245 = 1 not(TMP\_245) = 0 TMP\_246 = 2 TMP\_247 = 0 not(TMP\_247) = 1 TMP\_248 = 1 not(TMP\_248) = 0 TMP\_249 = 1 not(TMP\_249) = 0 TMP\_250 = 0 not(TMP\_250) = 1 TMP\_251 = 1 not(TMP\_251) = 0 TMP\_252 = 1 not(TMP\_252) = 0 TMP\_253 = 4 TMP\_254 = 0 not(TMP\_254) = 1 TMP\_255 = 0 not(TMP\_255) = 1 TMP\_256 = 0 TMP\_257 = 1 not(TMP\_257) = 0 TMP\_258 = 1 not(TMP\_258) = 0 TMP\_259 = 2 TMP\_260 = 0 not(TMP\_260) = 1 TMP\_261 = 0 not(TMP\_261) = 1 TMP\_262 = 1 not(TMP\_262) = 0 TMP\_263 = 1 not(TMP\_263) = 0 TMP\_264 = 1 not(TMP\_264) = 0 TMP\_265 = 2 TMP\_266 = 0 not(TMP\_266) = 1 TMP\_267 = 1 not(TMP\_267) = 0 TMP\_268 = 1 not(TMP\_268) = 0 TMP\_269 = 1 not(TMP\_269) = 0 TMP\_270 = 1 not(TMP\_270) = 0 TMP\_271 = 1 not(TMP\_271) = 0 TMP\_272 = 5 TMP\_273 = 0 not(TMP\_273) = 1 TMP\_274 = 0 not(TMP\_274) = 1 TMP\_275 = 0 TMP\_276 = 1 not(TMP\_276) = 0 TMP\_277 = 1 not(TMP\_277) = 0 TMP\_278 = 2 TMP\_279 = 0 not(TMP\_279) = 1 TMP\_280 = 0 not(TMP\_280) = 1 TMP\_281 = 1 not(TMP\_281) = 0 TMP\_282 = 1 not(TMP\_282) = 0 TMP\_283 = 1 not(TMP\_283) = 0 TMP\_284 = 2 TMP\_285 = 1 not(TMP\_285) = 0 TMP\_286 = 0 not(TMP\_286) = 1 TMP\_287 = 1 not(TMP\_287) = 0 TMP\_288 = 1 not(TMP\_288) = 0 TMP\_289 = 1 not(TMP\_289) = 0 TMP\_290 = 1 not(TMP\_290) = 0 TMP\_291 = 5 TMP\_292 = 0 not(TMP\_292) = 1 TMP\_293 = 0 not(TMP\_293) = 1 TMP\_294 = 0 TMP\_295 = 1 not(TMP\_295) = 0 TMP\_296 = 1 not(TMP\_296) = 0 TMP\_297 = 2 TMP\_298 = 0 not(TMP\_298) = 1 TMP\_299 = 0 not(TMP\_299) = 1 TMP\_300 = 1 not(TMP\_300) = 0 TMP\_301 = 1 not(TMP\_301) = 0 TMP\_302 = 1 not(TMP\_302) = 0 TMP\_303 = 2 TMP\_304 = 1 not(TMP\_304) = 0 TMP\_305 = 0 not(TMP\_305) = 1 TMP\_306 = 1 not(TMP\_306) = 0 TMP\_307 = 1 not(TMP\_307) = 0 TMP\_308 = 1 not(TMP\_308) = 0 TMP\_309 = 0 not(TMP\_309) = 1 TMP\_310 = 4 TMP\_311 = 0 not(TMP\_311) = 1 TMP\_312 = 0 not(TMP\_312) = 1 TMP\_313 = 0 TMP\_314 = 1 not(TMP\_314) = 0 TMP\_315 = 1 not(TMP\_315) = 0 TMP\_316 = 2 TMP\_317 = 0 not(TMP\_317) = 1 TMP\_318 = 0 not(TMP\_318) = 1 TMP\_319 = 1 not(TMP\_319) = 0 TMP\_320 = 1 not(TMP\_320) = 0 TMP\_321 = 1 not(TMP\_321) = 0 TMP\_322 = 2 TMP\_323 = 0 not(TMP\_323) = 1 TMP\_324 = 1 not(TMP\_324) = 0 TMP\_325 = 1 not(TMP\_325) = 0 TMP\_326 = 1 not(TMP\_326) = 0 TMP\_327 = 1 not(TMP\_327) = 0 TMP\_328 = 1 not(TMP\_328) = 0 TMP\_329 = 5 TMP\_330 = 0 not(TMP\_330) = 1 TMP\_331 = 0 not(TMP\_331) = 1 TMP\_332 = 0 TMP\_333 = 1 not(TMP\_333) = 0 TMP\_334 = 1 not(TMP\_334) = 0 TMP\_335 = 2 TMP\_336 = 0 not(TMP\_336) = 1 TMP\_337 = 0 not(TMP\_337) = 1 TMP\_338 = 1 not(TMP\_338) = 0 TMP\_339 = 1 not(TMP\_339) = 0 TMP\_340 = 1 not(TMP\_340) = 0 TMP\_341 = 2 TMP\_342 = 1 not(TMP\_342) = 0 TMP\_343 = 1 not(TMP\_343) = 0 TMP\_344 = 1 not(TMP\_344) = 0 TMP\_345 = 1 not(TMP\_345) = 0 TMP\_346 = 1 not(TMP\_346) = 0 TMP\_347 = 0 not(TMP\_347) = 1 TMP\_348 = 5 TMP\_349 = 0 not(TMP\_349) = 1 TMP\_350 = 0 not(TMP\_350) = 1 TMP\_351 = 0 TMP\_352 = 1 not(TMP\_352) = 0 TMP\_353 = 1 not(TMP\_353) = 0 TMP\_354 = 2 TMP\_355 = 0 not(TMP\_355) = 1 TMP\_356 = 0 not(TMP\_356) = 1 TMP\_357 = 1 not(TMP\_357) = 0 TMP\_358 = 1 not(TMP\_358) = 0 TMP\_359 = 1 not(TMP\_359) = 0 TMP\_360 = 2 TMP\_361 = 0 not(TMP\_361) = 1 TMP\_362 = 1 not(TMP\_362) = 0 TMP\_363 = 1 not(TMP\_363) = 0 TMP\_364 = 1 not(TMP\_364) = 0 TMP\_365 = 1 not(TMP\_365) = 0 TMP\_366 = 1 not(TMP\_366) = 0 TMP\_367 = 5 TMP\_368 = 0 not(TMP\_368) = 1 TMP\_369 = 0 not(TMP\_369) = 1 TMP\_370 = 0 TMP\_371 = 1 not(TMP\_371) = 0 TMP\_372 = 1 not(TMP\_372) = 0 TMP\_373 = 2 TMP\_374 = 0 not(TMP\_374) = 1 TMP\_375 = 0 not(TMP\_375) = 1 TMP\_376 = 1 not(TMP\_376) = 0 TMP\_377 = 1 not(TMP\_377) = 0 TMP\_378 = 1 not(TMP\_378) = 0 TMP\_379 = 2 TMP\_380 = 0 not(TMP\_380) = 1 TMP\_381 = 1 not(TMP\_381) = 0 TMP\_382 = 1 not(TMP\_382) = 0 TMP\_383 = 1 not(TMP\_383) = 0 TMP\_384 = 1 not(TMP\_384) = 0 TMP\_385 = 0 not(TMP\_385) = 1 TMP\_386 = 4 TMP\_387 = 0 not(TMP\_387) = 1 TMP\_388 = 0 not(TMP\_388) = 1 TMP\_389 = 0 TMP\_390 = 1 not(TMP\_390) = 0 TMP\_391 = 1 not(TMP\_391) = 0 TMP\_392 = 2 TMP\_393 = 0 not(TMP\_393) = 1 TMP\_394 = 0 not(TMP\_394) = 1 TMP\_395 = 1 not(TMP\_395) = 0 TMP\_396 = 1 not(TMP\_396) = 0 TMP\_397 = 1 not(TMP\_397) = 0 TMP\_398 = 2 TMP\_399 = 1 not(TMP\_399) = 0 TMP\_400 = 1 not(TMP\_400) = 0 TMP\_401 = 1 not(TMP\_401) = 0 TMP\_402 = 0 not(TMP\_402) = 1 TMP\_403 = 1 not(TMP\_403) = 0 TMP\_404 = 1 not(TMP\_404) = 0 TMP\_405 = 5 TMP\_406 = 0 not(TMP\_406) = 1 TMP\_407 = 0 not(TMP\_407) = 1 TMP\_408 = 0 TMP\_409 = 1 not(TMP\_409) = 0 TMP\_410 = 1 not(TMP\_410) = 0 TMP\_411 = 2 TMP\_412 = 0 not(TMP\_412) = 1 TMP\_413 = 0 not(TMP\_413) = 1 TMP\_414 = 1 not(TMP\_414) = 0 TMP\_415 = 1 not(TMP\_415) = 0 TMP\_416 = 1 not(TMP\_416) = 0 TMP\_417 = 2 TMP\_418 = 0 not(TMP\_418) = 1 TMP\_419 = 1 not(TMP\_419) = 0 TMP\_420 = 1 not(TMP\_420) = 0 TMP\_421 = 1 not(TMP\_421) = 0 TMP\_422 = 1 not(TMP\_422) = 0 TMP\_423 = 0 not(TMP\_423) = 1 TMP\_424 = 4 TMP\_425 = 0 not(TMP\_425) = 1 TMP\_426 = 0 not(TMP\_426) = 1 TMP\_427 = 0 TMP\_428 = 1 not(TMP\_428) = 0 TMP\_429 = 1 not(TMP\_429) = 0 TMP\_430 = 2 TMP\_431 = 0 not(TMP\_431) = 1 TMP\_432 = 0 not(TMP\_432) = 1 TMP\_433 = 1 not(TMP\_433) = 0 TMP\_434 = 1 not(TMP\_434) = 0 TMP\_435 = 1 not(TMP\_435) = 0 TMP\_436 = 2 TMP\_437 = 1 not(TMP\_437) = 0 TMP\_438 = 0 not(TMP\_438) = 1 TMP\_439 = 1 not(TMP\_439) = 0 TMP\_440 = 1 not(TMP\_440) = 0 TMP\_441 = 1 not(TMP\_441) = 0 TMP\_442 = 0 not(TMP\_442) = 1 TMP\_443 = 4 TMP\_444 = 0 not(TMP\_444) = 1 TMP\_445 = 0 not(TMP\_445) = 1 TMP\_446 = 0 TMP\_447 = 1 not(TMP\_447) = 0 TMP\_448 = 1 not(TMP\_448) = 0 TMP\_449 = 2 TMP\_450 = 0 not(TMP\_450) = 1 TMP\_451 = 0 not(TMP\_451) = 1 TMP\_452 = 1 not(TMP\_452) = 0 TMP\_453 = 1 not(TMP\_453) = 0 TMP\_454 = 1 not(TMP\_454) = 0 TMP\_455 = 2 TMP\_456 = 1 not(TMP\_456) = 0 TMP\_457 = 0 not(TMP\_457) = 1 TMP\_458 = 1 not(TMP\_458) = 0 TMP\_459 = 1 not(TMP\_459) = 0 TMP\_460 = 1 not(TMP\_460) = 0 TMP\_461 = 1 not(TMP\_461) = 0 TMP\_462 = 5 TMP\_463 = 0 not(TMP\_463) = 1 TMP\_464 = 0 not(TMP\_464) = 1 TMP\_465 = 0 TMP\_466 = 1 not(TMP\_466) = 0 TMP\_467 = 1 not(TMP\_467) = 0 TMP\_468 = 2 TMP\_469 = 0 not(TMP\_469) = 1 TMP\_470 = 0 not(TMP\_470) = 1 TMP\_471 = 1 not(TMP\_471) = 0 TMP\_472 = 1 not(TMP\_472) = 0 TMP\_473 = 1 not(TMP\_473) = 0 TMP\_474 = 2 TMP\_475 = 1 not(TMP\_475) = 0 TMP\_476 = 0 not(TMP\_476) = 1 TMP\_477 = 1 not(TMP\_477) = 0 TMP\_478 = 1 not(TMP\_478) = 0 TMP\_479 = 1 not(TMP\_479) = 0 TMP\_480 = 1 not(TMP\_480) = 0 TMP\_481 = 5 TMP\_482 = 0 not(TMP\_482) = 1 TMP\_483 = 0 not(TMP\_483) = 1 TMP\_484 = 0 TMP\_485 = 1 not(TMP\_485) = 0 TMP\_486 = 1 not(TMP\_486) = 0 TMP\_487 = 2 TMP\_488 = 0 not(TMP\_488) = 1 TMP\_489 = 0 not(TMP\_489) = 1 TMP\_490 = 1 not(TMP\_490) = 0 TMP\_491 = 1 not(TMP\_491) = 0 TMP\_492 = 1 not(TMP\_492) = 0 TMP\_493 = 2 TMP\_494 = 1 not(TMP\_494) = 0 TMP\_495 = 0 not(TMP\_495) = 1 TMP\_496 = 1 not(TMP\_496) = 0 TMP\_497 = 1 not(TMP\_497) = 0 TMP\_498 = 1 not(TMP\_498) = 0 TMP\_499 = 1 not(TMP\_499) = 0 TMP\_500 = 5 TMP\_501 = 0 not(TMP\_501) = 1 TMP\_502 = 0 not(TMP\_502) = 1 TMP\_503 = 0 TMP\_504 = 1 not(TMP\_504) = 0 TMP\_505 = 1 not(TMP\_505) = 0 TMP\_506 = 2 TMP\_507 = 0 not(TMP\_507) = 1 TMP\_508 = 0 not(TMP\_508) = 1 TMP\_509 = 1 not(TMP\_509) = 0 TMP\_510 = 1 not(TMP\_510) = 0 TMP\_511 = 1 not(TMP\_511) = 0 TMP\_512 = 2 TMP\_513 = 1 not(TMP\_513) = 0 TMP\_514 = 0 not(TMP\_514) = 1 TMP\_515 = 1 not(TMP\_515) = 0 TMP\_516 = 1 not(TMP\_516) = 0 TMP\_517 = 1 not(TMP\_517) = 0 TMP\_518 = 0 not(TMP\_518) = 1 TMP\_519 = 4 TMP\_520 = 0 not(TMP\_520) = 1 TMP\_521 = 0 not(TMP\_521) = 1 TMP\_522 = 0 TMP\_523 = 1 not(TMP\_523) = 0 TMP\_524 = 1 not(TMP\_524) = 0 TMP\_525 = 2 TMP\_526 = 0 not(TMP\_526) = 1 TMP\_527 = 0 not(TMP\_527) = 1 TMP\_528 = 1 not(TMP\_528) = 0 TMP\_529 = 1 not(TMP\_529) = 0 TMP\_530 = 1 not(TMP\_530) = 0 TMP\_531 = 2 TMP\_532 = 0 not(TMP\_532) = 1 TMP\_533 = 1 not(TMP\_533) = 0 TMP\_534 = 1 not(TMP\_534) = 0 TMP\_535 = 1 not(TMP\_535) = 0 TMP\_536 = 1 not(TMP\_536) = 0 TMP\_537 = 1 not(TMP\_537) = 0 TMP\_538 = 5 TMP\_539 = 0 not(TMP\_539) = 1 TMP\_540 = 0 not(TMP\_540) = 1 TMP\_541 = 0 TMP\_542 = 1 not(TMP\_542) = 0 TMP\_543 = 1 not(TMP\_543) = 0 TMP\_544 = 2 TMP\_545 = 0 not(TMP\_545) = 1 TMP\_546 = 0 not(TMP\_546) = 1 TMP\_547 = 1 not(TMP\_547) = 0 TMP\_548 = 1 not(TMP\_548) = 0 TMP\_549 = 1 not(TMP\_549) = 0 TMP\_550 = 2 TMP\_551 = 1 not(TMP\_551) = 0 TMP\_552 = 0 not(TMP\_552) = 1 TMP\_553 = 1 not(TMP\_553) = 0 TMP\_554 = 1 not(TMP\_554) = 0 TMP\_555 = 1 not(TMP\_555) = 0 TMP\_556 = 0 not(TMP\_556) = 1 TMP\_557 = 4 TMP\_558 = 0 not(TMP\_558) = 1 TMP\_559 = 0 not(TMP\_559) = 1 TMP\_560 = 0 TMP\_561 = 1 not(TMP\_561) = 0 TMP\_562 = 1 not(TMP\_562) = 0 TMP\_563 = 2 TMP\_564 = 0 not(TMP\_564) = 1 TMP\_565 = 0 not(TMP\_565) = 1 TMP\_566 = 1 not(TMP\_566) = 0 TMP\_567 = 1 not(TMP\_567) = 0 TMP\_568 = 1 not(TMP\_568) = 0 TMP\_569 = 2 TMP\_570 = 1 not(TMP\_570) = 0 TMP\_571 = 0 not(TMP\_571) = 1 TMP\_572 = 1 not(TMP\_572) = 0 TMP\_573 = 1 not(TMP\_573) = 0 TMP\_574 = 1 not(TMP\_574) = 0 TMP\_575 = 1 not(TMP\_575) = 0 TMP\_576 = 5 TMP\_577 = 0 not(TMP\_577) = 1 TMP\_578 = 0 not(TMP\_578) = 1 TMP\_579 = 0 TMP\_580 = 1 not(TMP\_580) = 0 TMP\_581 = 1 not(TMP\_581) = 0 TMP\_582 = 2 TMP\_583 = 0 not(TMP\_583) = 1 TMP\_584 = 0 not(TMP\_584) = 1 TMP\_585 = 1 not(TMP\_585) = 0 TMP\_586 = 1 not(TMP\_586) = 0 TMP\_587 = 1 not(TMP\_587) = 0 TMP\_588 = 2 TMP\_589 = 1 not(TMP\_589) = 0 TMP\_590 = 1 not(TMP\_590) = 0 TMP\_591 = 1 not(TMP\_591) = 0 TMP\_592 = 1 not(TMP\_592) = 0 TMP\_593 = 1 not(TMP\_593) = 0 TMP\_594 = 0 not(TMP\_594) = 1 TMP\_595 = 5 TMP\_596 = 0 not(TMP\_596) = 1 TMP\_597 = 0 not(TMP\_597) = 1 TMP\_598 = 0 TMP\_599 = 1 not(TMP\_599) = 0 TMP\_600 = 1 not(TMP\_600) = 0 TMP\_601 = 2 TMP\_602 = 0 not(TMP\_602) = 1 TMP\_603 = 0 not(TMP\_603) = 1 TMP\_604 = 1 not(TMP\_604) = 0 TMP\_605 = 1 not(TMP\_605) = 0 TMP\_606 = 1 not(TMP\_606) = 0 TMP\_607 = 2 TMP\_608 = 1 not(TMP\_608) = 0 TMP\_609 = 0 not(TMP\_609) = 1 TMP\_610 = 1 not(TMP\_610) = 0 TMP\_611 = 1 not(TMP\_611) = 0 TMP\_612 = 1 not(TMP\_612) = 0 TMP\_613 = 1 not(TMP\_613) = 0 TMP\_614 = 5 TMP\_615 = 0 not(TMP\_615) = 1 TMP\_616 = 0 not(TMP\_616) = 1 TMP\_617 = 0 TMP\_618 = 1 not(TMP\_618) = 0 TMP\_619 = 1 not(TMP\_619) = 0 TMP\_620 = 2 TMP\_621 = 0 not(TMP\_621) = 1 TMP\_622 = 0 not(TMP\_622) = 1 TMP\_623 = 1 not(TMP\_623) = 0 TMP\_624 = 1 not(TMP\_624) = 0 TMP\_625 = 1 not(TMP\_625) = 0 TMP\_626 = 2 TMP\_627 = 0 not(TMP\_627) = 1 TMP\_628 = 1 not(TMP\_628) = 0 TMP\_629 = 1 not(TMP\_629) = 0 TMP\_630 = 1 not(TMP\_630) = 0 TMP\_631 = 1 not(TMP\_631) = 0 TMP\_632 = 1 not(TMP\_632) = 0 TMP\_633 = 5 TMP\_634 = 0 not(TMP\_634) = 1 TMP\_635 = 0 not(TMP\_635) = 1 TMP\_636 = 0 TMP\_637 = 1 not(TMP\_637) = 0 TMP\_638 = 1 not(TMP\_638) = 0 TMP\_639 = 2 TMP\_640 = 0 not(TMP\_640) = 1 TMP\_641 = 0 not(TMP\_641) = 1 TMP\_642 = 1 not(TMP\_642) = 0 TMP\_643 = 1 not(TMP\_643) = 0 TMP\_644 = 1 not(TMP\_644) = 0 TMP\_645 = 2 TMP\_646 = 1 not(TMP\_646) = 0 TMP\_647 = 0 not(TMP\_647) = 1 TMP\_648 = 1 not(TMP\_648) = 0 TMP\_649 = 1 not(TMP\_649) = 0 TMP\_650 = 1 not(TMP\_650) = 0 TMP\_651 = 1 not(TMP\_651) = 0 TMP\_652 = 5 TMP\_653 = 0 not(TMP\_653) = 1 TMP\_654 = 0 not(TMP\_654) = 1 TMP\_655 = 0 TMP\_656 = 1 not(TMP\_656) = 0 TMP\_657 = 1 not(TMP\_657) = 0 TMP\_658 = 2 TMP\_659 = 0 not(TMP\_659) = 1 TMP\_660 = 0 not(TMP\_660) = 1 TMP\_661 = 1 not(TMP\_661) = 0 TMP\_662 = 1 not(TMP\_662) = 0 TMP\_663 = 1 not(TMP\_663) = 0 TMP\_664 = 2 TMP\_665 = 1 not(TMP\_665) = 0 TMP\_666 = 0 not(TMP\_666) = 1 TMP\_667 = 1 not(TMP\_667) = 0 TMP\_668 = 1 not(TMP\_668) = 0 TMP\_669 = 0 not(TMP\_669) = 1 TMP\_670 = 1 not(TMP\_670) = 0 TMP\_671 = 4 TMP\_672 = 0 not(TMP\_672) = 1 TMP\_673 = 0 not(TMP\_673) = 1 TMP\_674 = 0 TMP\_675 = 1 not(TMP\_675) = 0 TMP\_676 = 1 not(TMP\_676) = 0 TMP\_677 = 2 TMP\_678 = 0 not(TMP\_678) = 1 TMP\_679 = 0 not(TMP\_679) = 1 TMP\_680 = 1 not(TMP\_680) = 0 TMP\_681 = 1 not(TMP\_681) = 0 TMP\_682 = 1 not(TMP\_682) = 0 TMP\_683 = 2 TMP\_684 = 1 not(TMP\_684) = 0 TMP\_685 = 0 not(TMP\_685) = 1 TMP\_686 = 1 not(TMP\_686) = 0 TMP\_687 = 1 not(TMP\_687) = 0 TMP\_688 = 0 not(TMP\_688) = 1 TMP\_689 = 1 not(TMP\_689) = 0 TMP\_690 = 4 TMP\_691 = 0 not(TMP\_691) = 1 TMP\_692 = 0 not(TMP\_692) = 1 TMP\_693 = 0 TMP\_694 = 1 not(TMP\_694) = 0 TMP\_695 = 1 not(TMP\_695) = 0 TMP\_696 = 2 TMP\_697 = 0 not(TMP\_697) = 1 TMP\_698 = 0 not(TMP\_698) = 1 TMP\_699 = 1 not(TMP\_699) = 0 TMP\_700 = 1 not(TMP\_700) = 0 TMP\_701 = 1 not(TMP\_701) = 0 TMP\_702 = 2 TMP\_703 = 1 not(TMP\_703) = 0 TMP\_704 = 0 not(TMP\_704) = 1 TMP\_705 = 1 not(TMP\_705) = 0 TMP\_706 = 1 not(TMP\_706) = 0 TMP\_707 = 0 not(TMP\_707) = 1 TMP\_708 = 1 not(TMP\_708) = 0 TMP\_709 = 4 TMP\_710 = 0 not(TMP\_710) = 1 TMP\_711 = 0 not(TMP\_711) = 1 TMP\_712 = 0 TMP\_713 = 1 not(TMP\_713) = 0 TMP\_714 = 1 not(TMP\_714) = 0 TMP\_715 = 2 TMP\_716 = 0 not(TMP\_716) = 1 TMP\_717 = 0 not(TMP\_717) = 1 TMP\_718 = 1 not(TMP\_718) = 0 TMP\_719 = 1 not(TMP\_719) = 0 TMP\_720 = 1 not(TMP\_720) = 0 TMP\_721 = 2 TMP\_722 = 1 not(TMP\_722) = 0 TMP\_723 = 0 not(TMP\_723) = 1 TMP\_724 = 1 not(TMP\_724) = 0 TMP\_725 = 1 not(TMP\_725) = 0 TMP\_726 = 1 not(TMP\_726) = 0 TMP\_727 = 1 not(TMP\_727) = 0 TMP\_728 = 5 TMP\_729 = 0 not(TMP\_729) = 1 TMP\_730 = 0 not(TMP\_730) = 1 TMP\_731 = 0 TMP\_732 = 1 not(TMP\_732) = 0 TMP\_733 = 1 not(TMP\_733) = 0 TMP\_734 = 2 TMP\_735 = 0 not(TMP\_735) = 1 TMP\_736 = 0 not(TMP\_736) = 1 TMP\_737 = 1 not(TMP\_737) = 0 TMP\_738 = 1 not(TMP\_738) = 0 TMP\_739 = 1 not(TMP\_739) = 0 TMP\_740 = 2 TMP\_741 = 0 not(TMP\_741) = 1 TMP\_742 = 1 not(TMP\_742) = 0 TMP\_743 = 1 not(TMP\_743) = 0 TMP\_744 = 1 not(TMP\_744) = 0 TMP\_745 = 0 not(TMP\_745) = 1 TMP\_746 = 1 not(TMP\_746) = 0 TMP\_747 = 4 TMP\_748 = 0 not(TMP\_748) = 1 TMP\_749 = 0 not(TMP\_749) = 1 TMP\_750 = 0 TMP\_751 = 1 not(TMP\_751) = 0 TMP\_752 = 1 not(TMP\_752) = 0 TMP\_753 = 2 TMP\_754 = 0 not(TMP\_754) = 1 TMP\_755 = 0 not(TMP\_755) = 1 TMP\_756 = 1 not(TMP\_756) = 0 TMP\_757 = 1 not(TMP\_757) = 0 TMP\_758 = 1 not(TMP\_758) = 0 TMP\_759 = 2 TMP\_760 = 1 not(TMP\_760) = 0 TMP\_761 = 0 not(TMP\_761) = 1 TMP\_762 = 1 not(TMP\_762) = 0 TMP\_763 = 1 not(TMP\_763) = 0 TMP\_764 = 1 not(TMP\_764) = 0 TMP\_765 = 1 not(TMP\_765) = 0 TMP\_766 = 5 TMP\_767 = 0 not(TMP\_767) = 1 TMP\_768 = 0 not(TMP\_768) = 1 TMP\_769 = 0 TMP\_770 = 1 not(TMP\_770) = 0 TMP\_771 = 1 not(TMP\_771) = 0 TMP\_772 = 2 TMP\_773 = 0 not(TMP\_773) = 1 TMP\_774 = 0 not(TMP\_774) = 1 TMP\_775 = 1 not(TMP\_775) = 0 TMP\_776 = 1 not(TMP\_776) = 0 TMP\_777 = 1 not(TMP\_777) = 0 TMP\_778 = 2 TMP\_779 = 1 not(TMP\_779) = 0 TMP\_780 = 0 not(TMP\_780) = 1 TMP\_781 = 1 not(TMP\_781) = 0 TMP\_782 = 1 not(TMP\_782) = 0 TMP\_783 = 0 not(TMP\_783) = 1 TMP\_784 = 1 not(TMP\_784) = 0 TMP\_785 = 4 TMP\_786 = 0 not(TMP\_786) = 1 TMP\_787 = 0 not(TMP\_787) = 1 TMP\_788 = 0 TMP\_789 = 1 not(TMP\_789) = 0 TMP\_790 = 1 not(TMP\_790) = 0 TMP\_791 = 2 TMP\_792 = 0 not(TMP\_792) = 1 TMP\_793 = 0 not(TMP\_793) = 1 TMP\_794 = 1 not(TMP\_794) = 0 TMP\_795 = 1 not(TMP\_795) = 0 TMP\_796 = 1 not(TMP\_796) = 0 TMP\_797 = 2 TMP\_798 = 1 not(TMP\_798) = 0 TMP\_799 = 1 not(TMP\_799) = 0 TMP\_800 = 1 not(TMP\_800) = 0 TMP\_801 = 1 not(TMP\_801) = 0 TMP\_802 = 0 not(TMP\_802) = 1 TMP\_803 = 1 not(TMP\_803) = 0 TMP\_804 = 5 TMP\_805 = 0 not(TMP\_805) = 1 TMP\_806 = 0 not(TMP\_806) = 1 TMP\_807 = 0 TMP\_808 = 1 not(TMP\_808) = 0 TMP\_809 = 1 not(TMP\_809) = 0 TMP\_810 = 2 TMP\_811 = 0 not(TMP\_811) = 1 TMP\_812 = 0 not(TMP\_812) = 1 TMP\_813 = 1 not(TMP\_813) = 0 TMP\_814 = 1 not(TMP\_814) = 0 TMP\_815 = 1 not(TMP\_815) = 0 TMP\_816 = 2 TMP\_817 = 1 not(TMP\_817) = 0 TMP\_818 = 0 not(TMP\_818) = 1 TMP\_819 = 1 not(TMP\_819) = 0 TMP\_820 = 1 not(TMP\_820) = 0 TMP\_821 = 0 not(TMP\_821) = 1 TMP\_822 = 1 not(TMP\_822) = 0 TMP\_823 = 4 TMP\_824 = 0 not(TMP\_824) = 1 TMP\_825 = 0 not(TMP\_825) = 1 TMP\_826 = 0 TMP\_827 = 1 not(TMP\_827) = 0 TMP\_828 = 1 not(TMP\_828) = 0 TMP\_829 = 2 TMP\_830 = 0 not(TMP\_830) = 1 TMP\_831 = 0 not(TMP\_831) = 1 TMP\_832 = 1 not(TMP\_832) = 0 TMP\_833 = 1 not(TMP\_833) = 0 TMP\_834 = 1 not(TMP\_834) = 0 TMP\_835 = 2 TMP\_836 = 0 not(TMP\_836) = 1 TMP\_837 = 1 not(TMP\_837) = 0 TMP\_838 = 1 not(TMP\_838) = 0 TMP\_839 = 1 not(TMP\_839) = 0 TMP\_840 = 1 not(TMP\_840) = 0 TMP\_841 = 0 not(TMP\_841) = 1 TMP\_842 = 4 TMP\_843 = 0 not(TMP\_843) = 1 TMP\_844 = 0 not(TMP\_844) = 1 TMP\_845 = 0 TMP\_846 = 1 not(TMP\_846) = 0 TMP\_847 = 1 not(TMP\_847) = 0 TMP\_848 = 2 TMP\_849 = 0 not(TMP\_849) = 1 TMP\_850 = 0 not(TMP\_850) = 1 TMP\_851 = 1 not(TMP\_851) = 0 TMP\_852 = 1 not(TMP\_852) = 0 TMP\_853 = 1 not(TMP\_853) = 0 TMP\_854 = 2 TMP\_855 = 0 not(TMP\_855) = 1 TMP\_856 = 1 not(TMP\_856) = 0 TMP\_857 = 1 not(TMP\_857) = 0 TMP\_858 = 1 not(TMP\_858) = 0 TMP\_859 = 1 not(TMP\_859) = 0 TMP\_860 = 0 not(TMP\_860) = 1 TMP\_861 = 4 TMP\_862 = 0 not(TMP\_862) = 1 TMP\_863 = 0 not(TMP\_863) = 1 TMP\_864 = 0 TMP\_865 = 1 not(TMP\_865) = 0 TMP\_866 = 1 not(TMP\_866) = 0 TMP\_867 = 2 TMP\_868 = 0 not(TMP\_868) = 1 TMP\_869 = 0 not(TMP\_869) = 1 TMP\_870 = 1 not(TMP\_870) = 0 TMP\_871 = 1 not(TMP\_871) = 0 TMP\_872 = 1 not(TMP\_872) = 0 TMP\_873 = 2 TMP\_874 = 0 not(TMP\_874) = 1 TMP\_875 = 1 not(TMP\_875) = 0 TMP\_876 = 1 not(TMP\_876) = 0 TMP\_877 = 1 not(TMP\_877) = 0 TMP\_878 = 1 not(TMP\_878) = 0 TMP\_879 = 1 not(TMP\_879) = 0 TMP\_880 = 5 TMP\_881 = 0 not(TMP\_881) = 1 TMP\_882 = 0 not(TMP\_882) = 1 TMP\_883 = 0 TMP\_884 = 1 not(TMP\_884) = 0 TMP\_885 = 1 not(TMP\_885) = 0 TMP\_886 = 2 TMP\_887 = 0 not(TMP\_887) = 1 TMP\_888 = 0 not(TMP\_888) = 1 TMP\_889 = 1 not(TMP\_889) = 0 TMP\_890 = 1 not(TMP\_890) = 0 TMP\_891 = 1 not(TMP\_891) = 0 TMP\_892 = 2 TMP\_893 = 0 not(TMP\_893) = 1 TMP\_894 = 1 not(TMP\_894) = 0 TMP\_895 = 0 not(TMP\_895) = 1 TMP\_896 = 1 not(TMP\_896) = 0 TMP\_897 = 1 not(TMP\_897) = 0 TMP\_898 = 1 not(TMP\_898) = 0 TMP\_899 = 4 TMP\_900 = 0 not(TMP\_900) = 1 TMP\_901 = 0 not(TMP\_901) = 1 TMP\_902 = 0 TMP\_903 = 1 not(TMP\_903) = 0 TMP\_904 = 1 not(TMP\_904) = 0 TMP\_905 = 2 TMP\_906 = 0 not(TMP\_906) = 1 TMP\_907 = 0 not(TMP\_907) = 1 TMP\_908 = 1 not(TMP\_908) = 0 TMP\_909 = 1 not(TMP\_909) = 0 TMP\_910 = 1 not(TMP\_910) = 0 TMP\_911 = 2 TMP\_912 = 1 not(TMP\_912) = 0 TMP\_913 = 0 not(TMP\_913) = 1 TMP\_914 = 1 not(TMP\_914) = 0 TMP\_915 = 1 not(TMP\_915) = 0 TMP\_916 = 1 not(TMP\_916) = 0 TMP\_917 = 1 not(TMP\_917) = 0 TMP\_918 = 5 TMP\_919 = 0 not(TMP\_919) = 1 TMP\_920 = 0 not(TMP\_920) = 1 TMP\_921 = 0 TMP\_922 = 1 not(TMP\_922) = 0 TMP\_923 = 1 not(TMP\_923) = 0 TMP\_924 = 2 TMP\_925 = 0 not(TMP\_925) = 1 TMP\_926 = 0 not(TMP\_926) = 1 TMP\_927 = 1 not(TMP\_927) = 0 TMP\_928 = 1 not(TMP\_928) = 0 TMP\_929 = 1 not(TMP\_929) = 0 TMP\_930 = 2 TMP\_931 = 1 not(TMP\_931) = 0 TMP\_932 = 0 not(TMP\_932) = 1 TMP\_933 = 1 not(TMP\_933) = 0 TMP\_934 = 1 not(TMP\_934) = 0 TMP\_935 = 1 not(TMP\_935) = 0 TMP\_936 = 0 not(TMP\_936) = 1 TMP\_937 = 4 TMP\_938 = 0 not(TMP\_938) = 1 TMP\_939 = 0 not(TMP\_939) = 1 TMP\_940 = 0 TMP\_941 = 1 not(TMP\_941) = 0 TMP\_942 = 1 not(TMP\_942) = 0 TMP\_943 = 2 TMP\_944 = 0 not(TMP\_944) = 1 TMP\_945 = 0 not(TMP\_945) = 1 TMP\_946 = 1 not(TMP\_946) = 0 TMP\_947 = 1 not(TMP\_947) = 0 TMP\_948 = 1 not(TMP\_948) = 0 TMP\_949 = 2 TMP\_950 = 0 not(TMP\_950) = 1 TMP\_951 = 1 not(TMP\_951) = 0 TMP\_952 = 1 not(TMP\_952) = 0 TMP\_953 = 1 not(TMP\_953) = 0 TMP\_954 = 1 not(TMP\_954) = 0 TMP\_955 = 1 not(TMP\_955) = 0 TMP\_956 = 5 TMP\_957 = 0 not(TMP\_957) = 1 TMP\_958 = 0 not(TMP\_958) = 1 TMP\_959 = 0 TMP\_960 = 1 not(TMP\_960) = 0 TMP\_961 = 1 not(TMP\_961) = 0 TMP\_962 = 2 TMP\_963 = 0 not(TMP\_963) = 1 TMP\_964 = 0 not(TMP\_964) = 1 TMP\_965 = 1 not(TMP\_965) = 0 TMP\_966 = 1 not(TMP\_966) = 0 TMP\_967 = 1 not(TMP\_967) = 0 TMP\_968 = 2 TMP\_969 = 1 not(TMP\_969) = 0 TMP\_970 = 1 not(TMP\_970) = 0 TMP\_971 = 1 not(TMP\_971) = 0 TMP\_972 = 1 not(TMP\_972) = 0 TMP\_973 = 1 not(TMP\_973) = 0 TMP\_974 = 0 not(TMP\_974) = 1 TMP\_975 = 5 TMP\_976 = 0 not(TMP\_976) = 1 TMP\_977 = 0 not(TMP\_977) = 1 TMP\_978 = 0 TMP\_979 = 1 not(TMP\_979) = 0 TMP\_980 = 1 not(TMP\_980) = 0 TMP\_981 = 2 TMP\_982 = 0 not(TMP\_982) = 1 TMP\_983 = 0 not(TMP\_983) = 1 TMP\_984 = 1 not(TMP\_984) = 0 TMP\_985 = 1 not(TMP\_985) = 0 TMP\_986 = 1 not(TMP\_986) = 0 TMP\_987 = 2 TMP\_988 = 1 not(TMP\_988) = 0 TMP\_989 = 1 not(TMP\_989) = 0 TMP\_990 = 0 not(TMP\_990) = 1 TMP\_991 = 1 not(TMP\_991) = 0 TMP\_992 = 1 not(TMP\_992) = 0 TMP\_993 = 1 not(TMP\_993) = 0 TMP\_994 = 5 TMP\_995 = 0 not(TMP\_995) = 1 TMP\_996 = 0 not(TMP\_996) = 1 TMP\_997 = 0 TMP\_998 = 1 not(TMP\_998) = 0 TMP\_999 = 1 not(TMP\_999) = 0 TMP\_1000 = 2 TMP\_1001 = 0 not(TMP\_1001) = 1 TMP\_1002 = 0 not(TMP\_1002) = 1 TMP\_1003 = 1 not(TMP\_1003) = 0 TMP\_1004 = 1 not(TMP\_1004) = 0 TMP\_1005 = 1 not(TMP\_1005) = 0 TMP\_1006 = 2 TMP\_1007 = 0 not(TMP\_1007) = 1 TMP\_1008 = 1 not(TMP\_1008) = 0 TMP\_1009 = 1 not(TMP\_1009) = 0 TMP\_1010 = 1 not(TMP\_1010) = 0 TMP\_1011 = 1 not(TMP\_1011) = 0 TMP\_1012 = 1 not(TMP\_1012) = 0 TMP\_1013 = 5 TMP\_1014 = 0 not(TMP\_1014) = 1 TMP\_1015 = 0 not(TMP\_1015) = 1 TMP\_1016 = 0 TMP\_1017 = 1 not(TMP\_1017) = 0 TMP\_1018 = 1 not(TMP\_1018) = 0 TMP\_1019 = 2 TMP\_1020 = 0 not(TMP\_1020) = 1 TMP\_1021 = 0 not(TMP\_1021) = 1 TMP\_1022 = 1 not(TMP\_1022) = 0 TMP\_1023 = 1 not(TMP\_1023) = 0 TMP\_1024 = 1 not(TMP\_1024) = 0 TMP\_1025 = 2 TMP\_1026 = 0 not(TMP\_1026) = 1 TMP\_1027 = 1 not(TMP\_1027) = 0 TMP\_1028 = 1 not(TMP\_1028) = 0 TMP\_1029 = 1 not(TMP\_1029) = 0 TMP\_1030 = 1 not(TMP\_1030) = 0 TMP\_1031 = 0 not(TMP\_1031) = 1 TMP\_1032 = 4 TMP\_1033 = 0 not(TMP\_1033) = 1 TMP\_1034 = 0 not(TMP\_1034) = 1 TMP\_1035 = 0 TMP\_1036 = 1 not(TMP\_1036) = 0 TMP\_1037 = 1 not(TMP\_1037) = 0 TMP\_1038 = 2 TMP\_1039 = 0 not(TMP\_1039) = 1 TMP\_1040 = 0 not(TMP\_1040) = 1 TMP\_1041 = 1 not(TMP\_1041) = 0 TMP\_1042 = 1 not(TMP\_1042) = 0 TMP\_1043 = 1 not(TMP\_1043) = 0 TMP\_1044 = 2 Area\_0 = 60 Distance\_0\_Rule\_0 = 20 Distance\_1\_Rule\_0 = 3 Distance\_2\_Rule\_0 = 1 Area\_1 = 174 Distance\_0\_Rule\_1 = 58 Distance\_1\_Rule\_1 = 3 Distance\_2\_Rule\_1 = 1 Area\_2 = 116 Distance\_0\_Rule\_2 = 58 Distance\_1\_Rule\_2 = 2 Distance\_2\_Rule\_2 = 1 Area\_3 = 58 Distance\_0\_Rule\_3 = 58 Distance\_1\_Rule\_3 = 1 Distance\_2\_Rule\_3 = 1 Area\_4 = 120 Distance\_0\_Rule\_4 = 40 Distance\_1\_Rule\_4 = 3 Distance\_2\_Rule\_4 = 1 Area\_5 = 120 Distance\_0\_Rule\_5 = 40 Distance\_1\_Rule\_5 = 3 Distance\_2\_Rule\_5 = 1 Area\_6 = 60 Distance\_0\_Rule\_6 = 20 Distance\_1\_Rule\_6 = 3 Distance\_2\_Rule\_6 = 1 Area\_7 = 3 -(Rule\_7\_LB) = -79 Distance\_0\_Rule\_7 = 1 -(Rule\_7\_LB) = 0 Distance\_1\_Rule\_7 = 3 -(Rule\_7\_LB) = -1 Distance\_2\_Rule\_7 = 1 Area\_8 = 1 -(Rule\_8\_LB) = -79 Distance\_0\_Rule\_8 = 1 -(Rule\_8\_LB) = 0 Distance\_1\_Rule\_8 = 1 -(Rule\_8\_LB) = 0 Distance\_2\_Rule\_8 = 1 Area\_9 = 3 -(Rule\_9\_LB) = -20 Distance\_0\_Rule\_9 = 1 -(Rule\_9\_LB) = 0 Distance\_1\_Rule\_9 = 3 -(Rule\_9\_LB) = 0 Distance\_2\_Rule\_9 = 1 Area\_10 = 3 -(Rule\_10\_LB) = -20 Distance\_0\_Rule\_10 = 1 -(Rule\_10\_LB) = 0 Distance\_1\_Rule\_10 = 3 -(Rule\_10\_LB) = -1 Distance\_2\_Rule\_10 = 1 Area\_11 = 2 -(Rule\_11\_LB) = -79 Distance\_0\_Rule\_11 = 1 -(Rule\_11\_LB) = -1 Distance\_1\_Rule\_11 = 2 -(Rule\_11\_LB) = 0 Distance\_2\_Rule\_11 = 1 TMP\_1045 = 720 .

- Solution #11 found. 11 Solutions, Resolution 1.371s, 1476 Nodes (1,076.7 n/s), 2818 Backtracks, 1405 Fails, 0 Restarts

Rule\_7\_LB = 79 Rule\_7\_UB = 80 Rule\_7\_LB = 0 Rule\_7\_UB = 3 Rule\_7\_LB = 1 Rule\_7\_UB = 2 Rule\_8\_LB = 79 Rule\_8\_UB = 80 Rule\_8\_LB = 0 Rule\_8\_UB = 1 Rule\_8\_LB = 0 Rule\_8\_UB = 1 Rule\_9\_LB = 20 Rule\_9\_UB = 21 Rule\_9\_LB = 0 Rule\_9\_UB = 3 Rule\_9\_LB = 0 Rule\_9\_UB = 1 Rule\_10\_LB = 20 Rule\_10\_UB = 21 Rule\_10\_LB = 0 Rule\_10\_UB = 3 Rule\_10\_LB = 1 Rule\_10\_UB = 2 Rule\_11\_LB = 79 Rule\_11\_UB = 80 Rule\_11\_LB = 1 Rule\_11\_UB = 3 Rule\_11\_LB = 0 Rule\_11\_UB = 1 Overlaps\_0\_0 = 0 Overlaps\_0\_1 = 0 Overlaps\_0\_2 = 0 Overlaps\_0\_3 = 0 Overlaps\_0\_4 = 0 Overlaps\_0\_5 = 0 Overlaps\_0\_6 = 0 Overlaps\_0\_7 = 0 Overlaps\_0\_8 = 0 Overlaps\_0\_9 = 0 Overlaps\_0\_10 = 0 Overlaps\_0\_11 = 0 Overlaps\_1\_0 = 0 Overlaps\_1\_1 = 0 Overlaps\_1\_2 = 1 Overlaps\_1\_3 = 0 Overlaps\_1\_4 = 0 Overlaps\_1\_5 = 0 Overlaps\_1\_6 = 0 Overlaps\_1\_7 = 0 Overlaps\_1\_8 = 0 Overlaps\_1\_9 = 0 Overlaps\_1\_10 = 0 Overlaps\_1\_11 = 0 Overlaps\_2\_0 = 0 Overlaps\_2\_1 = 0 Overlaps\_2\_2 = 0 Overlaps\_2\_3 = 0 Overlaps\_2\_4 = 0 Overlaps\_2\_5 = 1 Overlaps\_2\_6 = 0 Overlaps\_2\_7 = 0 Overlaps\_2\_8 = 0 Overlaps\_2\_9 = 0 Overlaps\_2\_10 = 0 Overlaps\_2\_11 = 0 Overlaps\_3\_0 = 0 Overlaps\_3\_1 = 0 Overlaps\_3\_2 = 0 Overlaps\_3\_3 = 0 Overlaps\_3\_4 = 0 Overlaps\_3\_5 = 0 Overlaps\_3\_6 = 0 Overlaps\_3\_7 = 0 Overlaps\_3\_8 = 0 Overlaps\_3\_9 = 0 Overlaps\_3\_10 = 0 Overlaps\_3\_11 = 0 Overlaps\_4\_0 = 0 Overlaps\_4\_1 = 0 Overlaps\_4\_2 = 0 Overlaps\_4\_3 = 0 Overlaps\_4\_4 = 0 Overlaps\_4\_5 = 0 Overlaps\_4\_6 = 0 Overlaps\_4\_7 = 0 Overlaps\_4\_8 = 0 Overlaps\_4\_9 = 0 Overlaps\_4\_10 = 0 Overlaps\_4\_11 = 0 Overlaps\_5\_0 = 0 Overlaps\_5\_1 = 0 Overlaps\_5\_2 = 0 Overlaps\_5\_3 = 0 Overlaps\_5\_4 = 0 Overlaps\_5\_5 = 0 Overlaps\_5\_6 = 0 Overlaps\_5\_7 = 0 Overlaps\_5\_8 = 0 Overlaps\_5\_9 = 0 Overlaps\_5\_10 = 0 Overlaps\_5\_11 = 0 Overlaps\_6\_0 = 0 Overlaps\_6\_1 = 0 Overlaps\_6\_2 = 0 Overlaps\_6\_3 = 0 Overlaps\_6\_4 = 0 Overlaps\_6\_5 = 0 Overlaps\_6\_6 = 0 Overlaps\_6\_7 = 0 Overlaps\_6\_8 = 0 Overlaps\_6\_9 = 0 Overlaps\_6\_10 = 0 Overlaps\_6\_11 = 0 Overlaps\_7\_0 = 0 Overlaps\_7\_1 = 0 Overlaps\_7\_2 = 0 Overlaps\_7\_3 = 0 Overlaps\_7\_4 = 0 Overlaps\_7\_5 = 0 Overlaps\_7\_6 = 0 Overlaps\_7\_7 = 0 Overlaps\_7\_8 = 0 Overlaps\_7\_9 = 0 Overlaps\_7\_10 = 0 Overlaps\_7\_11 = 0 Overlaps\_8\_0 = 0 Overlaps\_8\_1 = 0 Overlaps\_8\_2 = 0 Overlaps\_8\_3 = 0 Overlaps\_8\_4 = 0 Overlaps\_8\_5 = 0 Overlaps\_8\_6 = 0 Overlaps\_8\_7 = 0 Overlaps\_8\_8 = 0 Overlaps\_8\_9 = 0 Overlaps\_8\_10 = 0 Overlaps\_8\_11 = 0 Overlaps\_9\_0 = 0 Overlaps\_9\_1 = 0 Overlaps\_9\_2 = 0 Overlaps\_9\_3 = 0 Overlaps\_9\_4 = 0 Overlaps\_9\_5 = 0 Overlaps\_9\_6 = 0 Overlaps\_9\_7 = 0 Overlaps\_9\_8 = 0 Overlaps\_9\_9 = 0 Overlaps\_9\_10 = 0 Overlaps\_9\_11 = 0 Overlaps\_10\_0 = 0 Overlaps\_10\_1 = 0 Overlaps\_10\_2 = 0 Overlaps\_10\_3 = 0 Overlaps\_10\_4 = 0 Overlaps\_10\_5 = 0 Overlaps\_10\_6 = 0 Overlaps\_10\_7 = 0 Overlaps\_10\_8 = 0 Overlaps\_10\_9 = 0 Overlaps\_10\_10 = 0 Overlaps\_10\_11 = 0 Overlaps\_11\_0 = 0 Overlaps\_11\_1 = 0 Overlaps\_11\_2 = 0 Overlaps\_11\_3 = 0 Overlaps\_11\_4 = 0 Overlaps\_11\_5 = 0 Overlaps\_11\_6 = 0 Overlaps\_11\_7 = 0 Overlaps\_11\_8 = 0 Overlaps\_11\_9 = 0 Overlaps\_11\_10 = 0 Overlaps\_11\_11 = 0 TMP\_0 = 0 not(TMP\_0) = 1 TMP\_1 = 1 not(TMP\_1) = 0 TMP\_2 = 1 not(TMP\_2) = 0 TMP\_3 = 1 not(TMP\_3) = 0 TMP\_4 = 1 not(TMP\_4) = 0 TMP\_5 = 1 not(TMP\_5) = 0 TMP\_6 = 5 TMP\_7 = 0 not(TMP\_7) = 1 TMP\_8 = 0 not(TMP\_8) = 1 TMP\_9 = 0 TMP\_10 = 1 not(TMP\_10) = 0 TMP\_11 = 1 not(TMP\_11) = 0 TMP\_12 = 2 TMP\_13 = 0 not(TMP\_13) = 1 TMP\_14 = 0 not(TMP\_14) = 1 TMP\_15 = 1 not(TMP\_15) = 0 TMP\_16 = 1 not(TMP\_16) = 0 TMP\_17 = 1 not(TMP\_17) = 0 TMP\_18 = 2 TMP\_19 = 0 not(TMP\_19) = 1 TMP\_20 = 1 not(TMP\_20) = 0 TMP\_21 = 1 not(TMP\_21) = 0 TMP\_22 = 1 not(TMP\_22) = 0 TMP\_23 = 1 not(TMP\_23) = 0 TMP\_24 = 1 not(TMP\_24) = 0 TMP\_25 = 5 TMP\_26 = 0 not(TMP\_26) = 1 TMP\_27 = 0 not(TMP\_27) = 1 TMP\_28 = 0 TMP\_29 = 1 not(TMP\_29) = 0 TMP\_30 = 1 not(TMP\_30) = 0 TMP\_31 = 2 TMP\_32 = 0 not(TMP\_32) = 1 TMP\_33 = 0 not(TMP\_33) = 1 TMP\_34 = 1 not(TMP\_34) = 0 TMP\_35 = 1 not(TMP\_35) = 0 TMP\_36 = 1 not(TMP\_36) = 0 TMP\_37 = 2 TMP\_38 = 0 not(TMP\_38) = 1 TMP\_39 = 1 not(TMP\_39) = 0 TMP\_40 = 1 not(TMP\_40) = 0 TMP\_41 = 1 not(TMP\_41) = 0 TMP\_42 = 0 not(TMP\_42) = 1 TMP\_43 = 1 not(TMP\_43) = 0 TMP\_44 = 4 TMP\_45 = 0 not(TMP\_45) = 1 TMP\_46 = 0 not(TMP\_46) = 1 TMP\_47 = 0 TMP\_48 = 1 not(TMP\_48) = 0 TMP\_49 = 1 not(TMP\_49) = 0 TMP\_50 = 2 TMP\_51 = 0 not(TMP\_51) = 1 TMP\_52 = 0 not(TMP\_52) = 1 TMP\_53 = 1 not(TMP\_53) = 0 TMP\_54 = 1 not(TMP\_54) = 0 TMP\_55 = 1 not(TMP\_55) = 0 TMP\_56 = 2 TMP\_57 = 0 not(TMP\_57) = 1 TMP\_58 = 1 not(TMP\_58) = 0 TMP\_59 = 1 not(TMP\_59) = 0 TMP\_60 = 1 not(TMP\_60) = 0 TMP\_61 = 0 not(TMP\_61) = 1 TMP\_62 = 1 not(TMP\_62) = 0 TMP\_63 = 4 TMP\_64 = 0 not(TMP\_64) = 1 TMP\_65 = 0 not(TMP\_65) = 1 TMP\_66 = 0 TMP\_67 = 1 not(TMP\_67) = 0 TMP\_68 = 1 not(TMP\_68) = 0 TMP\_69 = 2 TMP\_70 = 0 not(TMP\_70) = 1 TMP\_71 = 0 not(TMP\_71) = 1 TMP\_72 = 1 not(TMP\_72) = 0 TMP\_73 = 1 not(TMP\_73) = 0 TMP\_74 = 1 not(TMP\_74) = 0 TMP\_75 = 2 TMP\_76 = 1 not(TMP\_76) = 0 TMP\_77 = 0 not(TMP\_77) = 1 TMP\_78 = 1 not(TMP\_78) = 0 TMP\_79 = 1 not(TMP\_79) = 0 TMP\_80 = 0 not(TMP\_80) = 1 TMP\_81 = 1 not(TMP\_81) = 0 TMP\_82 = 4 TMP\_83 = 0 not(TMP\_83) = 1 TMP\_84 = 0 not(TMP\_84) = 1 TMP\_85 = 0 TMP\_86 = 1 not(TMP\_86) = 0 TMP\_87 = 1 not(TMP\_87) = 0 TMP\_88 = 2 TMP\_89 = 0 not(TMP\_89) = 1 TMP\_90 = 0 not(TMP\_90) = 1 TMP\_91 = 1 not(TMP\_91) = 0 TMP\_92 = 1 not(TMP\_92) = 0 TMP\_93 = 1 not(TMP\_93) = 0 TMP\_94 = 2 TMP\_95 = 1 not(TMP\_95) = 0 TMP\_96 = 0 not(TMP\_96) = 1 TMP\_97 = 1 not(TMP\_97) = 0 TMP\_98 = 1 not(TMP\_98) = 0 TMP\_99 = 1 not(TMP\_99) = 0 TMP\_100 = 1 not(TMP\_100) = 0 TMP\_101 = 5 TMP\_102 = 0 not(TMP\_102) = 1 TMP\_103 = 0 not(TMP\_103) = 1 TMP\_104 = 0 TMP\_105 = 1 not(TMP\_105) = 0 TMP\_106 = 1 not(TMP\_106) = 0 TMP\_107 = 2 TMP\_108 = 0 not(TMP\_108) = 1 TMP\_109 = 0 not(TMP\_109) = 1 TMP\_110 = 1 not(TMP\_110) = 0 TMP\_111 = 1 not(TMP\_111) = 0 TMP\_112 = 1 not(TMP\_112) = 0 TMP\_113 = 2 TMP\_114 = 0 not(TMP\_114) = 1 TMP\_115 = 1 not(TMP\_115) = 0 TMP\_116 = 1 not(TMP\_116) = 0 TMP\_117 = 1 not(TMP\_117) = 0 TMP\_118 = 0 not(TMP\_118) = 1 TMP\_119 = 1 not(TMP\_119) = 0 TMP\_120 = 4 TMP\_121 = 0 not(TMP\_121) = 1 TMP\_122 = 0 not(TMP\_122) = 1 TMP\_123 = 0 TMP\_124 = 1 not(TMP\_124) = 0 TMP\_125 = 1 not(TMP\_125) = 0 TMP\_126 = 2 TMP\_127 = 0 not(TMP\_127) = 1 TMP\_128 = 0 not(TMP\_128) = 1 TMP\_129 = 1 not(TMP\_129) = 0 TMP\_130 = 1 not(TMP\_130) = 0 TMP\_131 = 1 not(TMP\_131) = 0 TMP\_132 = 2 TMP\_133 = 1 not(TMP\_133) = 0 TMP\_134 = 1 not(TMP\_134) = 0 TMP\_135 = 1 not(TMP\_135) = 0 TMP\_136 = 1 not(TMP\_136) = 0 TMP\_137 = 0 not(TMP\_137) = 1 TMP\_138 = 1 not(TMP\_138) = 0 TMP\_139 = 5 TMP\_140 = 0 not(TMP\_140) = 1 TMP\_141 = 0 not(TMP\_141) = 1 TMP\_142 = 0 TMP\_143 = 1 not(TMP\_143) = 0 TMP\_144 = 1 not(TMP\_144) = 0 TMP\_145 = 2 TMP\_146 = 0 not(TMP\_146) = 1 TMP\_147 = 0 not(TMP\_147) = 1 TMP\_148 = 1 not(TMP\_148) = 0 TMP\_149 = 1 not(TMP\_149) = 0 TMP\_150 = 1 not(TMP\_150) = 0 TMP\_151 = 2 TMP\_152 = 0 not(TMP\_152) = 1 TMP\_153 = 1 not(TMP\_153) = 0 TMP\_154 = 1 not(TMP\_154) = 0 TMP\_155 = 1 not(TMP\_155) = 0 TMP\_156 = 0 not(TMP\_156) = 1 TMP\_157 = 1 not(TMP\_157) = 0 TMP\_158 = 4 TMP\_159 = 0 not(TMP\_159) = 1 TMP\_160 = 0 not(TMP\_160) = 1 TMP\_161 = 0 TMP\_162 = 1 not(TMP\_162) = 0 TMP\_163 = 1 not(TMP\_163) = 0 TMP\_164 = 2 TMP\_165 = 0 not(TMP\_165) = 1 TMP\_166 = 0 not(TMP\_166) = 1 TMP\_167 = 1 not(TMP\_167) = 0 TMP\_168 = 1 not(TMP\_168) = 0 TMP\_169 = 1 not(TMP\_169) = 0 TMP\_170 = 2 TMP\_171 = 0 not(TMP\_171) = 1 TMP\_172 = 1 not(TMP\_172) = 0 TMP\_173 = 1 not(TMP\_173) = 0 TMP\_174 = 1 not(TMP\_174) = 0 TMP\_175 = 1 not(TMP\_175) = 0 TMP\_176 = 1 not(TMP\_176) = 0 TMP\_177 = 5 TMP\_178 = 0 not(TMP\_178) = 1 TMP\_179 = 0 not(TMP\_179) = 1 TMP\_180 = 0 TMP\_181 = 1 not(TMP\_181) = 0 TMP\_182 = 1 not(TMP\_182) = 0 TMP\_183 = 2 TMP\_184 = 0 not(TMP\_184) = 1 TMP\_185 = 0 not(TMP\_185) = 1 TMP\_186 = 1 not(TMP\_186) = 0 TMP\_187 = 1 not(TMP\_187) = 0 TMP\_188 = 1 not(TMP\_188) = 0 TMP\_189 = 2 TMP\_190 = 1 not(TMP\_190) = 0 TMP\_191 = 1 not(TMP\_191) = 0 TMP\_192 = 1 not(TMP\_192) = 0 TMP\_193 = 1 not(TMP\_193) = 0 TMP\_194 = 0 not(TMP\_194) = 1 TMP\_195 = 1 not(TMP\_195) = 0 TMP\_196 = 5 TMP\_197 = 0 not(TMP\_197) = 1 TMP\_198 = 0 not(TMP\_198) = 1 TMP\_199 = 0 TMP\_200 = 1 not(TMP\_200) = 0 TMP\_201 = 1 not(TMP\_201) = 0 TMP\_202 = 2 TMP\_203 = 0 not(TMP\_203) = 1 TMP\_204 = 0 not(TMP\_204) = 1 TMP\_205 = 1 not(TMP\_205) = 0 TMP\_206 = 1 not(TMP\_206) = 0 TMP\_207 = 1 not(TMP\_207) = 0 TMP\_208 = 2 TMP\_209 = 0 not(TMP\_209) = 1 TMP\_210 = 1 not(TMP\_210) = 0 TMP\_211 = 1 not(TMP\_211) = 0 TMP\_212 = 1 not(TMP\_212) = 0 TMP\_213 = 1 not(TMP\_213) = 0 TMP\_214 = 0 not(TMP\_214) = 1 TMP\_215 = 4 TMP\_216 = 0 not(TMP\_216) = 1 TMP\_217 = 0 not(TMP\_217) = 1 TMP\_218 = 0 TMP\_219 = 1 not(TMP\_219) = 0 TMP\_220 = 1 not(TMP\_220) = 0 TMP\_221 = 2 TMP\_222 = 0 not(TMP\_222) = 1 TMP\_223 = 0 not(TMP\_223) = 1 TMP\_224 = 1 not(TMP\_224) = 0 TMP\_225 = 1 not(TMP\_225) = 0 TMP\_226 = 1 not(TMP\_226) = 0 TMP\_227 = 2 TMP\_228 = 0 not(TMP\_228) = 1 TMP\_229 = 1 not(TMP\_229) = 0 TMP\_230 = 1 not(TMP\_230) = 0 TMP\_231 = 1 not(TMP\_231) = 0 TMP\_232 = 1 not(TMP\_232) = 0 TMP\_233 = 0 not(TMP\_233) = 1 TMP\_234 = 4 TMP\_235 = 0 not(TMP\_235) = 1 TMP\_236 = 0 not(TMP\_236) = 1 TMP\_237 = 0 TMP\_238 = 1 not(TMP\_238) = 0 TMP\_239 = 1 not(TMP\_239) = 0 TMP\_240 = 2 TMP\_241 = 0 not(TMP\_241) = 1 TMP\_242 = 0 not(TMP\_242) = 1 TMP\_243 = 1 not(TMP\_243) = 0 TMP\_244 = 1 not(TMP\_244) = 0 TMP\_245 = 1 not(TMP\_245) = 0 TMP\_246 = 2 TMP\_247 = 0 not(TMP\_247) = 1 TMP\_248 = 1 not(TMP\_248) = 0 TMP\_249 = 1 not(TMP\_249) = 0 TMP\_250 = 0 not(TMP\_250) = 1 TMP\_251 = 1 not(TMP\_251) = 0 TMP\_252 = 1 not(TMP\_252) = 0 TMP\_253 = 4 TMP\_254 = 0 not(TMP\_254) = 1 TMP\_255 = 0 not(TMP\_255) = 1 TMP\_256 = 0 TMP\_257 = 1 not(TMP\_257) = 0 TMP\_258 = 1 not(TMP\_258) = 0 TMP\_259 = 2 TMP\_260 = 0 not(TMP\_260) = 1 TMP\_261 = 0 not(TMP\_261) = 1 TMP\_262 = 1 not(TMP\_262) = 0 TMP\_263 = 1 not(TMP\_263) = 0 TMP\_264 = 1 not(TMP\_264) = 0 TMP\_265 = 2 TMP\_266 = 0 not(TMP\_266) = 1 TMP\_267 = 1 not(TMP\_267) = 0 TMP\_268 = 1 not(TMP\_268) = 0 TMP\_269 = 1 not(TMP\_269) = 0 TMP\_270 = 1 not(TMP\_270) = 0 TMP\_271 = 1 not(TMP\_271) = 0 TMP\_272 = 5 TMP\_273 = 0 not(TMP\_273) = 1 TMP\_274 = 0 not(TMP\_274) = 1 TMP\_275 = 0 TMP\_276 = 1 not(TMP\_276) = 0 TMP\_277 = 1 not(TMP\_277) = 0 TMP\_278 = 2 TMP\_279 = 0 not(TMP\_279) = 1 TMP\_280 = 0 not(TMP\_280) = 1 TMP\_281 = 1 not(TMP\_281) = 0 TMP\_282 = 1 not(TMP\_282) = 0 TMP\_283 = 1 not(TMP\_283) = 0 TMP\_284 = 2 TMP\_285 = 1 not(TMP\_285) = 0 TMP\_286 = 0 not(TMP\_286) = 1 TMP\_287 = 1 not(TMP\_287) = 0 TMP\_288 = 1 not(TMP\_288) = 0 TMP\_289 = 1 not(TMP\_289) = 0 TMP\_290 = 1 not(TMP\_290) = 0 TMP\_291 = 5 TMP\_292 = 0 not(TMP\_292) = 1 TMP\_293 = 0 not(TMP\_293) = 1 TMP\_294 = 0 TMP\_295 = 1 not(TMP\_295) = 0 TMP\_296 = 1 not(TMP\_296) = 0 TMP\_297 = 2 TMP\_298 = 0 not(TMP\_298) = 1 TMP\_299 = 0 not(TMP\_299) = 1 TMP\_300 = 1 not(TMP\_300) = 0 TMP\_301 = 1 not(TMP\_301) = 0 TMP\_302 = 1 not(TMP\_302) = 0 TMP\_303 = 2 TMP\_304 = 1 not(TMP\_304) = 0 TMP\_305 = 0 not(TMP\_305) = 1 TMP\_306 = 1 not(TMP\_306) = 0 TMP\_307 = 1 not(TMP\_307) = 0 TMP\_308 = 1 not(TMP\_308) = 0 TMP\_309 = 0 not(TMP\_309) = 1 TMP\_310 = 4 TMP\_311 = 0 not(TMP\_311) = 1 TMP\_312 = 0 not(TMP\_312) = 1 TMP\_313 = 0 TMP\_314 = 1 not(TMP\_314) = 0 TMP\_315 = 1 not(TMP\_315) = 0 TMP\_316 = 2 TMP\_317 = 0 not(TMP\_317) = 1 TMP\_318 = 0 not(TMP\_318) = 1 TMP\_319 = 1 not(TMP\_319) = 0 TMP\_320 = 1 not(TMP\_320) = 0 TMP\_321 = 1 not(TMP\_321) = 0 TMP\_322 = 2 TMP\_323 = 0 not(TMP\_323) = 1 TMP\_324 = 1 not(TMP\_324) = 0 TMP\_325 = 1 not(TMP\_325) = 0 TMP\_326 = 1 not(TMP\_326) = 0 TMP\_327 = 1 not(TMP\_327) = 0 TMP\_328 = 1 not(TMP\_328) = 0 TMP\_329 = 5 TMP\_330 = 0 not(TMP\_330) = 1 TMP\_331 = 0 not(TMP\_331) = 1 TMP\_332 = 0 TMP\_333 = 1 not(TMP\_333) = 0 TMP\_334 = 1 not(TMP\_334) = 0 TMP\_335 = 2 TMP\_336 = 0 not(TMP\_336) = 1 TMP\_337 = 0 not(TMP\_337) = 1 TMP\_338 = 1 not(TMP\_338) = 0 TMP\_339 = 1 not(TMP\_339) = 0 TMP\_340 = 1 not(TMP\_340) = 0 TMP\_341 = 2 TMP\_342 = 1 not(TMP\_342) = 0 TMP\_343 = 1 not(TMP\_343) = 0 TMP\_344 = 1 not(TMP\_344) = 0 TMP\_345 = 1 not(TMP\_345) = 0 TMP\_346 = 1 not(TMP\_346) = 0 TMP\_347 = 0 not(TMP\_347) = 1 TMP\_348 = 5 TMP\_349 = 0 not(TMP\_349) = 1 TMP\_350 = 0 not(TMP\_350) = 1 TMP\_351 = 0 TMP\_352 = 1 not(TMP\_352) = 0 TMP\_353 = 1 not(TMP\_353) = 0 TMP\_354 = 2 TMP\_355 = 0 not(TMP\_355) = 1 TMP\_356 = 0 not(TMP\_356) = 1 TMP\_357 = 1 not(TMP\_357) = 0 TMP\_358 = 1 not(TMP\_358) = 0 TMP\_359 = 1 not(TMP\_359) = 0 TMP\_360 = 2 TMP\_361 = 0 not(TMP\_361) = 1 TMP\_362 = 1 not(TMP\_362) = 0 TMP\_363 = 1 not(TMP\_363) = 0 TMP\_364 = 1 not(TMP\_364) = 0 TMP\_365 = 1 not(TMP\_365) = 0 TMP\_366 = 1 not(TMP\_366) = 0 TMP\_367 = 5 TMP\_368 = 0 not(TMP\_368) = 1 TMP\_369 = 0 not(TMP\_369) = 1 TMP\_370 = 0 TMP\_371 = 1 not(TMP\_371) = 0 TMP\_372 = 1 not(TMP\_372) = 0 TMP\_373 = 2 TMP\_374 = 0 not(TMP\_374) = 1 TMP\_375 = 0 not(TMP\_375) = 1 TMP\_376 = 1 not(TMP\_376) = 0 TMP\_377 = 1 not(TMP\_377) = 0 TMP\_378 = 1 not(TMP\_378) = 0 TMP\_379 = 2 TMP\_380 = 0 not(TMP\_380) = 1 TMP\_381 = 1 not(TMP\_381) = 0 TMP\_382 = 1 not(TMP\_382) = 0 TMP\_383 = 1 not(TMP\_383) = 0 TMP\_384 = 1 not(TMP\_384) = 0 TMP\_385 = 0 not(TMP\_385) = 1 TMP\_386 = 4 TMP\_387 = 0 not(TMP\_387) = 1 TMP\_388 = 0 not(TMP\_388) = 1 TMP\_389 = 0 TMP\_390 = 1 not(TMP\_390) = 0 TMP\_391 = 1 not(TMP\_391) = 0 TMP\_392 = 2 TMP\_393 = 0 not(TMP\_393) = 1 TMP\_394 = 0 not(TMP\_394) = 1 TMP\_395 = 1 not(TMP\_395) = 0 TMP\_396 = 1 not(TMP\_396) = 0 TMP\_397 = 1 not(TMP\_397) = 0 TMP\_398 = 2 TMP\_399 = 1 not(TMP\_399) = 0 TMP\_400 = 1 not(TMP\_400) = 0 TMP\_401 = 1 not(TMP\_401) = 0 TMP\_402 = 0 not(TMP\_402) = 1 TMP\_403 = 1 not(TMP\_403) = 0 TMP\_404 = 1 not(TMP\_404) = 0 TMP\_405 = 5 TMP\_406 = 0 not(TMP\_406) = 1 TMP\_407 = 0 not(TMP\_407) = 1 TMP\_408 = 0 TMP\_409 = 1 not(TMP\_409) = 0 TMP\_410 = 1 not(TMP\_410) = 0 TMP\_411 = 2 TMP\_412 = 0 not(TMP\_412) = 1 TMP\_413 = 0 not(TMP\_413) = 1 TMP\_414 = 1 not(TMP\_414) = 0 TMP\_415 = 1 not(TMP\_415) = 0 TMP\_416 = 1 not(TMP\_416) = 0 TMP\_417 = 2 TMP\_418 = 0 not(TMP\_418) = 1 TMP\_419 = 1 not(TMP\_419) = 0 TMP\_420 = 1 not(TMP\_420) = 0 TMP\_421 = 1 not(TMP\_421) = 0 TMP\_422 = 1 not(TMP\_422) = 0 TMP\_423 = 0 not(TMP\_423) = 1 TMP\_424 = 4 TMP\_425 = 0 not(TMP\_425) = 1 TMP\_426 = 0 not(TMP\_426) = 1 TMP\_427 = 0 TMP\_428 = 1 not(TMP\_428) = 0 TMP\_429 = 1 not(TMP\_429) = 0 TMP\_430 = 2 TMP\_431 = 0 not(TMP\_431) = 1 TMP\_432 = 0 not(TMP\_432) = 1 TMP\_433 = 1 not(TMP\_433) = 0 TMP\_434 = 1 not(TMP\_434) = 0 TMP\_435 = 1 not(TMP\_435) = 0 TMP\_436 = 2 TMP\_437 = 1 not(TMP\_437) = 0 TMP\_438 = 0 not(TMP\_438) = 1 TMP\_439 = 1 not(TMP\_439) = 0 TMP\_440 = 1 not(TMP\_440) = 0 TMP\_441 = 1 not(TMP\_441) = 0 TMP\_442 = 0 not(TMP\_442) = 1 TMP\_443 = 4 TMP\_444 = 0 not(TMP\_444) = 1 TMP\_445 = 0 not(TMP\_445) = 1 TMP\_446 = 0 TMP\_447 = 1 not(TMP\_447) = 0 TMP\_448 = 1 not(TMP\_448) = 0 TMP\_449 = 2 TMP\_450 = 0 not(TMP\_450) = 1 TMP\_451 = 0 not(TMP\_451) = 1 TMP\_452 = 1 not(TMP\_452) = 0 TMP\_453 = 1 not(TMP\_453) = 0 TMP\_454 = 1 not(TMP\_454) = 0 TMP\_455 = 2 TMP\_456 = 1 not(TMP\_456) = 0 TMP\_457 = 0 not(TMP\_457) = 1 TMP\_458 = 1 not(TMP\_458) = 0 TMP\_459 = 1 not(TMP\_459) = 0 TMP\_460 = 1 not(TMP\_460) = 0 TMP\_461 = 1 not(TMP\_461) = 0 TMP\_462 = 5 TMP\_463 = 0 not(TMP\_463) = 1 TMP\_464 = 0 not(TMP\_464) = 1 TMP\_465 = 0 TMP\_466 = 1 not(TMP\_466) = 0 TMP\_467 = 1 not(TMP\_467) = 0 TMP\_468 = 2 TMP\_469 = 0 not(TMP\_469) = 1 TMP\_470 = 0 not(TMP\_470) = 1 TMP\_471 = 1 not(TMP\_471) = 0 TMP\_472 = 1 not(TMP\_472) = 0 TMP\_473 = 1 not(TMP\_473) = 0 TMP\_474 = 2 TMP\_475 = 1 not(TMP\_475) = 0 TMP\_476 = 0 not(TMP\_476) = 1 TMP\_477 = 1 not(TMP\_477) = 0 TMP\_478 = 1 not(TMP\_478) = 0 TMP\_479 = 1 not(TMP\_479) = 0 TMP\_480 = 1 not(TMP\_480) = 0 TMP\_481 = 5 TMP\_482 = 0 not(TMP\_482) = 1 TMP\_483 = 0 not(TMP\_483) = 1 TMP\_484 = 0 TMP\_485 = 1 not(TMP\_485) = 0 TMP\_486 = 1 not(TMP\_486) = 0 TMP\_487 = 2 TMP\_488 = 0 not(TMP\_488) = 1 TMP\_489 = 0 not(TMP\_489) = 1 TMP\_490 = 1 not(TMP\_490) = 0 TMP\_491 = 1 not(TMP\_491) = 0 TMP\_492 = 1 not(TMP\_492) = 0 TMP\_493 = 2 TMP\_494 = 1 not(TMP\_494) = 0 TMP\_495 = 0 not(TMP\_495) = 1 TMP\_496 = 1 not(TMP\_496) = 0 TMP\_497 = 1 not(TMP\_497) = 0 TMP\_498 = 1 not(TMP\_498) = 0 TMP\_499 = 1 not(TMP\_499) = 0 TMP\_500 = 5 TMP\_501 = 0 not(TMP\_501) = 1 TMP\_502 = 0 not(TMP\_502) = 1 TMP\_503 = 0 TMP\_504 = 1 not(TMP\_504) = 0 TMP\_505 = 1 not(TMP\_505) = 0 TMP\_506 = 2 TMP\_507 = 0 not(TMP\_507) = 1 TMP\_508 = 0 not(TMP\_508) = 1 TMP\_509 = 1 not(TMP\_509) = 0 TMP\_510 = 1 not(TMP\_510) = 0 TMP\_511 = 1 not(TMP\_511) = 0 TMP\_512 = 2 TMP\_513 = 1 not(TMP\_513) = 0 TMP\_514 = 0 not(TMP\_514) = 1 TMP\_515 = 1 not(TMP\_515) = 0 TMP\_516 = 1 not(TMP\_516) = 0 TMP\_517 = 1 not(TMP\_517) = 0 TMP\_518 = 0 not(TMP\_518) = 1 TMP\_519 = 4 TMP\_520 = 0 not(TMP\_520) = 1 TMP\_521 = 0 not(TMP\_521) = 1 TMP\_522 = 0 TMP\_523 = 1 not(TMP\_523) = 0 TMP\_524 = 1 not(TMP\_524) = 0 TMP\_525 = 2 TMP\_526 = 0 not(TMP\_526) = 1 TMP\_527 = 0 not(TMP\_527) = 1 TMP\_528 = 1 not(TMP\_528) = 0 TMP\_529 = 1 not(TMP\_529) = 0 TMP\_530 = 1 not(TMP\_530) = 0 TMP\_531 = 2 TMP\_532 = 0 not(TMP\_532) = 1 TMP\_533 = 1 not(TMP\_533) = 0 TMP\_534 = 1 not(TMP\_534) = 0 TMP\_535 = 1 not(TMP\_535) = 0 TMP\_536 = 1 not(TMP\_536) = 0 TMP\_537 = 1 not(TMP\_537) = 0 TMP\_538 = 5 TMP\_539 = 0 not(TMP\_539) = 1 TMP\_540 = 0 not(TMP\_540) = 1 TMP\_541 = 0 TMP\_542 = 1 not(TMP\_542) = 0 TMP\_543 = 1 not(TMP\_543) = 0 TMP\_544 = 2 TMP\_545 = 0 not(TMP\_545) = 1 TMP\_546 = 0 not(TMP\_546) = 1 TMP\_547 = 1 not(TMP\_547) = 0 TMP\_548 = 1 not(TMP\_548) = 0 TMP\_549 = 1 not(TMP\_549) = 0 TMP\_550 = 2 TMP\_551 = 1 not(TMP\_551) = 0 TMP\_552 = 0 not(TMP\_552) = 1 TMP\_553 = 1 not(TMP\_553) = 0 TMP\_554 = 1 not(TMP\_554) = 0 TMP\_555 = 1 not(TMP\_555) = 0 TMP\_556 = 0 not(TMP\_556) = 1 TMP\_557 = 4 TMP\_558 = 0 not(TMP\_558) = 1 TMP\_559 = 0 not(TMP\_559) = 1 TMP\_560 = 0 TMP\_561 = 1 not(TMP\_561) = 0 TMP\_562 = 1 not(TMP\_562) = 0 TMP\_563 = 2 TMP\_564 = 0 not(TMP\_564) = 1 TMP\_565 = 0 not(TMP\_565) = 1 TMP\_566 = 1 not(TMP\_566) = 0 TMP\_567 = 1 not(TMP\_567) = 0 TMP\_568 = 1 not(TMP\_568) = 0 TMP\_569 = 2 TMP\_570 = 1 not(TMP\_570) = 0 TMP\_571 = 0 not(TMP\_571) = 1 TMP\_572 = 1 not(TMP\_572) = 0 TMP\_573 = 1 not(TMP\_573) = 0 TMP\_574 = 1 not(TMP\_574) = 0 TMP\_575 = 1 not(TMP\_575) = 0 TMP\_576 = 5 TMP\_577 = 0 not(TMP\_577) = 1 TMP\_578 = 0 not(TMP\_578) = 1 TMP\_579 = 0 TMP\_580 = 1 not(TMP\_580) = 0 TMP\_581 = 1 not(TMP\_581) = 0 TMP\_582 = 2 TMP\_583 = 0 not(TMP\_583) = 1 TMP\_584 = 0 not(TMP\_584) = 1 TMP\_585 = 1 not(TMP\_585) = 0 TMP\_586 = 1 not(TMP\_586) = 0 TMP\_587 = 1 not(TMP\_587) = 0 TMP\_588 = 2 TMP\_589 = 1 not(TMP\_589) = 0 TMP\_590 = 1 not(TMP\_590) = 0 TMP\_591 = 1 not(TMP\_591) = 0 TMP\_592 = 1 not(TMP\_592) = 0 TMP\_593 = 1 not(TMP\_593) = 0 TMP\_594 = 0 not(TMP\_594) = 1 TMP\_595 = 5 TMP\_596 = 0 not(TMP\_596) = 1 TMP\_597 = 0 not(TMP\_597) = 1 TMP\_598 = 0 TMP\_599 = 1 not(TMP\_599) = 0 TMP\_600 = 1 not(TMP\_600) = 0 TMP\_601 = 2 TMP\_602 = 0 not(TMP\_602) = 1 TMP\_603 = 0 not(TMP\_603) = 1 TMP\_604 = 1 not(TMP\_604) = 0 TMP\_605 = 1 not(TMP\_605) = 0 TMP\_606 = 1 not(TMP\_606) = 0 TMP\_607 = 2 TMP\_608 = 1 not(TMP\_608) = 0 TMP\_609 = 0 not(TMP\_609) = 1 TMP\_610 = 1 not(TMP\_610) = 0 TMP\_611 = 1 not(TMP\_611) = 0 TMP\_612 = 1 not(TMP\_612) = 0 TMP\_613 = 1 not(TMP\_613) = 0 TMP\_614 = 5 TMP\_615 = 0 not(TMP\_615) = 1 TMP\_616 = 0 not(TMP\_616) = 1 TMP\_617 = 0 TMP\_618 = 1 not(TMP\_618) = 0 TMP\_619 = 1 not(TMP\_619) = 0 TMP\_620 = 2 TMP\_621 = 0 not(TMP\_621) = 1 TMP\_622 = 0 not(TMP\_622) = 1 TMP\_623 = 1 not(TMP\_623) = 0 TMP\_624 = 1 not(TMP\_624) = 0 TMP\_625 = 1 not(TMP\_625) = 0 TMP\_626 = 2 TMP\_627 = 0 not(TMP\_627) = 1 TMP\_628 = 1 not(TMP\_628) = 0 TMP\_629 = 1 not(TMP\_629) = 0 TMP\_630 = 1 not(TMP\_630) = 0 TMP\_631 = 1 not(TMP\_631) = 0 TMP\_632 = 1 not(TMP\_632) = 0 TMP\_633 = 5 TMP\_634 = 0 not(TMP\_634) = 1 TMP\_635 = 0 not(TMP\_635) = 1 TMP\_636 = 0 TMP\_637 = 1 not(TMP\_637) = 0 TMP\_638 = 1 not(TMP\_638) = 0 TMP\_639 = 2 TMP\_640 = 0 not(TMP\_640) = 1 TMP\_641 = 0 not(TMP\_641) = 1 TMP\_642 = 1 not(TMP\_642) = 0 TMP\_643 = 1 not(TMP\_643) = 0 TMP\_644 = 1 not(TMP\_644) = 0 TMP\_645 = 2 TMP\_646 = 1 not(TMP\_646) = 0 TMP\_647 = 0 not(TMP\_647) = 1 TMP\_648 = 1 not(TMP\_648) = 0 TMP\_649 = 1 not(TMP\_649) = 0 TMP\_650 = 1 not(TMP\_650) = 0 TMP\_651 = 1 not(TMP\_651) = 0 TMP\_652 = 5 TMP\_653 = 0 not(TMP\_653) = 1 TMP\_654 = 0 not(TMP\_654) = 1 TMP\_655 = 0 TMP\_656 = 1 not(TMP\_656) = 0 TMP\_657 = 1 not(TMP\_657) = 0 TMP\_658 = 2 TMP\_659 = 0 not(TMP\_659) = 1 TMP\_660 = 0 not(TMP\_660) = 1 TMP\_661 = 1 not(TMP\_661) = 0 TMP\_662 = 1 not(TMP\_662) = 0 TMP\_663 = 1 not(TMP\_663) = 0 TMP\_664 = 2 TMP\_665 = 1 not(TMP\_665) = 0 TMP\_666 = 0 not(TMP\_666) = 1 TMP\_667 = 1 not(TMP\_667) = 0 TMP\_668 = 1 not(TMP\_668) = 0 TMP\_669 = 0 not(TMP\_669) = 1 TMP\_670 = 1 not(TMP\_670) = 0 TMP\_671 = 4 TMP\_672 = 0 not(TMP\_672) = 1 TMP\_673 = 0 not(TMP\_673) = 1 TMP\_674 = 0 TMP\_675 = 1 not(TMP\_675) = 0 TMP\_676 = 1 not(TMP\_676) = 0 TMP\_677 = 2 TMP\_678 = 0 not(TMP\_678) = 1 TMP\_679 = 0 not(TMP\_679) = 1 TMP\_680 = 1 not(TMP\_680) = 0 TMP\_681 = 1 not(TMP\_681) = 0 TMP\_682 = 1 not(TMP\_682) = 0 TMP\_683 = 2 TMP\_684 = 1 not(TMP\_684) = 0 TMP\_685 = 0 not(TMP\_685) = 1 TMP\_686 = 1 not(TMP\_686) = 0 TMP\_687 = 1 not(TMP\_687) = 0 TMP\_688 = 0 not(TMP\_688) = 1 TMP\_689 = 1 not(TMP\_689) = 0 TMP\_690 = 4 TMP\_691 = 0 not(TMP\_691) = 1 TMP\_692 = 0 not(TMP\_692) = 1 TMP\_693 = 0 TMP\_694 = 1 not(TMP\_694) = 0 TMP\_695 = 1 not(TMP\_695) = 0 TMP\_696 = 2 TMP\_697 = 0 not(TMP\_697) = 1 TMP\_698 = 0 not(TMP\_698) = 1 TMP\_699 = 1 not(TMP\_699) = 0 TMP\_700 = 1 not(TMP\_700) = 0 TMP\_701 = 1 not(TMP\_701) = 0 TMP\_702 = 2 TMP\_703 = 1 not(TMP\_703) = 0 TMP\_704 = 0 not(TMP\_704) = 1 TMP\_705 = 1 not(TMP\_705) = 0 TMP\_706 = 1 not(TMP\_706) = 0 TMP\_707 = 0 not(TMP\_707) = 1 TMP\_708 = 1 not(TMP\_708) = 0 TMP\_709 = 4 TMP\_710 = 0 not(TMP\_710) = 1 TMP\_711 = 0 not(TMP\_711) = 1 TMP\_712 = 0 TMP\_713 = 1 not(TMP\_713) = 0 TMP\_714 = 1 not(TMP\_714) = 0 TMP\_715 = 2 TMP\_716 = 0 not(TMP\_716) = 1 TMP\_717 = 0 not(TMP\_717) = 1 TMP\_718 = 1 not(TMP\_718) = 0 TMP\_719 = 1 not(TMP\_719) = 0 TMP\_720 = 1 not(TMP\_720) = 0 TMP\_721 = 2 TMP\_722 = 1 not(TMP\_722) = 0 TMP\_723 = 0 not(TMP\_723) = 1 TMP\_724 = 1 not(TMP\_724) = 0 TMP\_725 = 1 not(TMP\_725) = 0 TMP\_726 = 1 not(TMP\_726) = 0 TMP\_727 = 1 not(TMP\_727) = 0 TMP\_728 = 5 TMP\_729 = 0 not(TMP\_729) = 1 TMP\_730 = 0 not(TMP\_730) = 1 TMP\_731 = 0 TMP\_732 = 1 not(TMP\_732) = 0 TMP\_733 = 1 not(TMP\_733) = 0 TMP\_734 = 2 TMP\_735 = 0 not(TMP\_735) = 1 TMP\_736 = 0 not(TMP\_736) = 1 TMP\_737 = 1 not(TMP\_737) = 0 TMP\_738 = 1 not(TMP\_738) = 0 TMP\_739 = 1 not(TMP\_739) = 0 TMP\_740 = 2 TMP\_741 = 0 not(TMP\_741) = 1 TMP\_742 = 1 not(TMP\_742) = 0 TMP\_743 = 1 not(TMP\_743) = 0 TMP\_744 = 1 not(TMP\_744) = 0 TMP\_745 = 0 not(TMP\_745) = 1 TMP\_746 = 1 not(TMP\_746) = 0 TMP\_747 = 4 TMP\_748 = 0 not(TMP\_748) = 1 TMP\_749 = 0 not(TMP\_749) = 1 TMP\_750 = 0 TMP\_751 = 1 not(TMP\_751) = 0 TMP\_752 = 1 not(TMP\_752) = 0 TMP\_753 = 2 TMP\_754 = 0 not(TMP\_754) = 1 TMP\_755 = 0 not(TMP\_755) = 1 TMP\_756 = 1 not(TMP\_756) = 0 TMP\_757 = 1 not(TMP\_757) = 0 TMP\_758 = 1 not(TMP\_758) = 0 TMP\_759 = 2 TMP\_760 = 1 not(TMP\_760) = 0 TMP\_761 = 0 not(TMP\_761) = 1 TMP\_762 = 1 not(TMP\_762) = 0 TMP\_763 = 1 not(TMP\_763) = 0 TMP\_764 = 1 not(TMP\_764) = 0 TMP\_765 = 1 not(TMP\_765) = 0 TMP\_766 = 5 TMP\_767 = 0 not(TMP\_767) = 1 TMP\_768 = 0 not(TMP\_768) = 1 TMP\_769 = 0 TMP\_770 = 1 not(TMP\_770) = 0 TMP\_771 = 1 not(TMP\_771) = 0 TMP\_772 = 2 TMP\_773 = 0 not(TMP\_773) = 1 TMP\_774 = 0 not(TMP\_774) = 1 TMP\_775 = 1 not(TMP\_775) = 0 TMP\_776 = 1 not(TMP\_776) = 0 TMP\_777 = 1 not(TMP\_777) = 0 TMP\_778 = 2 TMP\_779 = 1 not(TMP\_779) = 0 TMP\_780 = 0 not(TMP\_780) = 1 TMP\_781 = 1 not(TMP\_781) = 0 TMP\_782 = 1 not(TMP\_782) = 0 TMP\_783 = 0 not(TMP\_783) = 1 TMP\_784 = 1 not(TMP\_784) = 0 TMP\_785 = 4 TMP\_786 = 0 not(TMP\_786) = 1 TMP\_787 = 0 not(TMP\_787) = 1 TMP\_788 = 0 TMP\_789 = 1 not(TMP\_789) = 0 TMP\_790 = 1 not(TMP\_790) = 0 TMP\_791 = 2 TMP\_792 = 0 not(TMP\_792) = 1 TMP\_793 = 0 not(TMP\_793) = 1 TMP\_794 = 1 not(TMP\_794) = 0 TMP\_795 = 1 not(TMP\_795) = 0 TMP\_796 = 1 not(TMP\_796) = 0 TMP\_797 = 2 TMP\_798 = 1 not(TMP\_798) = 0 TMP\_799 = 1 not(TMP\_799) = 0 TMP\_800 = 1 not(TMP\_800) = 0 TMP\_801 = 1 not(TMP\_801) = 0 TMP\_802 = 0 not(TMP\_802) = 1 TMP\_803 = 1 not(TMP\_803) = 0 TMP\_804 = 5 TMP\_805 = 0 not(TMP\_805) = 1 TMP\_806 = 0 not(TMP\_806) = 1 TMP\_807 = 0 TMP\_808 = 1 not(TMP\_808) = 0 TMP\_809 = 1 not(TMP\_809) = 0 TMP\_810 = 2 TMP\_811 = 0 not(TMP\_811) = 1 TMP\_812 = 0 not(TMP\_812) = 1 TMP\_813 = 1 not(TMP\_813) = 0 TMP\_814 = 1 not(TMP\_814) = 0 TMP\_815 = 1 not(TMP\_815) = 0 TMP\_816 = 2 TMP\_817 = 1 not(TMP\_817) = 0 TMP\_818 = 0 not(TMP\_818) = 1 TMP\_819 = 1 not(TMP\_819) = 0 TMP\_820 = 1 not(TMP\_820) = 0 TMP\_821 = 0 not(TMP\_821) = 1 TMP\_822 = 1 not(TMP\_822) = 0 TMP\_823 = 4 TMP\_824 = 0 not(TMP\_824) = 1 TMP\_825 = 0 not(TMP\_825) = 1 TMP\_826 = 0 TMP\_827 = 1 not(TMP\_827) = 0 TMP\_828 = 1 not(TMP\_828) = 0 TMP\_829 = 2 TMP\_830 = 0 not(TMP\_830) = 1 TMP\_831 = 0 not(TMP\_831) = 1 TMP\_832 = 1 not(TMP\_832) = 0 TMP\_833 = 1 not(TMP\_833) = 0 TMP\_834 = 1 not(TMP\_834) = 0 TMP\_835 = 2 TMP\_836 = 0 not(TMP\_836) = 1 TMP\_837 = 1 not(TMP\_837) = 0 TMP\_838 = 1 not(TMP\_838) = 0 TMP\_839 = 1 not(TMP\_839) = 0 TMP\_840 = 1 not(TMP\_840) = 0 TMP\_841 = 0 not(TMP\_841) = 1 TMP\_842 = 4 TMP\_843 = 0 not(TMP\_843) = 1 TMP\_844 = 0 not(TMP\_844) = 1 TMP\_845 = 0 TMP\_846 = 1 not(TMP\_846) = 0 TMP\_847 = 1 not(TMP\_847) = 0 TMP\_848 = 2 TMP\_849 = 0 not(TMP\_849) = 1 TMP\_850 = 0 not(TMP\_850) = 1 TMP\_851 = 1 not(TMP\_851) = 0 TMP\_852 = 1 not(TMP\_852) = 0 TMP\_853 = 1 not(TMP\_853) = 0 TMP\_854 = 2 TMP\_855 = 0 not(TMP\_855) = 1 TMP\_856 = 1 not(TMP\_856) = 0 TMP\_857 = 1 not(TMP\_857) = 0 TMP\_858 = 1 not(TMP\_858) = 0 TMP\_859 = 1 not(TMP\_859) = 0 TMP\_860 = 0 not(TMP\_860) = 1 TMP\_861 = 4 TMP\_862 = 0 not(TMP\_862) = 1 TMP\_863 = 0 not(TMP\_863) = 1 TMP\_864 = 0 TMP\_865 = 1 not(TMP\_865) = 0 TMP\_866 = 1 not(TMP\_866) = 0 TMP\_867 = 2 TMP\_868 = 0 not(TMP\_868) = 1 TMP\_869 = 0 not(TMP\_869) = 1 TMP\_870 = 1 not(TMP\_870) = 0 TMP\_871 = 1 not(TMP\_871) = 0 TMP\_872 = 1 not(TMP\_872) = 0 TMP\_873 = 2 TMP\_874 = 0 not(TMP\_874) = 1 TMP\_875 = 1 not(TMP\_875) = 0 TMP\_876 = 1 not(TMP\_876) = 0 TMP\_877 = 1 not(TMP\_877) = 0 TMP\_878 = 1 not(TMP\_878) = 0 TMP\_879 = 1 not(TMP\_879) = 0 TMP\_880 = 5 TMP\_881 = 0 not(TMP\_881) = 1 TMP\_882 = 0 not(TMP\_882) = 1 TMP\_883 = 0 TMP\_884 = 1 not(TMP\_884) = 0 TMP\_885 = 1 not(TMP\_885) = 0 TMP\_886 = 2 TMP\_887 = 0 not(TMP\_887) = 1 TMP\_888 = 0 not(TMP\_888) = 1 TMP\_889 = 1 not(TMP\_889) = 0 TMP\_890 = 1 not(TMP\_890) = 0 TMP\_891 = 1 not(TMP\_891) = 0 TMP\_892 = 2 TMP\_893 = 0 not(TMP\_893) = 1 TMP\_894 = 1 not(TMP\_894) = 0 TMP\_895 = 0 not(TMP\_895) = 1 TMP\_896 = 1 not(TMP\_896) = 0 TMP\_897 = 1 not(TMP\_897) = 0 TMP\_898 = 1 not(TMP\_898) = 0 TMP\_899 = 4 TMP\_900 = 0 not(TMP\_900) = 1 TMP\_901 = 0 not(TMP\_901) = 1 TMP\_902 = 0 TMP\_903 = 1 not(TMP\_903) = 0 TMP\_904 = 1 not(TMP\_904) = 0 TMP\_905 = 2 TMP\_906 = 0 not(TMP\_906) = 1 TMP\_907 = 0 not(TMP\_907) = 1 TMP\_908 = 1 not(TMP\_908) = 0 TMP\_909 = 1 not(TMP\_909) = 0 TMP\_910 = 1 not(TMP\_910) = 0 TMP\_911 = 2 TMP\_912 = 1 not(TMP\_912) = 0 TMP\_913 = 0 not(TMP\_913) = 1 TMP\_914 = 1 not(TMP\_914) = 0 TMP\_915 = 1 not(TMP\_915) = 0 TMP\_916 = 1 not(TMP\_916) = 0 TMP\_917 = 1 not(TMP\_917) = 0 TMP\_918 = 5 TMP\_919 = 0 not(TMP\_919) = 1 TMP\_920 = 0 not(TMP\_920) = 1 TMP\_921 = 0 TMP\_922 = 1 not(TMP\_922) = 0 TMP\_923 = 1 not(TMP\_923) = 0 TMP\_924 = 2 TMP\_925 = 0 not(TMP\_925) = 1 TMP\_926 = 0 not(TMP\_926) = 1 TMP\_927 = 1 not(TMP\_927) = 0 TMP\_928 = 1 not(TMP\_928) = 0 TMP\_929 = 1 not(TMP\_929) = 0 TMP\_930 = 2 TMP\_931 = 1 not(TMP\_931) = 0 TMP\_932 = 0 not(TMP\_932) = 1 TMP\_933 = 1 not(TMP\_933) = 0 TMP\_934 = 1 not(TMP\_934) = 0 TMP\_935 = 1 not(TMP\_935) = 0 TMP\_936 = 0 not(TMP\_936) = 1 TMP\_937 = 4 TMP\_938 = 0 not(TMP\_938) = 1 TMP\_939 = 0 not(TMP\_939) = 1 TMP\_940 = 0 TMP\_941 = 1 not(TMP\_941) = 0 TMP\_942 = 1 not(TMP\_942) = 0 TMP\_943 = 2 TMP\_944 = 0 not(TMP\_944) = 1 TMP\_945 = 0 not(TMP\_945) = 1 TMP\_946 = 1 not(TMP\_946) = 0 TMP\_947 = 1 not(TMP\_947) = 0 TMP\_948 = 1 not(TMP\_948) = 0 TMP\_949 = 2 TMP\_950 = 0 not(TMP\_950) = 1 TMP\_951 = 1 not(TMP\_951) = 0 TMP\_952 = 1 not(TMP\_952) = 0 TMP\_953 = 1 not(TMP\_953) = 0 TMP\_954 = 1 not(TMP\_954) = 0 TMP\_955 = 1 not(TMP\_955) = 0 TMP\_956 = 5 TMP\_957 = 0 not(TMP\_957) = 1 TMP\_958 = 0 not(TMP\_958) = 1 TMP\_959 = 0 TMP\_960 = 1 not(TMP\_960) = 0 TMP\_961 = 1 not(TMP\_961) = 0 TMP\_962 = 2 TMP\_963 = 0 not(TMP\_963) = 1 TMP\_964 = 0 not(TMP\_964) = 1 TMP\_965 = 1 not(TMP\_965) = 0 TMP\_966 = 1 not(TMP\_966) = 0 TMP\_967 = 1 not(TMP\_967) = 0 TMP\_968 = 2 TMP\_969 = 1 not(TMP\_969) = 0 TMP\_970 = 1 not(TMP\_970) = 0 TMP\_971 = 1 not(TMP\_971) = 0 TMP\_972 = 1 not(TMP\_972) = 0 TMP\_973 = 1 not(TMP\_973) = 0 TMP\_974 = 0 not(TMP\_974) = 1 TMP\_975 = 5 TMP\_976 = 0 not(TMP\_976) = 1 TMP\_977 = 0 not(TMP\_977) = 1 TMP\_978 = 0 TMP\_979 = 1 not(TMP\_979) = 0 TMP\_980 = 1 not(TMP\_980) = 0 TMP\_981 = 2 TMP\_982 = 0 not(TMP\_982) = 1 TMP\_983 = 0 not(TMP\_983) = 1 TMP\_984 = 1 not(TMP\_984) = 0 TMP\_985 = 1 not(TMP\_985) = 0 TMP\_986 = 1 not(TMP\_986) = 0 TMP\_987 = 2 TMP\_988 = 1 not(TMP\_988) = 0 TMP\_989 = 1 not(TMP\_989) = 0 TMP\_990 = 0 not(TMP\_990) = 1 TMP\_991 = 1 not(TMP\_991) = 0 TMP\_992 = 1 not(TMP\_992) = 0 TMP\_993 = 1 not(TMP\_993) = 0 TMP\_994 = 5 TMP\_995 = 0 not(TMP\_995) = 1 TMP\_996 = 0 not(TMP\_996) = 1 TMP\_997 = 0 TMP\_998 = 1 not(TMP\_998) = 0 TMP\_999 = 1 not(TMP\_999) = 0 TMP\_1000 = 2 TMP\_1001 = 0 not(TMP\_1001) = 1 TMP\_1002 = 0 not(TMP\_1002) = 1 TMP\_1003 = 1 not(TMP\_1003) = 0 TMP\_1004 = 1 not(TMP\_1004) = 0 TMP\_1005 = 1 not(TMP\_1005) = 0 TMP\_1006 = 2 TMP\_1007 = 0 not(TMP\_1007) = 1 TMP\_1008 = 1 not(TMP\_1008) = 0 TMP\_1009 = 1 not(TMP\_1009) = 0 TMP\_1010 = 1 not(TMP\_1010) = 0 TMP\_1011 = 1 not(TMP\_1011) = 0 TMP\_1012 = 1 not(TMP\_1012) = 0 TMP\_1013 = 5 TMP\_1014 = 0 not(TMP\_1014) = 1 TMP\_1015 = 0 not(TMP\_1015) = 1 TMP\_1016 = 0 TMP\_1017 = 1 not(TMP\_1017) = 0 TMP\_1018 = 1 not(TMP\_1018) = 0 TMP\_1019 = 2 TMP\_1020 = 0 not(TMP\_1020) = 1 TMP\_1021 = 0 not(TMP\_1021) = 1 TMP\_1022 = 1 not(TMP\_1022) = 0 TMP\_1023 = 1 not(TMP\_1023) = 0 TMP\_1024 = 1 not(TMP\_1024) = 0 TMP\_1025 = 2 TMP\_1026 = 0 not(TMP\_1026) = 1 TMP\_1027 = 1 not(TMP\_1027) = 0 TMP\_1028 = 1 not(TMP\_1028) = 0 TMP\_1029 = 1 not(TMP\_1029) = 0 TMP\_1030 = 1 not(TMP\_1030) = 0 TMP\_1031 = 0 not(TMP\_1031) = 1 TMP\_1032 = 4 TMP\_1033 = 0 not(TMP\_1033) = 1 TMP\_1034 = 0 not(TMP\_1034) = 1 TMP\_1035 = 0 TMP\_1036 = 1 not(TMP\_1036) = 0 TMP\_1037 = 1 not(TMP\_1037) = 0 TMP\_1038 = 2 TMP\_1039 = 0 not(TMP\_1039) = 1 TMP\_1040 = 0 not(TMP\_1040) = 1 TMP\_1041 = 1 not(TMP\_1041) = 0 TMP\_1042 = 1 not(TMP\_1042) = 0 TMP\_1043 = 1 not(TMP\_1043) = 0 TMP\_1044 = 2 Area\_0 = 60 Distance\_0\_Rule\_0 = 20 Distance\_1\_Rule\_0 = 3 Distance\_2\_Rule\_0 = 1 Area\_1 = 174 Distance\_0\_Rule\_1 = 58 Distance\_1\_Rule\_1 = 3 Distance\_2\_Rule\_1 = 1 Area\_2 = 116 Distance\_0\_Rule\_2 = 58 Distance\_1\_Rule\_2 = 2 Distance\_2\_Rule\_2 = 1 Area\_3 = 58 Distance\_0\_Rule\_3 = 58 Distance\_1\_Rule\_3 = 1 Distance\_2\_Rule\_3 = 1 Area\_4 = 120 Distance\_0\_Rule\_4 = 40 Distance\_1\_Rule\_4 = 3 Distance\_2\_Rule\_4 = 1 Area\_5 = 120 Distance\_0\_Rule\_5 = 40 Distance\_1\_Rule\_5 = 3 Distance\_2\_Rule\_5 = 1 Area\_6 = 60 Distance\_0\_Rule\_6 = 20 Distance\_1\_Rule\_6 = 3 Distance\_2\_Rule\_6 = 1 Area\_7 = 3 -(Rule\_7\_LB) = -79 Distance\_0\_Rule\_7 = 1 -(Rule\_7\_LB) = 0 Distance\_1\_Rule\_7 = 3 -(Rule\_7\_LB) = -1 Distance\_2\_Rule\_7 = 1 Area\_8 = 1 -(Rule\_8\_LB) = -79 Distance\_0\_Rule\_8 = 1 -(Rule\_8\_LB) = 0 Distance\_1\_Rule\_8 = 1 -(Rule\_8\_LB) = 0 Distance\_2\_Rule\_8 = 1 Area\_9 = 3 -(Rule\_9\_LB) = -20 Distance\_0\_Rule\_9 = 1 -(Rule\_9\_LB) = 0 Distance\_1\_Rule\_9 = 3 -(Rule\_9\_LB) = 0 Distance\_2\_Rule\_9 = 1 Area\_10 = 3 -(Rule\_10\_LB) = -20 Distance\_0\_Rule\_10 = 1 -(Rule\_10\_LB) = 0 Distance\_1\_Rule\_10 = 3 -(Rule\_10\_LB) = -1 Distance\_2\_Rule\_10 = 1 Area\_11 = 2 -(Rule\_11\_LB) = -79 Distance\_0\_Rule\_11 = 1 -(Rule\_11\_LB) = -1 Distance\_1\_Rule\_11 = 2 -(Rule\_11\_LB) = 0 Distance\_2\_Rule\_11 = 1 TMP\_1045 = 720 .

- Solution #12 found. 12 Solutions, Resolution 1.380s, 1477 Nodes (1,070.6 n/s), 2819 Backtracks, 1405 Fails, 0 Restarts

Rule\_7\_LB = 79 Rule\_7\_UB = 80 Rule\_7\_LB = 0 Rule\_7\_UB = 3 Rule\_7\_LB = 1 Rule\_7\_UB = 2 Rule\_8\_LB = 79 Rule\_8\_UB = 80 Rule\_8\_LB = 0 Rule\_8\_UB = 1 Rule\_8\_LB = 0 Rule\_8\_UB = 1 Rule\_9\_LB = 20 Rule\_9\_UB = 21 Rule\_9\_LB = 0 Rule\_9\_UB = 3 Rule\_9\_LB = 0 Rule\_9\_UB = 1 Rule\_10\_LB = 20 Rule\_10\_UB = 21 Rule\_10\_LB = 0 Rule\_10\_UB = 3 Rule\_10\_LB = 1 Rule\_10\_UB = 2 Rule\_11\_LB = 79 Rule\_11\_UB = 80 Rule\_11\_LB = 1 Rule\_11\_UB = 3 Rule\_11\_LB = 0 Rule\_11\_UB = 1 Overlaps\_0\_0 = 0 Overlaps\_0\_1 = 0 Overlaps\_0\_2 = 0 Overlaps\_0\_3 = 0 Overlaps\_0\_4 = 0 Overlaps\_0\_5 = 0 Overlaps\_0\_6 = 0 Overlaps\_0\_7 = 0 Overlaps\_0\_8 = 0 Overlaps\_0\_9 = 0 Overlaps\_0\_10 = 0 Overlaps\_0\_11 = 0 Overlaps\_1\_0 = 0 Overlaps\_1\_1 = 0 Overlaps\_1\_2 = 1 Overlaps\_1\_3 = 0 Overlaps\_1\_4 = 0 Overlaps\_1\_5 = 0 Overlaps\_1\_6 = 0 Overlaps\_1\_7 = 0 Overlaps\_1\_8 = 0 Overlaps\_1\_9 = 0 Overlaps\_1\_10 = 0 Overlaps\_1\_11 = 0 Overlaps\_2\_0 = 0 Overlaps\_2\_1 = 0 Overlaps\_2\_2 = 0 Overlaps\_2\_3 = 0 Overlaps\_2\_4 = 0 Overlaps\_2\_5 = 1 Overlaps\_2\_6 = 0 Overlaps\_2\_7 = 0 Overlaps\_2\_8 = 0 Overlaps\_2\_9 = 0 Overlaps\_2\_10 = 0 Overlaps\_2\_11 = 0 Overlaps\_3\_0 = 0 Overlaps\_3\_1 = 0 Overlaps\_3\_2 = 0 Overlaps\_3\_3 = 0 Overlaps\_3\_4 = 0 Overlaps\_3\_5 = 0 Overlaps\_3\_6 = 0 Overlaps\_3\_7 = 0 Overlaps\_3\_8 = 0 Overlaps\_3\_9 = 0 Overlaps\_3\_10 = 0 Overlaps\_3\_11 = 0 Overlaps\_4\_0 = 0 Overlaps\_4\_1 = 0 Overlaps\_4\_2 = 0 Overlaps\_4\_3 = 0 Overlaps\_4\_4 = 0 Overlaps\_4\_5 = 0 Overlaps\_4\_6 = 0 Overlaps\_4\_7 = 0 Overlaps\_4\_8 = 0 Overlaps\_4\_9 = 0 Overlaps\_4\_10 = 0 Overlaps\_4\_11 = 0 Overlaps\_5\_0 = 0 Overlaps\_5\_1 = 0 Overlaps\_5\_2 = 0 Overlaps\_5\_3 = 0 Overlaps\_5\_4 = 0 Overlaps\_5\_5 = 0 Overlaps\_5\_6 = 0 Overlaps\_5\_7 = 0 Overlaps\_5\_8 = 0 Overlaps\_5\_9 = 0 Overlaps\_5\_10 = 0 Overlaps\_5\_11 = 0 Overlaps\_6\_0 = 0 Overlaps\_6\_1 = 1 Overlaps\_6\_2 = 0 Overlaps\_6\_3 = 0 Overlaps\_6\_4 = 0 Overlaps\_6\_5 = 0 Overlaps\_6\_6 = 0 Overlaps\_6\_7 = 0 Overlaps\_6\_8 = 0 Overlaps\_6\_9 = 0 Overlaps\_6\_10 = 0 Overlaps\_6\_11 = 0 Overlaps\_7\_0 = 0 Overlaps\_7\_1 = 0 Overlaps\_7\_2 = 0 Overlaps\_7\_3 = 0 Overlaps\_7\_4 = 0 Overlaps\_7\_5 = 0 Overlaps\_7\_6 = 0 Overlaps\_7\_7 = 0 Overlaps\_7\_8 = 0 Overlaps\_7\_9 = 0 Overlaps\_7\_10 = 0 Overlaps\_7\_11 = 0 Overlaps\_8\_0 = 0 Overlaps\_8\_1 = 0 Overlaps\_8\_2 = 0 Overlaps\_8\_3 = 0 Overlaps\_8\_4 = 0 Overlaps\_8\_5 = 0 Overlaps\_8\_6 = 0 Overlaps\_8\_7 = 0 Overlaps\_8\_8 = 0 Overlaps\_8\_9 = 0 Overlaps\_8\_10 = 0 Overlaps\_8\_11 = 0 Overlaps\_9\_0 = 0 Overlaps\_9\_1 = 0 Overlaps\_9\_2 = 0 Overlaps\_9\_3 = 0 Overlaps\_9\_4 = 0 Overlaps\_9\_5 = 0 Overlaps\_9\_6 = 0 Overlaps\_9\_7 = 0 Overlaps\_9\_8 = 0 Overlaps\_9\_9 = 0 Overlaps\_9\_10 = 0 Overlaps\_9\_11 = 0 Overlaps\_10\_0 = 0 Overlaps\_10\_1 = 0 Overlaps\_10\_2 = 0 Overlaps\_10\_3 = 0 Overlaps\_10\_4 = 0 Overlaps\_10\_5 = 0 Overlaps\_10\_6 = 0 Overlaps\_10\_7 = 0 Overlaps\_10\_8 = 0 Overlaps\_10\_9 = 0 Overlaps\_10\_10 = 0 Overlaps\_10\_11 = 0 Overlaps\_11\_0 = 0 Overlaps\_11\_1 = 0 Overlaps\_11\_2 = 0 Overlaps\_11\_3 = 0 Overlaps\_11\_4 = 0 Overlaps\_11\_5 = 0 Overlaps\_11\_6 = 0 Overlaps\_11\_7 = 0 Overlaps\_11\_8 = 0 Overlaps\_11\_9 = 0 Overlaps\_11\_10 = 0 Overlaps\_11\_11 = 0 TMP\_0 = 0 not(TMP\_0) = 1 TMP\_1 = 1 not(TMP\_1) = 0 TMP\_2 = 1 not(TMP\_2) = 0 TMP\_3 = 1 not(TMP\_3) = 0 TMP\_4 = 1 not(TMP\_4) = 0 TMP\_5 = 1 not(TMP\_5) = 0 TMP\_6 = 5 TMP\_7 = 0 not(TMP\_7) = 1 TMP\_8 = 0 not(TMP\_8) = 1 TMP\_9 = 0 TMP\_10 = 1 not(TMP\_10) = 0 TMP\_11 = 1 not(TMP\_11) = 0 TMP\_12 = 2 TMP\_13 = 0 not(TMP\_13) = 1 TMP\_14 = 0 not(TMP\_14) = 1 TMP\_15 = 1 not(TMP\_15) = 0 TMP\_16 = 1 not(TMP\_16) = 0 TMP\_17 = 1 not(TMP\_17) = 0 TMP\_18 = 2 TMP\_19 = 0 not(TMP\_19) = 1 TMP\_20 = 1 not(TMP\_20) = 0 TMP\_21 = 1 not(TMP\_21) = 0 TMP\_22 = 1 not(TMP\_22) = 0 TMP\_23 = 1 not(TMP\_23) = 0 TMP\_24 = 1 not(TMP\_24) = 0 TMP\_25 = 5 TMP\_26 = 0 not(TMP\_26) = 1 TMP\_27 = 0 not(TMP\_27) = 1 TMP\_28 = 0 TMP\_29 = 1 not(TMP\_29) = 0 TMP\_30 = 1 not(TMP\_30) = 0 TMP\_31 = 2 TMP\_32 = 0 not(TMP\_32) = 1 TMP\_33 = 0 not(TMP\_33) = 1 TMP\_34 = 1 not(TMP\_34) = 0 TMP\_35 = 1 not(TMP\_35) = 0 TMP\_36 = 1 not(TMP\_36) = 0 TMP\_37 = 2 TMP\_38 = 0 not(TMP\_38) = 1 TMP\_39 = 1 not(TMP\_39) = 0 TMP\_40 = 1 not(TMP\_40) = 0 TMP\_41 = 1 not(TMP\_41) = 0 TMP\_42 = 0 not(TMP\_42) = 1 TMP\_43 = 1 not(TMP\_43) = 0 TMP\_44 = 4 TMP\_45 = 0 not(TMP\_45) = 1 TMP\_46 = 0 not(TMP\_46) = 1 TMP\_47 = 0 TMP\_48 = 1 not(TMP\_48) = 0 TMP\_49 = 1 not(TMP\_49) = 0 TMP\_50 = 2 TMP\_51 = 0 not(TMP\_51) = 1 TMP\_52 = 0 not(TMP\_52) = 1 TMP\_53 = 1 not(TMP\_53) = 0 TMP\_54 = 1 not(TMP\_54) = 0 TMP\_55 = 1 not(TMP\_55) = 0 TMP\_56 = 2 TMP\_57 = 0 not(TMP\_57) = 1 TMP\_58 = 1 not(TMP\_58) = 0 TMP\_59 = 1 not(TMP\_59) = 0 TMP\_60 = 1 not(TMP\_60) = 0 TMP\_61 = 0 not(TMP\_61) = 1 TMP\_62 = 1 not(TMP\_62) = 0 TMP\_63 = 4 TMP\_64 = 0 not(TMP\_64) = 1 TMP\_65 = 0 not(TMP\_65) = 1 TMP\_66 = 0 TMP\_67 = 1 not(TMP\_67) = 0 TMP\_68 = 1 not(TMP\_68) = 0 TMP\_69 = 2 TMP\_70 = 0 not(TMP\_70) = 1 TMP\_71 = 0 not(TMP\_71) = 1 TMP\_72 = 1 not(TMP\_72) = 0 TMP\_73 = 1 not(TMP\_73) = 0 TMP\_74 = 1 not(TMP\_74) = 0 TMP\_75 = 2 TMP\_76 = 1 not(TMP\_76) = 0 TMP\_77 = 0 not(TMP\_77) = 1 TMP\_78 = 1 not(TMP\_78) = 0 TMP\_79 = 1 not(TMP\_79) = 0 TMP\_80 = 0 not(TMP\_80) = 1 TMP\_81 = 1 not(TMP\_81) = 0 TMP\_82 = 4 TMP\_83 = 0 not(TMP\_83) = 1 TMP\_84 = 0 not(TMP\_84) = 1 TMP\_85 = 0 TMP\_86 = 1 not(TMP\_86) = 0 TMP\_87 = 1 not(TMP\_87) = 0 TMP\_88 = 2 TMP\_89 = 0 not(TMP\_89) = 1 TMP\_90 = 0 not(TMP\_90) = 1 TMP\_91 = 1 not(TMP\_91) = 0 TMP\_92 = 1 not(TMP\_92) = 0 TMP\_93 = 1 not(TMP\_93) = 0 TMP\_94 = 2 TMP\_95 = 1 not(TMP\_95) = 0 TMP\_96 = 0 not(TMP\_96) = 1 TMP\_97 = 1 not(TMP\_97) = 0 TMP\_98 = 1 not(TMP\_98) = 0 TMP\_99 = 1 not(TMP\_99) = 0 TMP\_100 = 1 not(TMP\_100) = 0 TMP\_101 = 5 TMP\_102 = 0 not(TMP\_102) = 1 TMP\_103 = 0 not(TMP\_103) = 1 TMP\_104 = 0 TMP\_105 = 1 not(TMP\_105) = 0 TMP\_106 = 1 not(TMP\_106) = 0 TMP\_107 = 2 TMP\_108 = 0 not(TMP\_108) = 1 TMP\_109 = 0 not(TMP\_109) = 1 TMP\_110 = 1 not(TMP\_110) = 0 TMP\_111 = 1 not(TMP\_111) = 0 TMP\_112 = 1 not(TMP\_112) = 0 TMP\_113 = 2 TMP\_114 = 0 not(TMP\_114) = 1 TMP\_115 = 1 not(TMP\_115) = 0 TMP\_116 = 1 not(TMP\_116) = 0 TMP\_117 = 1 not(TMP\_117) = 0 TMP\_118 = 0 not(TMP\_118) = 1 TMP\_119 = 1 not(TMP\_119) = 0 TMP\_120 = 4 TMP\_121 = 0 not(TMP\_121) = 1 TMP\_122 = 0 not(TMP\_122) = 1 TMP\_123 = 0 TMP\_124 = 1 not(TMP\_124) = 0 TMP\_125 = 1 not(TMP\_125) = 0 TMP\_126 = 2 TMP\_127 = 0 not(TMP\_127) = 1 TMP\_128 = 0 not(TMP\_128) = 1 TMP\_129 = 1 not(TMP\_129) = 0 TMP\_130 = 1 not(TMP\_130) = 0 TMP\_131 = 1 not(TMP\_131) = 0 TMP\_132 = 2 TMP\_133 = 1 not(TMP\_133) = 0 TMP\_134 = 1 not(TMP\_134) = 0 TMP\_135 = 1 not(TMP\_135) = 0 TMP\_136 = 1 not(TMP\_136) = 0 TMP\_137 = 0 not(TMP\_137) = 1 TMP\_138 = 1 not(TMP\_138) = 0 TMP\_139 = 5 TMP\_140 = 0 not(TMP\_140) = 1 TMP\_141 = 0 not(TMP\_141) = 1 TMP\_142 = 0 TMP\_143 = 1 not(TMP\_143) = 0 TMP\_144 = 1 not(TMP\_144) = 0 TMP\_145 = 2 TMP\_146 = 0 not(TMP\_146) = 1 TMP\_147 = 0 not(TMP\_147) = 1 TMP\_148 = 1 not(TMP\_148) = 0 TMP\_149 = 1 not(TMP\_149) = 0 TMP\_150 = 1 not(TMP\_150) = 0 TMP\_151 = 2 TMP\_152 = 0 not(TMP\_152) = 1 TMP\_153 = 1 not(TMP\_153) = 0 TMP\_154 = 1 not(TMP\_154) = 0 TMP\_155 = 1 not(TMP\_155) = 0 TMP\_156 = 0 not(TMP\_156) = 1 TMP\_157 = 1 not(TMP\_157) = 0 TMP\_158 = 4 TMP\_159 = 0 not(TMP\_159) = 1 TMP\_160 = 0 not(TMP\_160) = 1 TMP\_161 = 0 TMP\_162 = 1 not(TMP\_162) = 0 TMP\_163 = 1 not(TMP\_163) = 0 TMP\_164 = 2 TMP\_165 = 0 not(TMP\_165) = 1 TMP\_166 = 0 not(TMP\_166) = 1 TMP\_167 = 1 not(TMP\_167) = 0 TMP\_168 = 1 not(TMP\_168) = 0 TMP\_169 = 1 not(TMP\_169) = 0 TMP\_170 = 2 TMP\_171 = 0 not(TMP\_171) = 1 TMP\_172 = 1 not(TMP\_172) = 0 TMP\_173 = 1 not(TMP\_173) = 0 TMP\_174 = 1 not(TMP\_174) = 0 TMP\_175 = 1 not(TMP\_175) = 0 TMP\_176 = 1 not(TMP\_176) = 0 TMP\_177 = 5 TMP\_178 = 0 not(TMP\_178) = 1 TMP\_179 = 0 not(TMP\_179) = 1 TMP\_180 = 0 TMP\_181 = 1 not(TMP\_181) = 0 TMP\_182 = 1 not(TMP\_182) = 0 TMP\_183 = 2 TMP\_184 = 0 not(TMP\_184) = 1 TMP\_185 = 0 not(TMP\_185) = 1 TMP\_186 = 1 not(TMP\_186) = 0 TMP\_187 = 1 not(TMP\_187) = 0 TMP\_188 = 1 not(TMP\_188) = 0 TMP\_189 = 2 TMP\_190 = 1 not(TMP\_190) = 0 TMP\_191 = 1 not(TMP\_191) = 0 TMP\_192 = 1 not(TMP\_192) = 0 TMP\_193 = 1 not(TMP\_193) = 0 TMP\_194 = 0 not(TMP\_194) = 1 TMP\_195 = 1 not(TMP\_195) = 0 TMP\_196 = 5 TMP\_197 = 0 not(TMP\_197) = 1 TMP\_198 = 0 not(TMP\_198) = 1 TMP\_199 = 0 TMP\_200 = 1 not(TMP\_200) = 0 TMP\_201 = 1 not(TMP\_201) = 0 TMP\_202 = 2 TMP\_203 = 0 not(TMP\_203) = 1 TMP\_204 = 0 not(TMP\_204) = 1 TMP\_205 = 1 not(TMP\_205) = 0 TMP\_206 = 1 not(TMP\_206) = 0 TMP\_207 = 1 not(TMP\_207) = 0 TMP\_208 = 2 TMP\_209 = 0 not(TMP\_209) = 1 TMP\_210 = 1 not(TMP\_210) = 0 TMP\_211 = 1 not(TMP\_211) = 0 TMP\_212 = 1 not(TMP\_212) = 0 TMP\_213 = 1 not(TMP\_213) = 0 TMP\_214 = 0 not(TMP\_214) = 1 TMP\_215 = 4 TMP\_216 = 0 not(TMP\_216) = 1 TMP\_217 = 0 not(TMP\_217) = 1 TMP\_218 = 0 TMP\_219 = 1 not(TMP\_219) = 0 TMP\_220 = 1 not(TMP\_220) = 0 TMP\_221 = 2 TMP\_222 = 0 not(TMP\_222) = 1 TMP\_223 = 0 not(TMP\_223) = 1 TMP\_224 = 1 not(TMP\_224) = 0 TMP\_225 = 1 not(TMP\_225) = 0 TMP\_226 = 1 not(TMP\_226) = 0 TMP\_227 = 2 TMP\_228 = 0 not(TMP\_228) = 1 TMP\_229 = 1 not(TMP\_229) = 0 TMP\_230 = 1 not(TMP\_230) = 0 TMP\_231 = 1 not(TMP\_231) = 0 TMP\_232 = 1 not(TMP\_232) = 0 TMP\_233 = 0 not(TMP\_233) = 1 TMP\_234 = 4 TMP\_235 = 0 not(TMP\_235) = 1 TMP\_236 = 0 not(TMP\_236) = 1 TMP\_237 = 0 TMP\_238 = 1 not(TMP\_238) = 0 TMP\_239 = 1 not(TMP\_239) = 0 TMP\_240 = 2 TMP\_241 = 0 not(TMP\_241) = 1 TMP\_242 = 0 not(TMP\_242) = 1 TMP\_243 = 1 not(TMP\_243) = 0 TMP\_244 = 1 not(TMP\_244) = 0 TMP\_245 = 1 not(TMP\_245) = 0 TMP\_246 = 2 TMP\_247 = 0 not(TMP\_247) = 1 TMP\_248 = 1 not(TMP\_248) = 0 TMP\_249 = 1 not(TMP\_249) = 0 TMP\_250 = 0 not(TMP\_250) = 1 TMP\_251 = 1 not(TMP\_251) = 0 TMP\_252 = 1 not(TMP\_252) = 0 TMP\_253 = 4 TMP\_254 = 0 not(TMP\_254) = 1 TMP\_255 = 0 not(TMP\_255) = 1 TMP\_256 = 0 TMP\_257 = 1 not(TMP\_257) = 0 TMP\_258 = 1 not(TMP\_258) = 0 TMP\_259 = 2 TMP\_260 = 0 not(TMP\_260) = 1 TMP\_261 = 0 not(TMP\_261) = 1 TMP\_262 = 1 not(TMP\_262) = 0 TMP\_263 = 1 not(TMP\_263) = 0 TMP\_264 = 1 not(TMP\_264) = 0 TMP\_265 = 2 TMP\_266 = 0 not(TMP\_266) = 1 TMP\_267 = 1 not(TMP\_267) = 0 TMP\_268 = 1 not(TMP\_268) = 0 TMP\_269 = 1 not(TMP\_269) = 0 TMP\_270 = 1 not(TMP\_270) = 0 TMP\_271 = 1 not(TMP\_271) = 0 TMP\_272 = 5 TMP\_273 = 0 not(TMP\_273) = 1 TMP\_274 = 0 not(TMP\_274) = 1 TMP\_275 = 0 TMP\_276 = 1 not(TMP\_276) = 0 TMP\_277 = 1 not(TMP\_277) = 0 TMP\_278 = 2 TMP\_279 = 0 not(TMP\_279) = 1 TMP\_280 = 0 not(TMP\_280) = 1 TMP\_281 = 1 not(TMP\_281) = 0 TMP\_282 = 1 not(TMP\_282) = 0 TMP\_283 = 1 not(TMP\_283) = 0 TMP\_284 = 2 TMP\_285 = 1 not(TMP\_285) = 0 TMP\_286 = 0 not(TMP\_286) = 1 TMP\_287 = 1 not(TMP\_287) = 0 TMP\_288 = 1 not(TMP\_288) = 0 TMP\_289 = 1 not(TMP\_289) = 0 TMP\_290 = 1 not(TMP\_290) = 0 TMP\_291 = 5 TMP\_292 = 0 not(TMP\_292) = 1 TMP\_293 = 0 not(TMP\_293) = 1 TMP\_294 = 0 TMP\_295 = 1 not(TMP\_295) = 0 TMP\_296 = 1 not(TMP\_296) = 0 TMP\_297 = 2 TMP\_298 = 0 not(TMP\_298) = 1 TMP\_299 = 0 not(TMP\_299) = 1 TMP\_300 = 1 not(TMP\_300) = 0 TMP\_301 = 1 not(TMP\_301) = 0 TMP\_302 = 1 not(TMP\_302) = 0 TMP\_303 = 2 TMP\_304 = 1 not(TMP\_304) = 0 TMP\_305 = 0 not(TMP\_305) = 1 TMP\_306 = 1 not(TMP\_306) = 0 TMP\_307 = 1 not(TMP\_307) = 0 TMP\_308 = 1 not(TMP\_308) = 0 TMP\_309 = 0 not(TMP\_309) = 1 TMP\_310 = 4 TMP\_311 = 0 not(TMP\_311) = 1 TMP\_312 = 0 not(TMP\_312) = 1 TMP\_313 = 0 TMP\_314 = 1 not(TMP\_314) = 0 TMP\_315 = 1 not(TMP\_315) = 0 TMP\_316 = 2 TMP\_317 = 0 not(TMP\_317) = 1 TMP\_318 = 0 not(TMP\_318) = 1 TMP\_319 = 1 not(TMP\_319) = 0 TMP\_320 = 1 not(TMP\_320) = 0 TMP\_321 = 1 not(TMP\_321) = 0 TMP\_322 = 2 TMP\_323 = 0 not(TMP\_323) = 1 TMP\_324 = 1 not(TMP\_324) = 0 TMP\_325 = 1 not(TMP\_325) = 0 TMP\_326 = 1 not(TMP\_326) = 0 TMP\_327 = 1 not(TMP\_327) = 0 TMP\_328 = 1 not(TMP\_328) = 0 TMP\_329 = 5 TMP\_330 = 0 not(TMP\_330) = 1 TMP\_331 = 0 not(TMP\_331) = 1 TMP\_332 = 0 TMP\_333 = 1 not(TMP\_333) = 0 TMP\_334 = 1 not(TMP\_334) = 0 TMP\_335 = 2 TMP\_336 = 0 not(TMP\_336) = 1 TMP\_337 = 0 not(TMP\_337) = 1 TMP\_338 = 1 not(TMP\_338) = 0 TMP\_339 = 1 not(TMP\_339) = 0 TMP\_340 = 1 not(TMP\_340) = 0 TMP\_341 = 2 TMP\_342 = 1 not(TMP\_342) = 0 TMP\_343 = 1 not(TMP\_343) = 0 TMP\_344 = 1 not(TMP\_344) = 0 TMP\_345 = 1 not(TMP\_345) = 0 TMP\_346 = 1 not(TMP\_346) = 0 TMP\_347 = 0 not(TMP\_347) = 1 TMP\_348 = 5 TMP\_349 = 0 not(TMP\_349) = 1 TMP\_350 = 0 not(TMP\_350) = 1 TMP\_351 = 0 TMP\_352 = 1 not(TMP\_352) = 0 TMP\_353 = 1 not(TMP\_353) = 0 TMP\_354 = 2 TMP\_355 = 0 not(TMP\_355) = 1 TMP\_356 = 0 not(TMP\_356) = 1 TMP\_357 = 1 not(TMP\_357) = 0 TMP\_358 = 1 not(TMP\_358) = 0 TMP\_359 = 1 not(TMP\_359) = 0 TMP\_360 = 2 TMP\_361 = 0 not(TMP\_361) = 1 TMP\_362 = 1 not(TMP\_362) = 0 TMP\_363 = 1 not(TMP\_363) = 0 TMP\_364 = 1 not(TMP\_364) = 0 TMP\_365 = 1 not(TMP\_365) = 0 TMP\_366 = 1 not(TMP\_366) = 0 TMP\_367 = 5 TMP\_368 = 0 not(TMP\_368) = 1 TMP\_369 = 0 not(TMP\_369) = 1 TMP\_370 = 0 TMP\_371 = 1 not(TMP\_371) = 0 TMP\_372 = 1 not(TMP\_372) = 0 TMP\_373 = 2 TMP\_374 = 0 not(TMP\_374) = 1 TMP\_375 = 0 not(TMP\_375) = 1 TMP\_376 = 1 not(TMP\_376) = 0 TMP\_377 = 1 not(TMP\_377) = 0 TMP\_378 = 1 not(TMP\_378) = 0 TMP\_379 = 2 TMP\_380 = 0 not(TMP\_380) = 1 TMP\_381 = 1 not(TMP\_381) = 0 TMP\_382 = 1 not(TMP\_382) = 0 TMP\_383 = 1 not(TMP\_383) = 0 TMP\_384 = 1 not(TMP\_384) = 0 TMP\_385 = 0 not(TMP\_385) = 1 TMP\_386 = 4 TMP\_387 = 0 not(TMP\_387) = 1 TMP\_388 = 0 not(TMP\_388) = 1 TMP\_389 = 0 TMP\_390 = 1 not(TMP\_390) = 0 TMP\_391 = 1 not(TMP\_391) = 0 TMP\_392 = 2 TMP\_393 = 0 not(TMP\_393) = 1 TMP\_394 = 0 not(TMP\_394) = 1 TMP\_395 = 1 not(TMP\_395) = 0 TMP\_396 = 1 not(TMP\_396) = 0 TMP\_397 = 1 not(TMP\_397) = 0 TMP\_398 = 2 TMP\_399 = 1 not(TMP\_399) = 0 TMP\_400 = 1 not(TMP\_400) = 0 TMP\_401 = 1 not(TMP\_401) = 0 TMP\_402 = 0 not(TMP\_402) = 1 TMP\_403 = 1 not(TMP\_403) = 0 TMP\_404 = 1 not(TMP\_404) = 0 TMP\_405 = 5 TMP\_406 = 0 not(TMP\_406) = 1 TMP\_407 = 0 not(TMP\_407) = 1 TMP\_408 = 0 TMP\_409 = 1 not(TMP\_409) = 0 TMP\_410 = 1 not(TMP\_410) = 0 TMP\_411 = 2 TMP\_412 = 0 not(TMP\_412) = 1 TMP\_413 = 0 not(TMP\_413) = 1 TMP\_414 = 1 not(TMP\_414) = 0 TMP\_415 = 1 not(TMP\_415) = 0 TMP\_416 = 1 not(TMP\_416) = 0 TMP\_417 = 2 TMP\_418 = 0 not(TMP\_418) = 1 TMP\_419 = 1 not(TMP\_419) = 0 TMP\_420 = 1 not(TMP\_420) = 0 TMP\_421 = 1 not(TMP\_421) = 0 TMP\_422 = 1 not(TMP\_422) = 0 TMP\_423 = 0 not(TMP\_423) = 1 TMP\_424 = 4 TMP\_425 = 0 not(TMP\_425) = 1 TMP\_426 = 0 not(TMP\_426) = 1 TMP\_427 = 0 TMP\_428 = 1 not(TMP\_428) = 0 TMP\_429 = 1 not(TMP\_429) = 0 TMP\_430 = 2 TMP\_431 = 0 not(TMP\_431) = 1 TMP\_432 = 0 not(TMP\_432) = 1 TMP\_433 = 1 not(TMP\_433) = 0 TMP\_434 = 1 not(TMP\_434) = 0 TMP\_435 = 1 not(TMP\_435) = 0 TMP\_436 = 2 TMP\_437 = 1 not(TMP\_437) = 0 TMP\_438 = 0 not(TMP\_438) = 1 TMP\_439 = 1 not(TMP\_439) = 0 TMP\_440 = 1 not(TMP\_440) = 0 TMP\_441 = 1 not(TMP\_441) = 0 TMP\_442 = 0 not(TMP\_442) = 1 TMP\_443 = 4 TMP\_444 = 0 not(TMP\_444) = 1 TMP\_445 = 0 not(TMP\_445) = 1 TMP\_446 = 0 TMP\_447 = 1 not(TMP\_447) = 0 TMP\_448 = 1 not(TMP\_448) = 0 TMP\_449 = 2 TMP\_450 = 0 not(TMP\_450) = 1 TMP\_451 = 0 not(TMP\_451) = 1 TMP\_452 = 1 not(TMP\_452) = 0 TMP\_453 = 1 not(TMP\_453) = 0 TMP\_454 = 1 not(TMP\_454) = 0 TMP\_455 = 2 TMP\_456 = 1 not(TMP\_456) = 0 TMP\_457 = 0 not(TMP\_457) = 1 TMP\_458 = 1 not(TMP\_458) = 0 TMP\_459 = 1 not(TMP\_459) = 0 TMP\_460 = 1 not(TMP\_460) = 0 TMP\_461 = 1 not(TMP\_461) = 0 TMP\_462 = 5 TMP\_463 = 0 not(TMP\_463) = 1 TMP\_464 = 0 not(TMP\_464) = 1 TMP\_465 = 0 TMP\_466 = 1 not(TMP\_466) = 0 TMP\_467 = 1 not(TMP\_467) = 0 TMP\_468 = 2 TMP\_469 = 0 not(TMP\_469) = 1 TMP\_470 = 0 not(TMP\_470) = 1 TMP\_471 = 1 not(TMP\_471) = 0 TMP\_472 = 1 not(TMP\_472) = 0 TMP\_473 = 1 not(TMP\_473) = 0 TMP\_474 = 2 TMP\_475 = 1 not(TMP\_475) = 0 TMP\_476 = 0 not(TMP\_476) = 1 TMP\_477 = 1 not(TMP\_477) = 0 TMP\_478 = 1 not(TMP\_478) = 0 TMP\_479 = 1 not(TMP\_479) = 0 TMP\_480 = 1 not(TMP\_480) = 0 TMP\_481 = 5 TMP\_482 = 0 not(TMP\_482) = 1 TMP\_483 = 0 not(TMP\_483) = 1 TMP\_484 = 0 TMP\_485 = 1 not(TMP\_485) = 0 TMP\_486 = 1 not(TMP\_486) = 0 TMP\_487 = 2 TMP\_488 = 0 not(TMP\_488) = 1 TMP\_489 = 0 not(TMP\_489) = 1 TMP\_490 = 1 not(TMP\_490) = 0 TMP\_491 = 1 not(TMP\_491) = 0 TMP\_492 = 1 not(TMP\_492) = 0 TMP\_493 = 2 TMP\_494 = 1 not(TMP\_494) = 0 TMP\_495 = 0 not(TMP\_495) = 1 TMP\_496 = 1 not(TMP\_496) = 0 TMP\_497 = 1 not(TMP\_497) = 0 TMP\_498 = 1 not(TMP\_498) = 0 TMP\_499 = 1 not(TMP\_499) = 0 TMP\_500 = 5 TMP\_501 = 0 not(TMP\_501) = 1 TMP\_502 = 0 not(TMP\_502) = 1 TMP\_503 = 0 TMP\_504 = 1 not(TMP\_504) = 0 TMP\_505 = 1 not(TMP\_505) = 0 TMP\_506 = 2 TMP\_507 = 0 not(TMP\_507) = 1 TMP\_508 = 0 not(TMP\_508) = 1 TMP\_509 = 1 not(TMP\_509) = 0 TMP\_510 = 1 not(TMP\_510) = 0 TMP\_511 = 1 not(TMP\_511) = 0 TMP\_512 = 2 TMP\_513 = 1 not(TMP\_513) = 0 TMP\_514 = 0 not(TMP\_514) = 1 TMP\_515 = 1 not(TMP\_515) = 0 TMP\_516 = 1 not(TMP\_516) = 0 TMP\_517 = 1 not(TMP\_517) = 0 TMP\_518 = 0 not(TMP\_518) = 1 TMP\_519 = 4 TMP\_520 = 0 not(TMP\_520) = 1 TMP\_521 = 0 not(TMP\_521) = 1 TMP\_522 = 0 TMP\_523 = 1 not(TMP\_523) = 0 TMP\_524 = 1 not(TMP\_524) = 0 TMP\_525 = 2 TMP\_526 = 0 not(TMP\_526) = 1 TMP\_527 = 0 not(TMP\_527) = 1 TMP\_528 = 1 not(TMP\_528) = 0 TMP\_529 = 1 not(TMP\_529) = 0 TMP\_530 = 1 not(TMP\_530) = 0 TMP\_531 = 2 TMP\_532 = 0 not(TMP\_532) = 1 TMP\_533 = 1 not(TMP\_533) = 0 TMP\_534 = 1 not(TMP\_534) = 0 TMP\_535 = 1 not(TMP\_535) = 0 TMP\_536 = 1 not(TMP\_536) = 0 TMP\_537 = 1 not(TMP\_537) = 0 TMP\_538 = 5 TMP\_539 = 0 not(TMP\_539) = 1 TMP\_540 = 0 not(TMP\_540) = 1 TMP\_541 = 0 TMP\_542 = 1 not(TMP\_542) = 0 TMP\_543 = 1 not(TMP\_543) = 0 TMP\_544 = 2 TMP\_545 = 0 not(TMP\_545) = 1 TMP\_546 = 0 not(TMP\_546) = 1 TMP\_547 = 1 not(TMP\_547) = 0 TMP\_548 = 1 not(TMP\_548) = 0 TMP\_549 = 1 not(TMP\_549) = 0 TMP\_550 = 2 TMP\_551 = 1 not(TMP\_551) = 0 TMP\_552 = 0 not(TMP\_552) = 1 TMP\_553 = 1 not(TMP\_553) = 0 TMP\_554 = 1 not(TMP\_554) = 0 TMP\_555 = 1 not(TMP\_555) = 0 TMP\_556 = 0 not(TMP\_556) = 1 TMP\_557 = 4 TMP\_558 = 0 not(TMP\_558) = 1 TMP\_559 = 0 not(TMP\_559) = 1 TMP\_560 = 0 TMP\_561 = 1 not(TMP\_561) = 0 TMP\_562 = 1 not(TMP\_562) = 0 TMP\_563 = 2 TMP\_564 = 0 not(TMP\_564) = 1 TMP\_565 = 0 not(TMP\_565) = 1 TMP\_566 = 1 not(TMP\_566) = 0 TMP\_567 = 1 not(TMP\_567) = 0 TMP\_568 = 1 not(TMP\_568) = 0 TMP\_569 = 2 TMP\_570 = 1 not(TMP\_570) = 0 TMP\_571 = 0 not(TMP\_571) = 1 TMP\_572 = 1 not(TMP\_572) = 0 TMP\_573 = 1 not(TMP\_573) = 0 TMP\_574 = 1 not(TMP\_574) = 0 TMP\_575 = 1 not(TMP\_575) = 0 TMP\_576 = 5 TMP\_577 = 0 not(TMP\_577) = 1 TMP\_578 = 0 not(TMP\_578) = 1 TMP\_579 = 0 TMP\_580 = 1 not(TMP\_580) = 0 TMP\_581 = 1 not(TMP\_581) = 0 TMP\_582 = 2 TMP\_583 = 0 not(TMP\_583) = 1 TMP\_584 = 0 not(TMP\_584) = 1 TMP\_585 = 1 not(TMP\_585) = 0 TMP\_586 = 1 not(TMP\_586) = 0 TMP\_587 = 1 not(TMP\_587) = 0 TMP\_588 = 2 TMP\_589 = 1 not(TMP\_589) = 0 TMP\_590 = 1 not(TMP\_590) = 0 TMP\_591 = 1 not(TMP\_591) = 0 TMP\_592 = 1 not(TMP\_592) = 0 TMP\_593 = 1 not(TMP\_593) = 0 TMP\_594 = 0 not(TMP\_594) = 1 TMP\_595 = 5 TMP\_596 = 0 not(TMP\_596) = 1 TMP\_597 = 0 not(TMP\_597) = 1 TMP\_598 = 0 TMP\_599 = 1 not(TMP\_599) = 0 TMP\_600 = 1 not(TMP\_600) = 0 TMP\_601 = 2 TMP\_602 = 0 not(TMP\_602) = 1 TMP\_603 = 0 not(TMP\_603) = 1 TMP\_604 = 1 not(TMP\_604) = 0 TMP\_605 = 1 not(TMP\_605) = 0 TMP\_606 = 1 not(TMP\_606) = 0 TMP\_607 = 2 TMP\_608 = 1 not(TMP\_608) = 0 TMP\_609 = 0 not(TMP\_609) = 1 TMP\_610 = 1 not(TMP\_610) = 0 TMP\_611 = 1 not(TMP\_611) = 0 TMP\_612 = 1 not(TMP\_612) = 0 TMP\_613 = 1 not(TMP\_613) = 0 TMP\_614 = 5 TMP\_615 = 0 not(TMP\_615) = 1 TMP\_616 = 0 not(TMP\_616) = 1 TMP\_617 = 0 TMP\_618 = 1 not(TMP\_618) = 0 TMP\_619 = 1 not(TMP\_619) = 0 TMP\_620 = 2 TMP\_621 = 0 not(TMP\_621) = 1 TMP\_622 = 0 not(TMP\_622) = 1 TMP\_623 = 1 not(TMP\_623) = 0 TMP\_624 = 1 not(TMP\_624) = 0 TMP\_625 = 1 not(TMP\_625) = 0 TMP\_626 = 2 TMP\_627 = 0 not(TMP\_627) = 1 TMP\_628 = 1 not(TMP\_628) = 0 TMP\_629 = 1 not(TMP\_629) = 0 TMP\_630 = 1 not(TMP\_630) = 0 TMP\_631 = 1 not(TMP\_631) = 0 TMP\_632 = 1 not(TMP\_632) = 0 TMP\_633 = 5 TMP\_634 = 0 not(TMP\_634) = 1 TMP\_635 = 0 not(TMP\_635) = 1 TMP\_636 = 0 TMP\_637 = 1 not(TMP\_637) = 0 TMP\_638 = 1 not(TMP\_638) = 0 TMP\_639 = 2 TMP\_640 = 0 not(TMP\_640) = 1 TMP\_641 = 0 not(TMP\_641) = 1 TMP\_642 = 1 not(TMP\_642) = 0 TMP\_643 = 1 not(TMP\_643) = 0 TMP\_644 = 1 not(TMP\_644) = 0 TMP\_645 = 2 TMP\_646 = 1 not(TMP\_646) = 0 TMP\_647 = 0 not(TMP\_647) = 1 TMP\_648 = 1 not(TMP\_648) = 0 TMP\_649 = 1 not(TMP\_649) = 0 TMP\_650 = 1 not(TMP\_650) = 0 TMP\_651 = 1 not(TMP\_651) = 0 TMP\_652 = 5 TMP\_653 = 0 not(TMP\_653) = 1 TMP\_654 = 0 not(TMP\_654) = 1 TMP\_655 = 0 TMP\_656 = 1 not(TMP\_656) = 0 TMP\_657 = 1 not(TMP\_657) = 0 TMP\_658 = 2 TMP\_659 = 0 not(TMP\_659) = 1 TMP\_660 = 0 not(TMP\_660) = 1 TMP\_661 = 1 not(TMP\_661) = 0 TMP\_662 = 1 not(TMP\_662) = 0 TMP\_663 = 1 not(TMP\_663) = 0 TMP\_664 = 2 TMP\_665 = 1 not(TMP\_665) = 0 TMP\_666 = 0 not(TMP\_666) = 1 TMP\_667 = 1 not(TMP\_667) = 0 TMP\_668 = 1 not(TMP\_668) = 0 TMP\_669 = 0 not(TMP\_669) = 1 TMP\_670 = 1 not(TMP\_670) = 0 TMP\_671 = 4 TMP\_672 = 0 not(TMP\_672) = 1 TMP\_673 = 0 not(TMP\_673) = 1 TMP\_674 = 0 TMP\_675 = 1 not(TMP\_675) = 0 TMP\_676 = 1 not(TMP\_676) = 0 TMP\_677 = 2 TMP\_678 = 0 not(TMP\_678) = 1 TMP\_679 = 0 not(TMP\_679) = 1 TMP\_680 = 1 not(TMP\_680) = 0 TMP\_681 = 1 not(TMP\_681) = 0 TMP\_682 = 1 not(TMP\_682) = 0 TMP\_683 = 2 TMP\_684 = 1 not(TMP\_684) = 0 TMP\_685 = 0 not(TMP\_685) = 1 TMP\_686 = 1 not(TMP\_686) = 0 TMP\_687 = 1 not(TMP\_687) = 0 TMP\_688 = 0 not(TMP\_688) = 1 TMP\_689 = 1 not(TMP\_689) = 0 TMP\_690 = 4 TMP\_691 = 0 not(TMP\_691) = 1 TMP\_692 = 0 not(TMP\_692) = 1 TMP\_693 = 0 TMP\_694 = 1 not(TMP\_694) = 0 TMP\_695 = 1 not(TMP\_695) = 0 TMP\_696 = 2 TMP\_697 = 0 not(TMP\_697) = 1 TMP\_698 = 0 not(TMP\_698) = 1 TMP\_699 = 1 not(TMP\_699) = 0 TMP\_700 = 1 not(TMP\_700) = 0 TMP\_701 = 1 not(TMP\_701) = 0 TMP\_702 = 2 TMP\_703 = 1 not(TMP\_703) = 0 TMP\_704 = 0 not(TMP\_704) = 1 TMP\_705 = 1 not(TMP\_705) = 0 TMP\_706 = 1 not(TMP\_706) = 0 TMP\_707 = 0 not(TMP\_707) = 1 TMP\_708 = 1 not(TMP\_708) = 0 TMP\_709 = 4 TMP\_710 = 0 not(TMP\_710) = 1 TMP\_711 = 0 not(TMP\_711) = 1 TMP\_712 = 0 TMP\_713 = 1 not(TMP\_713) = 0 TMP\_714 = 1 not(TMP\_714) = 0 TMP\_715 = 2 TMP\_716 = 0 not(TMP\_716) = 1 TMP\_717 = 0 not(TMP\_717) = 1 TMP\_718 = 1 not(TMP\_718) = 0 TMP\_719 = 1 not(TMP\_719) = 0 TMP\_720 = 1 not(TMP\_720) = 0 TMP\_721 = 2 TMP\_722 = 1 not(TMP\_722) = 0 TMP\_723 = 0 not(TMP\_723) = 1 TMP\_724 = 1 not(TMP\_724) = 0 TMP\_725 = 1 not(TMP\_725) = 0 TMP\_726 = 1 not(TMP\_726) = 0 TMP\_727 = 1 not(TMP\_727) = 0 TMP\_728 = 5 TMP\_729 = 0 not(TMP\_729) = 1 TMP\_730 = 0 not(TMP\_730) = 1 TMP\_731 = 0 TMP\_732 = 1 not(TMP\_732) = 0 TMP\_733 = 1 not(TMP\_733) = 0 TMP\_734 = 2 TMP\_735 = 0 not(TMP\_735) = 1 TMP\_736 = 0 not(TMP\_736) = 1 TMP\_737 = 1 not(TMP\_737) = 0 TMP\_738 = 1 not(TMP\_738) = 0 TMP\_739 = 1 not(TMP\_739) = 0 TMP\_740 = 2 TMP\_741 = 0 not(TMP\_741) = 1 TMP\_742 = 1 not(TMP\_742) = 0 TMP\_743 = 1 not(TMP\_743) = 0 TMP\_744 = 1 not(TMP\_744) = 0 TMP\_745 = 0 not(TMP\_745) = 1 TMP\_746 = 1 not(TMP\_746) = 0 TMP\_747 = 4 TMP\_748 = 0 not(TMP\_748) = 1 TMP\_749 = 0 not(TMP\_749) = 1 TMP\_750 = 0 TMP\_751 = 1 not(TMP\_751) = 0 TMP\_752 = 1 not(TMP\_752) = 0 TMP\_753 = 2 TMP\_754 = 0 not(TMP\_754) = 1 TMP\_755 = 0 not(TMP\_755) = 1 TMP\_756 = 1 not(TMP\_756) = 0 TMP\_757 = 1 not(TMP\_757) = 0 TMP\_758 = 1 not(TMP\_758) = 0 TMP\_759 = 2 TMP\_760 = 1 not(TMP\_760) = 0 TMP\_761 = 0 not(TMP\_761) = 1 TMP\_762 = 1 not(TMP\_762) = 0 TMP\_763 = 1 not(TMP\_763) = 0 TMP\_764 = 1 not(TMP\_764) = 0 TMP\_765 = 1 not(TMP\_765) = 0 TMP\_766 = 5 TMP\_767 = 0 not(TMP\_767) = 1 TMP\_768 = 0 not(TMP\_768) = 1 TMP\_769 = 0 TMP\_770 = 1 not(TMP\_770) = 0 TMP\_771 = 1 not(TMP\_771) = 0 TMP\_772 = 2 TMP\_773 = 0 not(TMP\_773) = 1 TMP\_774 = 0 not(TMP\_774) = 1 TMP\_775 = 1 not(TMP\_775) = 0 TMP\_776 = 1 not(TMP\_776) = 0 TMP\_777 = 1 not(TMP\_777) = 0 TMP\_778 = 2 TMP\_779 = 1 not(TMP\_779) = 0 TMP\_780 = 0 not(TMP\_780) = 1 TMP\_781 = 1 not(TMP\_781) = 0 TMP\_782 = 1 not(TMP\_782) = 0 TMP\_783 = 0 not(TMP\_783) = 1 TMP\_784 = 1 not(TMP\_784) = 0 TMP\_785 = 4 TMP\_786 = 0 not(TMP\_786) = 1 TMP\_787 = 0 not(TMP\_787) = 1 TMP\_788 = 0 TMP\_789 = 1 not(TMP\_789) = 0 TMP\_790 = 1 not(TMP\_790) = 0 TMP\_791 = 2 TMP\_792 = 0 not(TMP\_792) = 1 TMP\_793 = 0 not(TMP\_793) = 1 TMP\_794 = 1 not(TMP\_794) = 0 TMP\_795 = 1 not(TMP\_795) = 0 TMP\_796 = 1 not(TMP\_796) = 0 TMP\_797 = 2 TMP\_798 = 1 not(TMP\_798) = 0 TMP\_799 = 1 not(TMP\_799) = 0 TMP\_800 = 1 not(TMP\_800) = 0 TMP\_801 = 1 not(TMP\_801) = 0 TMP\_802 = 0 not(TMP\_802) = 1 TMP\_803 = 1 not(TMP\_803) = 0 TMP\_804 = 5 TMP\_805 = 0 not(TMP\_805) = 1 TMP\_806 = 0 not(TMP\_806) = 1 TMP\_807 = 0 TMP\_808 = 1 not(TMP\_808) = 0 TMP\_809 = 1 not(TMP\_809) = 0 TMP\_810 = 2 TMP\_811 = 0 not(TMP\_811) = 1 TMP\_812 = 0 not(TMP\_812) = 1 TMP\_813 = 1 not(TMP\_813) = 0 TMP\_814 = 1 not(TMP\_814) = 0 TMP\_815 = 1 not(TMP\_815) = 0 TMP\_816 = 2 TMP\_817 = 1 not(TMP\_817) = 0 TMP\_818 = 0 not(TMP\_818) = 1 TMP\_819 = 1 not(TMP\_819) = 0 TMP\_820 = 1 not(TMP\_820) = 0 TMP\_821 = 0 not(TMP\_821) = 1 TMP\_822 = 1 not(TMP\_822) = 0 TMP\_823 = 4 TMP\_824 = 0 not(TMP\_824) = 1 TMP\_825 = 0 not(TMP\_825) = 1 TMP\_826 = 0 TMP\_827 = 1 not(TMP\_827) = 0 TMP\_828 = 1 not(TMP\_828) = 0 TMP\_829 = 2 TMP\_830 = 0 not(TMP\_830) = 1 TMP\_831 = 0 not(TMP\_831) = 1 TMP\_832 = 1 not(TMP\_832) = 0 TMP\_833 = 1 not(TMP\_833) = 0 TMP\_834 = 1 not(TMP\_834) = 0 TMP\_835 = 2 TMP\_836 = 0 not(TMP\_836) = 1 TMP\_837 = 1 not(TMP\_837) = 0 TMP\_838 = 1 not(TMP\_838) = 0 TMP\_839 = 1 not(TMP\_839) = 0 TMP\_840 = 1 not(TMP\_840) = 0 TMP\_841 = 0 not(TMP\_841) = 1 TMP\_842 = 4 TMP\_843 = 0 not(TMP\_843) = 1 TMP\_844 = 0 not(TMP\_844) = 1 TMP\_845 = 0 TMP\_846 = 1 not(TMP\_846) = 0 TMP\_847 = 1 not(TMP\_847) = 0 TMP\_848 = 2 TMP\_849 = 0 not(TMP\_849) = 1 TMP\_850 = 0 not(TMP\_850) = 1 TMP\_851 = 1 not(TMP\_851) = 0 TMP\_852 = 1 not(TMP\_852) = 0 TMP\_853 = 1 not(TMP\_853) = 0 TMP\_854 = 2 TMP\_855 = 0 not(TMP\_855) = 1 TMP\_856 = 1 not(TMP\_856) = 0 TMP\_857 = 1 not(TMP\_857) = 0 TMP\_858 = 1 not(TMP\_858) = 0 TMP\_859 = 1 not(TMP\_859) = 0 TMP\_860 = 0 not(TMP\_860) = 1 TMP\_861 = 4 TMP\_862 = 0 not(TMP\_862) = 1 TMP\_863 = 0 not(TMP\_863) = 1 TMP\_864 = 0 TMP\_865 = 1 not(TMP\_865) = 0 TMP\_866 = 1 not(TMP\_866) = 0 TMP\_867 = 2 TMP\_868 = 0 not(TMP\_868) = 1 TMP\_869 = 0 not(TMP\_869) = 1 TMP\_870 = 1 not(TMP\_870) = 0 TMP\_871 = 1 not(TMP\_871) = 0 TMP\_872 = 1 not(TMP\_872) = 0 TMP\_873 = 2 TMP\_874 = 0 not(TMP\_874) = 1 TMP\_875 = 1 not(TMP\_875) = 0 TMP\_876 = 1 not(TMP\_876) = 0 TMP\_877 = 1 not(TMP\_877) = 0 TMP\_878 = 1 not(TMP\_878) = 0 TMP\_879 = 1 not(TMP\_879) = 0 TMP\_880 = 5 TMP\_881 = 0 not(TMP\_881) = 1 TMP\_882 = 0 not(TMP\_882) = 1 TMP\_883 = 0 TMP\_884 = 1 not(TMP\_884) = 0 TMP\_885 = 1 not(TMP\_885) = 0 TMP\_886 = 2 TMP\_887 = 0 not(TMP\_887) = 1 TMP\_888 = 0 not(TMP\_888) = 1 TMP\_889 = 1 not(TMP\_889) = 0 TMP\_890 = 1 not(TMP\_890) = 0 TMP\_891 = 1 not(TMP\_891) = 0 TMP\_892 = 2 TMP\_893 = 0 not(TMP\_893) = 1 TMP\_894 = 1 not(TMP\_894) = 0 TMP\_895 = 0 not(TMP\_895) = 1 TMP\_896 = 1 not(TMP\_896) = 0 TMP\_897 = 1 not(TMP\_897) = 0 TMP\_898 = 1 not(TMP\_898) = 0 TMP\_899 = 4 TMP\_900 = 0 not(TMP\_900) = 1 TMP\_901 = 0 not(TMP\_901) = 1 TMP\_902 = 0 TMP\_903 = 1 not(TMP\_903) = 0 TMP\_904 = 1 not(TMP\_904) = 0 TMP\_905 = 2 TMP\_906 = 0 not(TMP\_906) = 1 TMP\_907 = 0 not(TMP\_907) = 1 TMP\_908 = 1 not(TMP\_908) = 0 TMP\_909 = 1 not(TMP\_909) = 0 TMP\_910 = 1 not(TMP\_910) = 0 TMP\_911 = 2 TMP\_912 = 1 not(TMP\_912) = 0 TMP\_913 = 0 not(TMP\_913) = 1 TMP\_914 = 1 not(TMP\_914) = 0 TMP\_915 = 1 not(TMP\_915) = 0 TMP\_916 = 1 not(TMP\_916) = 0 TMP\_917 = 1 not(TMP\_917) = 0 TMP\_918 = 5 TMP\_919 = 0 not(TMP\_919) = 1 TMP\_920 = 0 not(TMP\_920) = 1 TMP\_921 = 0 TMP\_922 = 1 not(TMP\_922) = 0 TMP\_923 = 1 not(TMP\_923) = 0 TMP\_924 = 2 TMP\_925 = 0 not(TMP\_925) = 1 TMP\_926 = 0 not(TMP\_926) = 1 TMP\_927 = 1 not(TMP\_927) = 0 TMP\_928 = 1 not(TMP\_928) = 0 TMP\_929 = 1 not(TMP\_929) = 0 TMP\_930 = 2 TMP\_931 = 1 not(TMP\_931) = 0 TMP\_932 = 0 not(TMP\_932) = 1 TMP\_933 = 1 not(TMP\_933) = 0 TMP\_934 = 1 not(TMP\_934) = 0 TMP\_935 = 1 not(TMP\_935) = 0 TMP\_936 = 0 not(TMP\_936) = 1 TMP\_937 = 4 TMP\_938 = 0 not(TMP\_938) = 1 TMP\_939 = 0 not(TMP\_939) = 1 TMP\_940 = 0 TMP\_941 = 1 not(TMP\_941) = 0 TMP\_942 = 1 not(TMP\_942) = 0 TMP\_943 = 2 TMP\_944 = 0 not(TMP\_944) = 1 TMP\_945 = 0 not(TMP\_945) = 1 TMP\_946 = 1 not(TMP\_946) = 0 TMP\_947 = 1 not(TMP\_947) = 0 TMP\_948 = 1 not(TMP\_948) = 0 TMP\_949 = 2 TMP\_950 = 0 not(TMP\_950) = 1 TMP\_951 = 1 not(TMP\_951) = 0 TMP\_952 = 1 not(TMP\_952) = 0 TMP\_953 = 1 not(TMP\_953) = 0 TMP\_954 = 1 not(TMP\_954) = 0 TMP\_955 = 1 not(TMP\_955) = 0 TMP\_956 = 5 TMP\_957 = 0 not(TMP\_957) = 1 TMP\_958 = 0 not(TMP\_958) = 1 TMP\_959 = 0 TMP\_960 = 1 not(TMP\_960) = 0 TMP\_961 = 1 not(TMP\_961) = 0 TMP\_962 = 2 TMP\_963 = 0 not(TMP\_963) = 1 TMP\_964 = 0 not(TMP\_964) = 1 TMP\_965 = 1 not(TMP\_965) = 0 TMP\_966 = 1 not(TMP\_966) = 0 TMP\_967 = 1 not(TMP\_967) = 0 TMP\_968 = 2 TMP\_969 = 1 not(TMP\_969) = 0 TMP\_970 = 1 not(TMP\_970) = 0 TMP\_971 = 1 not(TMP\_971) = 0 TMP\_972 = 1 not(TMP\_972) = 0 TMP\_973 = 1 not(TMP\_973) = 0 TMP\_974 = 0 not(TMP\_974) = 1 TMP\_975 = 5 TMP\_976 = 0 not(TMP\_976) = 1 TMP\_977 = 0 not(TMP\_977) = 1 TMP\_978 = 0 TMP\_979 = 1 not(TMP\_979) = 0 TMP\_980 = 1 not(TMP\_980) = 0 TMP\_981 = 2 TMP\_982 = 0 not(TMP\_982) = 1 TMP\_983 = 0 not(TMP\_983) = 1 TMP\_984 = 1 not(TMP\_984) = 0 TMP\_985 = 1 not(TMP\_985) = 0 TMP\_986 = 1 not(TMP\_986) = 0 TMP\_987 = 2 TMP\_988 = 1 not(TMP\_988) = 0 TMP\_989 = 1 not(TMP\_989) = 0 TMP\_990 = 0 not(TMP\_990) = 1 TMP\_991 = 1 not(TMP\_991) = 0 TMP\_992 = 1 not(TMP\_992) = 0 TMP\_993 = 1 not(TMP\_993) = 0 TMP\_994 = 5 TMP\_995 = 0 not(TMP\_995) = 1 TMP\_996 = 0 not(TMP\_996) = 1 TMP\_997 = 0 TMP\_998 = 1 not(TMP\_998) = 0 TMP\_999 = 1 not(TMP\_999) = 0 TMP\_1000 = 2 TMP\_1001 = 0 not(TMP\_1001) = 1 TMP\_1002 = 0 not(TMP\_1002) = 1 TMP\_1003 = 1 not(TMP\_1003) = 0 TMP\_1004 = 1 not(TMP\_1004) = 0 TMP\_1005 = 1 not(TMP\_1005) = 0 TMP\_1006 = 2 TMP\_1007 = 0 not(TMP\_1007) = 1 TMP\_1008 = 1 not(TMP\_1008) = 0 TMP\_1009 = 1 not(TMP\_1009) = 0 TMP\_1010 = 1 not(TMP\_1010) = 0 TMP\_1011 = 1 not(TMP\_1011) = 0 TMP\_1012 = 1 not(TMP\_1012) = 0 TMP\_1013 = 5 TMP\_1014 = 0 not(TMP\_1014) = 1 TMP\_1015 = 0 not(TMP\_1015) = 1 TMP\_1016 = 0 TMP\_1017 = 1 not(TMP\_1017) = 0 TMP\_1018 = 1 not(TMP\_1018) = 0 TMP\_1019 = 2 TMP\_1020 = 0 not(TMP\_1020) = 1 TMP\_1021 = 0 not(TMP\_1021) = 1 TMP\_1022 = 1 not(TMP\_1022) = 0 TMP\_1023 = 1 not(TMP\_1023) = 0 TMP\_1024 = 1 not(TMP\_1024) = 0 TMP\_1025 = 2 TMP\_1026 = 0 not(TMP\_1026) = 1 TMP\_1027 = 1 not(TMP\_1027) = 0 TMP\_1028 = 1 not(TMP\_1028) = 0 TMP\_1029 = 1 not(TMP\_1029) = 0 TMP\_1030 = 1 not(TMP\_1030) = 0 TMP\_1031 = 0 not(TMP\_1031) = 1 TMP\_1032 = 4 TMP\_1033 = 0 not(TMP\_1033) = 1 TMP\_1034 = 0 not(TMP\_1034) = 1 TMP\_1035 = 0 TMP\_1036 = 1 not(TMP\_1036) = 0 TMP\_1037 = 1 not(TMP\_1037) = 0 TMP\_1038 = 2 TMP\_1039 = 0 not(TMP\_1039) = 1 TMP\_1040 = 0 not(TMP\_1040) = 1 TMP\_1041 = 1 not(TMP\_1041) = 0 TMP\_1042 = 1 not(TMP\_1042) = 0 TMP\_1043 = 1 not(TMP\_1043) = 0 TMP\_1044 = 2 Area\_0 = 60 Distance\_0\_Rule\_0 = 20 Distance\_1\_Rule\_0 = 3 Distance\_2\_Rule\_0 = 1 Area\_1 = 174 Distance\_0\_Rule\_1 = 58 Distance\_1\_Rule\_1 = 3 Distance\_2\_Rule\_1 = 1 Area\_2 = 116 Distance\_0\_Rule\_2 = 58 Distance\_1\_Rule\_2 = 2 Distance\_2\_Rule\_2 = 1 Area\_3 = 58 Distance\_0\_Rule\_3 = 58 Distance\_1\_Rule\_3 = 1 Distance\_2\_Rule\_3 = 1 Area\_4 = 120 Distance\_0\_Rule\_4 = 40 Distance\_1\_Rule\_4 = 3 Distance\_2\_Rule\_4 = 1 Area\_5 = 120 Distance\_0\_Rule\_5 = 40 Distance\_1\_Rule\_5 = 3 Distance\_2\_Rule\_5 = 1 Area\_6 = 60 Distance\_0\_Rule\_6 = 20 Distance\_1\_Rule\_6 = 3 Distance\_2\_Rule\_6 = 1 Area\_7 = 3 -(Rule\_7\_LB) = -79 Distance\_0\_Rule\_7 = 1 -(Rule\_7\_LB) = 0 Distance\_1\_Rule\_7 = 3 -(Rule\_7\_LB) = -1 Distance\_2\_Rule\_7 = 1 Area\_8 = 1 -(Rule\_8\_LB) = -79 Distance\_0\_Rule\_8 = 1 -(Rule\_8\_LB) = 0 Distance\_1\_Rule\_8 = 1 -(Rule\_8\_LB) = 0 Distance\_2\_Rule\_8 = 1 Area\_9 = 3 -(Rule\_9\_LB) = -20 Distance\_0\_Rule\_9 = 1 -(Rule\_9\_LB) = 0 Distance\_1\_Rule\_9 = 3 -(Rule\_9\_LB) = 0 Distance\_2\_Rule\_9 = 1 Area\_10 = 3 -(Rule\_10\_LB) = -20 Distance\_0\_Rule\_10 = 1 -(Rule\_10\_LB) = 0 Distance\_1\_Rule\_10 = 3 -(Rule\_10\_LB) = -1 Distance\_2\_Rule\_10 = 1 Area\_11 = 2 -(Rule\_11\_LB) = -79 Distance\_0\_Rule\_11 = 1 -(Rule\_11\_LB) = -1 Distance\_1\_Rule\_11 = 2 -(Rule\_11\_LB) = 0 Distance\_2\_Rule\_11 = 1 TMP\_1045 = 720 .

- Solution #13 found. 13 Solutions, Resolution 1.389s, 1480 Nodes (1,065.7 n/s), 2822 Backtracks, 1405 Fails, 0 Restarts

Rule\_7\_LB = 79 Rule\_7\_UB = 80 Rule\_7\_LB = 0 Rule\_7\_UB = 3 Rule\_7\_LB = 1 Rule\_7\_UB = 2 Rule\_8\_LB = 79 Rule\_8\_UB = 80 Rule\_8\_LB = 0 Rule\_8\_UB = 1 Rule\_8\_LB = 0 Rule\_8\_UB = 1 Rule\_9\_LB = 20 Rule\_9\_UB = 21 Rule\_9\_LB = 0 Rule\_9\_UB = 3 Rule\_9\_LB = 0 Rule\_9\_UB = 1 Rule\_10\_LB = 20 Rule\_10\_UB = 21 Rule\_10\_LB = 0 Rule\_10\_UB = 3 Rule\_10\_LB = 1 Rule\_10\_UB = 2 Rule\_11\_LB = 79 Rule\_11\_UB = 80 Rule\_11\_LB = 1 Rule\_11\_UB = 3 Rule\_11\_LB = 0 Rule\_11\_UB = 1 Overlaps\_0\_0 = 0 Overlaps\_0\_1 = 0 Overlaps\_0\_2 = 0 Overlaps\_0\_3 = 0 Overlaps\_0\_4 = 0 Overlaps\_0\_5 = 0 Overlaps\_0\_6 = 0 Overlaps\_0\_7 = 0 Overlaps\_0\_8 = 0 Overlaps\_0\_9 = 0 Overlaps\_0\_10 = 0 Overlaps\_0\_11 = 0 Overlaps\_1\_0 = 0 Overlaps\_1\_1 = 0 Overlaps\_1\_2 = 1 Overlaps\_1\_3 = 0 Overlaps\_1\_4 = 0 Overlaps\_1\_5 = 0 Overlaps\_1\_6 = 0 Overlaps\_1\_7 = 0 Overlaps\_1\_8 = 0 Overlaps\_1\_9 = 0 Overlaps\_1\_10 = 0 Overlaps\_1\_11 = 0 Overlaps\_2\_0 = 0 Overlaps\_2\_1 = 0 Overlaps\_2\_2 = 0 Overlaps\_2\_3 = 0 Overlaps\_2\_4 = 0 Overlaps\_2\_5 = 0 Overlaps\_2\_6 = 0 Overlaps\_2\_7 = 0 Overlaps\_2\_8 = 0 Overlaps\_2\_9 = 0 Overlaps\_2\_10 = 0 Overlaps\_2\_11 = 0 Overlaps\_3\_0 = 0 Overlaps\_3\_1 = 0 Overlaps\_3\_2 = 0 Overlaps\_3\_3 = 0 Overlaps\_3\_4 = 0 Overlaps\_3\_5 = 0 Overlaps\_3\_6 = 0 Overlaps\_3\_7 = 0 Overlaps\_3\_8 = 0 Overlaps\_3\_9 = 0 Overlaps\_3\_10 = 0 Overlaps\_3\_11 = 0 Overlaps\_4\_0 = 0 Overlaps\_4\_1 = 0 Overlaps\_4\_2 = 0 Overlaps\_4\_3 = 0 Overlaps\_4\_4 = 0 Overlaps\_4\_5 = 1 Overlaps\_4\_6 = 0 Overlaps\_4\_7 = 0 Overlaps\_4\_8 = 0 Overlaps\_4\_9 = 0 Overlaps\_4\_10 = 0 Overlaps\_4\_11 = 0 Overlaps\_5\_0 = 0 Overlaps\_5\_1 = 0 Overlaps\_5\_2 = 0 Overlaps\_5\_3 = 0 Overlaps\_5\_4 = 0 Overlaps\_5\_5 = 0 Overlaps\_5\_6 = 0 Overlaps\_5\_7 = 0 Overlaps\_5\_8 = 0 Overlaps\_5\_9 = 0 Overlaps\_5\_10 = 0 Overlaps\_5\_11 = 0 Overlaps\_6\_0 = 0 Overlaps\_6\_1 = 0 Overlaps\_6\_2 = 0 Overlaps\_6\_3 = 0 Overlaps\_6\_4 = 0 Overlaps\_6\_5 = 0 Overlaps\_6\_6 = 0 Overlaps\_6\_7 = 0 Overlaps\_6\_8 = 0 Overlaps\_6\_9 = 0 Overlaps\_6\_10 = 0 Overlaps\_6\_11 = 0 Overlaps\_7\_0 = 0 Overlaps\_7\_1 = 0 Overlaps\_7\_2 = 0 Overlaps\_7\_3 = 0 Overlaps\_7\_4 = 0 Overlaps\_7\_5 = 0 Overlaps\_7\_6 = 0 Overlaps\_7\_7 = 0 Overlaps\_7\_8 = 0 Overlaps\_7\_9 = 0 Overlaps\_7\_10 = 0 Overlaps\_7\_11 = 0 Overlaps\_8\_0 = 0 Overlaps\_8\_1 = 0 Overlaps\_8\_2 = 0 Overlaps\_8\_3 = 0 Overlaps\_8\_4 = 0 Overlaps\_8\_5 = 0 Overlaps\_8\_6 = 0 Overlaps\_8\_7 = 0 Overlaps\_8\_8 = 0 Overlaps\_8\_9 = 0 Overlaps\_8\_10 = 0 Overlaps\_8\_11 = 0 Overlaps\_9\_0 = 0 Overlaps\_9\_1 = 0 Overlaps\_9\_2 = 0 Overlaps\_9\_3 = 0 Overlaps\_9\_4 = 0 Overlaps\_9\_5 = 0 Overlaps\_9\_6 = 0 Overlaps\_9\_7 = 0 Overlaps\_9\_8 = 0 Overlaps\_9\_9 = 0 Overlaps\_9\_10 = 0 Overlaps\_9\_11 = 0 Overlaps\_10\_0 = 0 Overlaps\_10\_1 = 0 Overlaps\_10\_2 = 0 Overlaps\_10\_3 = 0 Overlaps\_10\_4 = 0 Overlaps\_10\_5 = 0 Overlaps\_10\_6 = 0 Overlaps\_10\_7 = 0 Overlaps\_10\_8 = 0 Overlaps\_10\_9 = 0 Overlaps\_10\_10 = 0 Overlaps\_10\_11 = 0 Overlaps\_11\_0 = 0 Overlaps\_11\_1 = 0 Overlaps\_11\_2 = 0 Overlaps\_11\_3 = 0 Overlaps\_11\_4 = 0 Overlaps\_11\_5 = 0 Overlaps\_11\_6 = 0 Overlaps\_11\_7 = 0 Overlaps\_11\_8 = 0 Overlaps\_11\_9 = 0 Overlaps\_11\_10 = 0 Overlaps\_11\_11 = 0 TMP\_0 = 0 not(TMP\_0) = 1 TMP\_1 = 1 not(TMP\_1) = 0 TMP\_2 = 1 not(TMP\_2) = 0 TMP\_3 = 1 not(TMP\_3) = 0 TMP\_4 = 1 not(TMP\_4) = 0 TMP\_5 = 1 not(TMP\_5) = 0 TMP\_6 = 5 TMP\_7 = 0 not(TMP\_7) = 1 TMP\_8 = 0 not(TMP\_8) = 1 TMP\_9 = 0 TMP\_10 = 1 not(TMP\_10) = 0 TMP\_11 = 1 not(TMP\_11) = 0 TMP\_12 = 2 TMP\_13 = 0 not(TMP\_13) = 1 TMP\_14 = 0 not(TMP\_14) = 1 TMP\_15 = 1 not(TMP\_15) = 0 TMP\_16 = 1 not(TMP\_16) = 0 TMP\_17 = 1 not(TMP\_17) = 0 TMP\_18 = 2 TMP\_19 = 0 not(TMP\_19) = 1 TMP\_20 = 1 not(TMP\_20) = 0 TMP\_21 = 1 not(TMP\_21) = 0 TMP\_22 = 1 not(TMP\_22) = 0 TMP\_23 = 1 not(TMP\_23) = 0 TMP\_24 = 1 not(TMP\_24) = 0 TMP\_25 = 5 TMP\_26 = 0 not(TMP\_26) = 1 TMP\_27 = 0 not(TMP\_27) = 1 TMP\_28 = 0 TMP\_29 = 1 not(TMP\_29) = 0 TMP\_30 = 1 not(TMP\_30) = 0 TMP\_31 = 2 TMP\_32 = 0 not(TMP\_32) = 1 TMP\_33 = 0 not(TMP\_33) = 1 TMP\_34 = 1 not(TMP\_34) = 0 TMP\_35 = 1 not(TMP\_35) = 0 TMP\_36 = 1 not(TMP\_36) = 0 TMP\_37 = 2 TMP\_38 = 0 not(TMP\_38) = 1 TMP\_39 = 1 not(TMP\_39) = 0 TMP\_40 = 1 not(TMP\_40) = 0 TMP\_41 = 1 not(TMP\_41) = 0 TMP\_42 = 0 not(TMP\_42) = 1 TMP\_43 = 1 not(TMP\_43) = 0 TMP\_44 = 4 TMP\_45 = 0 not(TMP\_45) = 1 TMP\_46 = 0 not(TMP\_46) = 1 TMP\_47 = 0 TMP\_48 = 1 not(TMP\_48) = 0 TMP\_49 = 1 not(TMP\_49) = 0 TMP\_50 = 2 TMP\_51 = 0 not(TMP\_51) = 1 TMP\_52 = 0 not(TMP\_52) = 1 TMP\_53 = 1 not(TMP\_53) = 0 TMP\_54 = 1 not(TMP\_54) = 0 TMP\_55 = 1 not(TMP\_55) = 0 TMP\_56 = 2 TMP\_57 = 0 not(TMP\_57) = 1 TMP\_58 = 1 not(TMP\_58) = 0 TMP\_59 = 1 not(TMP\_59) = 0 TMP\_60 = 1 not(TMP\_60) = 0 TMP\_61 = 0 not(TMP\_61) = 1 TMP\_62 = 1 not(TMP\_62) = 0 TMP\_63 = 4 TMP\_64 = 0 not(TMP\_64) = 1 TMP\_65 = 0 not(TMP\_65) = 1 TMP\_66 = 0 TMP\_67 = 1 not(TMP\_67) = 0 TMP\_68 = 1 not(TMP\_68) = 0 TMP\_69 = 2 TMP\_70 = 0 not(TMP\_70) = 1 TMP\_71 = 0 not(TMP\_71) = 1 TMP\_72 = 1 not(TMP\_72) = 0 TMP\_73 = 1 not(TMP\_73) = 0 TMP\_74 = 1 not(TMP\_74) = 0 TMP\_75 = 2 TMP\_76 = 1 not(TMP\_76) = 0 TMP\_77 = 0 not(TMP\_77) = 1 TMP\_78 = 1 not(TMP\_78) = 0 TMP\_79 = 1 not(TMP\_79) = 0 TMP\_80 = 0 not(TMP\_80) = 1 TMP\_81 = 1 not(TMP\_81) = 0 TMP\_82 = 4 TMP\_83 = 0 not(TMP\_83) = 1 TMP\_84 = 0 not(TMP\_84) = 1 TMP\_85 = 0 TMP\_86 = 1 not(TMP\_86) = 0 TMP\_87 = 1 not(TMP\_87) = 0 TMP\_88 = 2 TMP\_89 = 0 not(TMP\_89) = 1 TMP\_90 = 0 not(TMP\_90) = 1 TMP\_91 = 1 not(TMP\_91) = 0 TMP\_92 = 1 not(TMP\_92) = 0 TMP\_93 = 1 not(TMP\_93) = 0 TMP\_94 = 2 TMP\_95 = 1 not(TMP\_95) = 0 TMP\_96 = 0 not(TMP\_96) = 1 TMP\_97 = 1 not(TMP\_97) = 0 TMP\_98 = 1 not(TMP\_98) = 0 TMP\_99 = 1 not(TMP\_99) = 0 TMP\_100 = 1 not(TMP\_100) = 0 TMP\_101 = 5 TMP\_102 = 0 not(TMP\_102) = 1 TMP\_103 = 0 not(TMP\_103) = 1 TMP\_104 = 0 TMP\_105 = 1 not(TMP\_105) = 0 TMP\_106 = 1 not(TMP\_106) = 0 TMP\_107 = 2 TMP\_108 = 0 not(TMP\_108) = 1 TMP\_109 = 0 not(TMP\_109) = 1 TMP\_110 = 1 not(TMP\_110) = 0 TMP\_111 = 1 not(TMP\_111) = 0 TMP\_112 = 1 not(TMP\_112) = 0 TMP\_113 = 2 TMP\_114 = 0 not(TMP\_114) = 1 TMP\_115 = 1 not(TMP\_115) = 0 TMP\_116 = 1 not(TMP\_116) = 0 TMP\_117 = 1 not(TMP\_117) = 0 TMP\_118 = 0 not(TMP\_118) = 1 TMP\_119 = 1 not(TMP\_119) = 0 TMP\_120 = 4 TMP\_121 = 0 not(TMP\_121) = 1 TMP\_122 = 0 not(TMP\_122) = 1 TMP\_123 = 0 TMP\_124 = 1 not(TMP\_124) = 0 TMP\_125 = 1 not(TMP\_125) = 0 TMP\_126 = 2 TMP\_127 = 0 not(TMP\_127) = 1 TMP\_128 = 0 not(TMP\_128) = 1 TMP\_129 = 1 not(TMP\_129) = 0 TMP\_130 = 1 not(TMP\_130) = 0 TMP\_131 = 1 not(TMP\_131) = 0 TMP\_132 = 2 TMP\_133 = 1 not(TMP\_133) = 0 TMP\_134 = 1 not(TMP\_134) = 0 TMP\_135 = 1 not(TMP\_135) = 0 TMP\_136 = 1 not(TMP\_136) = 0 TMP\_137 = 0 not(TMP\_137) = 1 TMP\_138 = 1 not(TMP\_138) = 0 TMP\_139 = 5 TMP\_140 = 0 not(TMP\_140) = 1 TMP\_141 = 0 not(TMP\_141) = 1 TMP\_142 = 0 TMP\_143 = 1 not(TMP\_143) = 0 TMP\_144 = 1 not(TMP\_144) = 0 TMP\_145 = 2 TMP\_146 = 0 not(TMP\_146) = 1 TMP\_147 = 0 not(TMP\_147) = 1 TMP\_148 = 1 not(TMP\_148) = 0 TMP\_149 = 1 not(TMP\_149) = 0 TMP\_150 = 1 not(TMP\_150) = 0 TMP\_151 = 2 TMP\_152 = 0 not(TMP\_152) = 1 TMP\_153 = 1 not(TMP\_153) = 0 TMP\_154 = 1 not(TMP\_154) = 0 TMP\_155 = 1 not(TMP\_155) = 0 TMP\_156 = 0 not(TMP\_156) = 1 TMP\_157 = 1 not(TMP\_157) = 0 TMP\_158 = 4 TMP\_159 = 0 not(TMP\_159) = 1 TMP\_160 = 0 not(TMP\_160) = 1 TMP\_161 = 0 TMP\_162 = 1 not(TMP\_162) = 0 TMP\_163 = 1 not(TMP\_163) = 0 TMP\_164 = 2 TMP\_165 = 0 not(TMP\_165) = 1 TMP\_166 = 0 not(TMP\_166) = 1 TMP\_167 = 1 not(TMP\_167) = 0 TMP\_168 = 1 not(TMP\_168) = 0 TMP\_169 = 1 not(TMP\_169) = 0 TMP\_170 = 2 TMP\_171 = 0 not(TMP\_171) = 1 TMP\_172 = 1 not(TMP\_172) = 0 TMP\_173 = 1 not(TMP\_173) = 0 TMP\_174 = 1 not(TMP\_174) = 0 TMP\_175 = 1 not(TMP\_175) = 0 TMP\_176 = 1 not(TMP\_176) = 0 TMP\_177 = 5 TMP\_178 = 0 not(TMP\_178) = 1 TMP\_179 = 0 not(TMP\_179) = 1 TMP\_180 = 0 TMP\_181 = 1 not(TMP\_181) = 0 TMP\_182 = 1 not(TMP\_182) = 0 TMP\_183 = 2 TMP\_184 = 0 not(TMP\_184) = 1 TMP\_185 = 0 not(TMP\_185) = 1 TMP\_186 = 1 not(TMP\_186) = 0 TMP\_187 = 1 not(TMP\_187) = 0 TMP\_188 = 1 not(TMP\_188) = 0 TMP\_189 = 2 TMP\_190 = 1 not(TMP\_190) = 0 TMP\_191 = 1 not(TMP\_191) = 0 TMP\_192 = 1 not(TMP\_192) = 0 TMP\_193 = 1 not(TMP\_193) = 0 TMP\_194 = 0 not(TMP\_194) = 1 TMP\_195 = 1 not(TMP\_195) = 0 TMP\_196 = 5 TMP\_197 = 0 not(TMP\_197) = 1 TMP\_198 = 0 not(TMP\_198) = 1 TMP\_199 = 0 TMP\_200 = 1 not(TMP\_200) = 0 TMP\_201 = 1 not(TMP\_201) = 0 TMP\_202 = 2 TMP\_203 = 0 not(TMP\_203) = 1 TMP\_204 = 0 not(TMP\_204) = 1 TMP\_205 = 1 not(TMP\_205) = 0 TMP\_206 = 1 not(TMP\_206) = 0 TMP\_207 = 1 not(TMP\_207) = 0 TMP\_208 = 2 TMP\_209 = 0 not(TMP\_209) = 1 TMP\_210 = 1 not(TMP\_210) = 0 TMP\_211 = 1 not(TMP\_211) = 0 TMP\_212 = 1 not(TMP\_212) = 0 TMP\_213 = 1 not(TMP\_213) = 0 TMP\_214 = 0 not(TMP\_214) = 1 TMP\_215 = 4 TMP\_216 = 0 not(TMP\_216) = 1 TMP\_217 = 0 not(TMP\_217) = 1 TMP\_218 = 0 TMP\_219 = 1 not(TMP\_219) = 0 TMP\_220 = 1 not(TMP\_220) = 0 TMP\_221 = 2 TMP\_222 = 0 not(TMP\_222) = 1 TMP\_223 = 0 not(TMP\_223) = 1 TMP\_224 = 1 not(TMP\_224) = 0 TMP\_225 = 1 not(TMP\_225) = 0 TMP\_226 = 1 not(TMP\_226) = 0 TMP\_227 = 2 TMP\_228 = 0 not(TMP\_228) = 1 TMP\_229 = 1 not(TMP\_229) = 0 TMP\_230 = 1 not(TMP\_230) = 0 TMP\_231 = 1 not(TMP\_231) = 0 TMP\_232 = 1 not(TMP\_232) = 0 TMP\_233 = 0 not(TMP\_233) = 1 TMP\_234 = 4 TMP\_235 = 0 not(TMP\_235) = 1 TMP\_236 = 0 not(TMP\_236) = 1 TMP\_237 = 0 TMP\_238 = 1 not(TMP\_238) = 0 TMP\_239 = 1 not(TMP\_239) = 0 TMP\_240 = 2 TMP\_241 = 0 not(TMP\_241) = 1 TMP\_242 = 0 not(TMP\_242) = 1 TMP\_243 = 1 not(TMP\_243) = 0 TMP\_244 = 1 not(TMP\_244) = 0 TMP\_245 = 1 not(TMP\_245) = 0 TMP\_246 = 2 TMP\_247 = 0 not(TMP\_247) = 1 TMP\_248 = 1 not(TMP\_248) = 0 TMP\_249 = 1 not(TMP\_249) = 0 TMP\_250 = 0 not(TMP\_250) = 1 TMP\_251 = 1 not(TMP\_251) = 0 TMP\_252 = 1 not(TMP\_252) = 0 TMP\_253 = 4 TMP\_254 = 0 not(TMP\_254) = 1 TMP\_255 = 0 not(TMP\_255) = 1 TMP\_256 = 0 TMP\_257 = 1 not(TMP\_257) = 0 TMP\_258 = 1 not(TMP\_258) = 0 TMP\_259 = 2 TMP\_260 = 0 not(TMP\_260) = 1 TMP\_261 = 0 not(TMP\_261) = 1 TMP\_262 = 1 not(TMP\_262) = 0 TMP\_263 = 1 not(TMP\_263) = 0 TMP\_264 = 1 not(TMP\_264) = 0 TMP\_265 = 2 TMP\_266 = 0 not(TMP\_266) = 1 TMP\_267 = 1 not(TMP\_267) = 0 TMP\_268 = 1 not(TMP\_268) = 0 TMP\_269 = 1 not(TMP\_269) = 0 TMP\_270 = 1 not(TMP\_270) = 0 TMP\_271 = 1 not(TMP\_271) = 0 TMP\_272 = 5 TMP\_273 = 0 not(TMP\_273) = 1 TMP\_274 = 0 not(TMP\_274) = 1 TMP\_275 = 0 TMP\_276 = 1 not(TMP\_276) = 0 TMP\_277 = 1 not(TMP\_277) = 0 TMP\_278 = 2 TMP\_279 = 0 not(TMP\_279) = 1 TMP\_280 = 0 not(TMP\_280) = 1 TMP\_281 = 1 not(TMP\_281) = 0 TMP\_282 = 1 not(TMP\_282) = 0 TMP\_283 = 1 not(TMP\_283) = 0 TMP\_284 = 2 TMP\_285 = 1 not(TMP\_285) = 0 TMP\_286 = 0 not(TMP\_286) = 1 TMP\_287 = 1 not(TMP\_287) = 0 TMP\_288 = 1 not(TMP\_288) = 0 TMP\_289 = 1 not(TMP\_289) = 0 TMP\_290 = 1 not(TMP\_290) = 0 TMP\_291 = 5 TMP\_292 = 0 not(TMP\_292) = 1 TMP\_293 = 0 not(TMP\_293) = 1 TMP\_294 = 0 TMP\_295 = 1 not(TMP\_295) = 0 TMP\_296 = 1 not(TMP\_296) = 0 TMP\_297 = 2 TMP\_298 = 0 not(TMP\_298) = 1 TMP\_299 = 0 not(TMP\_299) = 1 TMP\_300 = 1 not(TMP\_300) = 0 TMP\_301 = 1 not(TMP\_301) = 0 TMP\_302 = 1 not(TMP\_302) = 0 TMP\_303 = 2 TMP\_304 = 1 not(TMP\_304) = 0 TMP\_305 = 0 not(TMP\_305) = 1 TMP\_306 = 1 not(TMP\_306) = 0 TMP\_307 = 1 not(TMP\_307) = 0 TMP\_308 = 1 not(TMP\_308) = 0 TMP\_309 = 0 not(TMP\_309) = 1 TMP\_310 = 4 TMP\_311 = 0 not(TMP\_311) = 1 TMP\_312 = 0 not(TMP\_312) = 1 TMP\_313 = 0 TMP\_314 = 1 not(TMP\_314) = 0 TMP\_315 = 1 not(TMP\_315) = 0 TMP\_316 = 2 TMP\_317 = 0 not(TMP\_317) = 1 TMP\_318 = 0 not(TMP\_318) = 1 TMP\_319 = 1 not(TMP\_319) = 0 TMP\_320 = 1 not(TMP\_320) = 0 TMP\_321 = 1 not(TMP\_321) = 0 TMP\_322 = 2 TMP\_323 = 0 not(TMP\_323) = 1 TMP\_324 = 1 not(TMP\_324) = 0 TMP\_325 = 1 not(TMP\_325) = 0 TMP\_326 = 1 not(TMP\_326) = 0 TMP\_327 = 1 not(TMP\_327) = 0 TMP\_328 = 1 not(TMP\_328) = 0 TMP\_329 = 5 TMP\_330 = 0 not(TMP\_330) = 1 TMP\_331 = 0 not(TMP\_331) = 1 TMP\_332 = 0 TMP\_333 = 1 not(TMP\_333) = 0 TMP\_334 = 1 not(TMP\_334) = 0 TMP\_335 = 2 TMP\_336 = 0 not(TMP\_336) = 1 TMP\_337 = 0 not(TMP\_337) = 1 TMP\_338 = 1 not(TMP\_338) = 0 TMP\_339 = 1 not(TMP\_339) = 0 TMP\_340 = 1 not(TMP\_340) = 0 TMP\_341 = 2 TMP\_342 = 1 not(TMP\_342) = 0 TMP\_343 = 1 not(TMP\_343) = 0 TMP\_344 = 1 not(TMP\_344) = 0 TMP\_345 = 1 not(TMP\_345) = 0 TMP\_346 = 1 not(TMP\_346) = 0 TMP\_347 = 0 not(TMP\_347) = 1 TMP\_348 = 5 TMP\_349 = 0 not(TMP\_349) = 1 TMP\_350 = 0 not(TMP\_350) = 1 TMP\_351 = 0 TMP\_352 = 1 not(TMP\_352) = 0 TMP\_353 = 1 not(TMP\_353) = 0 TMP\_354 = 2 TMP\_355 = 0 not(TMP\_355) = 1 TMP\_356 = 0 not(TMP\_356) = 1 TMP\_357 = 1 not(TMP\_357) = 0 TMP\_358 = 1 not(TMP\_358) = 0 TMP\_359 = 1 not(TMP\_359) = 0 TMP\_360 = 2 TMP\_361 = 0 not(TMP\_361) = 1 TMP\_362 = 1 not(TMP\_362) = 0 TMP\_363 = 1 not(TMP\_363) = 0 TMP\_364 = 1 not(TMP\_364) = 0 TMP\_365 = 1 not(TMP\_365) = 0 TMP\_366 = 1 not(TMP\_366) = 0 TMP\_367 = 5 TMP\_368 = 0 not(TMP\_368) = 1 TMP\_369 = 0 not(TMP\_369) = 1 TMP\_370 = 0 TMP\_371 = 1 not(TMP\_371) = 0 TMP\_372 = 1 not(TMP\_372) = 0 TMP\_373 = 2 TMP\_374 = 0 not(TMP\_374) = 1 TMP\_375 = 0 not(TMP\_375) = 1 TMP\_376 = 1 not(TMP\_376) = 0 TMP\_377 = 1 not(TMP\_377) = 0 TMP\_378 = 1 not(TMP\_378) = 0 TMP\_379 = 2 TMP\_380 = 0 not(TMP\_380) = 1 TMP\_381 = 1 not(TMP\_381) = 0 TMP\_382 = 1 not(TMP\_382) = 0 TMP\_383 = 1 not(TMP\_383) = 0 TMP\_384 = 1 not(TMP\_384) = 0 TMP\_385 = 0 not(TMP\_385) = 1 TMP\_386 = 4 TMP\_387 = 0 not(TMP\_387) = 1 TMP\_388 = 0 not(TMP\_388) = 1 TMP\_389 = 0 TMP\_390 = 1 not(TMP\_390) = 0 TMP\_391 = 1 not(TMP\_391) = 0 TMP\_392 = 2 TMP\_393 = 0 not(TMP\_393) = 1 TMP\_394 = 0 not(TMP\_394) = 1 TMP\_395 = 1 not(TMP\_395) = 0 TMP\_396 = 1 not(TMP\_396) = 0 TMP\_397 = 1 not(TMP\_397) = 0 TMP\_398 = 2 TMP\_399 = 1 not(TMP\_399) = 0 TMP\_400 = 1 not(TMP\_400) = 0 TMP\_401 = 1 not(TMP\_401) = 0 TMP\_402 = 0 not(TMP\_402) = 1 TMP\_403 = 1 not(TMP\_403) = 0 TMP\_404 = 1 not(TMP\_404) = 0 TMP\_405 = 5 TMP\_406 = 0 not(TMP\_406) = 1 TMP\_407 = 0 not(TMP\_407) = 1 TMP\_408 = 0 TMP\_409 = 1 not(TMP\_409) = 0 TMP\_410 = 1 not(TMP\_410) = 0 TMP\_411 = 2 TMP\_412 = 0 not(TMP\_412) = 1 TMP\_413 = 0 not(TMP\_413) = 1 TMP\_414 = 1 not(TMP\_414) = 0 TMP\_415 = 1 not(TMP\_415) = 0 TMP\_416 = 1 not(TMP\_416) = 0 TMP\_417 = 2 TMP\_418 = 0 not(TMP\_418) = 1 TMP\_419 = 1 not(TMP\_419) = 0 TMP\_420 = 1 not(TMP\_420) = 0 TMP\_421 = 1 not(TMP\_421) = 0 TMP\_422 = 1 not(TMP\_422) = 0 TMP\_423 = 0 not(TMP\_423) = 1 TMP\_424 = 4 TMP\_425 = 0 not(TMP\_425) = 1 TMP\_426 = 0 not(TMP\_426) = 1 TMP\_427 = 0 TMP\_428 = 1 not(TMP\_428) = 0 TMP\_429 = 1 not(TMP\_429) = 0 TMP\_430 = 2 TMP\_431 = 0 not(TMP\_431) = 1 TMP\_432 = 0 not(TMP\_432) = 1 TMP\_433 = 1 not(TMP\_433) = 0 TMP\_434 = 1 not(TMP\_434) = 0 TMP\_435 = 1 not(TMP\_435) = 0 TMP\_436 = 2 TMP\_437 = 1 not(TMP\_437) = 0 TMP\_438 = 0 not(TMP\_438) = 1 TMP\_439 = 1 not(TMP\_439) = 0 TMP\_440 = 1 not(TMP\_440) = 0 TMP\_441 = 1 not(TMP\_441) = 0 TMP\_442 = 0 not(TMP\_442) = 1 TMP\_443 = 4 TMP\_444 = 0 not(TMP\_444) = 1 TMP\_445 = 0 not(TMP\_445) = 1 TMP\_446 = 0 TMP\_447 = 1 not(TMP\_447) = 0 TMP\_448 = 1 not(TMP\_448) = 0 TMP\_449 = 2 TMP\_450 = 0 not(TMP\_450) = 1 TMP\_451 = 0 not(TMP\_451) = 1 TMP\_452 = 1 not(TMP\_452) = 0 TMP\_453 = 1 not(TMP\_453) = 0 TMP\_454 = 1 not(TMP\_454) = 0 TMP\_455 = 2 TMP\_456 = 1 not(TMP\_456) = 0 TMP\_457 = 0 not(TMP\_457) = 1 TMP\_458 = 1 not(TMP\_458) = 0 TMP\_459 = 1 not(TMP\_459) = 0 TMP\_460 = 1 not(TMP\_460) = 0 TMP\_461 = 1 not(TMP\_461) = 0 TMP\_462 = 5 TMP\_463 = 0 not(TMP\_463) = 1 TMP\_464 = 0 not(TMP\_464) = 1 TMP\_465 = 0 TMP\_466 = 1 not(TMP\_466) = 0 TMP\_467 = 1 not(TMP\_467) = 0 TMP\_468 = 2 TMP\_469 = 0 not(TMP\_469) = 1 TMP\_470 = 0 not(TMP\_470) = 1 TMP\_471 = 1 not(TMP\_471) = 0 TMP\_472 = 1 not(TMP\_472) = 0 TMP\_473 = 1 not(TMP\_473) = 0 TMP\_474 = 2 TMP\_475 = 1 not(TMP\_475) = 0 TMP\_476 = 0 not(TMP\_476) = 1 TMP\_477 = 1 not(TMP\_477) = 0 TMP\_478 = 1 not(TMP\_478) = 0 TMP\_479 = 1 not(TMP\_479) = 0 TMP\_480 = 1 not(TMP\_480) = 0 TMP\_481 = 5 TMP\_482 = 0 not(TMP\_482) = 1 TMP\_483 = 0 not(TMP\_483) = 1 TMP\_484 = 0 TMP\_485 = 1 not(TMP\_485) = 0 TMP\_486 = 1 not(TMP\_486) = 0 TMP\_487 = 2 TMP\_488 = 0 not(TMP\_488) = 1 TMP\_489 = 0 not(TMP\_489) = 1 TMP\_490 = 1 not(TMP\_490) = 0 TMP\_491 = 1 not(TMP\_491) = 0 TMP\_492 = 1 not(TMP\_492) = 0 TMP\_493 = 2 TMP\_494 = 1 not(TMP\_494) = 0 TMP\_495 = 0 not(TMP\_495) = 1 TMP\_496 = 1 not(TMP\_496) = 0 TMP\_497 = 1 not(TMP\_497) = 0 TMP\_498 = 1 not(TMP\_498) = 0 TMP\_499 = 1 not(TMP\_499) = 0 TMP\_500 = 5 TMP\_501 = 0 not(TMP\_501) = 1 TMP\_502 = 0 not(TMP\_502) = 1 TMP\_503 = 0 TMP\_504 = 1 not(TMP\_504) = 0 TMP\_505 = 1 not(TMP\_505) = 0 TMP\_506 = 2 TMP\_507 = 0 not(TMP\_507) = 1 TMP\_508 = 0 not(TMP\_508) = 1 TMP\_509 = 1 not(TMP\_509) = 0 TMP\_510 = 1 not(TMP\_510) = 0 TMP\_511 = 1 not(TMP\_511) = 0 TMP\_512 = 2 TMP\_513 = 1 not(TMP\_513) = 0 TMP\_514 = 0 not(TMP\_514) = 1 TMP\_515 = 1 not(TMP\_515) = 0 TMP\_516 = 1 not(TMP\_516) = 0 TMP\_517 = 1 not(TMP\_517) = 0 TMP\_518 = 0 not(TMP\_518) = 1 TMP\_519 = 4 TMP\_520 = 0 not(TMP\_520) = 1 TMP\_521 = 0 not(TMP\_521) = 1 TMP\_522 = 0 TMP\_523 = 1 not(TMP\_523) = 0 TMP\_524 = 1 not(TMP\_524) = 0 TMP\_525 = 2 TMP\_526 = 0 not(TMP\_526) = 1 TMP\_527 = 0 not(TMP\_527) = 1 TMP\_528 = 1 not(TMP\_528) = 0 TMP\_529 = 1 not(TMP\_529) = 0 TMP\_530 = 1 not(TMP\_530) = 0 TMP\_531 = 2 TMP\_532 = 0 not(TMP\_532) = 1 TMP\_533 = 1 not(TMP\_533) = 0 TMP\_534 = 1 not(TMP\_534) = 0 TMP\_535 = 1 not(TMP\_535) = 0 TMP\_536 = 1 not(TMP\_536) = 0 TMP\_537 = 1 not(TMP\_537) = 0 TMP\_538 = 5 TMP\_539 = 0 not(TMP\_539) = 1 TMP\_540 = 0 not(TMP\_540) = 1 TMP\_541 = 0 TMP\_542 = 1 not(TMP\_542) = 0 TMP\_543 = 1 not(TMP\_543) = 0 TMP\_544 = 2 TMP\_545 = 0 not(TMP\_545) = 1 TMP\_546 = 0 not(TMP\_546) = 1 TMP\_547 = 1 not(TMP\_547) = 0 TMP\_548 = 1 not(TMP\_548) = 0 TMP\_549 = 1 not(TMP\_549) = 0 TMP\_550 = 2 TMP\_551 = 1 not(TMP\_551) = 0 TMP\_552 = 0 not(TMP\_552) = 1 TMP\_553 = 1 not(TMP\_553) = 0 TMP\_554 = 1 not(TMP\_554) = 0 TMP\_555 = 1 not(TMP\_555) = 0 TMP\_556 = 0 not(TMP\_556) = 1 TMP\_557 = 4 TMP\_558 = 0 not(TMP\_558) = 1 TMP\_559 = 0 not(TMP\_559) = 1 TMP\_560 = 0 TMP\_561 = 1 not(TMP\_561) = 0 TMP\_562 = 1 not(TMP\_562) = 0 TMP\_563 = 2 TMP\_564 = 0 not(TMP\_564) = 1 TMP\_565 = 0 not(TMP\_565) = 1 TMP\_566 = 1 not(TMP\_566) = 0 TMP\_567 = 1 not(TMP\_567) = 0 TMP\_568 = 1 not(TMP\_568) = 0 TMP\_569 = 2 TMP\_570 = 1 not(TMP\_570) = 0 TMP\_571 = 0 not(TMP\_571) = 1 TMP\_572 = 1 not(TMP\_572) = 0 TMP\_573 = 1 not(TMP\_573) = 0 TMP\_574 = 1 not(TMP\_574) = 0 TMP\_575 = 1 not(TMP\_575) = 0 TMP\_576 = 5 TMP\_577 = 0 not(TMP\_577) = 1 TMP\_578 = 0 not(TMP\_578) = 1 TMP\_579 = 0 TMP\_580 = 1 not(TMP\_580) = 0 TMP\_581 = 1 not(TMP\_581) = 0 TMP\_582 = 2 TMP\_583 = 0 not(TMP\_583) = 1 TMP\_584 = 0 not(TMP\_584) = 1 TMP\_585 = 1 not(TMP\_585) = 0 TMP\_586 = 1 not(TMP\_586) = 0 TMP\_587 = 1 not(TMP\_587) = 0 TMP\_588 = 2 TMP\_589 = 1 not(TMP\_589) = 0 TMP\_590 = 1 not(TMP\_590) = 0 TMP\_591 = 1 not(TMP\_591) = 0 TMP\_592 = 1 not(TMP\_592) = 0 TMP\_593 = 1 not(TMP\_593) = 0 TMP\_594 = 0 not(TMP\_594) = 1 TMP\_595 = 5 TMP\_596 = 0 not(TMP\_596) = 1 TMP\_597 = 0 not(TMP\_597) = 1 TMP\_598 = 0 TMP\_599 = 1 not(TMP\_599) = 0 TMP\_600 = 1 not(TMP\_600) = 0 TMP\_601 = 2 TMP\_602 = 0 not(TMP\_602) = 1 TMP\_603 = 0 not(TMP\_603) = 1 TMP\_604 = 1 not(TMP\_604) = 0 TMP\_605 = 1 not(TMP\_605) = 0 TMP\_606 = 1 not(TMP\_606) = 0 TMP\_607 = 2 TMP\_608 = 1 not(TMP\_608) = 0 TMP\_609 = 0 not(TMP\_609) = 1 TMP\_610 = 1 not(TMP\_610) = 0 TMP\_611 = 1 not(TMP\_611) = 0 TMP\_612 = 1 not(TMP\_612) = 0 TMP\_613 = 1 not(TMP\_613) = 0 TMP\_614 = 5 TMP\_615 = 0 not(TMP\_615) = 1 TMP\_616 = 0 not(TMP\_616) = 1 TMP\_617 = 0 TMP\_618 = 1 not(TMP\_618) = 0 TMP\_619 = 1 not(TMP\_619) = 0 TMP\_620 = 2 TMP\_621 = 0 not(TMP\_621) = 1 TMP\_622 = 0 not(TMP\_622) = 1 TMP\_623 = 1 not(TMP\_623) = 0 TMP\_624 = 1 not(TMP\_624) = 0 TMP\_625 = 1 not(TMP\_625) = 0 TMP\_626 = 2 TMP\_627 = 0 not(TMP\_627) = 1 TMP\_628 = 1 not(TMP\_628) = 0 TMP\_629 = 1 not(TMP\_629) = 0 TMP\_630 = 1 not(TMP\_630) = 0 TMP\_631 = 1 not(TMP\_631) = 0 TMP\_632 = 1 not(TMP\_632) = 0 TMP\_633 = 5 TMP\_634 = 0 not(TMP\_634) = 1 TMP\_635 = 0 not(TMP\_635) = 1 TMP\_636 = 0 TMP\_637 = 1 not(TMP\_637) = 0 TMP\_638 = 1 not(TMP\_638) = 0 TMP\_639 = 2 TMP\_640 = 0 not(TMP\_640) = 1 TMP\_641 = 0 not(TMP\_641) = 1 TMP\_642 = 1 not(TMP\_642) = 0 TMP\_643 = 1 not(TMP\_643) = 0 TMP\_644 = 1 not(TMP\_644) = 0 TMP\_645 = 2 TMP\_646 = 1 not(TMP\_646) = 0 TMP\_647 = 0 not(TMP\_647) = 1 TMP\_648 = 1 not(TMP\_648) = 0 TMP\_649 = 1 not(TMP\_649) = 0 TMP\_650 = 1 not(TMP\_650) = 0 TMP\_651 = 1 not(TMP\_651) = 0 TMP\_652 = 5 TMP\_653 = 0 not(TMP\_653) = 1 TMP\_654 = 0 not(TMP\_654) = 1 TMP\_655 = 0 TMP\_656 = 1 not(TMP\_656) = 0 TMP\_657 = 1 not(TMP\_657) = 0 TMP\_658 = 2 TMP\_659 = 0 not(TMP\_659) = 1 TMP\_660 = 0 not(TMP\_660) = 1 TMP\_661 = 1 not(TMP\_661) = 0 TMP\_662 = 1 not(TMP\_662) = 0 TMP\_663 = 1 not(TMP\_663) = 0 TMP\_664 = 2 TMP\_665 = 1 not(TMP\_665) = 0 TMP\_666 = 0 not(TMP\_666) = 1 TMP\_667 = 1 not(TMP\_667) = 0 TMP\_668 = 1 not(TMP\_668) = 0 TMP\_669 = 0 not(TMP\_669) = 1 TMP\_670 = 1 not(TMP\_670) = 0 TMP\_671 = 4 TMP\_672 = 0 not(TMP\_672) = 1 TMP\_673 = 0 not(TMP\_673) = 1 TMP\_674 = 0 TMP\_675 = 1 not(TMP\_675) = 0 TMP\_676 = 1 not(TMP\_676) = 0 TMP\_677 = 2 TMP\_678 = 0 not(TMP\_678) = 1 TMP\_679 = 0 not(TMP\_679) = 1 TMP\_680 = 1 not(TMP\_680) = 0 TMP\_681 = 1 not(TMP\_681) = 0 TMP\_682 = 1 not(TMP\_682) = 0 TMP\_683 = 2 TMP\_684 = 1 not(TMP\_684) = 0 TMP\_685 = 0 not(TMP\_685) = 1 TMP\_686 = 1 not(TMP\_686) = 0 TMP\_687 = 1 not(TMP\_687) = 0 TMP\_688 = 0 not(TMP\_688) = 1 TMP\_689 = 1 not(TMP\_689) = 0 TMP\_690 = 4 TMP\_691 = 0 not(TMP\_691) = 1 TMP\_692 = 0 not(TMP\_692) = 1 TMP\_693 = 0 TMP\_694 = 1 not(TMP\_694) = 0 TMP\_695 = 1 not(TMP\_695) = 0 TMP\_696 = 2 TMP\_697 = 0 not(TMP\_697) = 1 TMP\_698 = 0 not(TMP\_698) = 1 TMP\_699 = 1 not(TMP\_699) = 0 TMP\_700 = 1 not(TMP\_700) = 0 TMP\_701 = 1 not(TMP\_701) = 0 TMP\_702 = 2 TMP\_703 = 1 not(TMP\_703) = 0 TMP\_704 = 0 not(TMP\_704) = 1 TMP\_705 = 1 not(TMP\_705) = 0 TMP\_706 = 1 not(TMP\_706) = 0 TMP\_707 = 0 not(TMP\_707) = 1 TMP\_708 = 1 not(TMP\_708) = 0 TMP\_709 = 4 TMP\_710 = 0 not(TMP\_710) = 1 TMP\_711 = 0 not(TMP\_711) = 1 TMP\_712 = 0 TMP\_713 = 1 not(TMP\_713) = 0 TMP\_714 = 1 not(TMP\_714) = 0 TMP\_715 = 2 TMP\_716 = 0 not(TMP\_716) = 1 TMP\_717 = 0 not(TMP\_717) = 1 TMP\_718 = 1 not(TMP\_718) = 0 TMP\_719 = 1 not(TMP\_719) = 0 TMP\_720 = 1 not(TMP\_720) = 0 TMP\_721 = 2 TMP\_722 = 1 not(TMP\_722) = 0 TMP\_723 = 0 not(TMP\_723) = 1 TMP\_724 = 1 not(TMP\_724) = 0 TMP\_725 = 1 not(TMP\_725) = 0 TMP\_726 = 1 not(TMP\_726) = 0 TMP\_727 = 1 not(TMP\_727) = 0 TMP\_728 = 5 TMP\_729 = 0 not(TMP\_729) = 1 TMP\_730 = 0 not(TMP\_730) = 1 TMP\_731 = 0 TMP\_732 = 1 not(TMP\_732) = 0 TMP\_733 = 1 not(TMP\_733) = 0 TMP\_734 = 2 TMP\_735 = 0 not(TMP\_735) = 1 TMP\_736 = 0 not(TMP\_736) = 1 TMP\_737 = 1 not(TMP\_737) = 0 TMP\_738 = 1 not(TMP\_738) = 0 TMP\_739 = 1 not(TMP\_739) = 0 TMP\_740 = 2 TMP\_741 = 0 not(TMP\_741) = 1 TMP\_742 = 1 not(TMP\_742) = 0 TMP\_743 = 1 not(TMP\_743) = 0 TMP\_744 = 1 not(TMP\_744) = 0 TMP\_745 = 0 not(TMP\_745) = 1 TMP\_746 = 1 not(TMP\_746) = 0 TMP\_747 = 4 TMP\_748 = 0 not(TMP\_748) = 1 TMP\_749 = 0 not(TMP\_749) = 1 TMP\_750 = 0 TMP\_751 = 1 not(TMP\_751) = 0 TMP\_752 = 1 not(TMP\_752) = 0 TMP\_753 = 2 TMP\_754 = 0 not(TMP\_754) = 1 TMP\_755 = 0 not(TMP\_755) = 1 TMP\_756 = 1 not(TMP\_756) = 0 TMP\_757 = 1 not(TMP\_757) = 0 TMP\_758 = 1 not(TMP\_758) = 0 TMP\_759 = 2 TMP\_760 = 1 not(TMP\_760) = 0 TMP\_761 = 0 not(TMP\_761) = 1 TMP\_762 = 1 not(TMP\_762) = 0 TMP\_763 = 1 not(TMP\_763) = 0 TMP\_764 = 1 not(TMP\_764) = 0 TMP\_765 = 1 not(TMP\_765) = 0 TMP\_766 = 5 TMP\_767 = 0 not(TMP\_767) = 1 TMP\_768 = 0 not(TMP\_768) = 1 TMP\_769 = 0 TMP\_770 = 1 not(TMP\_770) = 0 TMP\_771 = 1 not(TMP\_771) = 0 TMP\_772 = 2 TMP\_773 = 0 not(TMP\_773) = 1 TMP\_774 = 0 not(TMP\_774) = 1 TMP\_775 = 1 not(TMP\_775) = 0 TMP\_776 = 1 not(TMP\_776) = 0 TMP\_777 = 1 not(TMP\_777) = 0 TMP\_778 = 2 TMP\_779 = 1 not(TMP\_779) = 0 TMP\_780 = 0 not(TMP\_780) = 1 TMP\_781 = 1 not(TMP\_781) = 0 TMP\_782 = 1 not(TMP\_782) = 0 TMP\_783 = 0 not(TMP\_783) = 1 TMP\_784 = 1 not(TMP\_784) = 0 TMP\_785 = 4 TMP\_786 = 0 not(TMP\_786) = 1 TMP\_787 = 0 not(TMP\_787) = 1 TMP\_788 = 0 TMP\_789 = 1 not(TMP\_789) = 0 TMP\_790 = 1 not(TMP\_790) = 0 TMP\_791 = 2 TMP\_792 = 0 not(TMP\_792) = 1 TMP\_793 = 0 not(TMP\_793) = 1 TMP\_794 = 1 not(TMP\_794) = 0 TMP\_795 = 1 not(TMP\_795) = 0 TMP\_796 = 1 not(TMP\_796) = 0 TMP\_797 = 2 TMP\_798 = 1 not(TMP\_798) = 0 TMP\_799 = 1 not(TMP\_799) = 0 TMP\_800 = 1 not(TMP\_800) = 0 TMP\_801 = 1 not(TMP\_801) = 0 TMP\_802 = 0 not(TMP\_802) = 1 TMP\_803 = 1 not(TMP\_803) = 0 TMP\_804 = 5 TMP\_805 = 0 not(TMP\_805) = 1 TMP\_806 = 0 not(TMP\_806) = 1 TMP\_807 = 0 TMP\_808 = 1 not(TMP\_808) = 0 TMP\_809 = 1 not(TMP\_809) = 0 TMP\_810 = 2 TMP\_811 = 0 not(TMP\_811) = 1 TMP\_812 = 0 not(TMP\_812) = 1 TMP\_813 = 1 not(TMP\_813) = 0 TMP\_814 = 1 not(TMP\_814) = 0 TMP\_815 = 1 not(TMP\_815) = 0 TMP\_816 = 2 TMP\_817 = 1 not(TMP\_817) = 0 TMP\_818 = 0 not(TMP\_818) = 1 TMP\_819 = 1 not(TMP\_819) = 0 TMP\_820 = 1 not(TMP\_820) = 0 TMP\_821 = 0 not(TMP\_821) = 1 TMP\_822 = 1 not(TMP\_822) = 0 TMP\_823 = 4 TMP\_824 = 0 not(TMP\_824) = 1 TMP\_825 = 0 not(TMP\_825) = 1 TMP\_826 = 0 TMP\_827 = 1 not(TMP\_827) = 0 TMP\_828 = 1 not(TMP\_828) = 0 TMP\_829 = 2 TMP\_830 = 0 not(TMP\_830) = 1 TMP\_831 = 0 not(TMP\_831) = 1 TMP\_832 = 1 not(TMP\_832) = 0 TMP\_833 = 1 not(TMP\_833) = 0 TMP\_834 = 1 not(TMP\_834) = 0 TMP\_835 = 2 TMP\_836 = 0 not(TMP\_836) = 1 TMP\_837 = 1 not(TMP\_837) = 0 TMP\_838 = 1 not(TMP\_838) = 0 TMP\_839 = 1 not(TMP\_839) = 0 TMP\_840 = 1 not(TMP\_840) = 0 TMP\_841 = 0 not(TMP\_841) = 1 TMP\_842 = 4 TMP\_843 = 0 not(TMP\_843) = 1 TMP\_844 = 0 not(TMP\_844) = 1 TMP\_845 = 0 TMP\_846 = 1 not(TMP\_846) = 0 TMP\_847 = 1 not(TMP\_847) = 0 TMP\_848 = 2 TMP\_849 = 0 not(TMP\_849) = 1 TMP\_850 = 0 not(TMP\_850) = 1 TMP\_851 = 1 not(TMP\_851) = 0 TMP\_852 = 1 not(TMP\_852) = 0 TMP\_853 = 1 not(TMP\_853) = 0 TMP\_854 = 2 TMP\_855 = 0 not(TMP\_855) = 1 TMP\_856 = 1 not(TMP\_856) = 0 TMP\_857 = 1 not(TMP\_857) = 0 TMP\_858 = 1 not(TMP\_858) = 0 TMP\_859 = 1 not(TMP\_859) = 0 TMP\_860 = 0 not(TMP\_860) = 1 TMP\_861 = 4 TMP\_862 = 0 not(TMP\_862) = 1 TMP\_863 = 0 not(TMP\_863) = 1 TMP\_864 = 0 TMP\_865 = 1 not(TMP\_865) = 0 TMP\_866 = 1 not(TMP\_866) = 0 TMP\_867 = 2 TMP\_868 = 0 not(TMP\_868) = 1 TMP\_869 = 0 not(TMP\_869) = 1 TMP\_870 = 1 not(TMP\_870) = 0 TMP\_871 = 1 not(TMP\_871) = 0 TMP\_872 = 1 not(TMP\_872) = 0 TMP\_873 = 2 TMP\_874 = 0 not(TMP\_874) = 1 TMP\_875 = 1 not(TMP\_875) = 0 TMP\_876 = 1 not(TMP\_876) = 0 TMP\_877 = 1 not(TMP\_877) = 0 TMP\_878 = 1 not(TMP\_878) = 0 TMP\_879 = 1 not(TMP\_879) = 0 TMP\_880 = 5 TMP\_881 = 0 not(TMP\_881) = 1 TMP\_882 = 0 not(TMP\_882) = 1 TMP\_883 = 0 TMP\_884 = 1 not(TMP\_884) = 0 TMP\_885 = 1 not(TMP\_885) = 0 TMP\_886 = 2 TMP\_887 = 0 not(TMP\_887) = 1 TMP\_888 = 0 not(TMP\_888) = 1 TMP\_889 = 1 not(TMP\_889) = 0 TMP\_890 = 1 not(TMP\_890) = 0 TMP\_891 = 1 not(TMP\_891) = 0 TMP\_892 = 2 TMP\_893 = 0 not(TMP\_893) = 1 TMP\_894 = 1 not(TMP\_894) = 0 TMP\_895 = 0 not(TMP\_895) = 1 TMP\_896 = 1 not(TMP\_896) = 0 TMP\_897 = 1 not(TMP\_897) = 0 TMP\_898 = 1 not(TMP\_898) = 0 TMP\_899 = 4 TMP\_900 = 0 not(TMP\_900) = 1 TMP\_901 = 0 not(TMP\_901) = 1 TMP\_902 = 0 TMP\_903 = 1 not(TMP\_903) = 0 TMP\_904 = 1 not(TMP\_904) = 0 TMP\_905 = 2 TMP\_906 = 0 not(TMP\_906) = 1 TMP\_907 = 0 not(TMP\_907) = 1 TMP\_908 = 1 not(TMP\_908) = 0 TMP\_909 = 1 not(TMP\_909) = 0 TMP\_910 = 1 not(TMP\_910) = 0 TMP\_911 = 2 TMP\_912 = 1 not(TMP\_912) = 0 TMP\_913 = 0 not(TMP\_913) = 1 TMP\_914 = 1 not(TMP\_914) = 0 TMP\_915 = 1 not(TMP\_915) = 0 TMP\_916 = 1 not(TMP\_916) = 0 TMP\_917 = 1 not(TMP\_917) = 0 TMP\_918 = 5 TMP\_919 = 0 not(TMP\_919) = 1 TMP\_920 = 0 not(TMP\_920) = 1 TMP\_921 = 0 TMP\_922 = 1 not(TMP\_922) = 0 TMP\_923 = 1 not(TMP\_923) = 0 TMP\_924 = 2 TMP\_925 = 0 not(TMP\_925) = 1 TMP\_926 = 0 not(TMP\_926) = 1 TMP\_927 = 1 not(TMP\_927) = 0 TMP\_928 = 1 not(TMP\_928) = 0 TMP\_929 = 1 not(TMP\_929) = 0 TMP\_930 = 2 TMP\_931 = 1 not(TMP\_931) = 0 TMP\_932 = 0 not(TMP\_932) = 1 TMP\_933 = 1 not(TMP\_933) = 0 TMP\_934 = 1 not(TMP\_934) = 0 TMP\_935 = 1 not(TMP\_935) = 0 TMP\_936 = 0 not(TMP\_936) = 1 TMP\_937 = 4 TMP\_938 = 0 not(TMP\_938) = 1 TMP\_939 = 0 not(TMP\_939) = 1 TMP\_940 = 0 TMP\_941 = 1 not(TMP\_941) = 0 TMP\_942 = 1 not(TMP\_942) = 0 TMP\_943 = 2 TMP\_944 = 0 not(TMP\_944) = 1 TMP\_945 = 0 not(TMP\_945) = 1 TMP\_946 = 1 not(TMP\_946) = 0 TMP\_947 = 1 not(TMP\_947) = 0 TMP\_948 = 1 not(TMP\_948) = 0 TMP\_949 = 2 TMP\_950 = 0 not(TMP\_950) = 1 TMP\_951 = 1 not(TMP\_951) = 0 TMP\_952 = 1 not(TMP\_952) = 0 TMP\_953 = 1 not(TMP\_953) = 0 TMP\_954 = 1 not(TMP\_954) = 0 TMP\_955 = 1 not(TMP\_955) = 0 TMP\_956 = 5 TMP\_957 = 0 not(TMP\_957) = 1 TMP\_958 = 0 not(TMP\_958) = 1 TMP\_959 = 0 TMP\_960 = 1 not(TMP\_960) = 0 TMP\_961 = 1 not(TMP\_961) = 0 TMP\_962 = 2 TMP\_963 = 0 not(TMP\_963) = 1 TMP\_964 = 0 not(TMP\_964) = 1 TMP\_965 = 1 not(TMP\_965) = 0 TMP\_966 = 1 not(TMP\_966) = 0 TMP\_967 = 1 not(TMP\_967) = 0 TMP\_968 = 2 TMP\_969 = 1 not(TMP\_969) = 0 TMP\_970 = 1 not(TMP\_970) = 0 TMP\_971 = 1 not(TMP\_971) = 0 TMP\_972 = 1 not(TMP\_972) = 0 TMP\_973 = 1 not(TMP\_973) = 0 TMP\_974 = 0 not(TMP\_974) = 1 TMP\_975 = 5 TMP\_976 = 0 not(TMP\_976) = 1 TMP\_977 = 0 not(TMP\_977) = 1 TMP\_978 = 0 TMP\_979 = 1 not(TMP\_979) = 0 TMP\_980 = 1 not(TMP\_980) = 0 TMP\_981 = 2 TMP\_982 = 0 not(TMP\_982) = 1 TMP\_983 = 0 not(TMP\_983) = 1 TMP\_984 = 1 not(TMP\_984) = 0 TMP\_985 = 1 not(TMP\_985) = 0 TMP\_986 = 1 not(TMP\_986) = 0 TMP\_987 = 2 TMP\_988 = 1 not(TMP\_988) = 0 TMP\_989 = 1 not(TMP\_989) = 0 TMP\_990 = 0 not(TMP\_990) = 1 TMP\_991 = 1 not(TMP\_991) = 0 TMP\_992 = 1 not(TMP\_992) = 0 TMP\_993 = 1 not(TMP\_993) = 0 TMP\_994 = 5 TMP\_995 = 0 not(TMP\_995) = 1 TMP\_996 = 0 not(TMP\_996) = 1 TMP\_997 = 0 TMP\_998 = 1 not(TMP\_998) = 0 TMP\_999 = 1 not(TMP\_999) = 0 TMP\_1000 = 2 TMP\_1001 = 0 not(TMP\_1001) = 1 TMP\_1002 = 0 not(TMP\_1002) = 1 TMP\_1003 = 1 not(TMP\_1003) = 0 TMP\_1004 = 1 not(TMP\_1004) = 0 TMP\_1005 = 1 not(TMP\_1005) = 0 TMP\_1006 = 2 TMP\_1007 = 0 not(TMP\_1007) = 1 TMP\_1008 = 1 not(TMP\_1008) = 0 TMP\_1009 = 1 not(TMP\_1009) = 0 TMP\_1010 = 1 not(TMP\_1010) = 0 TMP\_1011 = 1 not(TMP\_1011) = 0 TMP\_1012 = 1 not(TMP\_1012) = 0 TMP\_1013 = 5 TMP\_1014 = 0 not(TMP\_1014) = 1 TMP\_1015 = 0 not(TMP\_1015) = 1 TMP\_1016 = 0 TMP\_1017 = 1 not(TMP\_1017) = 0 TMP\_1018 = 1 not(TMP\_1018) = 0 TMP\_1019 = 2 TMP\_1020 = 0 not(TMP\_1020) = 1 TMP\_1021 = 0 not(TMP\_1021) = 1 TMP\_1022 = 1 not(TMP\_1022) = 0 TMP\_1023 = 1 not(TMP\_1023) = 0 TMP\_1024 = 1 not(TMP\_1024) = 0 TMP\_1025 = 2 TMP\_1026 = 0 not(TMP\_1026) = 1 TMP\_1027 = 1 not(TMP\_1027) = 0 TMP\_1028 = 1 not(TMP\_1028) = 0 TMP\_1029 = 1 not(TMP\_1029) = 0 TMP\_1030 = 1 not(TMP\_1030) = 0 TMP\_1031 = 0 not(TMP\_1031) = 1 TMP\_1032 = 4 TMP\_1033 = 0 not(TMP\_1033) = 1 TMP\_1034 = 0 not(TMP\_1034) = 1 TMP\_1035 = 0 TMP\_1036 = 1 not(TMP\_1036) = 0 TMP\_1037 = 1 not(TMP\_1037) = 0 TMP\_1038 = 2 TMP\_1039 = 0 not(TMP\_1039) = 1 TMP\_1040 = 0 not(TMP\_1040) = 1 TMP\_1041 = 1 not(TMP\_1041) = 0 TMP\_1042 = 1 not(TMP\_1042) = 0 TMP\_1043 = 1 not(TMP\_1043) = 0 TMP\_1044 = 2 Area\_0 = 60 Distance\_0\_Rule\_0 = 20 Distance\_1\_Rule\_0 = 3 Distance\_2\_Rule\_0 = 1 Area\_1 = 174 Distance\_0\_Rule\_1 = 58 Distance\_1\_Rule\_1 = 3 Distance\_2\_Rule\_1 = 1 Area\_2 = 116 Distance\_0\_Rule\_2 = 58 Distance\_1\_Rule\_2 = 2 Distance\_2\_Rule\_2 = 1 Area\_3 = 58 Distance\_0\_Rule\_3 = 58 Distance\_1\_Rule\_3 = 1 Distance\_2\_Rule\_3 = 1 Area\_4 = 120 Distance\_0\_Rule\_4 = 40 Distance\_1\_Rule\_4 = 3 Distance\_2\_Rule\_4 = 1 Area\_5 = 120 Distance\_0\_Rule\_5 = 40 Distance\_1\_Rule\_5 = 3 Distance\_2\_Rule\_5 = 1 Area\_6 = 60 Distance\_0\_Rule\_6 = 20 Distance\_1\_Rule\_6 = 3 Distance\_2\_Rule\_6 = 1 Area\_7 = 3 -(Rule\_7\_LB) = -79 Distance\_0\_Rule\_7 = 1 -(Rule\_7\_LB) = 0 Distance\_1\_Rule\_7 = 3 -(Rule\_7\_LB) = -1 Distance\_2\_Rule\_7 = 1 Area\_8 = 1 -(Rule\_8\_LB) = -79 Distance\_0\_Rule\_8 = 1 -(Rule\_8\_LB) = 0 Distance\_1\_Rule\_8 = 1 -(Rule\_8\_LB) = 0 Distance\_2\_Rule\_8 = 1 Area\_9 = 3 -(Rule\_9\_LB) = -20 Distance\_0\_Rule\_9 = 1 -(Rule\_9\_LB) = 0 Distance\_1\_Rule\_9 = 3 -(Rule\_9\_LB) = 0 Distance\_2\_Rule\_9 = 1 Area\_10 = 3 -(Rule\_10\_LB) = -20 Distance\_0\_Rule\_10 = 1 -(Rule\_10\_LB) = 0 Distance\_1\_Rule\_10 = 3 -(Rule\_10\_LB) = -1 Distance\_2\_Rule\_10 = 1 Area\_11 = 2 -(Rule\_11\_LB) = -79 Distance\_0\_Rule\_11 = 1 -(Rule\_11\_LB) = -1 Distance\_1\_Rule\_11 = 2 -(Rule\_11\_LB) = 0 Distance\_2\_Rule\_11 = 1 TMP\_1045 = 720 .

- Solution #14 found. 14 Solutions, Resolution 1.398s, 1481 Nodes (1,059.7 n/s), 2823 Backtracks, 1405 Fails, 0 Restarts

Rule\_7\_LB = 79 Rule\_7\_UB = 80 Rule\_7\_LB = 0 Rule\_7\_UB = 3 Rule\_7\_LB = 1 Rule\_7\_UB = 2 Rule\_8\_LB = 79 Rule\_8\_UB = 80 Rule\_8\_LB = 0 Rule\_8\_UB = 1 Rule\_8\_LB = 0 Rule\_8\_UB = 1 Rule\_9\_LB = 20 Rule\_9\_UB = 21 Rule\_9\_LB = 0 Rule\_9\_UB = 3 Rule\_9\_LB = 0 Rule\_9\_UB = 1 Rule\_10\_LB = 20 Rule\_10\_UB = 21 Rule\_10\_LB = 0 Rule\_10\_UB = 3 Rule\_10\_LB = 1 Rule\_10\_UB = 2 Rule\_11\_LB = 79 Rule\_11\_UB = 80 Rule\_11\_LB = 1 Rule\_11\_UB = 3 Rule\_11\_LB = 0 Rule\_11\_UB = 1 Overlaps\_0\_0 = 0 Overlaps\_0\_1 = 0 Overlaps\_0\_2 = 0 Overlaps\_0\_3 = 0 Overlaps\_0\_4 = 0 Overlaps\_0\_5 = 0 Overlaps\_0\_6 = 0 Overlaps\_0\_7 = 0 Overlaps\_0\_8 = 0 Overlaps\_0\_9 = 0 Overlaps\_0\_10 = 0 Overlaps\_0\_11 = 0 Overlaps\_1\_0 = 0 Overlaps\_1\_1 = 0 Overlaps\_1\_2 = 1 Overlaps\_1\_3 = 0 Overlaps\_1\_4 = 0 Overlaps\_1\_5 = 0 Overlaps\_1\_6 = 0 Overlaps\_1\_7 = 0 Overlaps\_1\_8 = 0 Overlaps\_1\_9 = 0 Overlaps\_1\_10 = 0 Overlaps\_1\_11 = 0 Overlaps\_2\_0 = 0 Overlaps\_2\_1 = 0 Overlaps\_2\_2 = 0 Overlaps\_2\_3 = 0 Overlaps\_2\_4 = 0 Overlaps\_2\_5 = 1 Overlaps\_2\_6 = 0 Overlaps\_2\_7 = 0 Overlaps\_2\_8 = 0 Overlaps\_2\_9 = 0 Overlaps\_2\_10 = 0 Overlaps\_2\_11 = 0 Overlaps\_3\_0 = 0 Overlaps\_3\_1 = 0 Overlaps\_3\_2 = 0 Overlaps\_3\_3 = 0 Overlaps\_3\_4 = 0 Overlaps\_3\_5 = 0 Overlaps\_3\_6 = 0 Overlaps\_3\_7 = 0 Overlaps\_3\_8 = 0 Overlaps\_3\_9 = 0 Overlaps\_3\_10 = 0 Overlaps\_3\_11 = 0 Overlaps\_4\_0 = 0 Overlaps\_4\_1 = 0 Overlaps\_4\_2 = 0 Overlaps\_4\_3 = 0 Overlaps\_4\_4 = 0 Overlaps\_4\_5 = 1 Overlaps\_4\_6 = 0 Overlaps\_4\_7 = 0 Overlaps\_4\_8 = 0 Overlaps\_4\_9 = 0 Overlaps\_4\_10 = 0 Overlaps\_4\_11 = 0 Overlaps\_5\_0 = 0 Overlaps\_5\_1 = 0 Overlaps\_5\_2 = 0 Overlaps\_5\_3 = 0 Overlaps\_5\_4 = 0 Overlaps\_5\_5 = 0 Overlaps\_5\_6 = 0 Overlaps\_5\_7 = 0 Overlaps\_5\_8 = 0 Overlaps\_5\_9 = 0 Overlaps\_5\_10 = 0 Overlaps\_5\_11 = 0 Overlaps\_6\_0 = 0 Overlaps\_6\_1 = 0 Overlaps\_6\_2 = 0 Overlaps\_6\_3 = 0 Overlaps\_6\_4 = 0 Overlaps\_6\_5 = 0 Overlaps\_6\_6 = 0 Overlaps\_6\_7 = 0 Overlaps\_6\_8 = 0 Overlaps\_6\_9 = 0 Overlaps\_6\_10 = 0 Overlaps\_6\_11 = 0 Overlaps\_7\_0 = 0 Overlaps\_7\_1 = 0 Overlaps\_7\_2 = 0 Overlaps\_7\_3 = 0 Overlaps\_7\_4 = 0 Overlaps\_7\_5 = 0 Overlaps\_7\_6 = 0 Overlaps\_7\_7 = 0 Overlaps\_7\_8 = 0 Overlaps\_7\_9 = 0 Overlaps\_7\_10 = 0 Overlaps\_7\_11 = 0 Overlaps\_8\_0 = 0 Overlaps\_8\_1 = 0 Overlaps\_8\_2 = 0 Overlaps\_8\_3 = 0 Overlaps\_8\_4 = 0 Overlaps\_8\_5 = 0 Overlaps\_8\_6 = 0 Overlaps\_8\_7 = 0 Overlaps\_8\_8 = 0 Overlaps\_8\_9 = 0 Overlaps\_8\_10 = 0 Overlaps\_8\_11 = 0 Overlaps\_9\_0 = 0 Overlaps\_9\_1 = 0 Overlaps\_9\_2 = 0 Overlaps\_9\_3 = 0 Overlaps\_9\_4 = 0 Overlaps\_9\_5 = 0 Overlaps\_9\_6 = 0 Overlaps\_9\_7 = 0 Overlaps\_9\_8 = 0 Overlaps\_9\_9 = 0 Overlaps\_9\_10 = 0 Overlaps\_9\_11 = 0 Overlaps\_10\_0 = 0 Overlaps\_10\_1 = 0 Overlaps\_10\_2 = 0 Overlaps\_10\_3 = 0 Overlaps\_10\_4 = 0 Overlaps\_10\_5 = 0 Overlaps\_10\_6 = 0 Overlaps\_10\_7 = 0 Overlaps\_10\_8 = 0 Overlaps\_10\_9 = 0 Overlaps\_10\_10 = 0 Overlaps\_10\_11 = 0 Overlaps\_11\_0 = 0 Overlaps\_11\_1 = 0 Overlaps\_11\_2 = 0 Overlaps\_11\_3 = 0 Overlaps\_11\_4 = 0 Overlaps\_11\_5 = 0 Overlaps\_11\_6 = 0 Overlaps\_11\_7 = 0 Overlaps\_11\_8 = 0 Overlaps\_11\_9 = 0 Overlaps\_11\_10 = 0 Overlaps\_11\_11 = 0 TMP\_0 = 0 not(TMP\_0) = 1 TMP\_1 = 1 not(TMP\_1) = 0 TMP\_2 = 1 not(TMP\_2) = 0 TMP\_3 = 1 not(TMP\_3) = 0 TMP\_4 = 1 not(TMP\_4) = 0 TMP\_5 = 1 not(TMP\_5) = 0 TMP\_6 = 5 TMP\_7 = 0 not(TMP\_7) = 1 TMP\_8 = 0 not(TMP\_8) = 1 TMP\_9 = 0 TMP\_10 = 1 not(TMP\_10) = 0 TMP\_11 = 1 not(TMP\_11) = 0 TMP\_12 = 2 TMP\_13 = 0 not(TMP\_13) = 1 TMP\_14 = 0 not(TMP\_14) = 1 TMP\_15 = 1 not(TMP\_15) = 0 TMP\_16 = 1 not(TMP\_16) = 0 TMP\_17 = 1 not(TMP\_17) = 0 TMP\_18 = 2 TMP\_19 = 0 not(TMP\_19) = 1 TMP\_20 = 1 not(TMP\_20) = 0 TMP\_21 = 1 not(TMP\_21) = 0 TMP\_22 = 1 not(TMP\_22) = 0 TMP\_23 = 1 not(TMP\_23) = 0 TMP\_24 = 1 not(TMP\_24) = 0 TMP\_25 = 5 TMP\_26 = 0 not(TMP\_26) = 1 TMP\_27 = 0 not(TMP\_27) = 1 TMP\_28 = 0 TMP\_29 = 1 not(TMP\_29) = 0 TMP\_30 = 1 not(TMP\_30) = 0 TMP\_31 = 2 TMP\_32 = 0 not(TMP\_32) = 1 TMP\_33 = 0 not(TMP\_33) = 1 TMP\_34 = 1 not(TMP\_34) = 0 TMP\_35 = 1 not(TMP\_35) = 0 TMP\_36 = 1 not(TMP\_36) = 0 TMP\_37 = 2 TMP\_38 = 0 not(TMP\_38) = 1 TMP\_39 = 1 not(TMP\_39) = 0 TMP\_40 = 1 not(TMP\_40) = 0 TMP\_41 = 1 not(TMP\_41) = 0 TMP\_42 = 0 not(TMP\_42) = 1 TMP\_43 = 1 not(TMP\_43) = 0 TMP\_44 = 4 TMP\_45 = 0 not(TMP\_45) = 1 TMP\_46 = 0 not(TMP\_46) = 1 TMP\_47 = 0 TMP\_48 = 1 not(TMP\_48) = 0 TMP\_49 = 1 not(TMP\_49) = 0 TMP\_50 = 2 TMP\_51 = 0 not(TMP\_51) = 1 TMP\_52 = 0 not(TMP\_52) = 1 TMP\_53 = 1 not(TMP\_53) = 0 TMP\_54 = 1 not(TMP\_54) = 0 TMP\_55 = 1 not(TMP\_55) = 0 TMP\_56 = 2 TMP\_57 = 0 not(TMP\_57) = 1 TMP\_58 = 1 not(TMP\_58) = 0 TMP\_59 = 1 not(TMP\_59) = 0 TMP\_60 = 1 not(TMP\_60) = 0 TMP\_61 = 0 not(TMP\_61) = 1 TMP\_62 = 1 not(TMP\_62) = 0 TMP\_63 = 4 TMP\_64 = 0 not(TMP\_64) = 1 TMP\_65 = 0 not(TMP\_65) = 1 TMP\_66 = 0 TMP\_67 = 1 not(TMP\_67) = 0 TMP\_68 = 1 not(TMP\_68) = 0 TMP\_69 = 2 TMP\_70 = 0 not(TMP\_70) = 1 TMP\_71 = 0 not(TMP\_71) = 1 TMP\_72 = 1 not(TMP\_72) = 0 TMP\_73 = 1 not(TMP\_73) = 0 TMP\_74 = 1 not(TMP\_74) = 0 TMP\_75 = 2 TMP\_76 = 1 not(TMP\_76) = 0 TMP\_77 = 0 not(TMP\_77) = 1 TMP\_78 = 1 not(TMP\_78) = 0 TMP\_79 = 1 not(TMP\_79) = 0 TMP\_80 = 0 not(TMP\_80) = 1 TMP\_81 = 1 not(TMP\_81) = 0 TMP\_82 = 4 TMP\_83 = 0 not(TMP\_83) = 1 TMP\_84 = 0 not(TMP\_84) = 1 TMP\_85 = 0 TMP\_86 = 1 not(TMP\_86) = 0 TMP\_87 = 1 not(TMP\_87) = 0 TMP\_88 = 2 TMP\_89 = 0 not(TMP\_89) = 1 TMP\_90 = 0 not(TMP\_90) = 1 TMP\_91 = 1 not(TMP\_91) = 0 TMP\_92 = 1 not(TMP\_92) = 0 TMP\_93 = 1 not(TMP\_93) = 0 TMP\_94 = 2 TMP\_95 = 1 not(TMP\_95) = 0 TMP\_96 = 0 not(TMP\_96) = 1 TMP\_97 = 1 not(TMP\_97) = 0 TMP\_98 = 1 not(TMP\_98) = 0 TMP\_99 = 1 not(TMP\_99) = 0 TMP\_100 = 1 not(TMP\_100) = 0 TMP\_101 = 5 TMP\_102 = 0 not(TMP\_102) = 1 TMP\_103 = 0 not(TMP\_103) = 1 TMP\_104 = 0 TMP\_105 = 1 not(TMP\_105) = 0 TMP\_106 = 1 not(TMP\_106) = 0 TMP\_107 = 2 TMP\_108 = 0 not(TMP\_108) = 1 TMP\_109 = 0 not(TMP\_109) = 1 TMP\_110 = 1 not(TMP\_110) = 0 TMP\_111 = 1 not(TMP\_111) = 0 TMP\_112 = 1 not(TMP\_112) = 0 TMP\_113 = 2 TMP\_114 = 0 not(TMP\_114) = 1 TMP\_115 = 1 not(TMP\_115) = 0 TMP\_116 = 1 not(TMP\_116) = 0 TMP\_117 = 1 not(TMP\_117) = 0 TMP\_118 = 0 not(TMP\_118) = 1 TMP\_119 = 1 not(TMP\_119) = 0 TMP\_120 = 4 TMP\_121 = 0 not(TMP\_121) = 1 TMP\_122 = 0 not(TMP\_122) = 1 TMP\_123 = 0 TMP\_124 = 1 not(TMP\_124) = 0 TMP\_125 = 1 not(TMP\_125) = 0 TMP\_126 = 2 TMP\_127 = 0 not(TMP\_127) = 1 TMP\_128 = 0 not(TMP\_128) = 1 TMP\_129 = 1 not(TMP\_129) = 0 TMP\_130 = 1 not(TMP\_130) = 0 TMP\_131 = 1 not(TMP\_131) = 0 TMP\_132 = 2 TMP\_133 = 1 not(TMP\_133) = 0 TMP\_134 = 1 not(TMP\_134) = 0 TMP\_135 = 1 not(TMP\_135) = 0 TMP\_136 = 1 not(TMP\_136) = 0 TMP\_137 = 0 not(TMP\_137) = 1 TMP\_138 = 1 not(TMP\_138) = 0 TMP\_139 = 5 TMP\_140 = 0 not(TMP\_140) = 1 TMP\_141 = 0 not(TMP\_141) = 1 TMP\_142 = 0 TMP\_143 = 1 not(TMP\_143) = 0 TMP\_144 = 1 not(TMP\_144) = 0 TMP\_145 = 2 TMP\_146 = 0 not(TMP\_146) = 1 TMP\_147 = 0 not(TMP\_147) = 1 TMP\_148 = 1 not(TMP\_148) = 0 TMP\_149 = 1 not(TMP\_149) = 0 TMP\_150 = 1 not(TMP\_150) = 0 TMP\_151 = 2 TMP\_152 = 0 not(TMP\_152) = 1 TMP\_153 = 1 not(TMP\_153) = 0 TMP\_154 = 1 not(TMP\_154) = 0 TMP\_155 = 1 not(TMP\_155) = 0 TMP\_156 = 0 not(TMP\_156) = 1 TMP\_157 = 1 not(TMP\_157) = 0 TMP\_158 = 4 TMP\_159 = 0 not(TMP\_159) = 1 TMP\_160 = 0 not(TMP\_160) = 1 TMP\_161 = 0 TMP\_162 = 1 not(TMP\_162) = 0 TMP\_163 = 1 not(TMP\_163) = 0 TMP\_164 = 2 TMP\_165 = 0 not(TMP\_165) = 1 TMP\_166 = 0 not(TMP\_166) = 1 TMP\_167 = 1 not(TMP\_167) = 0 TMP\_168 = 1 not(TMP\_168) = 0 TMP\_169 = 1 not(TMP\_169) = 0 TMP\_170 = 2 TMP\_171 = 0 not(TMP\_171) = 1 TMP\_172 = 1 not(TMP\_172) = 0 TMP\_173 = 1 not(TMP\_173) = 0 TMP\_174 = 1 not(TMP\_174) = 0 TMP\_175 = 1 not(TMP\_175) = 0 TMP\_176 = 1 not(TMP\_176) = 0 TMP\_177 = 5 TMP\_178 = 0 not(TMP\_178) = 1 TMP\_179 = 0 not(TMP\_179) = 1 TMP\_180 = 0 TMP\_181 = 1 not(TMP\_181) = 0 TMP\_182 = 1 not(TMP\_182) = 0 TMP\_183 = 2 TMP\_184 = 0 not(TMP\_184) = 1 TMP\_185 = 0 not(TMP\_185) = 1 TMP\_186 = 1 not(TMP\_186) = 0 TMP\_187 = 1 not(TMP\_187) = 0 TMP\_188 = 1 not(TMP\_188) = 0 TMP\_189 = 2 TMP\_190 = 1 not(TMP\_190) = 0 TMP\_191 = 1 not(TMP\_191) = 0 TMP\_192 = 1 not(TMP\_192) = 0 TMP\_193 = 1 not(TMP\_193) = 0 TMP\_194 = 0 not(TMP\_194) = 1 TMP\_195 = 1 not(TMP\_195) = 0 TMP\_196 = 5 TMP\_197 = 0 not(TMP\_197) = 1 TMP\_198 = 0 not(TMP\_198) = 1 TMP\_199 = 0 TMP\_200 = 1 not(TMP\_200) = 0 TMP\_201 = 1 not(TMP\_201) = 0 TMP\_202 = 2 TMP\_203 = 0 not(TMP\_203) = 1 TMP\_204 = 0 not(TMP\_204) = 1 TMP\_205 = 1 not(TMP\_205) = 0 TMP\_206 = 1 not(TMP\_206) = 0 TMP\_207 = 1 not(TMP\_207) = 0 TMP\_208 = 2 TMP\_209 = 0 not(TMP\_209) = 1 TMP\_210 = 1 not(TMP\_210) = 0 TMP\_211 = 1 not(TMP\_211) = 0 TMP\_212 = 1 not(TMP\_212) = 0 TMP\_213 = 1 not(TMP\_213) = 0 TMP\_214 = 0 not(TMP\_214) = 1 TMP\_215 = 4 TMP\_216 = 0 not(TMP\_216) = 1 TMP\_217 = 0 not(TMP\_217) = 1 TMP\_218 = 0 TMP\_219 = 1 not(TMP\_219) = 0 TMP\_220 = 1 not(TMP\_220) = 0 TMP\_221 = 2 TMP\_222 = 0 not(TMP\_222) = 1 TMP\_223 = 0 not(TMP\_223) = 1 TMP\_224 = 1 not(TMP\_224) = 0 TMP\_225 = 1 not(TMP\_225) = 0 TMP\_226 = 1 not(TMP\_226) = 0 TMP\_227 = 2 TMP\_228 = 0 not(TMP\_228) = 1 TMP\_229 = 1 not(TMP\_229) = 0 TMP\_230 = 1 not(TMP\_230) = 0 TMP\_231 = 1 not(TMP\_231) = 0 TMP\_232 = 1 not(TMP\_232) = 0 TMP\_233 = 0 not(TMP\_233) = 1 TMP\_234 = 4 TMP\_235 = 0 not(TMP\_235) = 1 TMP\_236 = 0 not(TMP\_236) = 1 TMP\_237 = 0 TMP\_238 = 1 not(TMP\_238) = 0 TMP\_239 = 1 not(TMP\_239) = 0 TMP\_240 = 2 TMP\_241 = 0 not(TMP\_241) = 1 TMP\_242 = 0 not(TMP\_242) = 1 TMP\_243 = 1 not(TMP\_243) = 0 TMP\_244 = 1 not(TMP\_244) = 0 TMP\_245 = 1 not(TMP\_245) = 0 TMP\_246 = 2 TMP\_247 = 0 not(TMP\_247) = 1 TMP\_248 = 1 not(TMP\_248) = 0 TMP\_249 = 1 not(TMP\_249) = 0 TMP\_250 = 0 not(TMP\_250) = 1 TMP\_251 = 1 not(TMP\_251) = 0 TMP\_252 = 1 not(TMP\_252) = 0 TMP\_253 = 4 TMP\_254 = 0 not(TMP\_254) = 1 TMP\_255 = 0 not(TMP\_255) = 1 TMP\_256 = 0 TMP\_257 = 1 not(TMP\_257) = 0 TMP\_258 = 1 not(TMP\_258) = 0 TMP\_259 = 2 TMP\_260 = 0 not(TMP\_260) = 1 TMP\_261 = 0 not(TMP\_261) = 1 TMP\_262 = 1 not(TMP\_262) = 0 TMP\_263 = 1 not(TMP\_263) = 0 TMP\_264 = 1 not(TMP\_264) = 0 TMP\_265 = 2 TMP\_266 = 0 not(TMP\_266) = 1 TMP\_267 = 1 not(TMP\_267) = 0 TMP\_268 = 1 not(TMP\_268) = 0 TMP\_269 = 1 not(TMP\_269) = 0 TMP\_270 = 1 not(TMP\_270) = 0 TMP\_271 = 1 not(TMP\_271) = 0 TMP\_272 = 5 TMP\_273 = 0 not(TMP\_273) = 1 TMP\_274 = 0 not(TMP\_274) = 1 TMP\_275 = 0 TMP\_276 = 1 not(TMP\_276) = 0 TMP\_277 = 1 not(TMP\_277) = 0 TMP\_278 = 2 TMP\_279 = 0 not(TMP\_279) = 1 TMP\_280 = 0 not(TMP\_280) = 1 TMP\_281 = 1 not(TMP\_281) = 0 TMP\_282 = 1 not(TMP\_282) = 0 TMP\_283 = 1 not(TMP\_283) = 0 TMP\_284 = 2 TMP\_285 = 1 not(TMP\_285) = 0 TMP\_286 = 0 not(TMP\_286) = 1 TMP\_287 = 1 not(TMP\_287) = 0 TMP\_288 = 1 not(TMP\_288) = 0 TMP\_289 = 1 not(TMP\_289) = 0 TMP\_290 = 1 not(TMP\_290) = 0 TMP\_291 = 5 TMP\_292 = 0 not(TMP\_292) = 1 TMP\_293 = 0 not(TMP\_293) = 1 TMP\_294 = 0 TMP\_295 = 1 not(TMP\_295) = 0 TMP\_296 = 1 not(TMP\_296) = 0 TMP\_297 = 2 TMP\_298 = 0 not(TMP\_298) = 1 TMP\_299 = 0 not(TMP\_299) = 1 TMP\_300 = 1 not(TMP\_300) = 0 TMP\_301 = 1 not(TMP\_301) = 0 TMP\_302 = 1 not(TMP\_302) = 0 TMP\_303 = 2 TMP\_304 = 1 not(TMP\_304) = 0 TMP\_305 = 0 not(TMP\_305) = 1 TMP\_306 = 1 not(TMP\_306) = 0 TMP\_307 = 1 not(TMP\_307) = 0 TMP\_308 = 1 not(TMP\_308) = 0 TMP\_309 = 0 not(TMP\_309) = 1 TMP\_310 = 4 TMP\_311 = 0 not(TMP\_311) = 1 TMP\_312 = 0 not(TMP\_312) = 1 TMP\_313 = 0 TMP\_314 = 1 not(TMP\_314) = 0 TMP\_315 = 1 not(TMP\_315) = 0 TMP\_316 = 2 TMP\_317 = 0 not(TMP\_317) = 1 TMP\_318 = 0 not(TMP\_318) = 1 TMP\_319 = 1 not(TMP\_319) = 0 TMP\_320 = 1 not(TMP\_320) = 0 TMP\_321 = 1 not(TMP\_321) = 0 TMP\_322 = 2 TMP\_323 = 0 not(TMP\_323) = 1 TMP\_324 = 1 not(TMP\_324) = 0 TMP\_325 = 1 not(TMP\_325) = 0 TMP\_326 = 1 not(TMP\_326) = 0 TMP\_327 = 1 not(TMP\_327) = 0 TMP\_328 = 1 not(TMP\_328) = 0 TMP\_329 = 5 TMP\_330 = 0 not(TMP\_330) = 1 TMP\_331 = 0 not(TMP\_331) = 1 TMP\_332 = 0 TMP\_333 = 1 not(TMP\_333) = 0 TMP\_334 = 1 not(TMP\_334) = 0 TMP\_335 = 2 TMP\_336 = 0 not(TMP\_336) = 1 TMP\_337 = 0 not(TMP\_337) = 1 TMP\_338 = 1 not(TMP\_338) = 0 TMP\_339 = 1 not(TMP\_339) = 0 TMP\_340 = 1 not(TMP\_340) = 0 TMP\_341 = 2 TMP\_342 = 1 not(TMP\_342) = 0 TMP\_343 = 1 not(TMP\_343) = 0 TMP\_344 = 1 not(TMP\_344) = 0 TMP\_345 = 1 not(TMP\_345) = 0 TMP\_346 = 1 not(TMP\_346) = 0 TMP\_347 = 0 not(TMP\_347) = 1 TMP\_348 = 5 TMP\_349 = 0 not(TMP\_349) = 1 TMP\_350 = 0 not(TMP\_350) = 1 TMP\_351 = 0 TMP\_352 = 1 not(TMP\_352) = 0 TMP\_353 = 1 not(TMP\_353) = 0 TMP\_354 = 2 TMP\_355 = 0 not(TMP\_355) = 1 TMP\_356 = 0 not(TMP\_356) = 1 TMP\_357 = 1 not(TMP\_357) = 0 TMP\_358 = 1 not(TMP\_358) = 0 TMP\_359 = 1 not(TMP\_359) = 0 TMP\_360 = 2 TMP\_361 = 0 not(TMP\_361) = 1 TMP\_362 = 1 not(TMP\_362) = 0 TMP\_363 = 1 not(TMP\_363) = 0 TMP\_364 = 1 not(TMP\_364) = 0 TMP\_365 = 1 not(TMP\_365) = 0 TMP\_366 = 1 not(TMP\_366) = 0 TMP\_367 = 5 TMP\_368 = 0 not(TMP\_368) = 1 TMP\_369 = 0 not(TMP\_369) = 1 TMP\_370 = 0 TMP\_371 = 1 not(TMP\_371) = 0 TMP\_372 = 1 not(TMP\_372) = 0 TMP\_373 = 2 TMP\_374 = 0 not(TMP\_374) = 1 TMP\_375 = 0 not(TMP\_375) = 1 TMP\_376 = 1 not(TMP\_376) = 0 TMP\_377 = 1 not(TMP\_377) = 0 TMP\_378 = 1 not(TMP\_378) = 0 TMP\_379 = 2 TMP\_380 = 0 not(TMP\_380) = 1 TMP\_381 = 1 not(TMP\_381) = 0 TMP\_382 = 1 not(TMP\_382) = 0 TMP\_383 = 1 not(TMP\_383) = 0 TMP\_384 = 1 not(TMP\_384) = 0 TMP\_385 = 0 not(TMP\_385) = 1 TMP\_386 = 4 TMP\_387 = 0 not(TMP\_387) = 1 TMP\_388 = 0 not(TMP\_388) = 1 TMP\_389 = 0 TMP\_390 = 1 not(TMP\_390) = 0 TMP\_391 = 1 not(TMP\_391) = 0 TMP\_392 = 2 TMP\_393 = 0 not(TMP\_393) = 1 TMP\_394 = 0 not(TMP\_394) = 1 TMP\_395 = 1 not(TMP\_395) = 0 TMP\_396 = 1 not(TMP\_396) = 0 TMP\_397 = 1 not(TMP\_397) = 0 TMP\_398 = 2 TMP\_399 = 1 not(TMP\_399) = 0 TMP\_400 = 1 not(TMP\_400) = 0 TMP\_401 = 1 not(TMP\_401) = 0 TMP\_402 = 0 not(TMP\_402) = 1 TMP\_403 = 1 not(TMP\_403) = 0 TMP\_404 = 1 not(TMP\_404) = 0 TMP\_405 = 5 TMP\_406 = 0 not(TMP\_406) = 1 TMP\_407 = 0 not(TMP\_407) = 1 TMP\_408 = 0 TMP\_409 = 1 not(TMP\_409) = 0 TMP\_410 = 1 not(TMP\_410) = 0 TMP\_411 = 2 TMP\_412 = 0 not(TMP\_412) = 1 TMP\_413 = 0 not(TMP\_413) = 1 TMP\_414 = 1 not(TMP\_414) = 0 TMP\_415 = 1 not(TMP\_415) = 0 TMP\_416 = 1 not(TMP\_416) = 0 TMP\_417 = 2 TMP\_418 = 0 not(TMP\_418) = 1 TMP\_419 = 1 not(TMP\_419) = 0 TMP\_420 = 1 not(TMP\_420) = 0 TMP\_421 = 1 not(TMP\_421) = 0 TMP\_422 = 1 not(TMP\_422) = 0 TMP\_423 = 0 not(TMP\_423) = 1 TMP\_424 = 4 TMP\_425 = 0 not(TMP\_425) = 1 TMP\_426 = 0 not(TMP\_426) = 1 TMP\_427 = 0 TMP\_428 = 1 not(TMP\_428) = 0 TMP\_429 = 1 not(TMP\_429) = 0 TMP\_430 = 2 TMP\_431 = 0 not(TMP\_431) = 1 TMP\_432 = 0 not(TMP\_432) = 1 TMP\_433 = 1 not(TMP\_433) = 0 TMP\_434 = 1 not(TMP\_434) = 0 TMP\_435 = 1 not(TMP\_435) = 0 TMP\_436 = 2 TMP\_437 = 1 not(TMP\_437) = 0 TMP\_438 = 0 not(TMP\_438) = 1 TMP\_439 = 1 not(TMP\_439) = 0 TMP\_440 = 1 not(TMP\_440) = 0 TMP\_441 = 1 not(TMP\_441) = 0 TMP\_442 = 0 not(TMP\_442) = 1 TMP\_443 = 4 TMP\_444 = 0 not(TMP\_444) = 1 TMP\_445 = 0 not(TMP\_445) = 1 TMP\_446 = 0 TMP\_447 = 1 not(TMP\_447) = 0 TMP\_448 = 1 not(TMP\_448) = 0 TMP\_449 = 2 TMP\_450 = 0 not(TMP\_450) = 1 TMP\_451 = 0 not(TMP\_451) = 1 TMP\_452 = 1 not(TMP\_452) = 0 TMP\_453 = 1 not(TMP\_453) = 0 TMP\_454 = 1 not(TMP\_454) = 0 TMP\_455 = 2 TMP\_456 = 1 not(TMP\_456) = 0 TMP\_457 = 0 not(TMP\_457) = 1 TMP\_458 = 1 not(TMP\_458) = 0 TMP\_459 = 1 not(TMP\_459) = 0 TMP\_460 = 1 not(TMP\_460) = 0 TMP\_461 = 1 not(TMP\_461) = 0 TMP\_462 = 5 TMP\_463 = 0 not(TMP\_463) = 1 TMP\_464 = 0 not(TMP\_464) = 1 TMP\_465 = 0 TMP\_466 = 1 not(TMP\_466) = 0 TMP\_467 = 1 not(TMP\_467) = 0 TMP\_468 = 2 TMP\_469 = 0 not(TMP\_469) = 1 TMP\_470 = 0 not(TMP\_470) = 1 TMP\_471 = 1 not(TMP\_471) = 0 TMP\_472 = 1 not(TMP\_472) = 0 TMP\_473 = 1 not(TMP\_473) = 0 TMP\_474 = 2 TMP\_475 = 1 not(TMP\_475) = 0 TMP\_476 = 0 not(TMP\_476) = 1 TMP\_477 = 1 not(TMP\_477) = 0 TMP\_478 = 1 not(TMP\_478) = 0 TMP\_479 = 1 not(TMP\_479) = 0 TMP\_480 = 1 not(TMP\_480) = 0 TMP\_481 = 5 TMP\_482 = 0 not(TMP\_482) = 1 TMP\_483 = 0 not(TMP\_483) = 1 TMP\_484 = 0 TMP\_485 = 1 not(TMP\_485) = 0 TMP\_486 = 1 not(TMP\_486) = 0 TMP\_487 = 2 TMP\_488 = 0 not(TMP\_488) = 1 TMP\_489 = 0 not(TMP\_489) = 1 TMP\_490 = 1 not(TMP\_490) = 0 TMP\_491 = 1 not(TMP\_491) = 0 TMP\_492 = 1 not(TMP\_492) = 0 TMP\_493 = 2 TMP\_494 = 1 not(TMP\_494) = 0 TMP\_495 = 0 not(TMP\_495) = 1 TMP\_496 = 1 not(TMP\_496) = 0 TMP\_497 = 1 not(TMP\_497) = 0 TMP\_498 = 1 not(TMP\_498) = 0 TMP\_499 = 1 not(TMP\_499) = 0 TMP\_500 = 5 TMP\_501 = 0 not(TMP\_501) = 1 TMP\_502 = 0 not(TMP\_502) = 1 TMP\_503 = 0 TMP\_504 = 1 not(TMP\_504) = 0 TMP\_505 = 1 not(TMP\_505) = 0 TMP\_506 = 2 TMP\_507 = 0 not(TMP\_507) = 1 TMP\_508 = 0 not(TMP\_508) = 1 TMP\_509 = 1 not(TMP\_509) = 0 TMP\_510 = 1 not(TMP\_510) = 0 TMP\_511 = 1 not(TMP\_511) = 0 TMP\_512 = 2 TMP\_513 = 1 not(TMP\_513) = 0 TMP\_514 = 0 not(TMP\_514) = 1 TMP\_515 = 1 not(TMP\_515) = 0 TMP\_516 = 1 not(TMP\_516) = 0 TMP\_517 = 1 not(TMP\_517) = 0 TMP\_518 = 0 not(TMP\_518) = 1 TMP\_519 = 4 TMP\_520 = 0 not(TMP\_520) = 1 TMP\_521 = 0 not(TMP\_521) = 1 TMP\_522 = 0 TMP\_523 = 1 not(TMP\_523) = 0 TMP\_524 = 1 not(TMP\_524) = 0 TMP\_525 = 2 TMP\_526 = 0 not(TMP\_526) = 1 TMP\_527 = 0 not(TMP\_527) = 1 TMP\_528 = 1 not(TMP\_528) = 0 TMP\_529 = 1 not(TMP\_529) = 0 TMP\_530 = 1 not(TMP\_530) = 0 TMP\_531 = 2 TMP\_532 = 0 not(TMP\_532) = 1 TMP\_533 = 1 not(TMP\_533) = 0 TMP\_534 = 1 not(TMP\_534) = 0 TMP\_535 = 1 not(TMP\_535) = 0 TMP\_536 = 1 not(TMP\_536) = 0 TMP\_537 = 1 not(TMP\_537) = 0 TMP\_538 = 5 TMP\_539 = 0 not(TMP\_539) = 1 TMP\_540 = 0 not(TMP\_540) = 1 TMP\_541 = 0 TMP\_542 = 1 not(TMP\_542) = 0 TMP\_543 = 1 not(TMP\_543) = 0 TMP\_544 = 2 TMP\_545 = 0 not(TMP\_545) = 1 TMP\_546 = 0 not(TMP\_546) = 1 TMP\_547 = 1 not(TMP\_547) = 0 TMP\_548 = 1 not(TMP\_548) = 0 TMP\_549 = 1 not(TMP\_549) = 0 TMP\_550 = 2 TMP\_551 = 1 not(TMP\_551) = 0 TMP\_552 = 0 not(TMP\_552) = 1 TMP\_553 = 1 not(TMP\_553) = 0 TMP\_554 = 1 not(TMP\_554) = 0 TMP\_555 = 1 not(TMP\_555) = 0 TMP\_556 = 0 not(TMP\_556) = 1 TMP\_557 = 4 TMP\_558 = 0 not(TMP\_558) = 1 TMP\_559 = 0 not(TMP\_559) = 1 TMP\_560 = 0 TMP\_561 = 1 not(TMP\_561) = 0 TMP\_562 = 1 not(TMP\_562) = 0 TMP\_563 = 2 TMP\_564 = 0 not(TMP\_564) = 1 TMP\_565 = 0 not(TMP\_565) = 1 TMP\_566 = 1 not(TMP\_566) = 0 TMP\_567 = 1 not(TMP\_567) = 0 TMP\_568 = 1 not(TMP\_568) = 0 TMP\_569 = 2 TMP\_570 = 1 not(TMP\_570) = 0 TMP\_571 = 0 not(TMP\_571) = 1 TMP\_572 = 1 not(TMP\_572) = 0 TMP\_573 = 1 not(TMP\_573) = 0 TMP\_574 = 1 not(TMP\_574) = 0 TMP\_575 = 1 not(TMP\_575) = 0 TMP\_576 = 5 TMP\_577 = 0 not(TMP\_577) = 1 TMP\_578 = 0 not(TMP\_578) = 1 TMP\_579 = 0 TMP\_580 = 1 not(TMP\_580) = 0 TMP\_581 = 1 not(TMP\_581) = 0 TMP\_582 = 2 TMP\_583 = 0 not(TMP\_583) = 1 TMP\_584 = 0 not(TMP\_584) = 1 TMP\_585 = 1 not(TMP\_585) = 0 TMP\_586 = 1 not(TMP\_586) = 0 TMP\_587 = 1 not(TMP\_587) = 0 TMP\_588 = 2 TMP\_589 = 1 not(TMP\_589) = 0 TMP\_590 = 1 not(TMP\_590) = 0 TMP\_591 = 1 not(TMP\_591) = 0 TMP\_592 = 1 not(TMP\_592) = 0 TMP\_593 = 1 not(TMP\_593) = 0 TMP\_594 = 0 not(TMP\_594) = 1 TMP\_595 = 5 TMP\_596 = 0 not(TMP\_596) = 1 TMP\_597 = 0 not(TMP\_597) = 1 TMP\_598 = 0 TMP\_599 = 1 not(TMP\_599) = 0 TMP\_600 = 1 not(TMP\_600) = 0 TMP\_601 = 2 TMP\_602 = 0 not(TMP\_602) = 1 TMP\_603 = 0 not(TMP\_603) = 1 TMP\_604 = 1 not(TMP\_604) = 0 TMP\_605 = 1 not(TMP\_605) = 0 TMP\_606 = 1 not(TMP\_606) = 0 TMP\_607 = 2 TMP\_608 = 1 not(TMP\_608) = 0 TMP\_609 = 0 not(TMP\_609) = 1 TMP\_610 = 1 not(TMP\_610) = 0 TMP\_611 = 1 not(TMP\_611) = 0 TMP\_612 = 1 not(TMP\_612) = 0 TMP\_613 = 1 not(TMP\_613) = 0 TMP\_614 = 5 TMP\_615 = 0 not(TMP\_615) = 1 TMP\_616 = 0 not(TMP\_616) = 1 TMP\_617 = 0 TMP\_618 = 1 not(TMP\_618) = 0 TMP\_619 = 1 not(TMP\_619) = 0 TMP\_620 = 2 TMP\_621 = 0 not(TMP\_621) = 1 TMP\_622 = 0 not(TMP\_622) = 1 TMP\_623 = 1 not(TMP\_623) = 0 TMP\_624 = 1 not(TMP\_624) = 0 TMP\_625 = 1 not(TMP\_625) = 0 TMP\_626 = 2 TMP\_627 = 0 not(TMP\_627) = 1 TMP\_628 = 1 not(TMP\_628) = 0 TMP\_629 = 1 not(TMP\_629) = 0 TMP\_630 = 1 not(TMP\_630) = 0 TMP\_631 = 1 not(TMP\_631) = 0 TMP\_632 = 1 not(TMP\_632) = 0 TMP\_633 = 5 TMP\_634 = 0 not(TMP\_634) = 1 TMP\_635 = 0 not(TMP\_635) = 1 TMP\_636 = 0 TMP\_637 = 1 not(TMP\_637) = 0 TMP\_638 = 1 not(TMP\_638) = 0 TMP\_639 = 2 TMP\_640 = 0 not(TMP\_640) = 1 TMP\_641 = 0 not(TMP\_641) = 1 TMP\_642 = 1 not(TMP\_642) = 0 TMP\_643 = 1 not(TMP\_643) = 0 TMP\_644 = 1 not(TMP\_644) = 0 TMP\_645 = 2 TMP\_646 = 1 not(TMP\_646) = 0 TMP\_647 = 0 not(TMP\_647) = 1 TMP\_648 = 1 not(TMP\_648) = 0 TMP\_649 = 1 not(TMP\_649) = 0 TMP\_650 = 1 not(TMP\_650) = 0 TMP\_651 = 1 not(TMP\_651) = 0 TMP\_652 = 5 TMP\_653 = 0 not(TMP\_653) = 1 TMP\_654 = 0 not(TMP\_654) = 1 TMP\_655 = 0 TMP\_656 = 1 not(TMP\_656) = 0 TMP\_657 = 1 not(TMP\_657) = 0 TMP\_658 = 2 TMP\_659 = 0 not(TMP\_659) = 1 TMP\_660 = 0 not(TMP\_660) = 1 TMP\_661 = 1 not(TMP\_661) = 0 TMP\_662 = 1 not(TMP\_662) = 0 TMP\_663 = 1 not(TMP\_663) = 0 TMP\_664 = 2 TMP\_665 = 1 not(TMP\_665) = 0 TMP\_666 = 0 not(TMP\_666) = 1 TMP\_667 = 1 not(TMP\_667) = 0 TMP\_668 = 1 not(TMP\_668) = 0 TMP\_669 = 0 not(TMP\_669) = 1 TMP\_670 = 1 not(TMP\_670) = 0 TMP\_671 = 4 TMP\_672 = 0 not(TMP\_672) = 1 TMP\_673 = 0 not(TMP\_673) = 1 TMP\_674 = 0 TMP\_675 = 1 not(TMP\_675) = 0 TMP\_676 = 1 not(TMP\_676) = 0 TMP\_677 = 2 TMP\_678 = 0 not(TMP\_678) = 1 TMP\_679 = 0 not(TMP\_679) = 1 TMP\_680 = 1 not(TMP\_680) = 0 TMP\_681 = 1 not(TMP\_681) = 0 TMP\_682 = 1 not(TMP\_682) = 0 TMP\_683 = 2 TMP\_684 = 1 not(TMP\_684) = 0 TMP\_685 = 0 not(TMP\_685) = 1 TMP\_686 = 1 not(TMP\_686) = 0 TMP\_687 = 1 not(TMP\_687) = 0 TMP\_688 = 0 not(TMP\_688) = 1 TMP\_689 = 1 not(TMP\_689) = 0 TMP\_690 = 4 TMP\_691 = 0 not(TMP\_691) = 1 TMP\_692 = 0 not(TMP\_692) = 1 TMP\_693 = 0 TMP\_694 = 1 not(TMP\_694) = 0 TMP\_695 = 1 not(TMP\_695) = 0 TMP\_696 = 2 TMP\_697 = 0 not(TMP\_697) = 1 TMP\_698 = 0 not(TMP\_698) = 1 TMP\_699 = 1 not(TMP\_699) = 0 TMP\_700 = 1 not(TMP\_700) = 0 TMP\_701 = 1 not(TMP\_701) = 0 TMP\_702 = 2 TMP\_703 = 1 not(TMP\_703) = 0 TMP\_704 = 0 not(TMP\_704) = 1 TMP\_705 = 1 not(TMP\_705) = 0 TMP\_706 = 1 not(TMP\_706) = 0 TMP\_707 = 0 not(TMP\_707) = 1 TMP\_708 = 1 not(TMP\_708) = 0 TMP\_709 = 4 TMP\_710 = 0 not(TMP\_710) = 1 TMP\_711 = 0 not(TMP\_711) = 1 TMP\_712 = 0 TMP\_713 = 1 not(TMP\_713) = 0 TMP\_714 = 1 not(TMP\_714) = 0 TMP\_715 = 2 TMP\_716 = 0 not(TMP\_716) = 1 TMP\_717 = 0 not(TMP\_717) = 1 TMP\_718 = 1 not(TMP\_718) = 0 TMP\_719 = 1 not(TMP\_719) = 0 TMP\_720 = 1 not(TMP\_720) = 0 TMP\_721 = 2 TMP\_722 = 1 not(TMP\_722) = 0 TMP\_723 = 0 not(TMP\_723) = 1 TMP\_724 = 1 not(TMP\_724) = 0 TMP\_725 = 1 not(TMP\_725) = 0 TMP\_726 = 1 not(TMP\_726) = 0 TMP\_727 = 1 not(TMP\_727) = 0 TMP\_728 = 5 TMP\_729 = 0 not(TMP\_729) = 1 TMP\_730 = 0 not(TMP\_730) = 1 TMP\_731 = 0 TMP\_732 = 1 not(TMP\_732) = 0 TMP\_733 = 1 not(TMP\_733) = 0 TMP\_734 = 2 TMP\_735 = 0 not(TMP\_735) = 1 TMP\_736 = 0 not(TMP\_736) = 1 TMP\_737 = 1 not(TMP\_737) = 0 TMP\_738 = 1 not(TMP\_738) = 0 TMP\_739 = 1 not(TMP\_739) = 0 TMP\_740 = 2 TMP\_741 = 0 not(TMP\_741) = 1 TMP\_742 = 1 not(TMP\_742) = 0 TMP\_743 = 1 not(TMP\_743) = 0 TMP\_744 = 1 not(TMP\_744) = 0 TMP\_745 = 0 not(TMP\_745) = 1 TMP\_746 = 1 not(TMP\_746) = 0 TMP\_747 = 4 TMP\_748 = 0 not(TMP\_748) = 1 TMP\_749 = 0 not(TMP\_749) = 1 TMP\_750 = 0 TMP\_751 = 1 not(TMP\_751) = 0 TMP\_752 = 1 not(TMP\_752) = 0 TMP\_753 = 2 TMP\_754 = 0 not(TMP\_754) = 1 TMP\_755 = 0 not(TMP\_755) = 1 TMP\_756 = 1 not(TMP\_756) = 0 TMP\_757 = 1 not(TMP\_757) = 0 TMP\_758 = 1 not(TMP\_758) = 0 TMP\_759 = 2 TMP\_760 = 1 not(TMP\_760) = 0 TMP\_761 = 0 not(TMP\_761) = 1 TMP\_762 = 1 not(TMP\_762) = 0 TMP\_763 = 1 not(TMP\_763) = 0 TMP\_764 = 1 not(TMP\_764) = 0 TMP\_765 = 1 not(TMP\_765) = 0 TMP\_766 = 5 TMP\_767 = 0 not(TMP\_767) = 1 TMP\_768 = 0 not(TMP\_768) = 1 TMP\_769 = 0 TMP\_770 = 1 not(TMP\_770) = 0 TMP\_771 = 1 not(TMP\_771) = 0 TMP\_772 = 2 TMP\_773 = 0 not(TMP\_773) = 1 TMP\_774 = 0 not(TMP\_774) = 1 TMP\_775 = 1 not(TMP\_775) = 0 TMP\_776 = 1 not(TMP\_776) = 0 TMP\_777 = 1 not(TMP\_777) = 0 TMP\_778 = 2 TMP\_779 = 1 not(TMP\_779) = 0 TMP\_780 = 0 not(TMP\_780) = 1 TMP\_781 = 1 not(TMP\_781) = 0 TMP\_782 = 1 not(TMP\_782) = 0 TMP\_783 = 0 not(TMP\_783) = 1 TMP\_784 = 1 not(TMP\_784) = 0 TMP\_785 = 4 TMP\_786 = 0 not(TMP\_786) = 1 TMP\_787 = 0 not(TMP\_787) = 1 TMP\_788 = 0 TMP\_789 = 1 not(TMP\_789) = 0 TMP\_790 = 1 not(TMP\_790) = 0 TMP\_791 = 2 TMP\_792 = 0 not(TMP\_792) = 1 TMP\_793 = 0 not(TMP\_793) = 1 TMP\_794 = 1 not(TMP\_794) = 0 TMP\_795 = 1 not(TMP\_795) = 0 TMP\_796 = 1 not(TMP\_796) = 0 TMP\_797 = 2 TMP\_798 = 1 not(TMP\_798) = 0 TMP\_799 = 1 not(TMP\_799) = 0 TMP\_800 = 1 not(TMP\_800) = 0 TMP\_801 = 1 not(TMP\_801) = 0 TMP\_802 = 0 not(TMP\_802) = 1 TMP\_803 = 1 not(TMP\_803) = 0 TMP\_804 = 5 TMP\_805 = 0 not(TMP\_805) = 1 TMP\_806 = 0 not(TMP\_806) = 1 TMP\_807 = 0 TMP\_808 = 1 not(TMP\_808) = 0 TMP\_809 = 1 not(TMP\_809) = 0 TMP\_810 = 2 TMP\_811 = 0 not(TMP\_811) = 1 TMP\_812 = 0 not(TMP\_812) = 1 TMP\_813 = 1 not(TMP\_813) = 0 TMP\_814 = 1 not(TMP\_814) = 0 TMP\_815 = 1 not(TMP\_815) = 0 TMP\_816 = 2 TMP\_817 = 1 not(TMP\_817) = 0 TMP\_818 = 0 not(TMP\_818) = 1 TMP\_819 = 1 not(TMP\_819) = 0 TMP\_820 = 1 not(TMP\_820) = 0 TMP\_821 = 0 not(TMP\_821) = 1 TMP\_822 = 1 not(TMP\_822) = 0 TMP\_823 = 4 TMP\_824 = 0 not(TMP\_824) = 1 TMP\_825 = 0 not(TMP\_825) = 1 TMP\_826 = 0 TMP\_827 = 1 not(TMP\_827) = 0 TMP\_828 = 1 not(TMP\_828) = 0 TMP\_829 = 2 TMP\_830 = 0 not(TMP\_830) = 1 TMP\_831 = 0 not(TMP\_831) = 1 TMP\_832 = 1 not(TMP\_832) = 0 TMP\_833 = 1 not(TMP\_833) = 0 TMP\_834 = 1 not(TMP\_834) = 0 TMP\_835 = 2 TMP\_836 = 0 not(TMP\_836) = 1 TMP\_837 = 1 not(TMP\_837) = 0 TMP\_838 = 1 not(TMP\_838) = 0 TMP\_839 = 1 not(TMP\_839) = 0 TMP\_840 = 1 not(TMP\_840) = 0 TMP\_841 = 0 not(TMP\_841) = 1 TMP\_842 = 4 TMP\_843 = 0 not(TMP\_843) = 1 TMP\_844 = 0 not(TMP\_844) = 1 TMP\_845 = 0 TMP\_846 = 1 not(TMP\_846) = 0 TMP\_847 = 1 not(TMP\_847) = 0 TMP\_848 = 2 TMP\_849 = 0 not(TMP\_849) = 1 TMP\_850 = 0 not(TMP\_850) = 1 TMP\_851 = 1 not(TMP\_851) = 0 TMP\_852 = 1 not(TMP\_852) = 0 TMP\_853 = 1 not(TMP\_853) = 0 TMP\_854 = 2 TMP\_855 = 0 not(TMP\_855) = 1 TMP\_856 = 1 not(TMP\_856) = 0 TMP\_857 = 1 not(TMP\_857) = 0 TMP\_858 = 1 not(TMP\_858) = 0 TMP\_859 = 1 not(TMP\_859) = 0 TMP\_860 = 0 not(TMP\_860) = 1 TMP\_861 = 4 TMP\_862 = 0 not(TMP\_862) = 1 TMP\_863 = 0 not(TMP\_863) = 1 TMP\_864 = 0 TMP\_865 = 1 not(TMP\_865) = 0 TMP\_866 = 1 not(TMP\_866) = 0 TMP\_867 = 2 TMP\_868 = 0 not(TMP\_868) = 1 TMP\_869 = 0 not(TMP\_869) = 1 TMP\_870 = 1 not(TMP\_870) = 0 TMP\_871 = 1 not(TMP\_871) = 0 TMP\_872 = 1 not(TMP\_872) = 0 TMP\_873 = 2 TMP\_874 = 0 not(TMP\_874) = 1 TMP\_875 = 1 not(TMP\_875) = 0 TMP\_876 = 1 not(TMP\_876) = 0 TMP\_877 = 1 not(TMP\_877) = 0 TMP\_878 = 1 not(TMP\_878) = 0 TMP\_879 = 1 not(TMP\_879) = 0 TMP\_880 = 5 TMP\_881 = 0 not(TMP\_881) = 1 TMP\_882 = 0 not(TMP\_882) = 1 TMP\_883 = 0 TMP\_884 = 1 not(TMP\_884) = 0 TMP\_885 = 1 not(TMP\_885) = 0 TMP\_886 = 2 TMP\_887 = 0 not(TMP\_887) = 1 TMP\_888 = 0 not(TMP\_888) = 1 TMP\_889 = 1 not(TMP\_889) = 0 TMP\_890 = 1 not(TMP\_890) = 0 TMP\_891 = 1 not(TMP\_891) = 0 TMP\_892 = 2 TMP\_893 = 0 not(TMP\_893) = 1 TMP\_894 = 1 not(TMP\_894) = 0 TMP\_895 = 0 not(TMP\_895) = 1 TMP\_896 = 1 not(TMP\_896) = 0 TMP\_897 = 1 not(TMP\_897) = 0 TMP\_898 = 1 not(TMP\_898) = 0 TMP\_899 = 4 TMP\_900 = 0 not(TMP\_900) = 1 TMP\_901 = 0 not(TMP\_901) = 1 TMP\_902 = 0 TMP\_903 = 1 not(TMP\_903) = 0 TMP\_904 = 1 not(TMP\_904) = 0 TMP\_905 = 2 TMP\_906 = 0 not(TMP\_906) = 1 TMP\_907 = 0 not(TMP\_907) = 1 TMP\_908 = 1 not(TMP\_908) = 0 TMP\_909 = 1 not(TMP\_909) = 0 TMP\_910 = 1 not(TMP\_910) = 0 TMP\_911 = 2 TMP\_912 = 1 not(TMP\_912) = 0 TMP\_913 = 0 not(TMP\_913) = 1 TMP\_914 = 1 not(TMP\_914) = 0 TMP\_915 = 1 not(TMP\_915) = 0 TMP\_916 = 1 not(TMP\_916) = 0 TMP\_917 = 1 not(TMP\_917) = 0 TMP\_918 = 5 TMP\_919 = 0 not(TMP\_919) = 1 TMP\_920 = 0 not(TMP\_920) = 1 TMP\_921 = 0 TMP\_922 = 1 not(TMP\_922) = 0 TMP\_923 = 1 not(TMP\_923) = 0 TMP\_924 = 2 TMP\_925 = 0 not(TMP\_925) = 1 TMP\_926 = 0 not(TMP\_926) = 1 TMP\_927 = 1 not(TMP\_927) = 0 TMP\_928 = 1 not(TMP\_928) = 0 TMP\_929 = 1 not(TMP\_929) = 0 TMP\_930 = 2 TMP\_931 = 1 not(TMP\_931) = 0 TMP\_932 = 0 not(TMP\_932) = 1 TMP\_933 = 1 not(TMP\_933) = 0 TMP\_934 = 1 not(TMP\_934) = 0 TMP\_935 = 1 not(TMP\_935) = 0 TMP\_936 = 0 not(TMP\_936) = 1 TMP\_937 = 4 TMP\_938 = 0 not(TMP\_938) = 1 TMP\_939 = 0 not(TMP\_939) = 1 TMP\_940 = 0 TMP\_941 = 1 not(TMP\_941) = 0 TMP\_942 = 1 not(TMP\_942) = 0 TMP\_943 = 2 TMP\_944 = 0 not(TMP\_944) = 1 TMP\_945 = 0 not(TMP\_945) = 1 TMP\_946 = 1 not(TMP\_946) = 0 TMP\_947 = 1 not(TMP\_947) = 0 TMP\_948 = 1 not(TMP\_948) = 0 TMP\_949 = 2 TMP\_950 = 0 not(TMP\_950) = 1 TMP\_951 = 1 not(TMP\_951) = 0 TMP\_952 = 1 not(TMP\_952) = 0 TMP\_953 = 1 not(TMP\_953) = 0 TMP\_954 = 1 not(TMP\_954) = 0 TMP\_955 = 1 not(TMP\_955) = 0 TMP\_956 = 5 TMP\_957 = 0 not(TMP\_957) = 1 TMP\_958 = 0 not(TMP\_958) = 1 TMP\_959 = 0 TMP\_960 = 1 not(TMP\_960) = 0 TMP\_961 = 1 not(TMP\_961) = 0 TMP\_962 = 2 TMP\_963 = 0 not(TMP\_963) = 1 TMP\_964 = 0 not(TMP\_964) = 1 TMP\_965 = 1 not(TMP\_965) = 0 TMP\_966 = 1 not(TMP\_966) = 0 TMP\_967 = 1 not(TMP\_967) = 0 TMP\_968 = 2 TMP\_969 = 1 not(TMP\_969) = 0 TMP\_970 = 1 not(TMP\_970) = 0 TMP\_971 = 1 not(TMP\_971) = 0 TMP\_972 = 1 not(TMP\_972) = 0 TMP\_973 = 1 not(TMP\_973) = 0 TMP\_974 = 0 not(TMP\_974) = 1 TMP\_975 = 5 TMP\_976 = 0 not(TMP\_976) = 1 TMP\_977 = 0 not(TMP\_977) = 1 TMP\_978 = 0 TMP\_979 = 1 not(TMP\_979) = 0 TMP\_980 = 1 not(TMP\_980) = 0 TMP\_981 = 2 TMP\_982 = 0 not(TMP\_982) = 1 TMP\_983 = 0 not(TMP\_983) = 1 TMP\_984 = 1 not(TMP\_984) = 0 TMP\_985 = 1 not(TMP\_985) = 0 TMP\_986 = 1 not(TMP\_986) = 0 TMP\_987 = 2 TMP\_988 = 1 not(TMP\_988) = 0 TMP\_989 = 1 not(TMP\_989) = 0 TMP\_990 = 0 not(TMP\_990) = 1 TMP\_991 = 1 not(TMP\_991) = 0 TMP\_992 = 1 not(TMP\_992) = 0 TMP\_993 = 1 not(TMP\_993) = 0 TMP\_994 = 5 TMP\_995 = 0 not(TMP\_995) = 1 TMP\_996 = 0 not(TMP\_996) = 1 TMP\_997 = 0 TMP\_998 = 1 not(TMP\_998) = 0 TMP\_999 = 1 not(TMP\_999) = 0 TMP\_1000 = 2 TMP\_1001 = 0 not(TMP\_1001) = 1 TMP\_1002 = 0 not(TMP\_1002) = 1 TMP\_1003 = 1 not(TMP\_1003) = 0 TMP\_1004 = 1 not(TMP\_1004) = 0 TMP\_1005 = 1 not(TMP\_1005) = 0 TMP\_1006 = 2 TMP\_1007 = 0 not(TMP\_1007) = 1 TMP\_1008 = 1 not(TMP\_1008) = 0 TMP\_1009 = 1 not(TMP\_1009) = 0 TMP\_1010 = 1 not(TMP\_1010) = 0 TMP\_1011 = 1 not(TMP\_1011) = 0 TMP\_1012 = 1 not(TMP\_1012) = 0 TMP\_1013 = 5 TMP\_1014 = 0 not(TMP\_1014) = 1 TMP\_1015 = 0 not(TMP\_1015) = 1 TMP\_1016 = 0 TMP\_1017 = 1 not(TMP\_1017) = 0 TMP\_1018 = 1 not(TMP\_1018) = 0 TMP\_1019 = 2 TMP\_1020 = 0 not(TMP\_1020) = 1 TMP\_1021 = 0 not(TMP\_1021) = 1 TMP\_1022 = 1 not(TMP\_1022) = 0 TMP\_1023 = 1 not(TMP\_1023) = 0 TMP\_1024 = 1 not(TMP\_1024) = 0 TMP\_1025 = 2 TMP\_1026 = 0 not(TMP\_1026) = 1 TMP\_1027 = 1 not(TMP\_1027) = 0 TMP\_1028 = 1 not(TMP\_1028) = 0 TMP\_1029 = 1 not(TMP\_1029) = 0 TMP\_1030 = 1 not(TMP\_1030) = 0 TMP\_1031 = 0 not(TMP\_1031) = 1 TMP\_1032 = 4 TMP\_1033 = 0 not(TMP\_1033) = 1 TMP\_1034 = 0 not(TMP\_1034) = 1 TMP\_1035 = 0 TMP\_1036 = 1 not(TMP\_1036) = 0 TMP\_1037 = 1 not(TMP\_1037) = 0 TMP\_1038 = 2 TMP\_1039 = 0 not(TMP\_1039) = 1 TMP\_1040 = 0 not(TMP\_1040) = 1 TMP\_1041 = 1 not(TMP\_1041) = 0 TMP\_1042 = 1 not(TMP\_1042) = 0 TMP\_1043 = 1 not(TMP\_1043) = 0 TMP\_1044 = 2 Area\_0 = 60 Distance\_0\_Rule\_0 = 20 Distance\_1\_Rule\_0 = 3 Distance\_2\_Rule\_0 = 1 Area\_1 = 174 Distance\_0\_Rule\_1 = 58 Distance\_1\_Rule\_1 = 3 Distance\_2\_Rule\_1 = 1 Area\_2 = 116 Distance\_0\_Rule\_2 = 58 Distance\_1\_Rule\_2 = 2 Distance\_2\_Rule\_2 = 1 Area\_3 = 58 Distance\_0\_Rule\_3 = 58 Distance\_1\_Rule\_3 = 1 Distance\_2\_Rule\_3 = 1 Area\_4 = 120 Distance\_0\_Rule\_4 = 40 Distance\_1\_Rule\_4 = 3 Distance\_2\_Rule\_4 = 1 Area\_5 = 120 Distance\_0\_Rule\_5 = 40 Distance\_1\_Rule\_5 = 3 Distance\_2\_Rule\_5 = 1 Area\_6 = 60 Distance\_0\_Rule\_6 = 20 Distance\_1\_Rule\_6 = 3 Distance\_2\_Rule\_6 = 1 Area\_7 = 3 -(Rule\_7\_LB) = -79 Distance\_0\_Rule\_7 = 1 -(Rule\_7\_LB) = 0 Distance\_1\_Rule\_7 = 3 -(Rule\_7\_LB) = -1 Distance\_2\_Rule\_7 = 1 Area\_8 = 1 -(Rule\_8\_LB) = -79 Distance\_0\_Rule\_8 = 1 -(Rule\_8\_LB) = 0 Distance\_1\_Rule\_8 = 1 -(Rule\_8\_LB) = 0 Distance\_2\_Rule\_8 = 1 Area\_9 = 3 -(Rule\_9\_LB) = -20 Distance\_0\_Rule\_9 = 1 -(Rule\_9\_LB) = 0 Distance\_1\_Rule\_9 = 3 -(Rule\_9\_LB) = 0 Distance\_2\_Rule\_9 = 1 Area\_10 = 3 -(Rule\_10\_LB) = -20 Distance\_0\_Rule\_10 = 1 -(Rule\_10\_LB) = 0 Distance\_1\_Rule\_10 = 3 -(Rule\_10\_LB) = -1 Distance\_2\_Rule\_10 = 1 Area\_11 = 2 -(Rule\_11\_LB) = -79 Distance\_0\_Rule\_11 = 1 -(Rule\_11\_LB) = -1 Distance\_1\_Rule\_11 = 2 -(Rule\_11\_LB) = 0 Distance\_2\_Rule\_11 = 1 TMP\_1045 = 720 .

- Solution #15 found. 15 Solutions, Resolution 1.401s, 1483 Nodes (1,058.9 n/s), 2825 Backtracks, 1405 Fails, 0 Restarts

Rule\_7\_LB = 79 Rule\_7\_UB = 80 Rule\_7\_LB = 0 Rule\_7\_UB = 3 Rule\_7\_LB = 1 Rule\_7\_UB = 2 Rule\_8\_LB = 79 Rule\_8\_UB = 80 Rule\_8\_LB = 0 Rule\_8\_UB = 1 Rule\_8\_LB = 0 Rule\_8\_UB = 1 Rule\_9\_LB = 20 Rule\_9\_UB = 21 Rule\_9\_LB = 0 Rule\_9\_UB = 3 Rule\_9\_LB = 0 Rule\_9\_UB = 1 Rule\_10\_LB = 20 Rule\_10\_UB = 21 Rule\_10\_LB = 0 Rule\_10\_UB = 3 Rule\_10\_LB = 1 Rule\_10\_UB = 2 Rule\_11\_LB = 79 Rule\_11\_UB = 80 Rule\_11\_LB = 1 Rule\_11\_UB = 3 Rule\_11\_LB = 0 Rule\_11\_UB = 1 Overlaps\_0\_0 = 0 Overlaps\_0\_1 = 0 Overlaps\_0\_2 = 0 Overlaps\_0\_3 = 0 Overlaps\_0\_4 = 0 Overlaps\_0\_5 = 0 Overlaps\_0\_6 = 0 Overlaps\_0\_7 = 0 Overlaps\_0\_8 = 0 Overlaps\_0\_9 = 0 Overlaps\_0\_10 = 0 Overlaps\_0\_11 = 0 Overlaps\_1\_0 = 0 Overlaps\_1\_1 = 0 Overlaps\_1\_2 = 1 Overlaps\_1\_3 = 0 Overlaps\_1\_4 = 0 Overlaps\_1\_5 = 0 Overlaps\_1\_6 = 0 Overlaps\_1\_7 = 0 Overlaps\_1\_8 = 0 Overlaps\_1\_9 = 0 Overlaps\_1\_10 = 0 Overlaps\_1\_11 = 0 Overlaps\_2\_0 = 0 Overlaps\_2\_1 = 0 Overlaps\_2\_2 = 0 Overlaps\_2\_3 = 0 Overlaps\_2\_4 = 0 Overlaps\_2\_5 = 0 Overlaps\_2\_6 = 0 Overlaps\_2\_7 = 0 Overlaps\_2\_8 = 0 Overlaps\_2\_9 = 0 Overlaps\_2\_10 = 0 Overlaps\_2\_11 = 0 Overlaps\_3\_0 = 0 Overlaps\_3\_1 = 0 Overlaps\_3\_2 = 0 Overlaps\_3\_3 = 0 Overlaps\_3\_4 = 0 Overlaps\_3\_5 = 0 Overlaps\_3\_6 = 0 Overlaps\_3\_7 = 0 Overlaps\_3\_8 = 0 Overlaps\_3\_9 = 0 Overlaps\_3\_10 = 0 Overlaps\_3\_11 = 0 Overlaps\_4\_0 = 0 Overlaps\_4\_1 = 0 Overlaps\_4\_2 = 0 Overlaps\_4\_3 = 0 Overlaps\_4\_4 = 0 Overlaps\_4\_5 = 1 Overlaps\_4\_6 = 0 Overlaps\_4\_7 = 0 Overlaps\_4\_8 = 0 Overlaps\_4\_9 = 0 Overlaps\_4\_10 = 0 Overlaps\_4\_11 = 0 Overlaps\_5\_0 = 0 Overlaps\_5\_1 = 0 Overlaps\_5\_2 = 0 Overlaps\_5\_3 = 0 Overlaps\_5\_4 = 0 Overlaps\_5\_5 = 0 Overlaps\_5\_6 = 0 Overlaps\_5\_7 = 0 Overlaps\_5\_8 = 0 Overlaps\_5\_9 = 0 Overlaps\_5\_10 = 0 Overlaps\_5\_11 = 0 Overlaps\_6\_0 = 0 Overlaps\_6\_1 = 1 Overlaps\_6\_2 = 0 Overlaps\_6\_3 = 0 Overlaps\_6\_4 = 0 Overlaps\_6\_5 = 0 Overlaps\_6\_6 = 0 Overlaps\_6\_7 = 0 Overlaps\_6\_8 = 0 Overlaps\_6\_9 = 0 Overlaps\_6\_10 = 0 Overlaps\_6\_11 = 0 Overlaps\_7\_0 = 0 Overlaps\_7\_1 = 0 Overlaps\_7\_2 = 0 Overlaps\_7\_3 = 0 Overlaps\_7\_4 = 0 Overlaps\_7\_5 = 0 Overlaps\_7\_6 = 0 Overlaps\_7\_7 = 0 Overlaps\_7\_8 = 0 Overlaps\_7\_9 = 0 Overlaps\_7\_10 = 0 Overlaps\_7\_11 = 0 Overlaps\_8\_0 = 0 Overlaps\_8\_1 = 0 Overlaps\_8\_2 = 0 Overlaps\_8\_3 = 0 Overlaps\_8\_4 = 0 Overlaps\_8\_5 = 0 Overlaps\_8\_6 = 0 Overlaps\_8\_7 = 0 Overlaps\_8\_8 = 0 Overlaps\_8\_9 = 0 Overlaps\_8\_10 = 0 Overlaps\_8\_11 = 0 Overlaps\_9\_0 = 0 Overlaps\_9\_1 = 0 Overlaps\_9\_2 = 0 Overlaps\_9\_3 = 0 Overlaps\_9\_4 = 0 Overlaps\_9\_5 = 0 Overlaps\_9\_6 = 0 Overlaps\_9\_7 = 0 Overlaps\_9\_8 = 0 Overlaps\_9\_9 = 0 Overlaps\_9\_10 = 0 Overlaps\_9\_11 = 0 Overlaps\_10\_0 = 0 Overlaps\_10\_1 = 0 Overlaps\_10\_2 = 0 Overlaps\_10\_3 = 0 Overlaps\_10\_4 = 0 Overlaps\_10\_5 = 0 Overlaps\_10\_6 = 0 Overlaps\_10\_7 = 0 Overlaps\_10\_8 = 0 Overlaps\_10\_9 = 0 Overlaps\_10\_10 = 0 Overlaps\_10\_11 = 0 Overlaps\_11\_0 = 0 Overlaps\_11\_1 = 0 Overlaps\_11\_2 = 0 Overlaps\_11\_3 = 0 Overlaps\_11\_4 = 0 Overlaps\_11\_5 = 0 Overlaps\_11\_6 = 0 Overlaps\_11\_7 = 0 Overlaps\_11\_8 = 0 Overlaps\_11\_9 = 0 Overlaps\_11\_10 = 0 Overlaps\_11\_11 = 0 TMP\_0 = 0 not(TMP\_0) = 1 TMP\_1 = 1 not(TMP\_1) = 0 TMP\_2 = 1 not(TMP\_2) = 0 TMP\_3 = 1 not(TMP\_3) = 0 TMP\_4 = 1 not(TMP\_4) = 0 TMP\_5 = 1 not(TMP\_5) = 0 TMP\_6 = 5 TMP\_7 = 0 not(TMP\_7) = 1 TMP\_8 = 0 not(TMP\_8) = 1 TMP\_9 = 0 TMP\_10 = 1 not(TMP\_10) = 0 TMP\_11 = 1 not(TMP\_11) = 0 TMP\_12 = 2 TMP\_13 = 0 not(TMP\_13) = 1 TMP\_14 = 0 not(TMP\_14) = 1 TMP\_15 = 1 not(TMP\_15) = 0 TMP\_16 = 1 not(TMP\_16) = 0 TMP\_17 = 1 not(TMP\_17) = 0 TMP\_18 = 2 TMP\_19 = 0 not(TMP\_19) = 1 TMP\_20 = 1 not(TMP\_20) = 0 TMP\_21 = 1 not(TMP\_21) = 0 TMP\_22 = 1 not(TMP\_22) = 0 TMP\_23 = 1 not(TMP\_23) = 0 TMP\_24 = 1 not(TMP\_24) = 0 TMP\_25 = 5 TMP\_26 = 0 not(TMP\_26) = 1 TMP\_27 = 0 not(TMP\_27) = 1 TMP\_28 = 0 TMP\_29 = 1 not(TMP\_29) = 0 TMP\_30 = 1 not(TMP\_30) = 0 TMP\_31 = 2 TMP\_32 = 0 not(TMP\_32) = 1 TMP\_33 = 0 not(TMP\_33) = 1 TMP\_34 = 1 not(TMP\_34) = 0 TMP\_35 = 1 not(TMP\_35) = 0 TMP\_36 = 1 not(TMP\_36) = 0 TMP\_37 = 2 TMP\_38 = 0 not(TMP\_38) = 1 TMP\_39 = 1 not(TMP\_39) = 0 TMP\_40 = 1 not(TMP\_40) = 0 TMP\_41 = 1 not(TMP\_41) = 0 TMP\_42 = 0 not(TMP\_42) = 1 TMP\_43 = 1 not(TMP\_43) = 0 TMP\_44 = 4 TMP\_45 = 0 not(TMP\_45) = 1 TMP\_46 = 0 not(TMP\_46) = 1 TMP\_47 = 0 TMP\_48 = 1 not(TMP\_48) = 0 TMP\_49 = 1 not(TMP\_49) = 0 TMP\_50 = 2 TMP\_51 = 0 not(TMP\_51) = 1 TMP\_52 = 0 not(TMP\_52) = 1 TMP\_53 = 1 not(TMP\_53) = 0 TMP\_54 = 1 not(TMP\_54) = 0 TMP\_55 = 1 not(TMP\_55) = 0 TMP\_56 = 2 TMP\_57 = 0 not(TMP\_57) = 1 TMP\_58 = 1 not(TMP\_58) = 0 TMP\_59 = 1 not(TMP\_59) = 0 TMP\_60 = 1 not(TMP\_60) = 0 TMP\_61 = 0 not(TMP\_61) = 1 TMP\_62 = 1 not(TMP\_62) = 0 TMP\_63 = 4 TMP\_64 = 0 not(TMP\_64) = 1 TMP\_65 = 0 not(TMP\_65) = 1 TMP\_66 = 0 TMP\_67 = 1 not(TMP\_67) = 0 TMP\_68 = 1 not(TMP\_68) = 0 TMP\_69 = 2 TMP\_70 = 0 not(TMP\_70) = 1 TMP\_71 = 0 not(TMP\_71) = 1 TMP\_72 = 1 not(TMP\_72) = 0 TMP\_73 = 1 not(TMP\_73) = 0 TMP\_74 = 1 not(TMP\_74) = 0 TMP\_75 = 2 TMP\_76 = 1 not(TMP\_76) = 0 TMP\_77 = 0 not(TMP\_77) = 1 TMP\_78 = 1 not(TMP\_78) = 0 TMP\_79 = 1 not(TMP\_79) = 0 TMP\_80 = 0 not(TMP\_80) = 1 TMP\_81 = 1 not(TMP\_81) = 0 TMP\_82 = 4 TMP\_83 = 0 not(TMP\_83) = 1 TMP\_84 = 0 not(TMP\_84) = 1 TMP\_85 = 0 TMP\_86 = 1 not(TMP\_86) = 0 TMP\_87 = 1 not(TMP\_87) = 0 TMP\_88 = 2 TMP\_89 = 0 not(TMP\_89) = 1 TMP\_90 = 0 not(TMP\_90) = 1 TMP\_91 = 1 not(TMP\_91) = 0 TMP\_92 = 1 not(TMP\_92) = 0 TMP\_93 = 1 not(TMP\_93) = 0 TMP\_94 = 2 TMP\_95 = 1 not(TMP\_95) = 0 TMP\_96 = 0 not(TMP\_96) = 1 TMP\_97 = 1 not(TMP\_97) = 0 TMP\_98 = 1 not(TMP\_98) = 0 TMP\_99 = 1 not(TMP\_99) = 0 TMP\_100 = 1 not(TMP\_100) = 0 TMP\_101 = 5 TMP\_102 = 0 not(TMP\_102) = 1 TMP\_103 = 0 not(TMP\_103) = 1 TMP\_104 = 0 TMP\_105 = 1 not(TMP\_105) = 0 TMP\_106 = 1 not(TMP\_106) = 0 TMP\_107 = 2 TMP\_108 = 0 not(TMP\_108) = 1 TMP\_109 = 0 not(TMP\_109) = 1 TMP\_110 = 1 not(TMP\_110) = 0 TMP\_111 = 1 not(TMP\_111) = 0 TMP\_112 = 1 not(TMP\_112) = 0 TMP\_113 = 2 TMP\_114 = 0 not(TMP\_114) = 1 TMP\_115 = 1 not(TMP\_115) = 0 TMP\_116 = 1 not(TMP\_116) = 0 TMP\_117 = 1 not(TMP\_117) = 0 TMP\_118 = 0 not(TMP\_118) = 1 TMP\_119 = 1 not(TMP\_119) = 0 TMP\_120 = 4 TMP\_121 = 0 not(TMP\_121) = 1 TMP\_122 = 0 not(TMP\_122) = 1 TMP\_123 = 0 TMP\_124 = 1 not(TMP\_124) = 0 TMP\_125 = 1 not(TMP\_125) = 0 TMP\_126 = 2 TMP\_127 = 0 not(TMP\_127) = 1 TMP\_128 = 0 not(TMP\_128) = 1 TMP\_129 = 1 not(TMP\_129) = 0 TMP\_130 = 1 not(TMP\_130) = 0 TMP\_131 = 1 not(TMP\_131) = 0 TMP\_132 = 2 TMP\_133 = 1 not(TMP\_133) = 0 TMP\_134 = 1 not(TMP\_134) = 0 TMP\_135 = 1 not(TMP\_135) = 0 TMP\_136 = 1 not(TMP\_136) = 0 TMP\_137 = 0 not(TMP\_137) = 1 TMP\_138 = 1 not(TMP\_138) = 0 TMP\_139 = 5 TMP\_140 = 0 not(TMP\_140) = 1 TMP\_141 = 0 not(TMP\_141) = 1 TMP\_142 = 0 TMP\_143 = 1 not(TMP\_143) = 0 TMP\_144 = 1 not(TMP\_144) = 0 TMP\_145 = 2 TMP\_146 = 0 not(TMP\_146) = 1 TMP\_147 = 0 not(TMP\_147) = 1 TMP\_148 = 1 not(TMP\_148) = 0 TMP\_149 = 1 not(TMP\_149) = 0 TMP\_150 = 1 not(TMP\_150) = 0 TMP\_151 = 2 TMP\_152 = 0 not(TMP\_152) = 1 TMP\_153 = 1 not(TMP\_153) = 0 TMP\_154 = 1 not(TMP\_154) = 0 TMP\_155 = 1 not(TMP\_155) = 0 TMP\_156 = 0 not(TMP\_156) = 1 TMP\_157 = 1 not(TMP\_157) = 0 TMP\_158 = 4 TMP\_159 = 0 not(TMP\_159) = 1 TMP\_160 = 0 not(TMP\_160) = 1 TMP\_161 = 0 TMP\_162 = 1 not(TMP\_162) = 0 TMP\_163 = 1 not(TMP\_163) = 0 TMP\_164 = 2 TMP\_165 = 0 not(TMP\_165) = 1 TMP\_166 = 0 not(TMP\_166) = 1 TMP\_167 = 1 not(TMP\_167) = 0 TMP\_168 = 1 not(TMP\_168) = 0 TMP\_169 = 1 not(TMP\_169) = 0 TMP\_170 = 2 TMP\_171 = 0 not(TMP\_171) = 1 TMP\_172 = 1 not(TMP\_172) = 0 TMP\_173 = 1 not(TMP\_173) = 0 TMP\_174 = 1 not(TMP\_174) = 0 TMP\_175 = 1 not(TMP\_175) = 0 TMP\_176 = 1 not(TMP\_176) = 0 TMP\_177 = 5 TMP\_178 = 0 not(TMP\_178) = 1 TMP\_179 = 0 not(TMP\_179) = 1 TMP\_180 = 0 TMP\_181 = 1 not(TMP\_181) = 0 TMP\_182 = 1 not(TMP\_182) = 0 TMP\_183 = 2 TMP\_184 = 0 not(TMP\_184) = 1 TMP\_185 = 0 not(TMP\_185) = 1 TMP\_186 = 1 not(TMP\_186) = 0 TMP\_187 = 1 not(TMP\_187) = 0 TMP\_188 = 1 not(TMP\_188) = 0 TMP\_189 = 2 TMP\_190 = 1 not(TMP\_190) = 0 TMP\_191 = 1 not(TMP\_191) = 0 TMP\_192 = 1 not(TMP\_192) = 0 TMP\_193 = 1 not(TMP\_193) = 0 TMP\_194 = 0 not(TMP\_194) = 1 TMP\_195 = 1 not(TMP\_195) = 0 TMP\_196 = 5 TMP\_197 = 0 not(TMP\_197) = 1 TMP\_198 = 0 not(TMP\_198) = 1 TMP\_199 = 0 TMP\_200 = 1 not(TMP\_200) = 0 TMP\_201 = 1 not(TMP\_201) = 0 TMP\_202 = 2 TMP\_203 = 0 not(TMP\_203) = 1 TMP\_204 = 0 not(TMP\_204) = 1 TMP\_205 = 1 not(TMP\_205) = 0 TMP\_206 = 1 not(TMP\_206) = 0 TMP\_207 = 1 not(TMP\_207) = 0 TMP\_208 = 2 TMP\_209 = 0 not(TMP\_209) = 1 TMP\_210 = 1 not(TMP\_210) = 0 TMP\_211 = 1 not(TMP\_211) = 0 TMP\_212 = 1 not(TMP\_212) = 0 TMP\_213 = 1 not(TMP\_213) = 0 TMP\_214 = 0 not(TMP\_214) = 1 TMP\_215 = 4 TMP\_216 = 0 not(TMP\_216) = 1 TMP\_217 = 0 not(TMP\_217) = 1 TMP\_218 = 0 TMP\_219 = 1 not(TMP\_219) = 0 TMP\_220 = 1 not(TMP\_220) = 0 TMP\_221 = 2 TMP\_222 = 0 not(TMP\_222) = 1 TMP\_223 = 0 not(TMP\_223) = 1 TMP\_224 = 1 not(TMP\_224) = 0 TMP\_225 = 1 not(TMP\_225) = 0 TMP\_226 = 1 not(TMP\_226) = 0 TMP\_227 = 2 TMP\_228 = 0 not(TMP\_228) = 1 TMP\_229 = 1 not(TMP\_229) = 0 TMP\_230 = 1 not(TMP\_230) = 0 TMP\_231 = 1 not(TMP\_231) = 0 TMP\_232 = 1 not(TMP\_232) = 0 TMP\_233 = 0 not(TMP\_233) = 1 TMP\_234 = 4 TMP\_235 = 0 not(TMP\_235) = 1 TMP\_236 = 0 not(TMP\_236) = 1 TMP\_237 = 0 TMP\_238 = 1 not(TMP\_238) = 0 TMP\_239 = 1 not(TMP\_239) = 0 TMP\_240 = 2 TMP\_241 = 0 not(TMP\_241) = 1 TMP\_242 = 0 not(TMP\_242) = 1 TMP\_243 = 1 not(TMP\_243) = 0 TMP\_244 = 1 not(TMP\_244) = 0 TMP\_245 = 1 not(TMP\_245) = 0 TMP\_246 = 2 TMP\_247 = 0 not(TMP\_247) = 1 TMP\_248 = 1 not(TMP\_248) = 0 TMP\_249 = 1 not(TMP\_249) = 0 TMP\_250 = 0 not(TMP\_250) = 1 TMP\_251 = 1 not(TMP\_251) = 0 TMP\_252 = 1 not(TMP\_252) = 0 TMP\_253 = 4 TMP\_254 = 0 not(TMP\_254) = 1 TMP\_255 = 0 not(TMP\_255) = 1 TMP\_256 = 0 TMP\_257 = 1 not(TMP\_257) = 0 TMP\_258 = 1 not(TMP\_258) = 0 TMP\_259 = 2 TMP\_260 = 0 not(TMP\_260) = 1 TMP\_261 = 0 not(TMP\_261) = 1 TMP\_262 = 1 not(TMP\_262) = 0 TMP\_263 = 1 not(TMP\_263) = 0 TMP\_264 = 1 not(TMP\_264) = 0 TMP\_265 = 2 TMP\_266 = 0 not(TMP\_266) = 1 TMP\_267 = 1 not(TMP\_267) = 0 TMP\_268 = 1 not(TMP\_268) = 0 TMP\_269 = 1 not(TMP\_269) = 0 TMP\_270 = 1 not(TMP\_270) = 0 TMP\_271 = 1 not(TMP\_271) = 0 TMP\_272 = 5 TMP\_273 = 0 not(TMP\_273) = 1 TMP\_274 = 0 not(TMP\_274) = 1 TMP\_275 = 0 TMP\_276 = 1 not(TMP\_276) = 0 TMP\_277 = 1 not(TMP\_277) = 0 TMP\_278 = 2 TMP\_279 = 0 not(TMP\_279) = 1 TMP\_280 = 0 not(TMP\_280) = 1 TMP\_281 = 1 not(TMP\_281) = 0 TMP\_282 = 1 not(TMP\_282) = 0 TMP\_283 = 1 not(TMP\_283) = 0 TMP\_284 = 2 TMP\_285 = 1 not(TMP\_285) = 0 TMP\_286 = 0 not(TMP\_286) = 1 TMP\_287 = 1 not(TMP\_287) = 0 TMP\_288 = 1 not(TMP\_288) = 0 TMP\_289 = 1 not(TMP\_289) = 0 TMP\_290 = 1 not(TMP\_290) = 0 TMP\_291 = 5 TMP\_292 = 0 not(TMP\_292) = 1 TMP\_293 = 0 not(TMP\_293) = 1 TMP\_294 = 0 TMP\_295 = 1 not(TMP\_295) = 0 TMP\_296 = 1 not(TMP\_296) = 0 TMP\_297 = 2 TMP\_298 = 0 not(TMP\_298) = 1 TMP\_299 = 0 not(TMP\_299) = 1 TMP\_300 = 1 not(TMP\_300) = 0 TMP\_301 = 1 not(TMP\_301) = 0 TMP\_302 = 1 not(TMP\_302) = 0 TMP\_303 = 2 TMP\_304 = 1 not(TMP\_304) = 0 TMP\_305 = 0 not(TMP\_305) = 1 TMP\_306 = 1 not(TMP\_306) = 0 TMP\_307 = 1 not(TMP\_307) = 0 TMP\_308 = 1 not(TMP\_308) = 0 TMP\_309 = 0 not(TMP\_309) = 1 TMP\_310 = 4 TMP\_311 = 0 not(TMP\_311) = 1 TMP\_312 = 0 not(TMP\_312) = 1 TMP\_313 = 0 TMP\_314 = 1 not(TMP\_314) = 0 TMP\_315 = 1 not(TMP\_315) = 0 TMP\_316 = 2 TMP\_317 = 0 not(TMP\_317) = 1 TMP\_318 = 0 not(TMP\_318) = 1 TMP\_319 = 1 not(TMP\_319) = 0 TMP\_320 = 1 not(TMP\_320) = 0 TMP\_321 = 1 not(TMP\_321) = 0 TMP\_322 = 2 TMP\_323 = 0 not(TMP\_323) = 1 TMP\_324 = 1 not(TMP\_324) = 0 TMP\_325 = 1 not(TMP\_325) = 0 TMP\_326 = 1 not(TMP\_326) = 0 TMP\_327 = 1 not(TMP\_327) = 0 TMP\_328 = 1 not(TMP\_328) = 0 TMP\_329 = 5 TMP\_330 = 0 not(TMP\_330) = 1 TMP\_331 = 0 not(TMP\_331) = 1 TMP\_332 = 0 TMP\_333 = 1 not(TMP\_333) = 0 TMP\_334 = 1 not(TMP\_334) = 0 TMP\_335 = 2 TMP\_336 = 0 not(TMP\_336) = 1 TMP\_337 = 0 not(TMP\_337) = 1 TMP\_338 = 1 not(TMP\_338) = 0 TMP\_339 = 1 not(TMP\_339) = 0 TMP\_340 = 1 not(TMP\_340) = 0 TMP\_341 = 2 TMP\_342 = 1 not(TMP\_342) = 0 TMP\_343 = 1 not(TMP\_343) = 0 TMP\_344 = 1 not(TMP\_344) = 0 TMP\_345 = 1 not(TMP\_345) = 0 TMP\_346 = 1 not(TMP\_346) = 0 TMP\_347 = 0 not(TMP\_347) = 1 TMP\_348 = 5 TMP\_349 = 0 not(TMP\_349) = 1 TMP\_350 = 0 not(TMP\_350) = 1 TMP\_351 = 0 TMP\_352 = 1 not(TMP\_352) = 0 TMP\_353 = 1 not(TMP\_353) = 0 TMP\_354 = 2 TMP\_355 = 0 not(TMP\_355) = 1 TMP\_356 = 0 not(TMP\_356) = 1 TMP\_357 = 1 not(TMP\_357) = 0 TMP\_358 = 1 not(TMP\_358) = 0 TMP\_359 = 1 not(TMP\_359) = 0 TMP\_360 = 2 TMP\_361 = 0 not(TMP\_361) = 1 TMP\_362 = 1 not(TMP\_362) = 0 TMP\_363 = 1 not(TMP\_363) = 0 TMP\_364 = 1 not(TMP\_364) = 0 TMP\_365 = 1 not(TMP\_365) = 0 TMP\_366 = 1 not(TMP\_366) = 0 TMP\_367 = 5 TMP\_368 = 0 not(TMP\_368) = 1 TMP\_369 = 0 not(TMP\_369) = 1 TMP\_370 = 0 TMP\_371 = 1 not(TMP\_371) = 0 TMP\_372 = 1 not(TMP\_372) = 0 TMP\_373 = 2 TMP\_374 = 0 not(TMP\_374) = 1 TMP\_375 = 0 not(TMP\_375) = 1 TMP\_376 = 1 not(TMP\_376) = 0 TMP\_377 = 1 not(TMP\_377) = 0 TMP\_378 = 1 not(TMP\_378) = 0 TMP\_379 = 2 TMP\_380 = 0 not(TMP\_380) = 1 TMP\_381 = 1 not(TMP\_381) = 0 TMP\_382 = 1 not(TMP\_382) = 0 TMP\_383 = 1 not(TMP\_383) = 0 TMP\_384 = 1 not(TMP\_384) = 0 TMP\_385 = 0 not(TMP\_385) = 1 TMP\_386 = 4 TMP\_387 = 0 not(TMP\_387) = 1 TMP\_388 = 0 not(TMP\_388) = 1 TMP\_389 = 0 TMP\_390 = 1 not(TMP\_390) = 0 TMP\_391 = 1 not(TMP\_391) = 0 TMP\_392 = 2 TMP\_393 = 0 not(TMP\_393) = 1 TMP\_394 = 0 not(TMP\_394) = 1 TMP\_395 = 1 not(TMP\_395) = 0 TMP\_396 = 1 not(TMP\_396) = 0 TMP\_397 = 1 not(TMP\_397) = 0 TMP\_398 = 2 TMP\_399 = 1 not(TMP\_399) = 0 TMP\_400 = 1 not(TMP\_400) = 0 TMP\_401 = 1 not(TMP\_401) = 0 TMP\_402 = 0 not(TMP\_402) = 1 TMP\_403 = 1 not(TMP\_403) = 0 TMP\_404 = 1 not(TMP\_404) = 0 TMP\_405 = 5 TMP\_406 = 0 not(TMP\_406) = 1 TMP\_407 = 0 not(TMP\_407) = 1 TMP\_408 = 0 TMP\_409 = 1 not(TMP\_409) = 0 TMP\_410 = 1 not(TMP\_410) = 0 TMP\_411 = 2 TMP\_412 = 0 not(TMP\_412) = 1 TMP\_413 = 0 not(TMP\_413) = 1 TMP\_414 = 1 not(TMP\_414) = 0 TMP\_415 = 1 not(TMP\_415) = 0 TMP\_416 = 1 not(TMP\_416) = 0 TMP\_417 = 2 TMP\_418 = 0 not(TMP\_418) = 1 TMP\_419 = 1 not(TMP\_419) = 0 TMP\_420 = 1 not(TMP\_420) = 0 TMP\_421 = 1 not(TMP\_421) = 0 TMP\_422 = 1 not(TMP\_422) = 0 TMP\_423 = 0 not(TMP\_423) = 1 TMP\_424 = 4 TMP\_425 = 0 not(TMP\_425) = 1 TMP\_426 = 0 not(TMP\_426) = 1 TMP\_427 = 0 TMP\_428 = 1 not(TMP\_428) = 0 TMP\_429 = 1 not(TMP\_429) = 0 TMP\_430 = 2 TMP\_431 = 0 not(TMP\_431) = 1 TMP\_432 = 0 not(TMP\_432) = 1 TMP\_433 = 1 not(TMP\_433) = 0 TMP\_434 = 1 not(TMP\_434) = 0 TMP\_435 = 1 not(TMP\_435) = 0 TMP\_436 = 2 TMP\_437 = 1 not(TMP\_437) = 0 TMP\_438 = 0 not(TMP\_438) = 1 TMP\_439 = 1 not(TMP\_439) = 0 TMP\_440 = 1 not(TMP\_440) = 0 TMP\_441 = 1 not(TMP\_441) = 0 TMP\_442 = 0 not(TMP\_442) = 1 TMP\_443 = 4 TMP\_444 = 0 not(TMP\_444) = 1 TMP\_445 = 0 not(TMP\_445) = 1 TMP\_446 = 0 TMP\_447 = 1 not(TMP\_447) = 0 TMP\_448 = 1 not(TMP\_448) = 0 TMP\_449 = 2 TMP\_450 = 0 not(TMP\_450) = 1 TMP\_451 = 0 not(TMP\_451) = 1 TMP\_452 = 1 not(TMP\_452) = 0 TMP\_453 = 1 not(TMP\_453) = 0 TMP\_454 = 1 not(TMP\_454) = 0 TMP\_455 = 2 TMP\_456 = 1 not(TMP\_456) = 0 TMP\_457 = 0 not(TMP\_457) = 1 TMP\_458 = 1 not(TMP\_458) = 0 TMP\_459 = 1 not(TMP\_459) = 0 TMP\_460 = 1 not(TMP\_460) = 0 TMP\_461 = 1 not(TMP\_461) = 0 TMP\_462 = 5 TMP\_463 = 0 not(TMP\_463) = 1 TMP\_464 = 0 not(TMP\_464) = 1 TMP\_465 = 0 TMP\_466 = 1 not(TMP\_466) = 0 TMP\_467 = 1 not(TMP\_467) = 0 TMP\_468 = 2 TMP\_469 = 0 not(TMP\_469) = 1 TMP\_470 = 0 not(TMP\_470) = 1 TMP\_471 = 1 not(TMP\_471) = 0 TMP\_472 = 1 not(TMP\_472) = 0 TMP\_473 = 1 not(TMP\_473) = 0 TMP\_474 = 2 TMP\_475 = 1 not(TMP\_475) = 0 TMP\_476 = 0 not(TMP\_476) = 1 TMP\_477 = 1 not(TMP\_477) = 0 TMP\_478 = 1 not(TMP\_478) = 0 TMP\_479 = 1 not(TMP\_479) = 0 TMP\_480 = 1 not(TMP\_480) = 0 TMP\_481 = 5 TMP\_482 = 0 not(TMP\_482) = 1 TMP\_483 = 0 not(TMP\_483) = 1 TMP\_484 = 0 TMP\_485 = 1 not(TMP\_485) = 0 TMP\_486 = 1 not(TMP\_486) = 0 TMP\_487 = 2 TMP\_488 = 0 not(TMP\_488) = 1 TMP\_489 = 0 not(TMP\_489) = 1 TMP\_490 = 1 not(TMP\_490) = 0 TMP\_491 = 1 not(TMP\_491) = 0 TMP\_492 = 1 not(TMP\_492) = 0 TMP\_493 = 2 TMP\_494 = 1 not(TMP\_494) = 0 TMP\_495 = 0 not(TMP\_495) = 1 TMP\_496 = 1 not(TMP\_496) = 0 TMP\_497 = 1 not(TMP\_497) = 0 TMP\_498 = 1 not(TMP\_498) = 0 TMP\_499 = 1 not(TMP\_499) = 0 TMP\_500 = 5 TMP\_501 = 0 not(TMP\_501) = 1 TMP\_502 = 0 not(TMP\_502) = 1 TMP\_503 = 0 TMP\_504 = 1 not(TMP\_504) = 0 TMP\_505 = 1 not(TMP\_505) = 0 TMP\_506 = 2 TMP\_507 = 0 not(TMP\_507) = 1 TMP\_508 = 0 not(TMP\_508) = 1 TMP\_509 = 1 not(TMP\_509) = 0 TMP\_510 = 1 not(TMP\_510) = 0 TMP\_511 = 1 not(TMP\_511) = 0 TMP\_512 = 2 TMP\_513 = 1 not(TMP\_513) = 0 TMP\_514 = 0 not(TMP\_514) = 1 TMP\_515 = 1 not(TMP\_515) = 0 TMP\_516 = 1 not(TMP\_516) = 0 TMP\_517 = 1 not(TMP\_517) = 0 TMP\_518 = 0 not(TMP\_518) = 1 TMP\_519 = 4 TMP\_520 = 0 not(TMP\_520) = 1 TMP\_521 = 0 not(TMP\_521) = 1 TMP\_522 = 0 TMP\_523 = 1 not(TMP\_523) = 0 TMP\_524 = 1 not(TMP\_524) = 0 TMP\_525 = 2 TMP\_526 = 0 not(TMP\_526) = 1 TMP\_527 = 0 not(TMP\_527) = 1 TMP\_528 = 1 not(TMP\_528) = 0 TMP\_529 = 1 not(TMP\_529) = 0 TMP\_530 = 1 not(TMP\_530) = 0 TMP\_531 = 2 TMP\_532 = 0 not(TMP\_532) = 1 TMP\_533 = 1 not(TMP\_533) = 0 TMP\_534 = 1 not(TMP\_534) = 0 TMP\_535 = 1 not(TMP\_535) = 0 TMP\_536 = 1 not(TMP\_536) = 0 TMP\_537 = 1 not(TMP\_537) = 0 TMP\_538 = 5 TMP\_539 = 0 not(TMP\_539) = 1 TMP\_540 = 0 not(TMP\_540) = 1 TMP\_541 = 0 TMP\_542 = 1 not(TMP\_542) = 0 TMP\_543 = 1 not(TMP\_543) = 0 TMP\_544 = 2 TMP\_545 = 0 not(TMP\_545) = 1 TMP\_546 = 0 not(TMP\_546) = 1 TMP\_547 = 1 not(TMP\_547) = 0 TMP\_548 = 1 not(TMP\_548) = 0 TMP\_549 = 1 not(TMP\_549) = 0 TMP\_550 = 2 TMP\_551 = 1 not(TMP\_551) = 0 TMP\_552 = 0 not(TMP\_552) = 1 TMP\_553 = 1 not(TMP\_553) = 0 TMP\_554 = 1 not(TMP\_554) = 0 TMP\_555 = 1 not(TMP\_555) = 0 TMP\_556 = 0 not(TMP\_556) = 1 TMP\_557 = 4 TMP\_558 = 0 not(TMP\_558) = 1 TMP\_559 = 0 not(TMP\_559) = 1 TMP\_560 = 0 TMP\_561 = 1 not(TMP\_561) = 0 TMP\_562 = 1 not(TMP\_562) = 0 TMP\_563 = 2 TMP\_564 = 0 not(TMP\_564) = 1 TMP\_565 = 0 not(TMP\_565) = 1 TMP\_566 = 1 not(TMP\_566) = 0 TMP\_567 = 1 not(TMP\_567) = 0 TMP\_568 = 1 not(TMP\_568) = 0 TMP\_569 = 2 TMP\_570 = 1 not(TMP\_570) = 0 TMP\_571 = 0 not(TMP\_571) = 1 TMP\_572 = 1 not(TMP\_572) = 0 TMP\_573 = 1 not(TMP\_573) = 0 TMP\_574 = 1 not(TMP\_574) = 0 TMP\_575 = 1 not(TMP\_575) = 0 TMP\_576 = 5 TMP\_577 = 0 not(TMP\_577) = 1 TMP\_578 = 0 not(TMP\_578) = 1 TMP\_579 = 0 TMP\_580 = 1 not(TMP\_580) = 0 TMP\_581 = 1 not(TMP\_581) = 0 TMP\_582 = 2 TMP\_583 = 0 not(TMP\_583) = 1 TMP\_584 = 0 not(TMP\_584) = 1 TMP\_585 = 1 not(TMP\_585) = 0 TMP\_586 = 1 not(TMP\_586) = 0 TMP\_587 = 1 not(TMP\_587) = 0 TMP\_588 = 2 TMP\_589 = 1 not(TMP\_589) = 0 TMP\_590 = 1 not(TMP\_590) = 0 TMP\_591 = 1 not(TMP\_591) = 0 TMP\_592 = 1 not(TMP\_592) = 0 TMP\_593 = 1 not(TMP\_593) = 0 TMP\_594 = 0 not(TMP\_594) = 1 TMP\_595 = 5 TMP\_596 = 0 not(TMP\_596) = 1 TMP\_597 = 0 not(TMP\_597) = 1 TMP\_598 = 0 TMP\_599 = 1 not(TMP\_599) = 0 TMP\_600 = 1 not(TMP\_600) = 0 TMP\_601 = 2 TMP\_602 = 0 not(TMP\_602) = 1 TMP\_603 = 0 not(TMP\_603) = 1 TMP\_604 = 1 not(TMP\_604) = 0 TMP\_605 = 1 not(TMP\_605) = 0 TMP\_606 = 1 not(TMP\_606) = 0 TMP\_607 = 2 TMP\_608 = 1 not(TMP\_608) = 0 TMP\_609 = 0 not(TMP\_609) = 1 TMP\_610 = 1 not(TMP\_610) = 0 TMP\_611 = 1 not(TMP\_611) = 0 TMP\_612 = 1 not(TMP\_612) = 0 TMP\_613 = 1 not(TMP\_613) = 0 TMP\_614 = 5 TMP\_615 = 0 not(TMP\_615) = 1 TMP\_616 = 0 not(TMP\_616) = 1 TMP\_617 = 0 TMP\_618 = 1 not(TMP\_618) = 0 TMP\_619 = 1 not(TMP\_619) = 0 TMP\_620 = 2 TMP\_621 = 0 not(TMP\_621) = 1 TMP\_622 = 0 not(TMP\_622) = 1 TMP\_623 = 1 not(TMP\_623) = 0 TMP\_624 = 1 not(TMP\_624) = 0 TMP\_625 = 1 not(TMP\_625) = 0 TMP\_626 = 2 TMP\_627 = 0 not(TMP\_627) = 1 TMP\_628 = 1 not(TMP\_628) = 0 TMP\_629 = 1 not(TMP\_629) = 0 TMP\_630 = 1 not(TMP\_630) = 0 TMP\_631 = 1 not(TMP\_631) = 0 TMP\_632 = 1 not(TMP\_632) = 0 TMP\_633 = 5 TMP\_634 = 0 not(TMP\_634) = 1 TMP\_635 = 0 not(TMP\_635) = 1 TMP\_636 = 0 TMP\_637 = 1 not(TMP\_637) = 0 TMP\_638 = 1 not(TMP\_638) = 0 TMP\_639 = 2 TMP\_640 = 0 not(TMP\_640) = 1 TMP\_641 = 0 not(TMP\_641) = 1 TMP\_642 = 1 not(TMP\_642) = 0 TMP\_643 = 1 not(TMP\_643) = 0 TMP\_644 = 1 not(TMP\_644) = 0 TMP\_645 = 2 TMP\_646 = 1 not(TMP\_646) = 0 TMP\_647 = 0 not(TMP\_647) = 1 TMP\_648 = 1 not(TMP\_648) = 0 TMP\_649 = 1 not(TMP\_649) = 0 TMP\_650 = 1 not(TMP\_650) = 0 TMP\_651 = 1 not(TMP\_651) = 0 TMP\_652 = 5 TMP\_653 = 0 not(TMP\_653) = 1 TMP\_654 = 0 not(TMP\_654) = 1 TMP\_655 = 0 TMP\_656 = 1 not(TMP\_656) = 0 TMP\_657 = 1 not(TMP\_657) = 0 TMP\_658 = 2 TMP\_659 = 0 not(TMP\_659) = 1 TMP\_660 = 0 not(TMP\_660) = 1 TMP\_661 = 1 not(TMP\_661) = 0 TMP\_662 = 1 not(TMP\_662) = 0 TMP\_663 = 1 not(TMP\_663) = 0 TMP\_664 = 2 TMP\_665 = 1 not(TMP\_665) = 0 TMP\_666 = 0 not(TMP\_666) = 1 TMP\_667 = 1 not(TMP\_667) = 0 TMP\_668 = 1 not(TMP\_668) = 0 TMP\_669 = 0 not(TMP\_669) = 1 TMP\_670 = 1 not(TMP\_670) = 0 TMP\_671 = 4 TMP\_672 = 0 not(TMP\_672) = 1 TMP\_673 = 0 not(TMP\_673) = 1 TMP\_674 = 0 TMP\_675 = 1 not(TMP\_675) = 0 TMP\_676 = 1 not(TMP\_676) = 0 TMP\_677 = 2 TMP\_678 = 0 not(TMP\_678) = 1 TMP\_679 = 0 not(TMP\_679) = 1 TMP\_680 = 1 not(TMP\_680) = 0 TMP\_681 = 1 not(TMP\_681) = 0 TMP\_682 = 1 not(TMP\_682) = 0 TMP\_683 = 2 TMP\_684 = 1 not(TMP\_684) = 0 TMP\_685 = 0 not(TMP\_685) = 1 TMP\_686 = 1 not(TMP\_686) = 0 TMP\_687 = 1 not(TMP\_687) = 0 TMP\_688 = 0 not(TMP\_688) = 1 TMP\_689 = 1 not(TMP\_689) = 0 TMP\_690 = 4 TMP\_691 = 0 not(TMP\_691) = 1 TMP\_692 = 0 not(TMP\_692) = 1 TMP\_693 = 0 TMP\_694 = 1 not(TMP\_694) = 0 TMP\_695 = 1 not(TMP\_695) = 0 TMP\_696 = 2 TMP\_697 = 0 not(TMP\_697) = 1 TMP\_698 = 0 not(TMP\_698) = 1 TMP\_699 = 1 not(TMP\_699) = 0 TMP\_700 = 1 not(TMP\_700) = 0 TMP\_701 = 1 not(TMP\_701) = 0 TMP\_702 = 2 TMP\_703 = 1 not(TMP\_703) = 0 TMP\_704 = 0 not(TMP\_704) = 1 TMP\_705 = 1 not(TMP\_705) = 0 TMP\_706 = 1 not(TMP\_706) = 0 TMP\_707 = 0 not(TMP\_707) = 1 TMP\_708 = 1 not(TMP\_708) = 0 TMP\_709 = 4 TMP\_710 = 0 not(TMP\_710) = 1 TMP\_711 = 0 not(TMP\_711) = 1 TMP\_712 = 0 TMP\_713 = 1 not(TMP\_713) = 0 TMP\_714 = 1 not(TMP\_714) = 0 TMP\_715 = 2 TMP\_716 = 0 not(TMP\_716) = 1 TMP\_717 = 0 not(TMP\_717) = 1 TMP\_718 = 1 not(TMP\_718) = 0 TMP\_719 = 1 not(TMP\_719) = 0 TMP\_720 = 1 not(TMP\_720) = 0 TMP\_721 = 2 TMP\_722 = 1 not(TMP\_722) = 0 TMP\_723 = 0 not(TMP\_723) = 1 TMP\_724 = 1 not(TMP\_724) = 0 TMP\_725 = 1 not(TMP\_725) = 0 TMP\_726 = 1 not(TMP\_726) = 0 TMP\_727 = 1 not(TMP\_727) = 0 TMP\_728 = 5 TMP\_729 = 0 not(TMP\_729) = 1 TMP\_730 = 0 not(TMP\_730) = 1 TMP\_731 = 0 TMP\_732 = 1 not(TMP\_732) = 0 TMP\_733 = 1 not(TMP\_733) = 0 TMP\_734 = 2 TMP\_735 = 0 not(TMP\_735) = 1 TMP\_736 = 0 not(TMP\_736) = 1 TMP\_737 = 1 not(TMP\_737) = 0 TMP\_738 = 1 not(TMP\_738) = 0 TMP\_739 = 1 not(TMP\_739) = 0 TMP\_740 = 2 TMP\_741 = 0 not(TMP\_741) = 1 TMP\_742 = 1 not(TMP\_742) = 0 TMP\_743 = 1 not(TMP\_743) = 0 TMP\_744 = 1 not(TMP\_744) = 0 TMP\_745 = 0 not(TMP\_745) = 1 TMP\_746 = 1 not(TMP\_746) = 0 TMP\_747 = 4 TMP\_748 = 0 not(TMP\_748) = 1 TMP\_749 = 0 not(TMP\_749) = 1 TMP\_750 = 0 TMP\_751 = 1 not(TMP\_751) = 0 TMP\_752 = 1 not(TMP\_752) = 0 TMP\_753 = 2 TMP\_754 = 0 not(TMP\_754) = 1 TMP\_755 = 0 not(TMP\_755) = 1 TMP\_756 = 1 not(TMP\_756) = 0 TMP\_757 = 1 not(TMP\_757) = 0 TMP\_758 = 1 not(TMP\_758) = 0 TMP\_759 = 2 TMP\_760 = 1 not(TMP\_760) = 0 TMP\_761 = 0 not(TMP\_761) = 1 TMP\_762 = 1 not(TMP\_762) = 0 TMP\_763 = 1 not(TMP\_763) = 0 TMP\_764 = 1 not(TMP\_764) = 0 TMP\_765 = 1 not(TMP\_765) = 0 TMP\_766 = 5 TMP\_767 = 0 not(TMP\_767) = 1 TMP\_768 = 0 not(TMP\_768) = 1 TMP\_769 = 0 TMP\_770 = 1 not(TMP\_770) = 0 TMP\_771 = 1 not(TMP\_771) = 0 TMP\_772 = 2 TMP\_773 = 0 not(TMP\_773) = 1 TMP\_774 = 0 not(TMP\_774) = 1 TMP\_775 = 1 not(TMP\_775) = 0 TMP\_776 = 1 not(TMP\_776) = 0 TMP\_777 = 1 not(TMP\_777) = 0 TMP\_778 = 2 TMP\_779 = 1 not(TMP\_779) = 0 TMP\_780 = 0 not(TMP\_780) = 1 TMP\_781 = 1 not(TMP\_781) = 0 TMP\_782 = 1 not(TMP\_782) = 0 TMP\_783 = 0 not(TMP\_783) = 1 TMP\_784 = 1 not(TMP\_784) = 0 TMP\_785 = 4 TMP\_786 = 0 not(TMP\_786) = 1 TMP\_787 = 0 not(TMP\_787) = 1 TMP\_788 = 0 TMP\_789 = 1 not(TMP\_789) = 0 TMP\_790 = 1 not(TMP\_790) = 0 TMP\_791 = 2 TMP\_792 = 0 not(TMP\_792) = 1 TMP\_793 = 0 not(TMP\_793) = 1 TMP\_794 = 1 not(TMP\_794) = 0 TMP\_795 = 1 not(TMP\_795) = 0 TMP\_796 = 1 not(TMP\_796) = 0 TMP\_797 = 2 TMP\_798 = 1 not(TMP\_798) = 0 TMP\_799 = 1 not(TMP\_799) = 0 TMP\_800 = 1 not(TMP\_800) = 0 TMP\_801 = 1 not(TMP\_801) = 0 TMP\_802 = 0 not(TMP\_802) = 1 TMP\_803 = 1 not(TMP\_803) = 0 TMP\_804 = 5 TMP\_805 = 0 not(TMP\_805) = 1 TMP\_806 = 0 not(TMP\_806) = 1 TMP\_807 = 0 TMP\_808 = 1 not(TMP\_808) = 0 TMP\_809 = 1 not(TMP\_809) = 0 TMP\_810 = 2 TMP\_811 = 0 not(TMP\_811) = 1 TMP\_812 = 0 not(TMP\_812) = 1 TMP\_813 = 1 not(TMP\_813) = 0 TMP\_814 = 1 not(TMP\_814) = 0 TMP\_815 = 1 not(TMP\_815) = 0 TMP\_816 = 2 TMP\_817 = 1 not(TMP\_817) = 0 TMP\_818 = 0 not(TMP\_818) = 1 TMP\_819 = 1 not(TMP\_819) = 0 TMP\_820 = 1 not(TMP\_820) = 0 TMP\_821 = 0 not(TMP\_821) = 1 TMP\_822 = 1 not(TMP\_822) = 0 TMP\_823 = 4 TMP\_824 = 0 not(TMP\_824) = 1 TMP\_825 = 0 not(TMP\_825) = 1 TMP\_826 = 0 TMP\_827 = 1 not(TMP\_827) = 0 TMP\_828 = 1 not(TMP\_828) = 0 TMP\_829 = 2 TMP\_830 = 0 not(TMP\_830) = 1 TMP\_831 = 0 not(TMP\_831) = 1 TMP\_832 = 1 not(TMP\_832) = 0 TMP\_833 = 1 not(TMP\_833) = 0 TMP\_834 = 1 not(TMP\_834) = 0 TMP\_835 = 2 TMP\_836 = 0 not(TMP\_836) = 1 TMP\_837 = 1 not(TMP\_837) = 0 TMP\_838 = 1 not(TMP\_838) = 0 TMP\_839 = 1 not(TMP\_839) = 0 TMP\_840 = 1 not(TMP\_840) = 0 TMP\_841 = 0 not(TMP\_841) = 1 TMP\_842 = 4 TMP\_843 = 0 not(TMP\_843) = 1 TMP\_844 = 0 not(TMP\_844) = 1 TMP\_845 = 0 TMP\_846 = 1 not(TMP\_846) = 0 TMP\_847 = 1 not(TMP\_847) = 0 TMP\_848 = 2 TMP\_849 = 0 not(TMP\_849) = 1 TMP\_850 = 0 not(TMP\_850) = 1 TMP\_851 = 1 not(TMP\_851) = 0 TMP\_852 = 1 not(TMP\_852) = 0 TMP\_853 = 1 not(TMP\_853) = 0 TMP\_854 = 2 TMP\_855 = 0 not(TMP\_855) = 1 TMP\_856 = 1 not(TMP\_856) = 0 TMP\_857 = 1 not(TMP\_857) = 0 TMP\_858 = 1 not(TMP\_858) = 0 TMP\_859 = 1 not(TMP\_859) = 0 TMP\_860 = 0 not(TMP\_860) = 1 TMP\_861 = 4 TMP\_862 = 0 not(TMP\_862) = 1 TMP\_863 = 0 not(TMP\_863) = 1 TMP\_864 = 0 TMP\_865 = 1 not(TMP\_865) = 0 TMP\_866 = 1 not(TMP\_866) = 0 TMP\_867 = 2 TMP\_868 = 0 not(TMP\_868) = 1 TMP\_869 = 0 not(TMP\_869) = 1 TMP\_870 = 1 not(TMP\_870) = 0 TMP\_871 = 1 not(TMP\_871) = 0 TMP\_872 = 1 not(TMP\_872) = 0 TMP\_873 = 2 TMP\_874 = 0 not(TMP\_874) = 1 TMP\_875 = 1 not(TMP\_875) = 0 TMP\_876 = 1 not(TMP\_876) = 0 TMP\_877 = 1 not(TMP\_877) = 0 TMP\_878 = 1 not(TMP\_878) = 0 TMP\_879 = 1 not(TMP\_879) = 0 TMP\_880 = 5 TMP\_881 = 0 not(TMP\_881) = 1 TMP\_882 = 0 not(TMP\_882) = 1 TMP\_883 = 0 TMP\_884 = 1 not(TMP\_884) = 0 TMP\_885 = 1 not(TMP\_885) = 0 TMP\_886 = 2 TMP\_887 = 0 not(TMP\_887) = 1 TMP\_888 = 0 not(TMP\_888) = 1 TMP\_889 = 1 not(TMP\_889) = 0 TMP\_890 = 1 not(TMP\_890) = 0 TMP\_891 = 1 not(TMP\_891) = 0 TMP\_892 = 2 TMP\_893 = 0 not(TMP\_893) = 1 TMP\_894 = 1 not(TMP\_894) = 0 TMP\_895 = 0 not(TMP\_895) = 1 TMP\_896 = 1 not(TMP\_896) = 0 TMP\_897 = 1 not(TMP\_897) = 0 TMP\_898 = 1 not(TMP\_898) = 0 TMP\_899 = 4 TMP\_900 = 0 not(TMP\_900) = 1 TMP\_901 = 0 not(TMP\_901) = 1 TMP\_902 = 0 TMP\_903 = 1 not(TMP\_903) = 0 TMP\_904 = 1 not(TMP\_904) = 0 TMP\_905 = 2 TMP\_906 = 0 not(TMP\_906) = 1 TMP\_907 = 0 not(TMP\_907) = 1 TMP\_908 = 1 not(TMP\_908) = 0 TMP\_909 = 1 not(TMP\_909) = 0 TMP\_910 = 1 not(TMP\_910) = 0 TMP\_911 = 2 TMP\_912 = 1 not(TMP\_912) = 0 TMP\_913 = 0 not(TMP\_913) = 1 TMP\_914 = 1 not(TMP\_914) = 0 TMP\_915 = 1 not(TMP\_915) = 0 TMP\_916 = 1 not(TMP\_916) = 0 TMP\_917 = 1 not(TMP\_917) = 0 TMP\_918 = 5 TMP\_919 = 0 not(TMP\_919) = 1 TMP\_920 = 0 not(TMP\_920) = 1 TMP\_921 = 0 TMP\_922 = 1 not(TMP\_922) = 0 TMP\_923 = 1 not(TMP\_923) = 0 TMP\_924 = 2 TMP\_925 = 0 not(TMP\_925) = 1 TMP\_926 = 0 not(TMP\_926) = 1 TMP\_927 = 1 not(TMP\_927) = 0 TMP\_928 = 1 not(TMP\_928) = 0 TMP\_929 = 1 not(TMP\_929) = 0 TMP\_930 = 2 TMP\_931 = 1 not(TMP\_931) = 0 TMP\_932 = 0 not(TMP\_932) = 1 TMP\_933 = 1 not(TMP\_933) = 0 TMP\_934 = 1 not(TMP\_934) = 0 TMP\_935 = 1 not(TMP\_935) = 0 TMP\_936 = 0 not(TMP\_936) = 1 TMP\_937 = 4 TMP\_938 = 0 not(TMP\_938) = 1 TMP\_939 = 0 not(TMP\_939) = 1 TMP\_940 = 0 TMP\_941 = 1 not(TMP\_941) = 0 TMP\_942 = 1 not(TMP\_942) = 0 TMP\_943 = 2 TMP\_944 = 0 not(TMP\_944) = 1 TMP\_945 = 0 not(TMP\_945) = 1 TMP\_946 = 1 not(TMP\_946) = 0 TMP\_947 = 1 not(TMP\_947) = 0 TMP\_948 = 1 not(TMP\_948) = 0 TMP\_949 = 2 TMP\_950 = 0 not(TMP\_950) = 1 TMP\_951 = 1 not(TMP\_951) = 0 TMP\_952 = 1 not(TMP\_952) = 0 TMP\_953 = 1 not(TMP\_953) = 0 TMP\_954 = 1 not(TMP\_954) = 0 TMP\_955 = 1 not(TMP\_955) = 0 TMP\_956 = 5 TMP\_957 = 0 not(TMP\_957) = 1 TMP\_958 = 0 not(TMP\_958) = 1 TMP\_959 = 0 TMP\_960 = 1 not(TMP\_960) = 0 TMP\_961 = 1 not(TMP\_961) = 0 TMP\_962 = 2 TMP\_963 = 0 not(TMP\_963) = 1 TMP\_964 = 0 not(TMP\_964) = 1 TMP\_965 = 1 not(TMP\_965) = 0 TMP\_966 = 1 not(TMP\_966) = 0 TMP\_967 = 1 not(TMP\_967) = 0 TMP\_968 = 2 TMP\_969 = 1 not(TMP\_969) = 0 TMP\_970 = 1 not(TMP\_970) = 0 TMP\_971 = 1 not(TMP\_971) = 0 TMP\_972 = 1 not(TMP\_972) = 0 TMP\_973 = 1 not(TMP\_973) = 0 TMP\_974 = 0 not(TMP\_974) = 1 TMP\_975 = 5 TMP\_976 = 0 not(TMP\_976) = 1 TMP\_977 = 0 not(TMP\_977) = 1 TMP\_978 = 0 TMP\_979 = 1 not(TMP\_979) = 0 TMP\_980 = 1 not(TMP\_980) = 0 TMP\_981 = 2 TMP\_982 = 0 not(TMP\_982) = 1 TMP\_983 = 0 not(TMP\_983) = 1 TMP\_984 = 1 not(TMP\_984) = 0 TMP\_985 = 1 not(TMP\_985) = 0 TMP\_986 = 1 not(TMP\_986) = 0 TMP\_987 = 2 TMP\_988 = 1 not(TMP\_988) = 0 TMP\_989 = 1 not(TMP\_989) = 0 TMP\_990 = 0 not(TMP\_990) = 1 TMP\_991 = 1 not(TMP\_991) = 0 TMP\_992 = 1 not(TMP\_992) = 0 TMP\_993 = 1 not(TMP\_993) = 0 TMP\_994 = 5 TMP\_995 = 0 not(TMP\_995) = 1 TMP\_996 = 0 not(TMP\_996) = 1 TMP\_997 = 0 TMP\_998 = 1 not(TMP\_998) = 0 TMP\_999 = 1 not(TMP\_999) = 0 TMP\_1000 = 2 TMP\_1001 = 0 not(TMP\_1001) = 1 TMP\_1002 = 0 not(TMP\_1002) = 1 TMP\_1003 = 1 not(TMP\_1003) = 0 TMP\_1004 = 1 not(TMP\_1004) = 0 TMP\_1005 = 1 not(TMP\_1005) = 0 TMP\_1006 = 2 TMP\_1007 = 0 not(TMP\_1007) = 1 TMP\_1008 = 1 not(TMP\_1008) = 0 TMP\_1009 = 1 not(TMP\_1009) = 0 TMP\_1010 = 1 not(TMP\_1010) = 0 TMP\_1011 = 1 not(TMP\_1011) = 0 TMP\_1012 = 1 not(TMP\_1012) = 0 TMP\_1013 = 5 TMP\_1014 = 0 not(TMP\_1014) = 1 TMP\_1015 = 0 not(TMP\_1015) = 1 TMP\_1016 = 0 TMP\_1017 = 1 not(TMP\_1017) = 0 TMP\_1018 = 1 not(TMP\_1018) = 0 TMP\_1019 = 2 TMP\_1020 = 0 not(TMP\_1020) = 1 TMP\_1021 = 0 not(TMP\_1021) = 1 TMP\_1022 = 1 not(TMP\_1022) = 0 TMP\_1023 = 1 not(TMP\_1023) = 0 TMP\_1024 = 1 not(TMP\_1024) = 0 TMP\_1025 = 2 TMP\_1026 = 0 not(TMP\_1026) = 1 TMP\_1027 = 1 not(TMP\_1027) = 0 TMP\_1028 = 1 not(TMP\_1028) = 0 TMP\_1029 = 1 not(TMP\_1029) = 0 TMP\_1030 = 1 not(TMP\_1030) = 0 TMP\_1031 = 0 not(TMP\_1031) = 1 TMP\_1032 = 4 TMP\_1033 = 0 not(TMP\_1033) = 1 TMP\_1034 = 0 not(TMP\_1034) = 1 TMP\_1035 = 0 TMP\_1036 = 1 not(TMP\_1036) = 0 TMP\_1037 = 1 not(TMP\_1037) = 0 TMP\_1038 = 2 TMP\_1039 = 0 not(TMP\_1039) = 1 TMP\_1040 = 0 not(TMP\_1040) = 1 TMP\_1041 = 1 not(TMP\_1041) = 0 TMP\_1042 = 1 not(TMP\_1042) = 0 TMP\_1043 = 1 not(TMP\_1043) = 0 TMP\_1044 = 2 Area\_0 = 60 Distance\_0\_Rule\_0 = 20 Distance\_1\_Rule\_0 = 3 Distance\_2\_Rule\_0 = 1 Area\_1 = 174 Distance\_0\_Rule\_1 = 58 Distance\_1\_Rule\_1 = 3 Distance\_2\_Rule\_1 = 1 Area\_2 = 116 Distance\_0\_Rule\_2 = 58 Distance\_1\_Rule\_2 = 2 Distance\_2\_Rule\_2 = 1 Area\_3 = 58 Distance\_0\_Rule\_3 = 58 Distance\_1\_Rule\_3 = 1 Distance\_2\_Rule\_3 = 1 Area\_4 = 120 Distance\_0\_Rule\_4 = 40 Distance\_1\_Rule\_4 = 3 Distance\_2\_Rule\_4 = 1 Area\_5 = 120 Distance\_0\_Rule\_5 = 40 Distance\_1\_Rule\_5 = 3 Distance\_2\_Rule\_5 = 1 Area\_6 = 60 Distance\_0\_Rule\_6 = 20 Distance\_1\_Rule\_6 = 3 Distance\_2\_Rule\_6 = 1 Area\_7 = 3 -(Rule\_7\_LB) = -79 Distance\_0\_Rule\_7 = 1 -(Rule\_7\_LB) = 0 Distance\_1\_Rule\_7 = 3 -(Rule\_7\_LB) = -1 Distance\_2\_Rule\_7 = 1 Area\_8 = 1 -(Rule\_8\_LB) = -79 Distance\_0\_Rule\_8 = 1 -(Rule\_8\_LB) = 0 Distance\_1\_Rule\_8 = 1 -(Rule\_8\_LB) = 0 Distance\_2\_Rule\_8 = 1 Area\_9 = 3 -(Rule\_9\_LB) = -20 Distance\_0\_Rule\_9 = 1 -(Rule\_9\_LB) = 0 Distance\_1\_Rule\_9 = 3 -(Rule\_9\_LB) = 0 Distance\_2\_Rule\_9 = 1 Area\_10 = 3 -(Rule\_10\_LB) = -20 Distance\_0\_Rule\_10 = 1 -(Rule\_10\_LB) = 0 Distance\_1\_Rule\_10 = 3 -(Rule\_10\_LB) = -1 Distance\_2\_Rule\_10 = 1 Area\_11 = 2 -(Rule\_11\_LB) = -79 Distance\_0\_Rule\_11 = 1 -(Rule\_11\_LB) = -1 Distance\_1\_Rule\_11 = 2 -(Rule\_11\_LB) = 0 Distance\_2\_Rule\_11 = 1 TMP\_1045 = 720 .

- Solution #16 found. 16 Solutions, Resolution 1.404s, 1484 Nodes (1,056.9 n/s), 2826 Backtracks, 1405 Fails, 0 Restarts

Rule\_7\_LB = 79 Rule\_7\_UB = 80 Rule\_7\_LB = 0 Rule\_7\_UB = 3 Rule\_7\_LB = 1 Rule\_7\_UB = 2 Rule\_8\_LB = 79 Rule\_8\_UB = 80 Rule\_8\_LB = 0 Rule\_8\_UB = 1 Rule\_8\_LB = 0 Rule\_8\_UB = 1 Rule\_9\_LB = 20 Rule\_9\_UB = 21 Rule\_9\_LB = 0 Rule\_9\_UB = 3 Rule\_9\_LB = 0 Rule\_9\_UB = 1 Rule\_10\_LB = 20 Rule\_10\_UB = 21 Rule\_10\_LB = 0 Rule\_10\_UB = 3 Rule\_10\_LB = 1 Rule\_10\_UB = 2 Rule\_11\_LB = 79 Rule\_11\_UB = 80 Rule\_11\_LB = 1 Rule\_11\_UB = 3 Rule\_11\_LB = 0 Rule\_11\_UB = 1 Overlaps\_0\_0 = 0 Overlaps\_0\_1 = 0 Overlaps\_0\_2 = 0 Overlaps\_0\_3 = 0 Overlaps\_0\_4 = 0 Overlaps\_0\_5 = 0 Overlaps\_0\_6 = 0 Overlaps\_0\_7 = 0 Overlaps\_0\_8 = 0 Overlaps\_0\_9 = 0 Overlaps\_0\_10 = 0 Overlaps\_0\_11 = 0 Overlaps\_1\_0 = 0 Overlaps\_1\_1 = 0 Overlaps\_1\_2 = 1 Overlaps\_1\_3 = 0 Overlaps\_1\_4 = 0 Overlaps\_1\_5 = 0 Overlaps\_1\_6 = 0 Overlaps\_1\_7 = 0 Overlaps\_1\_8 = 0 Overlaps\_1\_9 = 0 Overlaps\_1\_10 = 0 Overlaps\_1\_11 = 0 Overlaps\_2\_0 = 0 Overlaps\_2\_1 = 0 Overlaps\_2\_2 = 0 Overlaps\_2\_3 = 0 Overlaps\_2\_4 = 0 Overlaps\_2\_5 = 1 Overlaps\_2\_6 = 0 Overlaps\_2\_7 = 0 Overlaps\_2\_8 = 0 Overlaps\_2\_9 = 0 Overlaps\_2\_10 = 0 Overlaps\_2\_11 = 0 Overlaps\_3\_0 = 0 Overlaps\_3\_1 = 0 Overlaps\_3\_2 = 0 Overlaps\_3\_3 = 0 Overlaps\_3\_4 = 0 Overlaps\_3\_5 = 0 Overlaps\_3\_6 = 0 Overlaps\_3\_7 = 0 Overlaps\_3\_8 = 0 Overlaps\_3\_9 = 0 Overlaps\_3\_10 = 0 Overlaps\_3\_11 = 0 Overlaps\_4\_0 = 0 Overlaps\_4\_1 = 0 Overlaps\_4\_2 = 0 Overlaps\_4\_3 = 0 Overlaps\_4\_4 = 0 Overlaps\_4\_5 = 1 Overlaps\_4\_6 = 0 Overlaps\_4\_7 = 0 Overlaps\_4\_8 = 0 Overlaps\_4\_9 = 0 Overlaps\_4\_10 = 0 Overlaps\_4\_11 = 0 Overlaps\_5\_0 = 0 Overlaps\_5\_1 = 0 Overlaps\_5\_2 = 0 Overlaps\_5\_3 = 0 Overlaps\_5\_4 = 0 Overlaps\_5\_5 = 0 Overlaps\_5\_6 = 0 Overlaps\_5\_7 = 0 Overlaps\_5\_8 = 0 Overlaps\_5\_9 = 0 Overlaps\_5\_10 = 0 Overlaps\_5\_11 = 0 Overlaps\_6\_0 = 0 Overlaps\_6\_1 = 1 Overlaps\_6\_2 = 0 Overlaps\_6\_3 = 0 Overlaps\_6\_4 = 0 Overlaps\_6\_5 = 0 Overlaps\_6\_6 = 0 Overlaps\_6\_7 = 0 Overlaps\_6\_8 = 0 Overlaps\_6\_9 = 0 Overlaps\_6\_10 = 0 Overlaps\_6\_11 = 0 Overlaps\_7\_0 = 0 Overlaps\_7\_1 = 0 Overlaps\_7\_2 = 0 Overlaps\_7\_3 = 0 Overlaps\_7\_4 = 0 Overlaps\_7\_5 = 0 Overlaps\_7\_6 = 0 Overlaps\_7\_7 = 0 Overlaps\_7\_8 = 0 Overlaps\_7\_9 = 0 Overlaps\_7\_10 = 0 Overlaps\_7\_11 = 0 Overlaps\_8\_0 = 0 Overlaps\_8\_1 = 0 Overlaps\_8\_2 = 0 Overlaps\_8\_3 = 0 Overlaps\_8\_4 = 0 Overlaps\_8\_5 = 0 Overlaps\_8\_6 = 0 Overlaps\_8\_7 = 0 Overlaps\_8\_8 = 0 Overlaps\_8\_9 = 0 Overlaps\_8\_10 = 0 Overlaps\_8\_11 = 0 Overlaps\_9\_0 = 0 Overlaps\_9\_1 = 0 Overlaps\_9\_2 = 0 Overlaps\_9\_3 = 0 Overlaps\_9\_4 = 0 Overlaps\_9\_5 = 0 Overlaps\_9\_6 = 0 Overlaps\_9\_7 = 0 Overlaps\_9\_8 = 0 Overlaps\_9\_9 = 0 Overlaps\_9\_10 = 0 Overlaps\_9\_11 = 0 Overlaps\_10\_0 = 0 Overlaps\_10\_1 = 0 Overlaps\_10\_2 = 0 Overlaps\_10\_3 = 0 Overlaps\_10\_4 = 0 Overlaps\_10\_5 = 0 Overlaps\_10\_6 = 0 Overlaps\_10\_7 = 0 Overlaps\_10\_8 = 0 Overlaps\_10\_9 = 0 Overlaps\_10\_10 = 0 Overlaps\_10\_11 = 0 Overlaps\_11\_0 = 0 Overlaps\_11\_1 = 0 Overlaps\_11\_2 = 0 Overlaps\_11\_3 = 0 Overlaps\_11\_4 = 0 Overlaps\_11\_5 = 0 Overlaps\_11\_6 = 0 Overlaps\_11\_7 = 0 Overlaps\_11\_8 = 0 Overlaps\_11\_9 = 0 Overlaps\_11\_10 = 0 Overlaps\_11\_11 = 0 TMP\_0 = 0 not(TMP\_0) = 1 TMP\_1 = 1 not(TMP\_1) = 0 TMP\_2 = 1 not(TMP\_2) = 0 TMP\_3 = 1 not(TMP\_3) = 0 TMP\_4 = 1 not(TMP\_4) = 0 TMP\_5 = 1 not(TMP\_5) = 0 TMP\_6 = 5 TMP\_7 = 0 not(TMP\_7) = 1 TMP\_8 = 0 not(TMP\_8) = 1 TMP\_9 = 0 TMP\_10 = 1 not(TMP\_10) = 0 TMP\_11 = 1 not(TMP\_11) = 0 TMP\_12 = 2 TMP\_13 = 0 not(TMP\_13) = 1 TMP\_14 = 0 not(TMP\_14) = 1 TMP\_15 = 1 not(TMP\_15) = 0 TMP\_16 = 1 not(TMP\_16) = 0 TMP\_17 = 1 not(TMP\_17) = 0 TMP\_18 = 2 TMP\_19 = 0 not(TMP\_19) = 1 TMP\_20 = 1 not(TMP\_20) = 0 TMP\_21 = 1 not(TMP\_21) = 0 TMP\_22 = 1 not(TMP\_22) = 0 TMP\_23 = 1 not(TMP\_23) = 0 TMP\_24 = 1 not(TMP\_24) = 0 TMP\_25 = 5 TMP\_26 = 0 not(TMP\_26) = 1 TMP\_27 = 0 not(TMP\_27) = 1 TMP\_28 = 0 TMP\_29 = 1 not(TMP\_29) = 0 TMP\_30 = 1 not(TMP\_30) = 0 TMP\_31 = 2 TMP\_32 = 0 not(TMP\_32) = 1 TMP\_33 = 0 not(TMP\_33) = 1 TMP\_34 = 1 not(TMP\_34) = 0 TMP\_35 = 1 not(TMP\_35) = 0 TMP\_36 = 1 not(TMP\_36) = 0 TMP\_37 = 2 TMP\_38 = 0 not(TMP\_38) = 1 TMP\_39 = 1 not(TMP\_39) = 0 TMP\_40 = 1 not(TMP\_40) = 0 TMP\_41 = 1 not(TMP\_41) = 0 TMP\_42 = 0 not(TMP\_42) = 1 TMP\_43 = 1 not(TMP\_43) = 0 TMP\_44 = 4 TMP\_45 = 0 not(TMP\_45) = 1 TMP\_46 = 0 not(TMP\_46) = 1 TMP\_47 = 0 TMP\_48 = 1 not(TMP\_48) = 0 TMP\_49 = 1 not(TMP\_49) = 0 TMP\_50 = 2 TMP\_51 = 0 not(TMP\_51) = 1 TMP\_52 = 0 not(TMP\_52) = 1 TMP\_53 = 1 not(TMP\_53) = 0 TMP\_54 = 1 not(TMP\_54) = 0 TMP\_55 = 1 not(TMP\_55) = 0 TMP\_56 = 2 TMP\_57 = 0 not(TMP\_57) = 1 TMP\_58 = 1 not(TMP\_58) = 0 TMP\_59 = 1 not(TMP\_59) = 0 TMP\_60 = 1 not(TMP\_60) = 0 TMP\_61 = 0 not(TMP\_61) = 1 TMP\_62 = 1 not(TMP\_62) = 0 TMP\_63 = 4 TMP\_64 = 0 not(TMP\_64) = 1 TMP\_65 = 0 not(TMP\_65) = 1 TMP\_66 = 0 TMP\_67 = 1 not(TMP\_67) = 0 TMP\_68 = 1 not(TMP\_68) = 0 TMP\_69 = 2 TMP\_70 = 0 not(TMP\_70) = 1 TMP\_71 = 0 not(TMP\_71) = 1 TMP\_72 = 1 not(TMP\_72) = 0 TMP\_73 = 1 not(TMP\_73) = 0 TMP\_74 = 1 not(TMP\_74) = 0 TMP\_75 = 2 TMP\_76 = 1 not(TMP\_76) = 0 TMP\_77 = 0 not(TMP\_77) = 1 TMP\_78 = 1 not(TMP\_78) = 0 TMP\_79 = 1 not(TMP\_79) = 0 TMP\_80 = 0 not(TMP\_80) = 1 TMP\_81 = 1 not(TMP\_81) = 0 TMP\_82 = 4 TMP\_83 = 0 not(TMP\_83) = 1 TMP\_84 = 0 not(TMP\_84) = 1 TMP\_85 = 0 TMP\_86 = 1 not(TMP\_86) = 0 TMP\_87 = 1 not(TMP\_87) = 0 TMP\_88 = 2 TMP\_89 = 0 not(TMP\_89) = 1 TMP\_90 = 0 not(TMP\_90) = 1 TMP\_91 = 1 not(TMP\_91) = 0 TMP\_92 = 1 not(TMP\_92) = 0 TMP\_93 = 1 not(TMP\_93) = 0 TMP\_94 = 2 TMP\_95 = 1 not(TMP\_95) = 0 TMP\_96 = 0 not(TMP\_96) = 1 TMP\_97 = 1 not(TMP\_97) = 0 TMP\_98 = 1 not(TMP\_98) = 0 TMP\_99 = 1 not(TMP\_99) = 0 TMP\_100 = 1 not(TMP\_100) = 0 TMP\_101 = 5 TMP\_102 = 0 not(TMP\_102) = 1 TMP\_103 = 0 not(TMP\_103) = 1 TMP\_104 = 0 TMP\_105 = 1 not(TMP\_105) = 0 TMP\_106 = 1 not(TMP\_106) = 0 TMP\_107 = 2 TMP\_108 = 0 not(TMP\_108) = 1 TMP\_109 = 0 not(TMP\_109) = 1 TMP\_110 = 1 not(TMP\_110) = 0 TMP\_111 = 1 not(TMP\_111) = 0 TMP\_112 = 1 not(TMP\_112) = 0 TMP\_113 = 2 TMP\_114 = 0 not(TMP\_114) = 1 TMP\_115 = 1 not(TMP\_115) = 0 TMP\_116 = 1 not(TMP\_116) = 0 TMP\_117 = 1 not(TMP\_117) = 0 TMP\_118 = 0 not(TMP\_118) = 1 TMP\_119 = 1 not(TMP\_119) = 0 TMP\_120 = 4 TMP\_121 = 0 not(TMP\_121) = 1 TMP\_122 = 0 not(TMP\_122) = 1 TMP\_123 = 0 TMP\_124 = 1 not(TMP\_124) = 0 TMP\_125 = 1 not(TMP\_125) = 0 TMP\_126 = 2 TMP\_127 = 0 not(TMP\_127) = 1 TMP\_128 = 0 not(TMP\_128) = 1 TMP\_129 = 1 not(TMP\_129) = 0 TMP\_130 = 1 not(TMP\_130) = 0 TMP\_131 = 1 not(TMP\_131) = 0 TMP\_132 = 2 TMP\_133 = 1 not(TMP\_133) = 0 TMP\_134 = 1 not(TMP\_134) = 0 TMP\_135 = 1 not(TMP\_135) = 0 TMP\_136 = 1 not(TMP\_136) = 0 TMP\_137 = 0 not(TMP\_137) = 1 TMP\_138 = 1 not(TMP\_138) = 0 TMP\_139 = 5 TMP\_140 = 0 not(TMP\_140) = 1 TMP\_141 = 0 not(TMP\_141) = 1 TMP\_142 = 0 TMP\_143 = 1 not(TMP\_143) = 0 TMP\_144 = 1 not(TMP\_144) = 0 TMP\_145 = 2 TMP\_146 = 0 not(TMP\_146) = 1 TMP\_147 = 0 not(TMP\_147) = 1 TMP\_148 = 1 not(TMP\_148) = 0 TMP\_149 = 1 not(TMP\_149) = 0 TMP\_150 = 1 not(TMP\_150) = 0 TMP\_151 = 2 TMP\_152 = 0 not(TMP\_152) = 1 TMP\_153 = 1 not(TMP\_153) = 0 TMP\_154 = 1 not(TMP\_154) = 0 TMP\_155 = 1 not(TMP\_155) = 0 TMP\_156 = 0 not(TMP\_156) = 1 TMP\_157 = 1 not(TMP\_157) = 0 TMP\_158 = 4 TMP\_159 = 0 not(TMP\_159) = 1 TMP\_160 = 0 not(TMP\_160) = 1 TMP\_161 = 0 TMP\_162 = 1 not(TMP\_162) = 0 TMP\_163 = 1 not(TMP\_163) = 0 TMP\_164 = 2 TMP\_165 = 0 not(TMP\_165) = 1 TMP\_166 = 0 not(TMP\_166) = 1 TMP\_167 = 1 not(TMP\_167) = 0 TMP\_168 = 1 not(TMP\_168) = 0 TMP\_169 = 1 not(TMP\_169) = 0 TMP\_170 = 2 TMP\_171 = 0 not(TMP\_171) = 1 TMP\_172 = 1 not(TMP\_172) = 0 TMP\_173 = 1 not(TMP\_173) = 0 TMP\_174 = 1 not(TMP\_174) = 0 TMP\_175 = 1 not(TMP\_175) = 0 TMP\_176 = 1 not(TMP\_176) = 0 TMP\_177 = 5 TMP\_178 = 0 not(TMP\_178) = 1 TMP\_179 = 0 not(TMP\_179) = 1 TMP\_180 = 0 TMP\_181 = 1 not(TMP\_181) = 0 TMP\_182 = 1 not(TMP\_182) = 0 TMP\_183 = 2 TMP\_184 = 0 not(TMP\_184) = 1 TMP\_185 = 0 not(TMP\_185) = 1 TMP\_186 = 1 not(TMP\_186) = 0 TMP\_187 = 1 not(TMP\_187) = 0 TMP\_188 = 1 not(TMP\_188) = 0 TMP\_189 = 2 TMP\_190 = 1 not(TMP\_190) = 0 TMP\_191 = 1 not(TMP\_191) = 0 TMP\_192 = 1 not(TMP\_192) = 0 TMP\_193 = 1 not(TMP\_193) = 0 TMP\_194 = 0 not(TMP\_194) = 1 TMP\_195 = 1 not(TMP\_195) = 0 TMP\_196 = 5 TMP\_197 = 0 not(TMP\_197) = 1 TMP\_198 = 0 not(TMP\_198) = 1 TMP\_199 = 0 TMP\_200 = 1 not(TMP\_200) = 0 TMP\_201 = 1 not(TMP\_201) = 0 TMP\_202 = 2 TMP\_203 = 0 not(TMP\_203) = 1 TMP\_204 = 0 not(TMP\_204) = 1 TMP\_205 = 1 not(TMP\_205) = 0 TMP\_206 = 1 not(TMP\_206) = 0 TMP\_207 = 1 not(TMP\_207) = 0 TMP\_208 = 2 TMP\_209 = 0 not(TMP\_209) = 1 TMP\_210 = 1 not(TMP\_210) = 0 TMP\_211 = 1 not(TMP\_211) = 0 TMP\_212 = 1 not(TMP\_212) = 0 TMP\_213 = 1 not(TMP\_213) = 0 TMP\_214 = 0 not(TMP\_214) = 1 TMP\_215 = 4 TMP\_216 = 0 not(TMP\_216) = 1 TMP\_217 = 0 not(TMP\_217) = 1 TMP\_218 = 0 TMP\_219 = 1 not(TMP\_219) = 0 TMP\_220 = 1 not(TMP\_220) = 0 TMP\_221 = 2 TMP\_222 = 0 not(TMP\_222) = 1 TMP\_223 = 0 not(TMP\_223) = 1 TMP\_224 = 1 not(TMP\_224) = 0 TMP\_225 = 1 not(TMP\_225) = 0 TMP\_226 = 1 not(TMP\_226) = 0 TMP\_227 = 2 TMP\_228 = 0 not(TMP\_228) = 1 TMP\_229 = 1 not(TMP\_229) = 0 TMP\_230 = 1 not(TMP\_230) = 0 TMP\_231 = 1 not(TMP\_231) = 0 TMP\_232 = 1 not(TMP\_232) = 0 TMP\_233 = 0 not(TMP\_233) = 1 TMP\_234 = 4 TMP\_235 = 0 not(TMP\_235) = 1 TMP\_236 = 0 not(TMP\_236) = 1 TMP\_237 = 0 TMP\_238 = 1 not(TMP\_238) = 0 TMP\_239 = 1 not(TMP\_239) = 0 TMP\_240 = 2 TMP\_241 = 0 not(TMP\_241) = 1 TMP\_242 = 0 not(TMP\_242) = 1 TMP\_243 = 1 not(TMP\_243) = 0 TMP\_244 = 1 not(TMP\_244) = 0 TMP\_245 = 1 not(TMP\_245) = 0 TMP\_246 = 2 TMP\_247 = 0 not(TMP\_247) = 1 TMP\_248 = 1 not(TMP\_248) = 0 TMP\_249 = 1 not(TMP\_249) = 0 TMP\_250 = 0 not(TMP\_250) = 1 TMP\_251 = 1 not(TMP\_251) = 0 TMP\_252 = 1 not(TMP\_252) = 0 TMP\_253 = 4 TMP\_254 = 0 not(TMP\_254) = 1 TMP\_255 = 0 not(TMP\_255) = 1 TMP\_256 = 0 TMP\_257 = 1 not(TMP\_257) = 0 TMP\_258 = 1 not(TMP\_258) = 0 TMP\_259 = 2 TMP\_260 = 0 not(TMP\_260) = 1 TMP\_261 = 0 not(TMP\_261) = 1 TMP\_262 = 1 not(TMP\_262) = 0 TMP\_263 = 1 not(TMP\_263) = 0 TMP\_264 = 1 not(TMP\_264) = 0 TMP\_265 = 2 TMP\_266 = 0 not(TMP\_266) = 1 TMP\_267 = 1 not(TMP\_267) = 0 TMP\_268 = 1 not(TMP\_268) = 0 TMP\_269 = 1 not(TMP\_269) = 0 TMP\_270 = 1 not(TMP\_270) = 0 TMP\_271 = 1 not(TMP\_271) = 0 TMP\_272 = 5 TMP\_273 = 0 not(TMP\_273) = 1 TMP\_274 = 0 not(TMP\_274) = 1 TMP\_275 = 0 TMP\_276 = 1 not(TMP\_276) = 0 TMP\_277 = 1 not(TMP\_277) = 0 TMP\_278 = 2 TMP\_279 = 0 not(TMP\_279) = 1 TMP\_280 = 0 not(TMP\_280) = 1 TMP\_281 = 1 not(TMP\_281) = 0 TMP\_282 = 1 not(TMP\_282) = 0 TMP\_283 = 1 not(TMP\_283) = 0 TMP\_284 = 2 TMP\_285 = 1 not(TMP\_285) = 0 TMP\_286 = 0 not(TMP\_286) = 1 TMP\_287 = 1 not(TMP\_287) = 0 TMP\_288 = 1 not(TMP\_288) = 0 TMP\_289 = 1 not(TMP\_289) = 0 TMP\_290 = 1 not(TMP\_290) = 0 TMP\_291 = 5 TMP\_292 = 0 not(TMP\_292) = 1 TMP\_293 = 0 not(TMP\_293) = 1 TMP\_294 = 0 TMP\_295 = 1 not(TMP\_295) = 0 TMP\_296 = 1 not(TMP\_296) = 0 TMP\_297 = 2 TMP\_298 = 0 not(TMP\_298) = 1 TMP\_299 = 0 not(TMP\_299) = 1 TMP\_300 = 1 not(TMP\_300) = 0 TMP\_301 = 1 not(TMP\_301) = 0 TMP\_302 = 1 not(TMP\_302) = 0 TMP\_303 = 2 TMP\_304 = 1 not(TMP\_304) = 0 TMP\_305 = 0 not(TMP\_305) = 1 TMP\_306 = 1 not(TMP\_306) = 0 TMP\_307 = 1 not(TMP\_307) = 0 TMP\_308 = 1 not(TMP\_308) = 0 TMP\_309 = 0 not(TMP\_309) = 1 TMP\_310 = 4 TMP\_311 = 0 not(TMP\_311) = 1 TMP\_312 = 0 not(TMP\_312) = 1 TMP\_313 = 0 TMP\_314 = 1 not(TMP\_314) = 0 TMP\_315 = 1 not(TMP\_315) = 0 TMP\_316 = 2 TMP\_317 = 0 not(TMP\_317) = 1 TMP\_318 = 0 not(TMP\_318) = 1 TMP\_319 = 1 not(TMP\_319) = 0 TMP\_320 = 1 not(TMP\_320) = 0 TMP\_321 = 1 not(TMP\_321) = 0 TMP\_322 = 2 TMP\_323 = 0 not(TMP\_323) = 1 TMP\_324 = 1 not(TMP\_324) = 0 TMP\_325 = 1 not(TMP\_325) = 0 TMP\_326 = 1 not(TMP\_326) = 0 TMP\_327 = 1 not(TMP\_327) = 0 TMP\_328 = 1 not(TMP\_328) = 0 TMP\_329 = 5 TMP\_330 = 0 not(TMP\_330) = 1 TMP\_331 = 0 not(TMP\_331) = 1 TMP\_332 = 0 TMP\_333 = 1 not(TMP\_333) = 0 TMP\_334 = 1 not(TMP\_334) = 0 TMP\_335 = 2 TMP\_336 = 0 not(TMP\_336) = 1 TMP\_337 = 0 not(TMP\_337) = 1 TMP\_338 = 1 not(TMP\_338) = 0 TMP\_339 = 1 not(TMP\_339) = 0 TMP\_340 = 1 not(TMP\_340) = 0 TMP\_341 = 2 TMP\_342 = 1 not(TMP\_342) = 0 TMP\_343 = 1 not(TMP\_343) = 0 TMP\_344 = 1 not(TMP\_344) = 0 TMP\_345 = 1 not(TMP\_345) = 0 TMP\_346 = 1 not(TMP\_346) = 0 TMP\_347 = 0 not(TMP\_347) = 1 TMP\_348 = 5 TMP\_349 = 0 not(TMP\_349) = 1 TMP\_350 = 0 not(TMP\_350) = 1 TMP\_351 = 0 TMP\_352 = 1 not(TMP\_352) = 0 TMP\_353 = 1 not(TMP\_353) = 0 TMP\_354 = 2 TMP\_355 = 0 not(TMP\_355) = 1 TMP\_356 = 0 not(TMP\_356) = 1 TMP\_357 = 1 not(TMP\_357) = 0 TMP\_358 = 1 not(TMP\_358) = 0 TMP\_359 = 1 not(TMP\_359) = 0 TMP\_360 = 2 TMP\_361 = 0 not(TMP\_361) = 1 TMP\_362 = 1 not(TMP\_362) = 0 TMP\_363 = 1 not(TMP\_363) = 0 TMP\_364 = 1 not(TMP\_364) = 0 TMP\_365 = 1 not(TMP\_365) = 0 TMP\_366 = 1 not(TMP\_366) = 0 TMP\_367 = 5 TMP\_368 = 0 not(TMP\_368) = 1 TMP\_369 = 0 not(TMP\_369) = 1 TMP\_370 = 0 TMP\_371 = 1 not(TMP\_371) = 0 TMP\_372 = 1 not(TMP\_372) = 0 TMP\_373 = 2 TMP\_374 = 0 not(TMP\_374) = 1 TMP\_375 = 0 not(TMP\_375) = 1 TMP\_376 = 1 not(TMP\_376) = 0 TMP\_377 = 1 not(TMP\_377) = 0 TMP\_378 = 1 not(TMP\_378) = 0 TMP\_379 = 2 TMP\_380 = 0 not(TMP\_380) = 1 TMP\_381 = 1 not(TMP\_381) = 0 TMP\_382 = 1 not(TMP\_382) = 0 TMP\_383 = 1 not(TMP\_383) = 0 TMP\_384 = 1 not(TMP\_384) = 0 TMP\_385 = 0 not(TMP\_385) = 1 TMP\_386 = 4 TMP\_387 = 0 not(TMP\_387) = 1 TMP\_388 = 0 not(TMP\_388) = 1 TMP\_389 = 0 TMP\_390 = 1 not(TMP\_390) = 0 TMP\_391 = 1 not(TMP\_391) = 0 TMP\_392 = 2 TMP\_393 = 0 not(TMP\_393) = 1 TMP\_394 = 0 not(TMP\_394) = 1 TMP\_395 = 1 not(TMP\_395) = 0 TMP\_396 = 1 not(TMP\_396) = 0 TMP\_397 = 1 not(TMP\_397) = 0 TMP\_398 = 2 TMP\_399 = 1 not(TMP\_399) = 0 TMP\_400 = 1 not(TMP\_400) = 0 TMP\_401 = 1 not(TMP\_401) = 0 TMP\_402 = 0 not(TMP\_402) = 1 TMP\_403 = 1 not(TMP\_403) = 0 TMP\_404 = 1 not(TMP\_404) = 0 TMP\_405 = 5 TMP\_406 = 0 not(TMP\_406) = 1 TMP\_407 = 0 not(TMP\_407) = 1 TMP\_408 = 0 TMP\_409 = 1 not(TMP\_409) = 0 TMP\_410 = 1 not(TMP\_410) = 0 TMP\_411 = 2 TMP\_412 = 0 not(TMP\_412) = 1 TMP\_413 = 0 not(TMP\_413) = 1 TMP\_414 = 1 not(TMP\_414) = 0 TMP\_415 = 1 not(TMP\_415) = 0 TMP\_416 = 1 not(TMP\_416) = 0 TMP\_417 = 2 TMP\_418 = 0 not(TMP\_418) = 1 TMP\_419 = 1 not(TMP\_419) = 0 TMP\_420 = 1 not(TMP\_420) = 0 TMP\_421 = 1 not(TMP\_421) = 0 TMP\_422 = 1 not(TMP\_422) = 0 TMP\_423 = 0 not(TMP\_423) = 1 TMP\_424 = 4 TMP\_425 = 0 not(TMP\_425) = 1 TMP\_426 = 0 not(TMP\_426) = 1 TMP\_427 = 0 TMP\_428 = 1 not(TMP\_428) = 0 TMP\_429 = 1 not(TMP\_429) = 0 TMP\_430 = 2 TMP\_431 = 0 not(TMP\_431) = 1 TMP\_432 = 0 not(TMP\_432) = 1 TMP\_433 = 1 not(TMP\_433) = 0 TMP\_434 = 1 not(TMP\_434) = 0 TMP\_435 = 1 not(TMP\_435) = 0 TMP\_436 = 2 TMP\_437 = 1 not(TMP\_437) = 0 TMP\_438 = 0 not(TMP\_438) = 1 TMP\_439 = 1 not(TMP\_439) = 0 TMP\_440 = 1 not(TMP\_440) = 0 TMP\_441 = 1 not(TMP\_441) = 0 TMP\_442 = 0 not(TMP\_442) = 1 TMP\_443 = 4 TMP\_444 = 0 not(TMP\_444) = 1 TMP\_445 = 0 not(TMP\_445) = 1 TMP\_446 = 0 TMP\_447 = 1 not(TMP\_447) = 0 TMP\_448 = 1 not(TMP\_448) = 0 TMP\_449 = 2 TMP\_450 = 0 not(TMP\_450) = 1 TMP\_451 = 0 not(TMP\_451) = 1 TMP\_452 = 1 not(TMP\_452) = 0 TMP\_453 = 1 not(TMP\_453) = 0 TMP\_454 = 1 not(TMP\_454) = 0 TMP\_455 = 2 TMP\_456 = 1 not(TMP\_456) = 0 TMP\_457 = 0 not(TMP\_457) = 1 TMP\_458 = 1 not(TMP\_458) = 0 TMP\_459 = 1 not(TMP\_459) = 0 TMP\_460 = 1 not(TMP\_460) = 0 TMP\_461 = 1 not(TMP\_461) = 0 TMP\_462 = 5 TMP\_463 = 0 not(TMP\_463) = 1 TMP\_464 = 0 not(TMP\_464) = 1 TMP\_465 = 0 TMP\_466 = 1 not(TMP\_466) = 0 TMP\_467 = 1 not(TMP\_467) = 0 TMP\_468 = 2 TMP\_469 = 0 not(TMP\_469) = 1 TMP\_470 = 0 not(TMP\_470) = 1 TMP\_471 = 1 not(TMP\_471) = 0 TMP\_472 = 1 not(TMP\_472) = 0 TMP\_473 = 1 not(TMP\_473) = 0 TMP\_474 = 2 TMP\_475 = 1 not(TMP\_475) = 0 TMP\_476 = 0 not(TMP\_476) = 1 TMP\_477 = 1 not(TMP\_477) = 0 TMP\_478 = 1 not(TMP\_478) = 0 TMP\_479 = 1 not(TMP\_479) = 0 TMP\_480 = 1 not(TMP\_480) = 0 TMP\_481 = 5 TMP\_482 = 0 not(TMP\_482) = 1 TMP\_483 = 0 not(TMP\_483) = 1 TMP\_484 = 0 TMP\_485 = 1 not(TMP\_485) = 0 TMP\_486 = 1 not(TMP\_486) = 0 TMP\_487 = 2 TMP\_488 = 0 not(TMP\_488) = 1 TMP\_489 = 0 not(TMP\_489) = 1 TMP\_490 = 1 not(TMP\_490) = 0 TMP\_491 = 1 not(TMP\_491) = 0 TMP\_492 = 1 not(TMP\_492) = 0 TMP\_493 = 2 TMP\_494 = 1 not(TMP\_494) = 0 TMP\_495 = 0 not(TMP\_495) = 1 TMP\_496 = 1 not(TMP\_496) = 0 TMP\_497 = 1 not(TMP\_497) = 0 TMP\_498 = 1 not(TMP\_498) = 0 TMP\_499 = 1 not(TMP\_499) = 0 TMP\_500 = 5 TMP\_501 = 0 not(TMP\_501) = 1 TMP\_502 = 0 not(TMP\_502) = 1 TMP\_503 = 0 TMP\_504 = 1 not(TMP\_504) = 0 TMP\_505 = 1 not(TMP\_505) = 0 TMP\_506 = 2 TMP\_507 = 0 not(TMP\_507) = 1 TMP\_508 = 0 not(TMP\_508) = 1 TMP\_509 = 1 not(TMP\_509) = 0 TMP\_510 = 1 not(TMP\_510) = 0 TMP\_511 = 1 not(TMP\_511) = 0 TMP\_512 = 2 TMP\_513 = 1 not(TMP\_513) = 0 TMP\_514 = 0 not(TMP\_514) = 1 TMP\_515 = 1 not(TMP\_515) = 0 TMP\_516 = 1 not(TMP\_516) = 0 TMP\_517 = 1 not(TMP\_517) = 0 TMP\_518 = 0 not(TMP\_518) = 1 TMP\_519 = 4 TMP\_520 = 0 not(TMP\_520) = 1 TMP\_521 = 0 not(TMP\_521) = 1 TMP\_522 = 0 TMP\_523 = 1 not(TMP\_523) = 0 TMP\_524 = 1 not(TMP\_524) = 0 TMP\_525 = 2 TMP\_526 = 0 not(TMP\_526) = 1 TMP\_527 = 0 not(TMP\_527) = 1 TMP\_528 = 1 not(TMP\_528) = 0 TMP\_529 = 1 not(TMP\_529) = 0 TMP\_530 = 1 not(TMP\_530) = 0 TMP\_531 = 2 TMP\_532 = 0 not(TMP\_532) = 1 TMP\_533 = 1 not(TMP\_533) = 0 TMP\_534 = 1 not(TMP\_534) = 0 TMP\_535 = 1 not(TMP\_535) = 0 TMP\_536 = 1 not(TMP\_536) = 0 TMP\_537 = 1 not(TMP\_537) = 0 TMP\_538 = 5 TMP\_539 = 0 not(TMP\_539) = 1 TMP\_540 = 0 not(TMP\_540) = 1 TMP\_541 = 0 TMP\_542 = 1 not(TMP\_542) = 0 TMP\_543 = 1 not(TMP\_543) = 0 TMP\_544 = 2 TMP\_545 = 0 not(TMP\_545) = 1 TMP\_546 = 0 not(TMP\_546) = 1 TMP\_547 = 1 not(TMP\_547) = 0 TMP\_548 = 1 not(TMP\_548) = 0 TMP\_549 = 1 not(TMP\_549) = 0 TMP\_550 = 2 TMP\_551 = 1 not(TMP\_551) = 0 TMP\_552 = 0 not(TMP\_552) = 1 TMP\_553 = 1 not(TMP\_553) = 0 TMP\_554 = 1 not(TMP\_554) = 0 TMP\_555 = 1 not(TMP\_555) = 0 TMP\_556 = 0 not(TMP\_556) = 1 TMP\_557 = 4 TMP\_558 = 0 not(TMP\_558) = 1 TMP\_559 = 0 not(TMP\_559) = 1 TMP\_560 = 0 TMP\_561 = 1 not(TMP\_561) = 0 TMP\_562 = 1 not(TMP\_562) = 0 TMP\_563 = 2 TMP\_564 = 0 not(TMP\_564) = 1 TMP\_565 = 0 not(TMP\_565) = 1 TMP\_566 = 1 not(TMP\_566) = 0 TMP\_567 = 1 not(TMP\_567) = 0 TMP\_568 = 1 not(TMP\_568) = 0 TMP\_569 = 2 TMP\_570 = 1 not(TMP\_570) = 0 TMP\_571 = 0 not(TMP\_571) = 1 TMP\_572 = 1 not(TMP\_572) = 0 TMP\_573 = 1 not(TMP\_573) = 0 TMP\_574 = 1 not(TMP\_574) = 0 TMP\_575 = 1 not(TMP\_575) = 0 TMP\_576 = 5 TMP\_577 = 0 not(TMP\_577) = 1 TMP\_578 = 0 not(TMP\_578) = 1 TMP\_579 = 0 TMP\_580 = 1 not(TMP\_580) = 0 TMP\_581 = 1 not(TMP\_581) = 0 TMP\_582 = 2 TMP\_583 = 0 not(TMP\_583) = 1 TMP\_584 = 0 not(TMP\_584) = 1 TMP\_585 = 1 not(TMP\_585) = 0 TMP\_586 = 1 not(TMP\_586) = 0 TMP\_587 = 1 not(TMP\_587) = 0 TMP\_588 = 2 TMP\_589 = 1 not(TMP\_589) = 0 TMP\_590 = 1 not(TMP\_590) = 0 TMP\_591 = 1 not(TMP\_591) = 0 TMP\_592 = 1 not(TMP\_592) = 0 TMP\_593 = 1 not(TMP\_593) = 0 TMP\_594 = 0 not(TMP\_594) = 1 TMP\_595 = 5 TMP\_596 = 0 not(TMP\_596) = 1 TMP\_597 = 0 not(TMP\_597) = 1 TMP\_598 = 0 TMP\_599 = 1 not(TMP\_599) = 0 TMP\_600 = 1 not(TMP\_600) = 0 TMP\_601 = 2 TMP\_602 = 0 not(TMP\_602) = 1 TMP\_603 = 0 not(TMP\_603) = 1 TMP\_604 = 1 not(TMP\_604) = 0 TMP\_605 = 1 not(TMP\_605) = 0 TMP\_606 = 1 not(TMP\_606) = 0 TMP\_607 = 2 TMP\_608 = 1 not(TMP\_608) = 0 TMP\_609 = 0 not(TMP\_609) = 1 TMP\_610 = 1 not(TMP\_610) = 0 TMP\_611 = 1 not(TMP\_611) = 0 TMP\_612 = 1 not(TMP\_612) = 0 TMP\_613 = 1 not(TMP\_613) = 0 TMP\_614 = 5 TMP\_615 = 0 not(TMP\_615) = 1 TMP\_616 = 0 not(TMP\_616) = 1 TMP\_617 = 0 TMP\_618 = 1 not(TMP\_618) = 0 TMP\_619 = 1 not(TMP\_619) = 0 TMP\_620 = 2 TMP\_621 = 0 not(TMP\_621) = 1 TMP\_622 = 0 not(TMP\_622) = 1 TMP\_623 = 1 not(TMP\_623) = 0 TMP\_624 = 1 not(TMP\_624) = 0 TMP\_625 = 1 not(TMP\_625) = 0 TMP\_626 = 2 TMP\_627 = 0 not(TMP\_627) = 1 TMP\_628 = 1 not(TMP\_628) = 0 TMP\_629 = 1 not(TMP\_629) = 0 TMP\_630 = 1 not(TMP\_630) = 0 TMP\_631 = 1 not(TMP\_631) = 0 TMP\_632 = 1 not(TMP\_632) = 0 TMP\_633 = 5 TMP\_634 = 0 not(TMP\_634) = 1 TMP\_635 = 0 not(TMP\_635) = 1 TMP\_636 = 0 TMP\_637 = 1 not(TMP\_637) = 0 TMP\_638 = 1 not(TMP\_638) = 0 TMP\_639 = 2 TMP\_640 = 0 not(TMP\_640) = 1 TMP\_641 = 0 not(TMP\_641) = 1 TMP\_642 = 1 not(TMP\_642) = 0 TMP\_643 = 1 not(TMP\_643) = 0 TMP\_644 = 1 not(TMP\_644) = 0 TMP\_645 = 2 TMP\_646 = 1 not(TMP\_646) = 0 TMP\_647 = 0 not(TMP\_647) = 1 TMP\_648 = 1 not(TMP\_648) = 0 TMP\_649 = 1 not(TMP\_649) = 0 TMP\_650 = 1 not(TMP\_650) = 0 TMP\_651 = 1 not(TMP\_651) = 0 TMP\_652 = 5 TMP\_653 = 0 not(TMP\_653) = 1 TMP\_654 = 0 not(TMP\_654) = 1 TMP\_655 = 0 TMP\_656 = 1 not(TMP\_656) = 0 TMP\_657 = 1 not(TMP\_657) = 0 TMP\_658 = 2 TMP\_659 = 0 not(TMP\_659) = 1 TMP\_660 = 0 not(TMP\_660) = 1 TMP\_661 = 1 not(TMP\_661) = 0 TMP\_662 = 1 not(TMP\_662) = 0 TMP\_663 = 1 not(TMP\_663) = 0 TMP\_664 = 2 TMP\_665 = 1 not(TMP\_665) = 0 TMP\_666 = 0 not(TMP\_666) = 1 TMP\_667 = 1 not(TMP\_667) = 0 TMP\_668 = 1 not(TMP\_668) = 0 TMP\_669 = 0 not(TMP\_669) = 1 TMP\_670 = 1 not(TMP\_670) = 0 TMP\_671 = 4 TMP\_672 = 0 not(TMP\_672) = 1 TMP\_673 = 0 not(TMP\_673) = 1 TMP\_674 = 0 TMP\_675 = 1 not(TMP\_675) = 0 TMP\_676 = 1 not(TMP\_676) = 0 TMP\_677 = 2 TMP\_678 = 0 not(TMP\_678) = 1 TMP\_679 = 0 not(TMP\_679) = 1 TMP\_680 = 1 not(TMP\_680) = 0 TMP\_681 = 1 not(TMP\_681) = 0 TMP\_682 = 1 not(TMP\_682) = 0 TMP\_683 = 2 TMP\_684 = 1 not(TMP\_684) = 0 TMP\_685 = 0 not(TMP\_685) = 1 TMP\_686 = 1 not(TMP\_686) = 0 TMP\_687 = 1 not(TMP\_687) = 0 TMP\_688 = 0 not(TMP\_688) = 1 TMP\_689 = 1 not(TMP\_689) = 0 TMP\_690 = 4 TMP\_691 = 0 not(TMP\_691) = 1 TMP\_692 = 0 not(TMP\_692) = 1 TMP\_693 = 0 TMP\_694 = 1 not(TMP\_694) = 0 TMP\_695 = 1 not(TMP\_695) = 0 TMP\_696 = 2 TMP\_697 = 0 not(TMP\_697) = 1 TMP\_698 = 0 not(TMP\_698) = 1 TMP\_699 = 1 not(TMP\_699) = 0 TMP\_700 = 1 not(TMP\_700) = 0 TMP\_701 = 1 not(TMP\_701) = 0 TMP\_702 = 2 TMP\_703 = 1 not(TMP\_703) = 0 TMP\_704 = 0 not(TMP\_704) = 1 TMP\_705 = 1 not(TMP\_705) = 0 TMP\_706 = 1 not(TMP\_706) = 0 TMP\_707 = 0 not(TMP\_707) = 1 TMP\_708 = 1 not(TMP\_708) = 0 TMP\_709 = 4 TMP\_710 = 0 not(TMP\_710) = 1 TMP\_711 = 0 not(TMP\_711) = 1 TMP\_712 = 0 TMP\_713 = 1 not(TMP\_713) = 0 TMP\_714 = 1 not(TMP\_714) = 0 TMP\_715 = 2 TMP\_716 = 0 not(TMP\_716) = 1 TMP\_717 = 0 not(TMP\_717) = 1 TMP\_718 = 1 not(TMP\_718) = 0 TMP\_719 = 1 not(TMP\_719) = 0 TMP\_720 = 1 not(TMP\_720) = 0 TMP\_721 = 2 TMP\_722 = 1 not(TMP\_722) = 0 TMP\_723 = 0 not(TMP\_723) = 1 TMP\_724 = 1 not(TMP\_724) = 0 TMP\_725 = 1 not(TMP\_725) = 0 TMP\_726 = 1 not(TMP\_726) = 0 TMP\_727 = 1 not(TMP\_727) = 0 TMP\_728 = 5 TMP\_729 = 0 not(TMP\_729) = 1 TMP\_730 = 0 not(TMP\_730) = 1 TMP\_731 = 0 TMP\_732 = 1 not(TMP\_732) = 0 TMP\_733 = 1 not(TMP\_733) = 0 TMP\_734 = 2 TMP\_735 = 0 not(TMP\_735) = 1 TMP\_736 = 0 not(TMP\_736) = 1 TMP\_737 = 1 not(TMP\_737) = 0 TMP\_738 = 1 not(TMP\_738) = 0 TMP\_739 = 1 not(TMP\_739) = 0 TMP\_740 = 2 TMP\_741 = 0 not(TMP\_741) = 1 TMP\_742 = 1 not(TMP\_742) = 0 TMP\_743 = 1 not(TMP\_743) = 0 TMP\_744 = 1 not(TMP\_744) = 0 TMP\_745 = 0 not(TMP\_745) = 1 TMP\_746 = 1 not(TMP\_746) = 0 TMP\_747 = 4 TMP\_748 = 0 not(TMP\_748) = 1 TMP\_749 = 0 not(TMP\_749) = 1 TMP\_750 = 0 TMP\_751 = 1 not(TMP\_751) = 0 TMP\_752 = 1 not(TMP\_752) = 0 TMP\_753 = 2 TMP\_754 = 0 not(TMP\_754) = 1 TMP\_755 = 0 not(TMP\_755) = 1 TMP\_756 = 1 not(TMP\_756) = 0 TMP\_757 = 1 not(TMP\_757) = 0 TMP\_758 = 1 not(TMP\_758) = 0 TMP\_759 = 2 TMP\_760 = 1 not(TMP\_760) = 0 TMP\_761 = 0 not(TMP\_761) = 1 TMP\_762 = 1 not(TMP\_762) = 0 TMP\_763 = 1 not(TMP\_763) = 0 TMP\_764 = 1 not(TMP\_764) = 0 TMP\_765 = 1 not(TMP\_765) = 0 TMP\_766 = 5 TMP\_767 = 0 not(TMP\_767) = 1 TMP\_768 = 0 not(TMP\_768) = 1 TMP\_769 = 0 TMP\_770 = 1 not(TMP\_770) = 0 TMP\_771 = 1 not(TMP\_771) = 0 TMP\_772 = 2 TMP\_773 = 0 not(TMP\_773) = 1 TMP\_774 = 0 not(TMP\_774) = 1 TMP\_775 = 1 not(TMP\_775) = 0 TMP\_776 = 1 not(TMP\_776) = 0 TMP\_777 = 1 not(TMP\_777) = 0 TMP\_778 = 2 TMP\_779 = 1 not(TMP\_779) = 0 TMP\_780 = 0 not(TMP\_780) = 1 TMP\_781 = 1 not(TMP\_781) = 0 TMP\_782 = 1 not(TMP\_782) = 0 TMP\_783 = 0 not(TMP\_783) = 1 TMP\_784 = 1 not(TMP\_784) = 0 TMP\_785 = 4 TMP\_786 = 0 not(TMP\_786) = 1 TMP\_787 = 0 not(TMP\_787) = 1 TMP\_788 = 0 TMP\_789 = 1 not(TMP\_789) = 0 TMP\_790 = 1 not(TMP\_790) = 0 TMP\_791 = 2 TMP\_792 = 0 not(TMP\_792) = 1 TMP\_793 = 0 not(TMP\_793) = 1 TMP\_794 = 1 not(TMP\_794) = 0 TMP\_795 = 1 not(TMP\_795) = 0 TMP\_796 = 1 not(TMP\_796) = 0 TMP\_797 = 2 TMP\_798 = 1 not(TMP\_798) = 0 TMP\_799 = 1 not(TMP\_799) = 0 TMP\_800 = 1 not(TMP\_800) = 0 TMP\_801 = 1 not(TMP\_801) = 0 TMP\_802 = 0 not(TMP\_802) = 1 TMP\_803 = 1 not(TMP\_803) = 0 TMP\_804 = 5 TMP\_805 = 0 not(TMP\_805) = 1 TMP\_806 = 0 not(TMP\_806) = 1 TMP\_807 = 0 TMP\_808 = 1 not(TMP\_808) = 0 TMP\_809 = 1 not(TMP\_809) = 0 TMP\_810 = 2 TMP\_811 = 0 not(TMP\_811) = 1 TMP\_812 = 0 not(TMP\_812) = 1 TMP\_813 = 1 not(TMP\_813) = 0 TMP\_814 = 1 not(TMP\_814) = 0 TMP\_815 = 1 not(TMP\_815) = 0 TMP\_816 = 2 TMP\_817 = 1 not(TMP\_817) = 0 TMP\_818 = 0 not(TMP\_818) = 1 TMP\_819 = 1 not(TMP\_819) = 0 TMP\_820 = 1 not(TMP\_820) = 0 TMP\_821 = 0 not(TMP\_821) = 1 TMP\_822 = 1 not(TMP\_822) = 0 TMP\_823 = 4 TMP\_824 = 0 not(TMP\_824) = 1 TMP\_825 = 0 not(TMP\_825) = 1 TMP\_826 = 0 TMP\_827 = 1 not(TMP\_827) = 0 TMP\_828 = 1 not(TMP\_828) = 0 TMP\_829 = 2 TMP\_830 = 0 not(TMP\_830) = 1 TMP\_831 = 0 not(TMP\_831) = 1 TMP\_832 = 1 not(TMP\_832) = 0 TMP\_833 = 1 not(TMP\_833) = 0 TMP\_834 = 1 not(TMP\_834) = 0 TMP\_835 = 2 TMP\_836 = 0 not(TMP\_836) = 1 TMP\_837 = 1 not(TMP\_837) = 0 TMP\_838 = 1 not(TMP\_838) = 0 TMP\_839 = 1 not(TMP\_839) = 0 TMP\_840 = 1 not(TMP\_840) = 0 TMP\_841 = 0 not(TMP\_841) = 1 TMP\_842 = 4 TMP\_843 = 0 not(TMP\_843) = 1 TMP\_844 = 0 not(TMP\_844) = 1 TMP\_845 = 0 TMP\_846 = 1 not(TMP\_846) = 0 TMP\_847 = 1 not(TMP\_847) = 0 TMP\_848 = 2 TMP\_849 = 0 not(TMP\_849) = 1 TMP\_850 = 0 not(TMP\_850) = 1 TMP\_851 = 1 not(TMP\_851) = 0 TMP\_852 = 1 not(TMP\_852) = 0 TMP\_853 = 1 not(TMP\_853) = 0 TMP\_854 = 2 TMP\_855 = 0 not(TMP\_855) = 1 TMP\_856 = 1 not(TMP\_856) = 0 TMP\_857 = 1 not(TMP\_857) = 0 TMP\_858 = 1 not(TMP\_858) = 0 TMP\_859 = 1 not(TMP\_859) = 0 TMP\_860 = 0 not(TMP\_860) = 1 TMP\_861 = 4 TMP\_862 = 0 not(TMP\_862) = 1 TMP\_863 = 0 not(TMP\_863) = 1 TMP\_864 = 0 TMP\_865 = 1 not(TMP\_865) = 0 TMP\_866 = 1 not(TMP\_866) = 0 TMP\_867 = 2 TMP\_868 = 0 not(TMP\_868) = 1 TMP\_869 = 0 not(TMP\_869) = 1 TMP\_870 = 1 not(TMP\_870) = 0 TMP\_871 = 1 not(TMP\_871) = 0 TMP\_872 = 1 not(TMP\_872) = 0 TMP\_873 = 2 TMP\_874 = 0 not(TMP\_874) = 1 TMP\_875 = 1 not(TMP\_875) = 0 TMP\_876 = 1 not(TMP\_876) = 0 TMP\_877 = 1 not(TMP\_877) = 0 TMP\_878 = 1 not(TMP\_878) = 0 TMP\_879 = 1 not(TMP\_879) = 0 TMP\_880 = 5 TMP\_881 = 0 not(TMP\_881) = 1 TMP\_882 = 0 not(TMP\_882) = 1 TMP\_883 = 0 TMP\_884 = 1 not(TMP\_884) = 0 TMP\_885 = 1 not(TMP\_885) = 0 TMP\_886 = 2 TMP\_887 = 0 not(TMP\_887) = 1 TMP\_888 = 0 not(TMP\_888) = 1 TMP\_889 = 1 not(TMP\_889) = 0 TMP\_890 = 1 not(TMP\_890) = 0 TMP\_891 = 1 not(TMP\_891) = 0 TMP\_892 = 2 TMP\_893 = 0 not(TMP\_893) = 1 TMP\_894 = 1 not(TMP\_894) = 0 TMP\_895 = 0 not(TMP\_895) = 1 TMP\_896 = 1 not(TMP\_896) = 0 TMP\_897 = 1 not(TMP\_897) = 0 TMP\_898 = 1 not(TMP\_898) = 0 TMP\_899 = 4 TMP\_900 = 0 not(TMP\_900) = 1 TMP\_901 = 0 not(TMP\_901) = 1 TMP\_902 = 0 TMP\_903 = 1 not(TMP\_903) = 0 TMP\_904 = 1 not(TMP\_904) = 0 TMP\_905 = 2 TMP\_906 = 0 not(TMP\_906) = 1 TMP\_907 = 0 not(TMP\_907) = 1 TMP\_908 = 1 not(TMP\_908) = 0 TMP\_909 = 1 not(TMP\_909) = 0 TMP\_910 = 1 not(TMP\_910) = 0 TMP\_911 = 2 TMP\_912 = 1 not(TMP\_912) = 0 TMP\_913 = 0 not(TMP\_913) = 1 TMP\_914 = 1 not(TMP\_914) = 0 TMP\_915 = 1 not(TMP\_915) = 0 TMP\_916 = 1 not(TMP\_916) = 0 TMP\_917 = 1 not(TMP\_917) = 0 TMP\_918 = 5 TMP\_919 = 0 not(TMP\_919) = 1 TMP\_920 = 0 not(TMP\_920) = 1 TMP\_921 = 0 TMP\_922 = 1 not(TMP\_922) = 0 TMP\_923 = 1 not(TMP\_923) = 0 TMP\_924 = 2 TMP\_925 = 0 not(TMP\_925) = 1 TMP\_926 = 0 not(TMP\_926) = 1 TMP\_927 = 1 not(TMP\_927) = 0 TMP\_928 = 1 not(TMP\_928) = 0 TMP\_929 = 1 not(TMP\_929) = 0 TMP\_930 = 2 TMP\_931 = 1 not(TMP\_931) = 0 TMP\_932 = 0 not(TMP\_932) = 1 TMP\_933 = 1 not(TMP\_933) = 0 TMP\_934 = 1 not(TMP\_934) = 0 TMP\_935 = 1 not(TMP\_935) = 0 TMP\_936 = 0 not(TMP\_936) = 1 TMP\_937 = 4 TMP\_938 = 0 not(TMP\_938) = 1 TMP\_939 = 0 not(TMP\_939) = 1 TMP\_940 = 0 TMP\_941 = 1 not(TMP\_941) = 0 TMP\_942 = 1 not(TMP\_942) = 0 TMP\_943 = 2 TMP\_944 = 0 not(TMP\_944) = 1 TMP\_945 = 0 not(TMP\_945) = 1 TMP\_946 = 1 not(TMP\_946) = 0 TMP\_947 = 1 not(TMP\_947) = 0 TMP\_948 = 1 not(TMP\_948) = 0 TMP\_949 = 2 TMP\_950 = 0 not(TMP\_950) = 1 TMP\_951 = 1 not(TMP\_951) = 0 TMP\_952 = 1 not(TMP\_952) = 0 TMP\_953 = 1 not(TMP\_953) = 0 TMP\_954 = 1 not(TMP\_954) = 0 TMP\_955 = 1 not(TMP\_955) = 0 TMP\_956 = 5 TMP\_957 = 0 not(TMP\_957) = 1 TMP\_958 = 0 not(TMP\_958) = 1 TMP\_959 = 0 TMP\_960 = 1 not(TMP\_960) = 0 TMP\_961 = 1 not(TMP\_961) = 0 TMP\_962 = 2 TMP\_963 = 0 not(TMP\_963) = 1 TMP\_964 = 0 not(TMP\_964) = 1 TMP\_965 = 1 not(TMP\_965) = 0 TMP\_966 = 1 not(TMP\_966) = 0 TMP\_967 = 1 not(TMP\_967) = 0 TMP\_968 = 2 TMP\_969 = 1 not(TMP\_969) = 0 TMP\_970 = 1 not(TMP\_970) = 0 TMP\_971 = 1 not(TMP\_971) = 0 TMP\_972 = 1 not(TMP\_972) = 0 TMP\_973 = 1 not(TMP\_973) = 0 TMP\_974 = 0 not(TMP\_974) = 1 TMP\_975 = 5 TMP\_976 = 0 not(TMP\_976) = 1 TMP\_977 = 0 not(TMP\_977) = 1 TMP\_978 = 0 TMP\_979 = 1 not(TMP\_979) = 0 TMP\_980 = 1 not(TMP\_980) = 0 TMP\_981 = 2 TMP\_982 = 0 not(TMP\_982) = 1 TMP\_983 = 0 not(TMP\_983) = 1 TMP\_984 = 1 not(TMP\_984) = 0 TMP\_985 = 1 not(TMP\_985) = 0 TMP\_986 = 1 not(TMP\_986) = 0 TMP\_987 = 2 TMP\_988 = 1 not(TMP\_988) = 0 TMP\_989 = 1 not(TMP\_989) = 0 TMP\_990 = 0 not(TMP\_990) = 1 TMP\_991 = 1 not(TMP\_991) = 0 TMP\_992 = 1 not(TMP\_992) = 0 TMP\_993 = 1 not(TMP\_993) = 0 TMP\_994 = 5 TMP\_995 = 0 not(TMP\_995) = 1 TMP\_996 = 0 not(TMP\_996) = 1 TMP\_997 = 0 TMP\_998 = 1 not(TMP\_998) = 0 TMP\_999 = 1 not(TMP\_999) = 0 TMP\_1000 = 2 TMP\_1001 = 0 not(TMP\_1001) = 1 TMP\_1002 = 0 not(TMP\_1002) = 1 TMP\_1003 = 1 not(TMP\_1003) = 0 TMP\_1004 = 1 not(TMP\_1004) = 0 TMP\_1005 = 1 not(TMP\_1005) = 0 TMP\_1006 = 2 TMP\_1007 = 0 not(TMP\_1007) = 1 TMP\_1008 = 1 not(TMP\_1008) = 0 TMP\_1009 = 1 not(TMP\_1009) = 0 TMP\_1010 = 1 not(TMP\_1010) = 0 TMP\_1011 = 1 not(TMP\_1011) = 0 TMP\_1012 = 1 not(TMP\_1012) = 0 TMP\_1013 = 5 TMP\_1014 = 0 not(TMP\_1014) = 1 TMP\_1015 = 0 not(TMP\_1015) = 1 TMP\_1016 = 0 TMP\_1017 = 1 not(TMP\_1017) = 0 TMP\_1018 = 1 not(TMP\_1018) = 0 TMP\_1019 = 2 TMP\_1020 = 0 not(TMP\_1020) = 1 TMP\_1021 = 0 not(TMP\_1021) = 1 TMP\_1022 = 1 not(TMP\_1022) = 0 TMP\_1023 = 1 not(TMP\_1023) = 0 TMP\_1024 = 1 not(TMP\_1024) = 0 TMP\_1025 = 2 TMP\_1026 = 0 not(TMP\_1026) = 1 TMP\_1027 = 1 not(TMP\_1027) = 0 TMP\_1028 = 1 not(TMP\_1028) = 0 TMP\_1029 = 1 not(TMP\_1029) = 0 TMP\_1030 = 1 not(TMP\_1030) = 0 TMP\_1031 = 0 not(TMP\_1031) = 1 TMP\_1032 = 4 TMP\_1033 = 0 not(TMP\_1033) = 1 TMP\_1034 = 0 not(TMP\_1034) = 1 TMP\_1035 = 0 TMP\_1036 = 1 not(TMP\_1036) = 0 TMP\_1037 = 1 not(TMP\_1037) = 0 TMP\_1038 = 2 TMP\_1039 = 0 not(TMP\_1039) = 1 TMP\_1040 = 0 not(TMP\_1040) = 1 TMP\_1041 = 1 not(TMP\_1041) = 0 TMP\_1042 = 1 not(TMP\_1042) = 0 TMP\_1043 = 1 not(TMP\_1043) = 0 TMP\_1044 = 2 Area\_0 = 60 Distance\_0\_Rule\_0 = 20 Distance\_1\_Rule\_0 = 3 Distance\_2\_Rule\_0 = 1 Area\_1 = 174 Distance\_0\_Rule\_1 = 58 Distance\_1\_Rule\_1 = 3 Distance\_2\_Rule\_1 = 1 Area\_2 = 116 Distance\_0\_Rule\_2 = 58 Distance\_1\_Rule\_2 = 2 Distance\_2\_Rule\_2 = 1 Area\_3 = 58 Distance\_0\_Rule\_3 = 58 Distance\_1\_Rule\_3 = 1 Distance\_2\_Rule\_3 = 1 Area\_4 = 120 Distance\_0\_Rule\_4 = 40 Distance\_1\_Rule\_4 = 3 Distance\_2\_Rule\_4 = 1 Area\_5 = 120 Distance\_0\_Rule\_5 = 40 Distance\_1\_Rule\_5 = 3 Distance\_2\_Rule\_5 = 1 Area\_6 = 60 Distance\_0\_Rule\_6 = 20 Distance\_1\_Rule\_6 = 3 Distance\_2\_Rule\_6 = 1 Area\_7 = 3 -(Rule\_7\_LB) = -79 Distance\_0\_Rule\_7 = 1 -(Rule\_7\_LB) = 0 Distance\_1\_Rule\_7 = 3 -(Rule\_7\_LB) = -1 Distance\_2\_Rule\_7 = 1 Area\_8 = 1 -(Rule\_8\_LB) = -79 Distance\_0\_Rule\_8 = 1 -(Rule\_8\_LB) = 0 Distance\_1\_Rule\_8 = 1 -(Rule\_8\_LB) = 0 Distance\_2\_Rule\_8 = 1 Area\_9 = 3 -(Rule\_9\_LB) = -20 Distance\_0\_Rule\_9 = 1 -(Rule\_9\_LB) = 0 Distance\_1\_Rule\_9 = 3 -(Rule\_9\_LB) = 0 Distance\_2\_Rule\_9 = 1 Area\_10 = 3 -(Rule\_10\_LB) = -20 Distance\_0\_Rule\_10 = 1 -(Rule\_10\_LB) = 0 Distance\_1\_Rule\_10 = 3 -(Rule\_10\_LB) = -1 Distance\_2\_Rule\_10 = 1 Area\_11 = 2 -(Rule\_11\_LB) = -79 Distance\_0\_Rule\_11 = 1 -(Rule\_11\_LB) = -1 Distance\_1\_Rule\_11 = 2 -(Rule\_11\_LB) = 0 Distance\_2\_Rule\_11 = 1 TMP\_1045 = 720 .

- Solution #17 found. 17 Solutions, Resolution 1.413s, 1489 Nodes (1,053.7 n/s), 2831 Backtracks, 1405 Fails, 0 Restarts

Rule\_7\_LB = 79 Rule\_7\_UB = 80 Rule\_7\_LB = 0 Rule\_7\_UB = 3 Rule\_7\_LB = 1 Rule\_7\_UB = 2 Rule\_8\_LB = 79 Rule\_8\_UB = 80 Rule\_8\_LB = 0 Rule\_8\_UB = 1 Rule\_8\_LB = 0 Rule\_8\_UB = 1 Rule\_9\_LB = 20 Rule\_9\_UB = 21 Rule\_9\_LB = 0 Rule\_9\_UB = 3 Rule\_9\_LB = 0 Rule\_9\_UB = 1 Rule\_10\_LB = 20 Rule\_10\_UB = 21 Rule\_10\_LB = 0 Rule\_10\_UB = 3 Rule\_10\_LB = 1 Rule\_10\_UB = 2 Rule\_11\_LB = 79 Rule\_11\_UB = 80 Rule\_11\_LB = 1 Rule\_11\_UB = 3 Rule\_11\_LB = 0 Rule\_11\_UB = 1 Overlaps\_0\_0 = 0 Overlaps\_0\_1 = 0 Overlaps\_0\_2 = 0 Overlaps\_0\_3 = 0 Overlaps\_0\_4 = 0 Overlaps\_0\_5 = 0 Overlaps\_0\_6 = 0 Overlaps\_0\_7 = 0 Overlaps\_0\_8 = 0 Overlaps\_0\_9 = 0 Overlaps\_0\_10 = 0 Overlaps\_0\_11 = 0 Overlaps\_1\_0 = 0 Overlaps\_1\_1 = 0 Overlaps\_1\_2 = 0 Overlaps\_1\_3 = 0 Overlaps\_1\_4 = 0 Overlaps\_1\_5 = 0 Overlaps\_1\_6 = 1 Overlaps\_1\_7 = 0 Overlaps\_1\_8 = 0 Overlaps\_1\_9 = 0 Overlaps\_1\_10 = 0 Overlaps\_1\_11 = 0 Overlaps\_2\_0 = 0 Overlaps\_2\_1 = 0 Overlaps\_2\_2 = 0 Overlaps\_2\_3 = 0 Overlaps\_2\_4 = 0 Overlaps\_2\_5 = 0 Overlaps\_2\_6 = 0 Overlaps\_2\_7 = 0 Overlaps\_2\_8 = 0 Overlaps\_2\_9 = 0 Overlaps\_2\_10 = 0 Overlaps\_2\_11 = 0 Overlaps\_3\_0 = 0 Overlaps\_3\_1 = 0 Overlaps\_3\_2 = 0 Overlaps\_3\_3 = 0 Overlaps\_3\_4 = 0 Overlaps\_3\_5 = 0 Overlaps\_3\_6 = 0 Overlaps\_3\_7 = 0 Overlaps\_3\_8 = 0 Overlaps\_3\_9 = 0 Overlaps\_3\_10 = 0 Overlaps\_3\_11 = 0 Overlaps\_4\_0 = 0 Overlaps\_4\_1 = 0 Overlaps\_4\_2 = 0 Overlaps\_4\_3 = 0 Overlaps\_4\_4 = 0 Overlaps\_4\_5 = 0 Overlaps\_4\_6 = 0 Overlaps\_4\_7 = 0 Overlaps\_4\_8 = 0 Overlaps\_4\_9 = 0 Overlaps\_4\_10 = 0 Overlaps\_4\_11 = 0 Overlaps\_5\_0 = 0 Overlaps\_5\_1 = 0 Overlaps\_5\_2 = 0 Overlaps\_5\_3 = 0 Overlaps\_5\_4 = 0 Overlaps\_5\_5 = 0 Overlaps\_5\_6 = 0 Overlaps\_5\_7 = 0 Overlaps\_5\_8 = 0 Overlaps\_5\_9 = 0 Overlaps\_5\_10 = 0 Overlaps\_5\_11 = 0 Overlaps\_6\_0 = 0 Overlaps\_6\_1 = 0 Overlaps\_6\_2 = 0 Overlaps\_6\_3 = 0 Overlaps\_6\_4 = 0 Overlaps\_6\_5 = 0 Overlaps\_6\_6 = 0 Overlaps\_6\_7 = 0 Overlaps\_6\_8 = 0 Overlaps\_6\_9 = 0 Overlaps\_6\_10 = 0 Overlaps\_6\_11 = 0 Overlaps\_7\_0 = 0 Overlaps\_7\_1 = 0 Overlaps\_7\_2 = 0 Overlaps\_7\_3 = 0 Overlaps\_7\_4 = 0 Overlaps\_7\_5 = 0 Overlaps\_7\_6 = 0 Overlaps\_7\_7 = 0 Overlaps\_7\_8 = 0 Overlaps\_7\_9 = 0 Overlaps\_7\_10 = 0 Overlaps\_7\_11 = 0 Overlaps\_8\_0 = 0 Overlaps\_8\_1 = 0 Overlaps\_8\_2 = 0 Overlaps\_8\_3 = 0 Overlaps\_8\_4 = 0 Overlaps\_8\_5 = 0 Overlaps\_8\_6 = 0 Overlaps\_8\_7 = 0 Overlaps\_8\_8 = 0 Overlaps\_8\_9 = 0 Overlaps\_8\_10 = 0 Overlaps\_8\_11 = 0 Overlaps\_9\_0 = 0 Overlaps\_9\_1 = 0 Overlaps\_9\_2 = 0 Overlaps\_9\_3 = 0 Overlaps\_9\_4 = 0 Overlaps\_9\_5 = 0 Overlaps\_9\_6 = 0 Overlaps\_9\_7 = 0 Overlaps\_9\_8 = 0 Overlaps\_9\_9 = 0 Overlaps\_9\_10 = 0 Overlaps\_9\_11 = 0 Overlaps\_10\_0 = 0 Overlaps\_10\_1 = 0 Overlaps\_10\_2 = 0 Overlaps\_10\_3 = 0 Overlaps\_10\_4 = 0 Overlaps\_10\_5 = 0 Overlaps\_10\_6 = 0 Overlaps\_10\_7 = 0 Overlaps\_10\_8 = 0 Overlaps\_10\_9 = 0 Overlaps\_10\_10 = 0 Overlaps\_10\_11 = 0 Overlaps\_11\_0 = 0 Overlaps\_11\_1 = 0 Overlaps\_11\_2 = 0 Overlaps\_11\_3 = 0 Overlaps\_11\_4 = 0 Overlaps\_11\_5 = 0 Overlaps\_11\_6 = 0 Overlaps\_11\_7 = 0 Overlaps\_11\_8 = 0 Overlaps\_11\_9 = 0 Overlaps\_11\_10 = 0 Overlaps\_11\_11 = 0 TMP\_0 = 0 not(TMP\_0) = 1 TMP\_1 = 1 not(TMP\_1) = 0 TMP\_2 = 1 not(TMP\_2) = 0 TMP\_3 = 1 not(TMP\_3) = 0 TMP\_4 = 1 not(TMP\_4) = 0 TMP\_5 = 1 not(TMP\_5) = 0 TMP\_6 = 5 TMP\_7 = 0 not(TMP\_7) = 1 TMP\_8 = 0 not(TMP\_8) = 1 TMP\_9 = 0 TMP\_10 = 1 not(TMP\_10) = 0 TMP\_11 = 1 not(TMP\_11) = 0 TMP\_12 = 2 TMP\_13 = 0 not(TMP\_13) = 1 TMP\_14 = 0 not(TMP\_14) = 1 TMP\_15 = 1 not(TMP\_15) = 0 TMP\_16 = 1 not(TMP\_16) = 0 TMP\_17 = 1 not(TMP\_17) = 0 TMP\_18 = 2 TMP\_19 = 0 not(TMP\_19) = 1 TMP\_20 = 1 not(TMP\_20) = 0 TMP\_21 = 1 not(TMP\_21) = 0 TMP\_22 = 1 not(TMP\_22) = 0 TMP\_23 = 1 not(TMP\_23) = 0 TMP\_24 = 1 not(TMP\_24) = 0 TMP\_25 = 5 TMP\_26 = 0 not(TMP\_26) = 1 TMP\_27 = 0 not(TMP\_27) = 1 TMP\_28 = 0 TMP\_29 = 1 not(TMP\_29) = 0 TMP\_30 = 1 not(TMP\_30) = 0 TMP\_31 = 2 TMP\_32 = 0 not(TMP\_32) = 1 TMP\_33 = 0 not(TMP\_33) = 1 TMP\_34 = 1 not(TMP\_34) = 0 TMP\_35 = 1 not(TMP\_35) = 0 TMP\_36 = 1 not(TMP\_36) = 0 TMP\_37 = 2 TMP\_38 = 0 not(TMP\_38) = 1 TMP\_39 = 1 not(TMP\_39) = 0 TMP\_40 = 1 not(TMP\_40) = 0 TMP\_41 = 1 not(TMP\_41) = 0 TMP\_42 = 0 not(TMP\_42) = 1 TMP\_43 = 1 not(TMP\_43) = 0 TMP\_44 = 4 TMP\_45 = 0 not(TMP\_45) = 1 TMP\_46 = 0 not(TMP\_46) = 1 TMP\_47 = 0 TMP\_48 = 1 not(TMP\_48) = 0 TMP\_49 = 1 not(TMP\_49) = 0 TMP\_50 = 2 TMP\_51 = 0 not(TMP\_51) = 1 TMP\_52 = 0 not(TMP\_52) = 1 TMP\_53 = 1 not(TMP\_53) = 0 TMP\_54 = 1 not(TMP\_54) = 0 TMP\_55 = 1 not(TMP\_55) = 0 TMP\_56 = 2 TMP\_57 = 0 not(TMP\_57) = 1 TMP\_58 = 1 not(TMP\_58) = 0 TMP\_59 = 1 not(TMP\_59) = 0 TMP\_60 = 1 not(TMP\_60) = 0 TMP\_61 = 0 not(TMP\_61) = 1 TMP\_62 = 1 not(TMP\_62) = 0 TMP\_63 = 4 TMP\_64 = 0 not(TMP\_64) = 1 TMP\_65 = 0 not(TMP\_65) = 1 TMP\_66 = 0 TMP\_67 = 1 not(TMP\_67) = 0 TMP\_68 = 1 not(TMP\_68) = 0 TMP\_69 = 2 TMP\_70 = 0 not(TMP\_70) = 1 TMP\_71 = 0 not(TMP\_71) = 1 TMP\_72 = 1 not(TMP\_72) = 0 TMP\_73 = 1 not(TMP\_73) = 0 TMP\_74 = 1 not(TMP\_74) = 0 TMP\_75 = 2 TMP\_76 = 1 not(TMP\_76) = 0 TMP\_77 = 0 not(TMP\_77) = 1 TMP\_78 = 1 not(TMP\_78) = 0 TMP\_79 = 1 not(TMP\_79) = 0 TMP\_80 = 0 not(TMP\_80) = 1 TMP\_81 = 1 not(TMP\_81) = 0 TMP\_82 = 4 TMP\_83 = 0 not(TMP\_83) = 1 TMP\_84 = 0 not(TMP\_84) = 1 TMP\_85 = 0 TMP\_86 = 1 not(TMP\_86) = 0 TMP\_87 = 1 not(TMP\_87) = 0 TMP\_88 = 2 TMP\_89 = 0 not(TMP\_89) = 1 TMP\_90 = 0 not(TMP\_90) = 1 TMP\_91 = 1 not(TMP\_91) = 0 TMP\_92 = 1 not(TMP\_92) = 0 TMP\_93 = 1 not(TMP\_93) = 0 TMP\_94 = 2 TMP\_95 = 1 not(TMP\_95) = 0 TMP\_96 = 0 not(TMP\_96) = 1 TMP\_97 = 1 not(TMP\_97) = 0 TMP\_98 = 1 not(TMP\_98) = 0 TMP\_99 = 1 not(TMP\_99) = 0 TMP\_100 = 1 not(TMP\_100) = 0 TMP\_101 = 5 TMP\_102 = 0 not(TMP\_102) = 1 TMP\_103 = 0 not(TMP\_103) = 1 TMP\_104 = 0 TMP\_105 = 1 not(TMP\_105) = 0 TMP\_106 = 1 not(TMP\_106) = 0 TMP\_107 = 2 TMP\_108 = 0 not(TMP\_108) = 1 TMP\_109 = 0 not(TMP\_109) = 1 TMP\_110 = 1 not(TMP\_110) = 0 TMP\_111 = 1 not(TMP\_111) = 0 TMP\_112 = 1 not(TMP\_112) = 0 TMP\_113 = 2 TMP\_114 = 0 not(TMP\_114) = 1 TMP\_115 = 1 not(TMP\_115) = 0 TMP\_116 = 1 not(TMP\_116) = 0 TMP\_117 = 1 not(TMP\_117) = 0 TMP\_118 = 0 not(TMP\_118) = 1 TMP\_119 = 1 not(TMP\_119) = 0 TMP\_120 = 4 TMP\_121 = 0 not(TMP\_121) = 1 TMP\_122 = 0 not(TMP\_122) = 1 TMP\_123 = 0 TMP\_124 = 1 not(TMP\_124) = 0 TMP\_125 = 1 not(TMP\_125) = 0 TMP\_126 = 2 TMP\_127 = 0 not(TMP\_127) = 1 TMP\_128 = 0 not(TMP\_128) = 1 TMP\_129 = 1 not(TMP\_129) = 0 TMP\_130 = 1 not(TMP\_130) = 0 TMP\_131 = 1 not(TMP\_131) = 0 TMP\_132 = 2 TMP\_133 = 1 not(TMP\_133) = 0 TMP\_134 = 1 not(TMP\_134) = 0 TMP\_135 = 1 not(TMP\_135) = 0 TMP\_136 = 1 not(TMP\_136) = 0 TMP\_137 = 0 not(TMP\_137) = 1 TMP\_138 = 1 not(TMP\_138) = 0 TMP\_139 = 5 TMP\_140 = 0 not(TMP\_140) = 1 TMP\_141 = 0 not(TMP\_141) = 1 TMP\_142 = 0 TMP\_143 = 1 not(TMP\_143) = 0 TMP\_144 = 1 not(TMP\_144) = 0 TMP\_145 = 2 TMP\_146 = 0 not(TMP\_146) = 1 TMP\_147 = 0 not(TMP\_147) = 1 TMP\_148 = 1 not(TMP\_148) = 0 TMP\_149 = 1 not(TMP\_149) = 0 TMP\_150 = 1 not(TMP\_150) = 0 TMP\_151 = 2 TMP\_152 = 0 not(TMP\_152) = 1 TMP\_153 = 1 not(TMP\_153) = 0 TMP\_154 = 1 not(TMP\_154) = 0 TMP\_155 = 1 not(TMP\_155) = 0 TMP\_156 = 0 not(TMP\_156) = 1 TMP\_157 = 1 not(TMP\_157) = 0 TMP\_158 = 4 TMP\_159 = 0 not(TMP\_159) = 1 TMP\_160 = 0 not(TMP\_160) = 1 TMP\_161 = 0 TMP\_162 = 1 not(TMP\_162) = 0 TMP\_163 = 1 not(TMP\_163) = 0 TMP\_164 = 2 TMP\_165 = 0 not(TMP\_165) = 1 TMP\_166 = 0 not(TMP\_166) = 1 TMP\_167 = 1 not(TMP\_167) = 0 TMP\_168 = 1 not(TMP\_168) = 0 TMP\_169 = 1 not(TMP\_169) = 0 TMP\_170 = 2 TMP\_171 = 0 not(TMP\_171) = 1 TMP\_172 = 1 not(TMP\_172) = 0 TMP\_173 = 1 not(TMP\_173) = 0 TMP\_174 = 1 not(TMP\_174) = 0 TMP\_175 = 1 not(TMP\_175) = 0 TMP\_176 = 1 not(TMP\_176) = 0 TMP\_177 = 5 TMP\_178 = 0 not(TMP\_178) = 1 TMP\_179 = 0 not(TMP\_179) = 1 TMP\_180 = 0 TMP\_181 = 1 not(TMP\_181) = 0 TMP\_182 = 1 not(TMP\_182) = 0 TMP\_183 = 2 TMP\_184 = 0 not(TMP\_184) = 1 TMP\_185 = 0 not(TMP\_185) = 1 TMP\_186 = 1 not(TMP\_186) = 0 TMP\_187 = 1 not(TMP\_187) = 0 TMP\_188 = 1 not(TMP\_188) = 0 TMP\_189 = 2 TMP\_190 = 1 not(TMP\_190) = 0 TMP\_191 = 1 not(TMP\_191) = 0 TMP\_192 = 1 not(TMP\_192) = 0 TMP\_193 = 1 not(TMP\_193) = 0 TMP\_194 = 0 not(TMP\_194) = 1 TMP\_195 = 1 not(TMP\_195) = 0 TMP\_196 = 5 TMP\_197 = 0 not(TMP\_197) = 1 TMP\_198 = 0 not(TMP\_198) = 1 TMP\_199 = 0 TMP\_200 = 1 not(TMP\_200) = 0 TMP\_201 = 1 not(TMP\_201) = 0 TMP\_202 = 2 TMP\_203 = 0 not(TMP\_203) = 1 TMP\_204 = 0 not(TMP\_204) = 1 TMP\_205 = 1 not(TMP\_205) = 0 TMP\_206 = 1 not(TMP\_206) = 0 TMP\_207 = 1 not(TMP\_207) = 0 TMP\_208 = 2 TMP\_209 = 0 not(TMP\_209) = 1 TMP\_210 = 1 not(TMP\_210) = 0 TMP\_211 = 1 not(TMP\_211) = 0 TMP\_212 = 1 not(TMP\_212) = 0 TMP\_213 = 1 not(TMP\_213) = 0 TMP\_214 = 0 not(TMP\_214) = 1 TMP\_215 = 4 TMP\_216 = 0 not(TMP\_216) = 1 TMP\_217 = 0 not(TMP\_217) = 1 TMP\_218 = 0 TMP\_219 = 1 not(TMP\_219) = 0 TMP\_220 = 1 not(TMP\_220) = 0 TMP\_221 = 2 TMP\_222 = 0 not(TMP\_222) = 1 TMP\_223 = 0 not(TMP\_223) = 1 TMP\_224 = 1 not(TMP\_224) = 0 TMP\_225 = 1 not(TMP\_225) = 0 TMP\_226 = 1 not(TMP\_226) = 0 TMP\_227 = 2 TMP\_228 = 0 not(TMP\_228) = 1 TMP\_229 = 1 not(TMP\_229) = 0 TMP\_230 = 1 not(TMP\_230) = 0 TMP\_231 = 1 not(TMP\_231) = 0 TMP\_232 = 1 not(TMP\_232) = 0 TMP\_233 = 0 not(TMP\_233) = 1 TMP\_234 = 4 TMP\_235 = 0 not(TMP\_235) = 1 TMP\_236 = 0 not(TMP\_236) = 1 TMP\_237 = 0 TMP\_238 = 1 not(TMP\_238) = 0 TMP\_239 = 1 not(TMP\_239) = 0 TMP\_240 = 2 TMP\_241 = 0 not(TMP\_241) = 1 TMP\_242 = 0 not(TMP\_242) = 1 TMP\_243 = 1 not(TMP\_243) = 0 TMP\_244 = 1 not(TMP\_244) = 0 TMP\_245 = 1 not(TMP\_245) = 0 TMP\_246 = 2 TMP\_247 = 0 not(TMP\_247) = 1 TMP\_248 = 1 not(TMP\_248) = 0 TMP\_249 = 1 not(TMP\_249) = 0 TMP\_250 = 0 not(TMP\_250) = 1 TMP\_251 = 1 not(TMP\_251) = 0 TMP\_252 = 1 not(TMP\_252) = 0 TMP\_253 = 4 TMP\_254 = 0 not(TMP\_254) = 1 TMP\_255 = 0 not(TMP\_255) = 1 TMP\_256 = 0 TMP\_257 = 1 not(TMP\_257) = 0 TMP\_258 = 1 not(TMP\_258) = 0 TMP\_259 = 2 TMP\_260 = 0 not(TMP\_260) = 1 TMP\_261 = 0 not(TMP\_261) = 1 TMP\_262 = 1 not(TMP\_262) = 0 TMP\_263 = 1 not(TMP\_263) = 0 TMP\_264 = 1 not(TMP\_264) = 0 TMP\_265 = 2 TMP\_266 = 0 not(TMP\_266) = 1 TMP\_267 = 1 not(TMP\_267) = 0 TMP\_268 = 1 not(TMP\_268) = 0 TMP\_269 = 1 not(TMP\_269) = 0 TMP\_270 = 1 not(TMP\_270) = 0 TMP\_271 = 1 not(TMP\_271) = 0 TMP\_272 = 5 TMP\_273 = 0 not(TMP\_273) = 1 TMP\_274 = 0 not(TMP\_274) = 1 TMP\_275 = 0 TMP\_276 = 1 not(TMP\_276) = 0 TMP\_277 = 1 not(TMP\_277) = 0 TMP\_278 = 2 TMP\_279 = 0 not(TMP\_279) = 1 TMP\_280 = 0 not(TMP\_280) = 1 TMP\_281 = 1 not(TMP\_281) = 0 TMP\_282 = 1 not(TMP\_282) = 0 TMP\_283 = 1 not(TMP\_283) = 0 TMP\_284 = 2 TMP\_285 = 1 not(TMP\_285) = 0 TMP\_286 = 0 not(TMP\_286) = 1 TMP\_287 = 1 not(TMP\_287) = 0 TMP\_288 = 1 not(TMP\_288) = 0 TMP\_289 = 1 not(TMP\_289) = 0 TMP\_290 = 1 not(TMP\_290) = 0 TMP\_291 = 5 TMP\_292 = 0 not(TMP\_292) = 1 TMP\_293 = 0 not(TMP\_293) = 1 TMP\_294 = 0 TMP\_295 = 1 not(TMP\_295) = 0 TMP\_296 = 1 not(TMP\_296) = 0 TMP\_297 = 2 TMP\_298 = 0 not(TMP\_298) = 1 TMP\_299 = 0 not(TMP\_299) = 1 TMP\_300 = 1 not(TMP\_300) = 0 TMP\_301 = 1 not(TMP\_301) = 0 TMP\_302 = 1 not(TMP\_302) = 0 TMP\_303 = 2 TMP\_304 = 1 not(TMP\_304) = 0 TMP\_305 = 0 not(TMP\_305) = 1 TMP\_306 = 1 not(TMP\_306) = 0 TMP\_307 = 1 not(TMP\_307) = 0 TMP\_308 = 1 not(TMP\_308) = 0 TMP\_309 = 0 not(TMP\_309) = 1 TMP\_310 = 4 TMP\_311 = 0 not(TMP\_311) = 1 TMP\_312 = 0 not(TMP\_312) = 1 TMP\_313 = 0 TMP\_314 = 1 not(TMP\_314) = 0 TMP\_315 = 1 not(TMP\_315) = 0 TMP\_316 = 2 TMP\_317 = 0 not(TMP\_317) = 1 TMP\_318 = 0 not(TMP\_318) = 1 TMP\_319 = 1 not(TMP\_319) = 0 TMP\_320 = 1 not(TMP\_320) = 0 TMP\_321 = 1 not(TMP\_321) = 0 TMP\_322 = 2 TMP\_323 = 0 not(TMP\_323) = 1 TMP\_324 = 1 not(TMP\_324) = 0 TMP\_325 = 1 not(TMP\_325) = 0 TMP\_326 = 1 not(TMP\_326) = 0 TMP\_327 = 1 not(TMP\_327) = 0 TMP\_328 = 1 not(TMP\_328) = 0 TMP\_329 = 5 TMP\_330 = 0 not(TMP\_330) = 1 TMP\_331 = 0 not(TMP\_331) = 1 TMP\_332 = 0 TMP\_333 = 1 not(TMP\_333) = 0 TMP\_334 = 1 not(TMP\_334) = 0 TMP\_335 = 2 TMP\_336 = 0 not(TMP\_336) = 1 TMP\_337 = 0 not(TMP\_337) = 1 TMP\_338 = 1 not(TMP\_338) = 0 TMP\_339 = 1 not(TMP\_339) = 0 TMP\_340 = 1 not(TMP\_340) = 0 TMP\_341 = 2 TMP\_342 = 1 not(TMP\_342) = 0 TMP\_343 = 1 not(TMP\_343) = 0 TMP\_344 = 1 not(TMP\_344) = 0 TMP\_345 = 1 not(TMP\_345) = 0 TMP\_346 = 1 not(TMP\_346) = 0 TMP\_347 = 0 not(TMP\_347) = 1 TMP\_348 = 5 TMP\_349 = 0 not(TMP\_349) = 1 TMP\_350 = 0 not(TMP\_350) = 1 TMP\_351 = 0 TMP\_352 = 1 not(TMP\_352) = 0 TMP\_353 = 1 not(TMP\_353) = 0 TMP\_354 = 2 TMP\_355 = 0 not(TMP\_355) = 1 TMP\_356 = 0 not(TMP\_356) = 1 TMP\_357 = 1 not(TMP\_357) = 0 TMP\_358 = 1 not(TMP\_358) = 0 TMP\_359 = 1 not(TMP\_359) = 0 TMP\_360 = 2 TMP\_361 = 0 not(TMP\_361) = 1 TMP\_362 = 1 not(TMP\_362) = 0 TMP\_363 = 1 not(TMP\_363) = 0 TMP\_364 = 1 not(TMP\_364) = 0 TMP\_365 = 1 not(TMP\_365) = 0 TMP\_366 = 1 not(TMP\_366) = 0 TMP\_367 = 5 TMP\_368 = 0 not(TMP\_368) = 1 TMP\_369 = 0 not(TMP\_369) = 1 TMP\_370 = 0 TMP\_371 = 1 not(TMP\_371) = 0 TMP\_372 = 1 not(TMP\_372) = 0 TMP\_373 = 2 TMP\_374 = 0 not(TMP\_374) = 1 TMP\_375 = 0 not(TMP\_375) = 1 TMP\_376 = 1 not(TMP\_376) = 0 TMP\_377 = 1 not(TMP\_377) = 0 TMP\_378 = 1 not(TMP\_378) = 0 TMP\_379 = 2 TMP\_380 = 0 not(TMP\_380) = 1 TMP\_381 = 1 not(TMP\_381) = 0 TMP\_382 = 1 not(TMP\_382) = 0 TMP\_383 = 1 not(TMP\_383) = 0 TMP\_384 = 1 not(TMP\_384) = 0 TMP\_385 = 0 not(TMP\_385) = 1 TMP\_386 = 4 TMP\_387 = 0 not(TMP\_387) = 1 TMP\_388 = 0 not(TMP\_388) = 1 TMP\_389 = 0 TMP\_390 = 1 not(TMP\_390) = 0 TMP\_391 = 1 not(TMP\_391) = 0 TMP\_392 = 2 TMP\_393 = 0 not(TMP\_393) = 1 TMP\_394 = 0 not(TMP\_394) = 1 TMP\_395 = 1 not(TMP\_395) = 0 TMP\_396 = 1 not(TMP\_396) = 0 TMP\_397 = 1 not(TMP\_397) = 0 TMP\_398 = 2 TMP\_399 = 1 not(TMP\_399) = 0 TMP\_400 = 1 not(TMP\_400) = 0 TMP\_401 = 1 not(TMP\_401) = 0 TMP\_402 = 0 not(TMP\_402) = 1 TMP\_403 = 1 not(TMP\_403) = 0 TMP\_404 = 1 not(TMP\_404) = 0 TMP\_405 = 5 TMP\_406 = 0 not(TMP\_406) = 1 TMP\_407 = 0 not(TMP\_407) = 1 TMP\_408 = 0 TMP\_409 = 1 not(TMP\_409) = 0 TMP\_410 = 1 not(TMP\_410) = 0 TMP\_411 = 2 TMP\_412 = 0 not(TMP\_412) = 1 TMP\_413 = 0 not(TMP\_413) = 1 TMP\_414 = 1 not(TMP\_414) = 0 TMP\_415 = 1 not(TMP\_415) = 0 TMP\_416 = 1 not(TMP\_416) = 0 TMP\_417 = 2 TMP\_418 = 0 not(TMP\_418) = 1 TMP\_419 = 1 not(TMP\_419) = 0 TMP\_420 = 1 not(TMP\_420) = 0 TMP\_421 = 1 not(TMP\_421) = 0 TMP\_422 = 1 not(TMP\_422) = 0 TMP\_423 = 0 not(TMP\_423) = 1 TMP\_424 = 4 TMP\_425 = 0 not(TMP\_425) = 1 TMP\_426 = 0 not(TMP\_426) = 1 TMP\_427 = 0 TMP\_428 = 1 not(TMP\_428) = 0 TMP\_429 = 1 not(TMP\_429) = 0 TMP\_430 = 2 TMP\_431 = 0 not(TMP\_431) = 1 TMP\_432 = 0 not(TMP\_432) = 1 TMP\_433 = 1 not(TMP\_433) = 0 TMP\_434 = 1 not(TMP\_434) = 0 TMP\_435 = 1 not(TMP\_435) = 0 TMP\_436 = 2 TMP\_437 = 1 not(TMP\_437) = 0 TMP\_438 = 0 not(TMP\_438) = 1 TMP\_439 = 1 not(TMP\_439) = 0 TMP\_440 = 1 not(TMP\_440) = 0 TMP\_441 = 1 not(TMP\_441) = 0 TMP\_442 = 0 not(TMP\_442) = 1 TMP\_443 = 4 TMP\_444 = 0 not(TMP\_444) = 1 TMP\_445 = 0 not(TMP\_445) = 1 TMP\_446 = 0 TMP\_447 = 1 not(TMP\_447) = 0 TMP\_448 = 1 not(TMP\_448) = 0 TMP\_449 = 2 TMP\_450 = 0 not(TMP\_450) = 1 TMP\_451 = 0 not(TMP\_451) = 1 TMP\_452 = 1 not(TMP\_452) = 0 TMP\_453 = 1 not(TMP\_453) = 0 TMP\_454 = 1 not(TMP\_454) = 0 TMP\_455 = 2 TMP\_456 = 1 not(TMP\_456) = 0 TMP\_457 = 0 not(TMP\_457) = 1 TMP\_458 = 1 not(TMP\_458) = 0 TMP\_459 = 1 not(TMP\_459) = 0 TMP\_460 = 1 not(TMP\_460) = 0 TMP\_461 = 1 not(TMP\_461) = 0 TMP\_462 = 5 TMP\_463 = 0 not(TMP\_463) = 1 TMP\_464 = 0 not(TMP\_464) = 1 TMP\_465 = 0 TMP\_466 = 1 not(TMP\_466) = 0 TMP\_467 = 1 not(TMP\_467) = 0 TMP\_468 = 2 TMP\_469 = 0 not(TMP\_469) = 1 TMP\_470 = 0 not(TMP\_470) = 1 TMP\_471 = 1 not(TMP\_471) = 0 TMP\_472 = 1 not(TMP\_472) = 0 TMP\_473 = 1 not(TMP\_473) = 0 TMP\_474 = 2 TMP\_475 = 1 not(TMP\_475) = 0 TMP\_476 = 0 not(TMP\_476) = 1 TMP\_477 = 1 not(TMP\_477) = 0 TMP\_478 = 1 not(TMP\_478) = 0 TMP\_479 = 1 not(TMP\_479) = 0 TMP\_480 = 1 not(TMP\_480) = 0 TMP\_481 = 5 TMP\_482 = 0 not(TMP\_482) = 1 TMP\_483 = 0 not(TMP\_483) = 1 TMP\_484 = 0 TMP\_485 = 1 not(TMP\_485) = 0 TMP\_486 = 1 not(TMP\_486) = 0 TMP\_487 = 2 TMP\_488 = 0 not(TMP\_488) = 1 TMP\_489 = 0 not(TMP\_489) = 1 TMP\_490 = 1 not(TMP\_490) = 0 TMP\_491 = 1 not(TMP\_491) = 0 TMP\_492 = 1 not(TMP\_492) = 0 TMP\_493 = 2 TMP\_494 = 1 not(TMP\_494) = 0 TMP\_495 = 0 not(TMP\_495) = 1 TMP\_496 = 1 not(TMP\_496) = 0 TMP\_497 = 1 not(TMP\_497) = 0 TMP\_498 = 1 not(TMP\_498) = 0 TMP\_499 = 1 not(TMP\_499) = 0 TMP\_500 = 5 TMP\_501 = 0 not(TMP\_501) = 1 TMP\_502 = 0 not(TMP\_502) = 1 TMP\_503 = 0 TMP\_504 = 1 not(TMP\_504) = 0 TMP\_505 = 1 not(TMP\_505) = 0 TMP\_506 = 2 TMP\_507 = 0 not(TMP\_507) = 1 TMP\_508 = 0 not(TMP\_508) = 1 TMP\_509 = 1 not(TMP\_509) = 0 TMP\_510 = 1 not(TMP\_510) = 0 TMP\_511 = 1 not(TMP\_511) = 0 TMP\_512 = 2 TMP\_513 = 1 not(TMP\_513) = 0 TMP\_514 = 0 not(TMP\_514) = 1 TMP\_515 = 1 not(TMP\_515) = 0 TMP\_516 = 1 not(TMP\_516) = 0 TMP\_517 = 1 not(TMP\_517) = 0 TMP\_518 = 0 not(TMP\_518) = 1 TMP\_519 = 4 TMP\_520 = 0 not(TMP\_520) = 1 TMP\_521 = 0 not(TMP\_521) = 1 TMP\_522 = 0 TMP\_523 = 1 not(TMP\_523) = 0 TMP\_524 = 1 not(TMP\_524) = 0 TMP\_525 = 2 TMP\_526 = 0 not(TMP\_526) = 1 TMP\_527 = 0 not(TMP\_527) = 1 TMP\_528 = 1 not(TMP\_528) = 0 TMP\_529 = 1 not(TMP\_529) = 0 TMP\_530 = 1 not(TMP\_530) = 0 TMP\_531 = 2 TMP\_532 = 0 not(TMP\_532) = 1 TMP\_533 = 1 not(TMP\_533) = 0 TMP\_534 = 1 not(TMP\_534) = 0 TMP\_535 = 1 not(TMP\_535) = 0 TMP\_536 = 1 not(TMP\_536) = 0 TMP\_537 = 1 not(TMP\_537) = 0 TMP\_538 = 5 TMP\_539 = 0 not(TMP\_539) = 1 TMP\_540 = 0 not(TMP\_540) = 1 TMP\_541 = 0 TMP\_542 = 1 not(TMP\_542) = 0 TMP\_543 = 1 not(TMP\_543) = 0 TMP\_544 = 2 TMP\_545 = 0 not(TMP\_545) = 1 TMP\_546 = 0 not(TMP\_546) = 1 TMP\_547 = 1 not(TMP\_547) = 0 TMP\_548 = 1 not(TMP\_548) = 0 TMP\_549 = 1 not(TMP\_549) = 0 TMP\_550 = 2 TMP\_551 = 1 not(TMP\_551) = 0 TMP\_552 = 0 not(TMP\_552) = 1 TMP\_553 = 1 not(TMP\_553) = 0 TMP\_554 = 1 not(TMP\_554) = 0 TMP\_555 = 1 not(TMP\_555) = 0 TMP\_556 = 0 not(TMP\_556) = 1 TMP\_557 = 4 TMP\_558 = 0 not(TMP\_558) = 1 TMP\_559 = 0 not(TMP\_559) = 1 TMP\_560 = 0 TMP\_561 = 1 not(TMP\_561) = 0 TMP\_562 = 1 not(TMP\_562) = 0 TMP\_563 = 2 TMP\_564 = 0 not(TMP\_564) = 1 TMP\_565 = 0 not(TMP\_565) = 1 TMP\_566 = 1 not(TMP\_566) = 0 TMP\_567 = 1 not(TMP\_567) = 0 TMP\_568 = 1 not(TMP\_568) = 0 TMP\_569 = 2 TMP\_570 = 1 not(TMP\_570) = 0 TMP\_571 = 0 not(TMP\_571) = 1 TMP\_572 = 1 not(TMP\_572) = 0 TMP\_573 = 1 not(TMP\_573) = 0 TMP\_574 = 1 not(TMP\_574) = 0 TMP\_575 = 1 not(TMP\_575) = 0 TMP\_576 = 5 TMP\_577 = 0 not(TMP\_577) = 1 TMP\_578 = 0 not(TMP\_578) = 1 TMP\_579 = 0 TMP\_580 = 1 not(TMP\_580) = 0 TMP\_581 = 1 not(TMP\_581) = 0 TMP\_582 = 2 TMP\_583 = 0 not(TMP\_583) = 1 TMP\_584 = 0 not(TMP\_584) = 1 TMP\_585 = 1 not(TMP\_585) = 0 TMP\_586 = 1 not(TMP\_586) = 0 TMP\_587 = 1 not(TMP\_587) = 0 TMP\_588 = 2 TMP\_589 = 1 not(TMP\_589) = 0 TMP\_590 = 1 not(TMP\_590) = 0 TMP\_591 = 1 not(TMP\_591) = 0 TMP\_592 = 1 not(TMP\_592) = 0 TMP\_593 = 1 not(TMP\_593) = 0 TMP\_594 = 0 not(TMP\_594) = 1 TMP\_595 = 5 TMP\_596 = 0 not(TMP\_596) = 1 TMP\_597 = 0 not(TMP\_597) = 1 TMP\_598 = 0 TMP\_599 = 1 not(TMP\_599) = 0 TMP\_600 = 1 not(TMP\_600) = 0 TMP\_601 = 2 TMP\_602 = 0 not(TMP\_602) = 1 TMP\_603 = 0 not(TMP\_603) = 1 TMP\_604 = 1 not(TMP\_604) = 0 TMP\_605 = 1 not(TMP\_605) = 0 TMP\_606 = 1 not(TMP\_606) = 0 TMP\_607 = 2 TMP\_608 = 1 not(TMP\_608) = 0 TMP\_609 = 0 not(TMP\_609) = 1 TMP\_610 = 1 not(TMP\_610) = 0 TMP\_611 = 1 not(TMP\_611) = 0 TMP\_612 = 1 not(TMP\_612) = 0 TMP\_613 = 1 not(TMP\_613) = 0 TMP\_614 = 5 TMP\_615 = 0 not(TMP\_615) = 1 TMP\_616 = 0 not(TMP\_616) = 1 TMP\_617 = 0 TMP\_618 = 1 not(TMP\_618) = 0 TMP\_619 = 1 not(TMP\_619) = 0 TMP\_620 = 2 TMP\_621 = 0 not(TMP\_621) = 1 TMP\_622 = 0 not(TMP\_622) = 1 TMP\_623 = 1 not(TMP\_623) = 0 TMP\_624 = 1 not(TMP\_624) = 0 TMP\_625 = 1 not(TMP\_625) = 0 TMP\_626 = 2 TMP\_627 = 0 not(TMP\_627) = 1 TMP\_628 = 1 not(TMP\_628) = 0 TMP\_629 = 1 not(TMP\_629) = 0 TMP\_630 = 1 not(TMP\_630) = 0 TMP\_631 = 1 not(TMP\_631) = 0 TMP\_632 = 1 not(TMP\_632) = 0 TMP\_633 = 5 TMP\_634 = 0 not(TMP\_634) = 1 TMP\_635 = 0 not(TMP\_635) = 1 TMP\_636 = 0 TMP\_637 = 1 not(TMP\_637) = 0 TMP\_638 = 1 not(TMP\_638) = 0 TMP\_639 = 2 TMP\_640 = 0 not(TMP\_640) = 1 TMP\_641 = 0 not(TMP\_641) = 1 TMP\_642 = 1 not(TMP\_642) = 0 TMP\_643 = 1 not(TMP\_643) = 0 TMP\_644 = 1 not(TMP\_644) = 0 TMP\_645 = 2 TMP\_646 = 1 not(TMP\_646) = 0 TMP\_647 = 0 not(TMP\_647) = 1 TMP\_648 = 1 not(TMP\_648) = 0 TMP\_649 = 1 not(TMP\_649) = 0 TMP\_650 = 1 not(TMP\_650) = 0 TMP\_651 = 1 not(TMP\_651) = 0 TMP\_652 = 5 TMP\_653 = 0 not(TMP\_653) = 1 TMP\_654 = 0 not(TMP\_654) = 1 TMP\_655 = 0 TMP\_656 = 1 not(TMP\_656) = 0 TMP\_657 = 1 not(TMP\_657) = 0 TMP\_658 = 2 TMP\_659 = 0 not(TMP\_659) = 1 TMP\_660 = 0 not(TMP\_660) = 1 TMP\_661 = 1 not(TMP\_661) = 0 TMP\_662 = 1 not(TMP\_662) = 0 TMP\_663 = 1 not(TMP\_663) = 0 TMP\_664 = 2 TMP\_665 = 1 not(TMP\_665) = 0 TMP\_666 = 0 not(TMP\_666) = 1 TMP\_667 = 1 not(TMP\_667) = 0 TMP\_668 = 1 not(TMP\_668) = 0 TMP\_669 = 0 not(TMP\_669) = 1 TMP\_670 = 1 not(TMP\_670) = 0 TMP\_671 = 4 TMP\_672 = 0 not(TMP\_672) = 1 TMP\_673 = 0 not(TMP\_673) = 1 TMP\_674 = 0 TMP\_675 = 1 not(TMP\_675) = 0 TMP\_676 = 1 not(TMP\_676) = 0 TMP\_677 = 2 TMP\_678 = 0 not(TMP\_678) = 1 TMP\_679 = 0 not(TMP\_679) = 1 TMP\_680 = 1 not(TMP\_680) = 0 TMP\_681 = 1 not(TMP\_681) = 0 TMP\_682 = 1 not(TMP\_682) = 0 TMP\_683 = 2 TMP\_684 = 1 not(TMP\_684) = 0 TMP\_685 = 0 not(TMP\_685) = 1 TMP\_686 = 1 not(TMP\_686) = 0 TMP\_687 = 1 not(TMP\_687) = 0 TMP\_688 = 0 not(TMP\_688) = 1 TMP\_689 = 1 not(TMP\_689) = 0 TMP\_690 = 4 TMP\_691 = 0 not(TMP\_691) = 1 TMP\_692 = 0 not(TMP\_692) = 1 TMP\_693 = 0 TMP\_694 = 1 not(TMP\_694) = 0 TMP\_695 = 1 not(TMP\_695) = 0 TMP\_696 = 2 TMP\_697 = 0 not(TMP\_697) = 1 TMP\_698 = 0 not(TMP\_698) = 1 TMP\_699 = 1 not(TMP\_699) = 0 TMP\_700 = 1 not(TMP\_700) = 0 TMP\_701 = 1 not(TMP\_701) = 0 TMP\_702 = 2 TMP\_703 = 1 not(TMP\_703) = 0 TMP\_704 = 0 not(TMP\_704) = 1 TMP\_705 = 1 not(TMP\_705) = 0 TMP\_706 = 1 not(TMP\_706) = 0 TMP\_707 = 0 not(TMP\_707) = 1 TMP\_708 = 1 not(TMP\_708) = 0 TMP\_709 = 4 TMP\_710 = 0 not(TMP\_710) = 1 TMP\_711 = 0 not(TMP\_711) = 1 TMP\_712 = 0 TMP\_713 = 1 not(TMP\_713) = 0 TMP\_714 = 1 not(TMP\_714) = 0 TMP\_715 = 2 TMP\_716 = 0 not(TMP\_716) = 1 TMP\_717 = 0 not(TMP\_717) = 1 TMP\_718 = 1 not(TMP\_718) = 0 TMP\_719 = 1 not(TMP\_719) = 0 TMP\_720 = 1 not(TMP\_720) = 0 TMP\_721 = 2 TMP\_722 = 1 not(TMP\_722) = 0 TMP\_723 = 0 not(TMP\_723) = 1 TMP\_724 = 1 not(TMP\_724) = 0 TMP\_725 = 1 not(TMP\_725) = 0 TMP\_726 = 1 not(TMP\_726) = 0 TMP\_727 = 1 not(TMP\_727) = 0 TMP\_728 = 5 TMP\_729 = 0 not(TMP\_729) = 1 TMP\_730 = 0 not(TMP\_730) = 1 TMP\_731 = 0 TMP\_732 = 1 not(TMP\_732) = 0 TMP\_733 = 1 not(TMP\_733) = 0 TMP\_734 = 2 TMP\_735 = 0 not(TMP\_735) = 1 TMP\_736 = 0 not(TMP\_736) = 1 TMP\_737 = 1 not(TMP\_737) = 0 TMP\_738 = 1 not(TMP\_738) = 0 TMP\_739 = 1 not(TMP\_739) = 0 TMP\_740 = 2 TMP\_741 = 0 not(TMP\_741) = 1 TMP\_742 = 1 not(TMP\_742) = 0 TMP\_743 = 1 not(TMP\_743) = 0 TMP\_744 = 1 not(TMP\_744) = 0 TMP\_745 = 0 not(TMP\_745) = 1 TMP\_746 = 1 not(TMP\_746) = 0 TMP\_747 = 4 TMP\_748 = 0 not(TMP\_748) = 1 TMP\_749 = 0 not(TMP\_749) = 1 TMP\_750 = 0 TMP\_751 = 1 not(TMP\_751) = 0 TMP\_752 = 1 not(TMP\_752) = 0 TMP\_753 = 2 TMP\_754 = 0 not(TMP\_754) = 1 TMP\_755 = 0 not(TMP\_755) = 1 TMP\_756 = 1 not(TMP\_756) = 0 TMP\_757 = 1 not(TMP\_757) = 0 TMP\_758 = 1 not(TMP\_758) = 0 TMP\_759 = 2 TMP\_760 = 1 not(TMP\_760) = 0 TMP\_761 = 0 not(TMP\_761) = 1 TMP\_762 = 1 not(TMP\_762) = 0 TMP\_763 = 1 not(TMP\_763) = 0 TMP\_764 = 1 not(TMP\_764) = 0 TMP\_765 = 1 not(TMP\_765) = 0 TMP\_766 = 5 TMP\_767 = 0 not(TMP\_767) = 1 TMP\_768 = 0 not(TMP\_768) = 1 TMP\_769 = 0 TMP\_770 = 1 not(TMP\_770) = 0 TMP\_771 = 1 not(TMP\_771) = 0 TMP\_772 = 2 TMP\_773 = 0 not(TMP\_773) = 1 TMP\_774 = 0 not(TMP\_774) = 1 TMP\_775 = 1 not(TMP\_775) = 0 TMP\_776 = 1 not(TMP\_776) = 0 TMP\_777 = 1 not(TMP\_777) = 0 TMP\_778 = 2 TMP\_779 = 1 not(TMP\_779) = 0 TMP\_780 = 0 not(TMP\_780) = 1 TMP\_781 = 1 not(TMP\_781) = 0 TMP\_782 = 1 not(TMP\_782) = 0 TMP\_783 = 0 not(TMP\_783) = 1 TMP\_784 = 1 not(TMP\_784) = 0 TMP\_785 = 4 TMP\_786 = 0 not(TMP\_786) = 1 TMP\_787 = 0 not(TMP\_787) = 1 TMP\_788 = 0 TMP\_789 = 1 not(TMP\_789) = 0 TMP\_790 = 1 not(TMP\_790) = 0 TMP\_791 = 2 TMP\_792 = 0 not(TMP\_792) = 1 TMP\_793 = 0 not(TMP\_793) = 1 TMP\_794 = 1 not(TMP\_794) = 0 TMP\_795 = 1 not(TMP\_795) = 0 TMP\_796 = 1 not(TMP\_796) = 0 TMP\_797 = 2 TMP\_798 = 1 not(TMP\_798) = 0 TMP\_799 = 1 not(TMP\_799) = 0 TMP\_800 = 1 not(TMP\_800) = 0 TMP\_801 = 1 not(TMP\_801) = 0 TMP\_802 = 0 not(TMP\_802) = 1 TMP\_803 = 1 not(TMP\_803) = 0 TMP\_804 = 5 TMP\_805 = 0 not(TMP\_805) = 1 TMP\_806 = 0 not(TMP\_806) = 1 TMP\_807 = 0 TMP\_808 = 1 not(TMP\_808) = 0 TMP\_809 = 1 not(TMP\_809) = 0 TMP\_810 = 2 TMP\_811 = 0 not(TMP\_811) = 1 TMP\_812 = 0 not(TMP\_812) = 1 TMP\_813 = 1 not(TMP\_813) = 0 TMP\_814 = 1 not(TMP\_814) = 0 TMP\_815 = 1 not(TMP\_815) = 0 TMP\_816 = 2 TMP\_817 = 1 not(TMP\_817) = 0 TMP\_818 = 0 not(TMP\_818) = 1 TMP\_819 = 1 not(TMP\_819) = 0 TMP\_820 = 1 not(TMP\_820) = 0 TMP\_821 = 0 not(TMP\_821) = 1 TMP\_822 = 1 not(TMP\_822) = 0 TMP\_823 = 4 TMP\_824 = 0 not(TMP\_824) = 1 TMP\_825 = 0 not(TMP\_825) = 1 TMP\_826 = 0 TMP\_827 = 1 not(TMP\_827) = 0 TMP\_828 = 1 not(TMP\_828) = 0 TMP\_829 = 2 TMP\_830 = 0 not(TMP\_830) = 1 TMP\_831 = 0 not(TMP\_831) = 1 TMP\_832 = 1 not(TMP\_832) = 0 TMP\_833 = 1 not(TMP\_833) = 0 TMP\_834 = 1 not(TMP\_834) = 0 TMP\_835 = 2 TMP\_836 = 0 not(TMP\_836) = 1 TMP\_837 = 1 not(TMP\_837) = 0 TMP\_838 = 1 not(TMP\_838) = 0 TMP\_839 = 1 not(TMP\_839) = 0 TMP\_840 = 1 not(TMP\_840) = 0 TMP\_841 = 0 not(TMP\_841) = 1 TMP\_842 = 4 TMP\_843 = 0 not(TMP\_843) = 1 TMP\_844 = 0 not(TMP\_844) = 1 TMP\_845 = 0 TMP\_846 = 1 not(TMP\_846) = 0 TMP\_847 = 1 not(TMP\_847) = 0 TMP\_848 = 2 TMP\_849 = 0 not(TMP\_849) = 1 TMP\_850 = 0 not(TMP\_850) = 1 TMP\_851 = 1 not(TMP\_851) = 0 TMP\_852 = 1 not(TMP\_852) = 0 TMP\_853 = 1 not(TMP\_853) = 0 TMP\_854 = 2 TMP\_855 = 0 not(TMP\_855) = 1 TMP\_856 = 1 not(TMP\_856) = 0 TMP\_857 = 1 not(TMP\_857) = 0 TMP\_858 = 1 not(TMP\_858) = 0 TMP\_859 = 1 not(TMP\_859) = 0 TMP\_860 = 0 not(TMP\_860) = 1 TMP\_861 = 4 TMP\_862 = 0 not(TMP\_862) = 1 TMP\_863 = 0 not(TMP\_863) = 1 TMP\_864 = 0 TMP\_865 = 1 not(TMP\_865) = 0 TMP\_866 = 1 not(TMP\_866) = 0 TMP\_867 = 2 TMP\_868 = 0 not(TMP\_868) = 1 TMP\_869 = 0 not(TMP\_869) = 1 TMP\_870 = 1 not(TMP\_870) = 0 TMP\_871 = 1 not(TMP\_871) = 0 TMP\_872 = 1 not(TMP\_872) = 0 TMP\_873 = 2 TMP\_874 = 0 not(TMP\_874) = 1 TMP\_875 = 1 not(TMP\_875) = 0 TMP\_876 = 1 not(TMP\_876) = 0 TMP\_877 = 1 not(TMP\_877) = 0 TMP\_878 = 1 not(TMP\_878) = 0 TMP\_879 = 1 not(TMP\_879) = 0 TMP\_880 = 5 TMP\_881 = 0 not(TMP\_881) = 1 TMP\_882 = 0 not(TMP\_882) = 1 TMP\_883 = 0 TMP\_884 = 1 not(TMP\_884) = 0 TMP\_885 = 1 not(TMP\_885) = 0 TMP\_886 = 2 TMP\_887 = 0 not(TMP\_887) = 1 TMP\_888 = 0 not(TMP\_888) = 1 TMP\_889 = 1 not(TMP\_889) = 0 TMP\_890 = 1 not(TMP\_890) = 0 TMP\_891 = 1 not(TMP\_891) = 0 TMP\_892 = 2 TMP\_893 = 0 not(TMP\_893) = 1 TMP\_894 = 1 not(TMP\_894) = 0 TMP\_895 = 0 not(TMP\_895) = 1 TMP\_896 = 1 not(TMP\_896) = 0 TMP\_897 = 1 not(TMP\_897) = 0 TMP\_898 = 1 not(TMP\_898) = 0 TMP\_899 = 4 TMP\_900 = 0 not(TMP\_900) = 1 TMP\_901 = 0 not(TMP\_901) = 1 TMP\_902 = 0 TMP\_903 = 1 not(TMP\_903) = 0 TMP\_904 = 1 not(TMP\_904) = 0 TMP\_905 = 2 TMP\_906 = 0 not(TMP\_906) = 1 TMP\_907 = 0 not(TMP\_907) = 1 TMP\_908 = 1 not(TMP\_908) = 0 TMP\_909 = 1 not(TMP\_909) = 0 TMP\_910 = 1 not(TMP\_910) = 0 TMP\_911 = 2 TMP\_912 = 1 not(TMP\_912) = 0 TMP\_913 = 0 not(TMP\_913) = 1 TMP\_914 = 1 not(TMP\_914) = 0 TMP\_915 = 1 not(TMP\_915) = 0 TMP\_916 = 1 not(TMP\_916) = 0 TMP\_917 = 1 not(TMP\_917) = 0 TMP\_918 = 5 TMP\_919 = 0 not(TMP\_919) = 1 TMP\_920 = 0 not(TMP\_920) = 1 TMP\_921 = 0 TMP\_922 = 1 not(TMP\_922) = 0 TMP\_923 = 1 not(TMP\_923) = 0 TMP\_924 = 2 TMP\_925 = 0 not(TMP\_925) = 1 TMP\_926 = 0 not(TMP\_926) = 1 TMP\_927 = 1 not(TMP\_927) = 0 TMP\_928 = 1 not(TMP\_928) = 0 TMP\_929 = 1 not(TMP\_929) = 0 TMP\_930 = 2 TMP\_931 = 1 not(TMP\_931) = 0 TMP\_932 = 0 not(TMP\_932) = 1 TMP\_933 = 1 not(TMP\_933) = 0 TMP\_934 = 1 not(TMP\_934) = 0 TMP\_935 = 1 not(TMP\_935) = 0 TMP\_936 = 0 not(TMP\_936) = 1 TMP\_937 = 4 TMP\_938 = 0 not(TMP\_938) = 1 TMP\_939 = 0 not(TMP\_939) = 1 TMP\_940 = 0 TMP\_941 = 1 not(TMP\_941) = 0 TMP\_942 = 1 not(TMP\_942) = 0 TMP\_943 = 2 TMP\_944 = 0 not(TMP\_944) = 1 TMP\_945 = 0 not(TMP\_945) = 1 TMP\_946 = 1 not(TMP\_946) = 0 TMP\_947 = 1 not(TMP\_947) = 0 TMP\_948 = 1 not(TMP\_948) = 0 TMP\_949 = 2 TMP\_950 = 0 not(TMP\_950) = 1 TMP\_951 = 1 not(TMP\_951) = 0 TMP\_952 = 1 not(TMP\_952) = 0 TMP\_953 = 1 not(TMP\_953) = 0 TMP\_954 = 1 not(TMP\_954) = 0 TMP\_955 = 1 not(TMP\_955) = 0 TMP\_956 = 5 TMP\_957 = 0 not(TMP\_957) = 1 TMP\_958 = 0 not(TMP\_958) = 1 TMP\_959 = 0 TMP\_960 = 1 not(TMP\_960) = 0 TMP\_961 = 1 not(TMP\_961) = 0 TMP\_962 = 2 TMP\_963 = 0 not(TMP\_963) = 1 TMP\_964 = 0 not(TMP\_964) = 1 TMP\_965 = 1 not(TMP\_965) = 0 TMP\_966 = 1 not(TMP\_966) = 0 TMP\_967 = 1 not(TMP\_967) = 0 TMP\_968 = 2 TMP\_969 = 1 not(TMP\_969) = 0 TMP\_970 = 1 not(TMP\_970) = 0 TMP\_971 = 1 not(TMP\_971) = 0 TMP\_972 = 1 not(TMP\_972) = 0 TMP\_973 = 1 not(TMP\_973) = 0 TMP\_974 = 0 not(TMP\_974) = 1 TMP\_975 = 5 TMP\_976 = 0 not(TMP\_976) = 1 TMP\_977 = 0 not(TMP\_977) = 1 TMP\_978 = 0 TMP\_979 = 1 not(TMP\_979) = 0 TMP\_980 = 1 not(TMP\_980) = 0 TMP\_981 = 2 TMP\_982 = 0 not(TMP\_982) = 1 TMP\_983 = 0 not(TMP\_983) = 1 TMP\_984 = 1 not(TMP\_984) = 0 TMP\_985 = 1 not(TMP\_985) = 0 TMP\_986 = 1 not(TMP\_986) = 0 TMP\_987 = 2 TMP\_988 = 1 not(TMP\_988) = 0 TMP\_989 = 1 not(TMP\_989) = 0 TMP\_990 = 0 not(TMP\_990) = 1 TMP\_991 = 1 not(TMP\_991) = 0 TMP\_992 = 1 not(TMP\_992) = 0 TMP\_993 = 1 not(TMP\_993) = 0 TMP\_994 = 5 TMP\_995 = 0 not(TMP\_995) = 1 TMP\_996 = 0 not(TMP\_996) = 1 TMP\_997 = 0 TMP\_998 = 1 not(TMP\_998) = 0 TMP\_999 = 1 not(TMP\_999) = 0 TMP\_1000 = 2 TMP\_1001 = 0 not(TMP\_1001) = 1 TMP\_1002 = 0 not(TMP\_1002) = 1 TMP\_1003 = 1 not(TMP\_1003) = 0 TMP\_1004 = 1 not(TMP\_1004) = 0 TMP\_1005 = 1 not(TMP\_1005) = 0 TMP\_1006 = 2 TMP\_1007 = 0 not(TMP\_1007) = 1 TMP\_1008 = 1 not(TMP\_1008) = 0 TMP\_1009 = 1 not(TMP\_1009) = 0 TMP\_1010 = 1 not(TMP\_1010) = 0 TMP\_1011 = 1 not(TMP\_1011) = 0 TMP\_1012 = 1 not(TMP\_1012) = 0 TMP\_1013 = 5 TMP\_1014 = 0 not(TMP\_1014) = 1 TMP\_1015 = 0 not(TMP\_1015) = 1 TMP\_1016 = 0 TMP\_1017 = 1 not(TMP\_1017) = 0 TMP\_1018 = 1 not(TMP\_1018) = 0 TMP\_1019 = 2 TMP\_1020 = 0 not(TMP\_1020) = 1 TMP\_1021 = 0 not(TMP\_1021) = 1 TMP\_1022 = 1 not(TMP\_1022) = 0 TMP\_1023 = 1 not(TMP\_1023) = 0 TMP\_1024 = 1 not(TMP\_1024) = 0 TMP\_1025 = 2 TMP\_1026 = 0 not(TMP\_1026) = 1 TMP\_1027 = 1 not(TMP\_1027) = 0 TMP\_1028 = 1 not(TMP\_1028) = 0 TMP\_1029 = 1 not(TMP\_1029) = 0 TMP\_1030 = 1 not(TMP\_1030) = 0 TMP\_1031 = 0 not(TMP\_1031) = 1 TMP\_1032 = 4 TMP\_1033 = 0 not(TMP\_1033) = 1 TMP\_1034 = 0 not(TMP\_1034) = 1 TMP\_1035 = 0 TMP\_1036 = 1 not(TMP\_1036) = 0 TMP\_1037 = 1 not(TMP\_1037) = 0 TMP\_1038 = 2 TMP\_1039 = 0 not(TMP\_1039) = 1 TMP\_1040 = 0 not(TMP\_1040) = 1 TMP\_1041 = 1 not(TMP\_1041) = 0 TMP\_1042 = 1 not(TMP\_1042) = 0 TMP\_1043 = 1 not(TMP\_1043) = 0 TMP\_1044 = 2 Area\_0 = 60 Distance\_0\_Rule\_0 = 20 Distance\_1\_Rule\_0 = 3 Distance\_2\_Rule\_0 = 1 Area\_1 = 174 Distance\_0\_Rule\_1 = 58 Distance\_1\_Rule\_1 = 3 Distance\_2\_Rule\_1 = 1 Area\_2 = 116 Distance\_0\_Rule\_2 = 58 Distance\_1\_Rule\_2 = 2 Distance\_2\_Rule\_2 = 1 Area\_3 = 58 Distance\_0\_Rule\_3 = 58 Distance\_1\_Rule\_3 = 1 Distance\_2\_Rule\_3 = 1 Area\_4 = 120 Distance\_0\_Rule\_4 = 40 Distance\_1\_Rule\_4 = 3 Distance\_2\_Rule\_4 = 1 Area\_5 = 120 Distance\_0\_Rule\_5 = 40 Distance\_1\_Rule\_5 = 3 Distance\_2\_Rule\_5 = 1 Area\_6 = 60 Distance\_0\_Rule\_6 = 20 Distance\_1\_Rule\_6 = 3 Distance\_2\_Rule\_6 = 1 Area\_7 = 3 -(Rule\_7\_LB) = -79 Distance\_0\_Rule\_7 = 1 -(Rule\_7\_LB) = 0 Distance\_1\_Rule\_7 = 3 -(Rule\_7\_LB) = -1 Distance\_2\_Rule\_7 = 1 Area\_8 = 1 -(Rule\_8\_LB) = -79 Distance\_0\_Rule\_8 = 1 -(Rule\_8\_LB) = 0 Distance\_1\_Rule\_8 = 1 -(Rule\_8\_LB) = 0 Distance\_2\_Rule\_8 = 1 Area\_9 = 3 -(Rule\_9\_LB) = -20 Distance\_0\_Rule\_9 = 1 -(Rule\_9\_LB) = 0 Distance\_1\_Rule\_9 = 3 -(Rule\_9\_LB) = 0 Distance\_2\_Rule\_9 = 1 Area\_10 = 3 -(Rule\_10\_LB) = -20 Distance\_0\_Rule\_10 = 1 -(Rule\_10\_LB) = 0 Distance\_1\_Rule\_10 = 3 -(Rule\_10\_LB) = -1 Distance\_2\_Rule\_10 = 1 Area\_11 = 2 -(Rule\_11\_LB) = -79 Distance\_0\_Rule\_11 = 1 -(Rule\_11\_LB) = -1 Distance\_1\_Rule\_11 = 2 -(Rule\_11\_LB) = 0 Distance\_2\_Rule\_11 = 1 TMP\_1045 = 720 .

- Solution #18 found. 18 Solutions, Resolution 1.418s, 1490 Nodes (1,050.7 n/s), 2832 Backtracks, 1405 Fails, 0 Restarts

Rule\_7\_LB = 79 Rule\_7\_UB = 80 Rule\_7\_LB = 0 Rule\_7\_UB = 3 Rule\_7\_LB = 1 Rule\_7\_UB = 2 Rule\_8\_LB = 79 Rule\_8\_UB = 80 Rule\_8\_LB = 0 Rule\_8\_UB = 1 Rule\_8\_LB = 0 Rule\_8\_UB = 1 Rule\_9\_LB = 20 Rule\_9\_UB = 21 Rule\_9\_LB = 0 Rule\_9\_UB = 3 Rule\_9\_LB = 0 Rule\_9\_UB = 1 Rule\_10\_LB = 20 Rule\_10\_UB = 21 Rule\_10\_LB = 0 Rule\_10\_UB = 3 Rule\_10\_LB = 1 Rule\_10\_UB = 2 Rule\_11\_LB = 79 Rule\_11\_UB = 80 Rule\_11\_LB = 1 Rule\_11\_UB = 3 Rule\_11\_LB = 0 Rule\_11\_UB = 1 Overlaps\_0\_0 = 0 Overlaps\_0\_1 = 0 Overlaps\_0\_2 = 0 Overlaps\_0\_3 = 0 Overlaps\_0\_4 = 0 Overlaps\_0\_5 = 0 Overlaps\_0\_6 = 0 Overlaps\_0\_7 = 0 Overlaps\_0\_8 = 0 Overlaps\_0\_9 = 0 Overlaps\_0\_10 = 0 Overlaps\_0\_11 = 0 Overlaps\_1\_0 = 0 Overlaps\_1\_1 = 0 Overlaps\_1\_2 = 0 Overlaps\_1\_3 = 0 Overlaps\_1\_4 = 0 Overlaps\_1\_5 = 0 Overlaps\_1\_6 = 1 Overlaps\_1\_7 = 0 Overlaps\_1\_8 = 0 Overlaps\_1\_9 = 0 Overlaps\_1\_10 = 0 Overlaps\_1\_11 = 0 Overlaps\_2\_0 = 0 Overlaps\_2\_1 = 0 Overlaps\_2\_2 = 0 Overlaps\_2\_3 = 0 Overlaps\_2\_4 = 0 Overlaps\_2\_5 = 0 Overlaps\_2\_6 = 0 Overlaps\_2\_7 = 0 Overlaps\_2\_8 = 0 Overlaps\_2\_9 = 0 Overlaps\_2\_10 = 0 Overlaps\_2\_11 = 0 Overlaps\_3\_0 = 0 Overlaps\_3\_1 = 0 Overlaps\_3\_2 = 0 Overlaps\_3\_3 = 0 Overlaps\_3\_4 = 0 Overlaps\_3\_5 = 0 Overlaps\_3\_6 = 0 Overlaps\_3\_7 = 0 Overlaps\_3\_8 = 0 Overlaps\_3\_9 = 0 Overlaps\_3\_10 = 0 Overlaps\_3\_11 = 0 Overlaps\_4\_0 = 0 Overlaps\_4\_1 = 0 Overlaps\_4\_2 = 0 Overlaps\_4\_3 = 0 Overlaps\_4\_4 = 0 Overlaps\_4\_5 = 1 Overlaps\_4\_6 = 0 Overlaps\_4\_7 = 0 Overlaps\_4\_8 = 0 Overlaps\_4\_9 = 0 Overlaps\_4\_10 = 0 Overlaps\_4\_11 = 0 Overlaps\_5\_0 = 0 Overlaps\_5\_1 = 0 Overlaps\_5\_2 = 0 Overlaps\_5\_3 = 0 Overlaps\_5\_4 = 0 Overlaps\_5\_5 = 0 Overlaps\_5\_6 = 0 Overlaps\_5\_7 = 0 Overlaps\_5\_8 = 0 Overlaps\_5\_9 = 0 Overlaps\_5\_10 = 0 Overlaps\_5\_11 = 0 Overlaps\_6\_0 = 0 Overlaps\_6\_1 = 0 Overlaps\_6\_2 = 0 Overlaps\_6\_3 = 0 Overlaps\_6\_4 = 0 Overlaps\_6\_5 = 0 Overlaps\_6\_6 = 0 Overlaps\_6\_7 = 0 Overlaps\_6\_8 = 0 Overlaps\_6\_9 = 0 Overlaps\_6\_10 = 0 Overlaps\_6\_11 = 0 Overlaps\_7\_0 = 0 Overlaps\_7\_1 = 0 Overlaps\_7\_2 = 0 Overlaps\_7\_3 = 0 Overlaps\_7\_4 = 0 Overlaps\_7\_5 = 0 Overlaps\_7\_6 = 0 Overlaps\_7\_7 = 0 Overlaps\_7\_8 = 0 Overlaps\_7\_9 = 0 Overlaps\_7\_10 = 0 Overlaps\_7\_11 = 0 Overlaps\_8\_0 = 0 Overlaps\_8\_1 = 0 Overlaps\_8\_2 = 0 Overlaps\_8\_3 = 0 Overlaps\_8\_4 = 0 Overlaps\_8\_5 = 0 Overlaps\_8\_6 = 0 Overlaps\_8\_7 = 0 Overlaps\_8\_8 = 0 Overlaps\_8\_9 = 0 Overlaps\_8\_10 = 0 Overlaps\_8\_11 = 0 Overlaps\_9\_0 = 0 Overlaps\_9\_1 = 0 Overlaps\_9\_2 = 0 Overlaps\_9\_3 = 0 Overlaps\_9\_4 = 0 Overlaps\_9\_5 = 0 Overlaps\_9\_6 = 0 Overlaps\_9\_7 = 0 Overlaps\_9\_8 = 0 Overlaps\_9\_9 = 0 Overlaps\_9\_10 = 0 Overlaps\_9\_11 = 0 Overlaps\_10\_0 = 0 Overlaps\_10\_1 = 0 Overlaps\_10\_2 = 0 Overlaps\_10\_3 = 0 Overlaps\_10\_4 = 0 Overlaps\_10\_5 = 0 Overlaps\_10\_6 = 0 Overlaps\_10\_7 = 0 Overlaps\_10\_8 = 0 Overlaps\_10\_9 = 0 Overlaps\_10\_10 = 0 Overlaps\_10\_11 = 0 Overlaps\_11\_0 = 0 Overlaps\_11\_1 = 0 Overlaps\_11\_2 = 0 Overlaps\_11\_3 = 0 Overlaps\_11\_4 = 0 Overlaps\_11\_5 = 0 Overlaps\_11\_6 = 0 Overlaps\_11\_7 = 0 Overlaps\_11\_8 = 0 Overlaps\_11\_9 = 0 Overlaps\_11\_10 = 0 Overlaps\_11\_11 = 0 TMP\_0 = 0 not(TMP\_0) = 1 TMP\_1 = 1 not(TMP\_1) = 0 TMP\_2 = 1 not(TMP\_2) = 0 TMP\_3 = 1 not(TMP\_3) = 0 TMP\_4 = 1 not(TMP\_4) = 0 TMP\_5 = 1 not(TMP\_5) = 0 TMP\_6 = 5 TMP\_7 = 0 not(TMP\_7) = 1 TMP\_8 = 0 not(TMP\_8) = 1 TMP\_9 = 0 TMP\_10 = 1 not(TMP\_10) = 0 TMP\_11 = 1 not(TMP\_11) = 0 TMP\_12 = 2 TMP\_13 = 0 not(TMP\_13) = 1 TMP\_14 = 0 not(TMP\_14) = 1 TMP\_15 = 1 not(TMP\_15) = 0 TMP\_16 = 1 not(TMP\_16) = 0 TMP\_17 = 1 not(TMP\_17) = 0 TMP\_18 = 2 TMP\_19 = 0 not(TMP\_19) = 1 TMP\_20 = 1 not(TMP\_20) = 0 TMP\_21 = 1 not(TMP\_21) = 0 TMP\_22 = 1 not(TMP\_22) = 0 TMP\_23 = 1 not(TMP\_23) = 0 TMP\_24 = 1 not(TMP\_24) = 0 TMP\_25 = 5 TMP\_26 = 0 not(TMP\_26) = 1 TMP\_27 = 0 not(TMP\_27) = 1 TMP\_28 = 0 TMP\_29 = 1 not(TMP\_29) = 0 TMP\_30 = 1 not(TMP\_30) = 0 TMP\_31 = 2 TMP\_32 = 0 not(TMP\_32) = 1 TMP\_33 = 0 not(TMP\_33) = 1 TMP\_34 = 1 not(TMP\_34) = 0 TMP\_35 = 1 not(TMP\_35) = 0 TMP\_36 = 1 not(TMP\_36) = 0 TMP\_37 = 2 TMP\_38 = 0 not(TMP\_38) = 1 TMP\_39 = 1 not(TMP\_39) = 0 TMP\_40 = 1 not(TMP\_40) = 0 TMP\_41 = 1 not(TMP\_41) = 0 TMP\_42 = 0 not(TMP\_42) = 1 TMP\_43 = 1 not(TMP\_43) = 0 TMP\_44 = 4 TMP\_45 = 0 not(TMP\_45) = 1 TMP\_46 = 0 not(TMP\_46) = 1 TMP\_47 = 0 TMP\_48 = 1 not(TMP\_48) = 0 TMP\_49 = 1 not(TMP\_49) = 0 TMP\_50 = 2 TMP\_51 = 0 not(TMP\_51) = 1 TMP\_52 = 0 not(TMP\_52) = 1 TMP\_53 = 1 not(TMP\_53) = 0 TMP\_54 = 1 not(TMP\_54) = 0 TMP\_55 = 1 not(TMP\_55) = 0 TMP\_56 = 2 TMP\_57 = 0 not(TMP\_57) = 1 TMP\_58 = 1 not(TMP\_58) = 0 TMP\_59 = 1 not(TMP\_59) = 0 TMP\_60 = 1 not(TMP\_60) = 0 TMP\_61 = 0 not(TMP\_61) = 1 TMP\_62 = 1 not(TMP\_62) = 0 TMP\_63 = 4 TMP\_64 = 0 not(TMP\_64) = 1 TMP\_65 = 0 not(TMP\_65) = 1 TMP\_66 = 0 TMP\_67 = 1 not(TMP\_67) = 0 TMP\_68 = 1 not(TMP\_68) = 0 TMP\_69 = 2 TMP\_70 = 0 not(TMP\_70) = 1 TMP\_71 = 0 not(TMP\_71) = 1 TMP\_72 = 1 not(TMP\_72) = 0 TMP\_73 = 1 not(TMP\_73) = 0 TMP\_74 = 1 not(TMP\_74) = 0 TMP\_75 = 2 TMP\_76 = 1 not(TMP\_76) = 0 TMP\_77 = 0 not(TMP\_77) = 1 TMP\_78 = 1 not(TMP\_78) = 0 TMP\_79 = 1 not(TMP\_79) = 0 TMP\_80 = 0 not(TMP\_80) = 1 TMP\_81 = 1 not(TMP\_81) = 0 TMP\_82 = 4 TMP\_83 = 0 not(TMP\_83) = 1 TMP\_84 = 0 not(TMP\_84) = 1 TMP\_85 = 0 TMP\_86 = 1 not(TMP\_86) = 0 TMP\_87 = 1 not(TMP\_87) = 0 TMP\_88 = 2 TMP\_89 = 0 not(TMP\_89) = 1 TMP\_90 = 0 not(TMP\_90) = 1 TMP\_91 = 1 not(TMP\_91) = 0 TMP\_92 = 1 not(TMP\_92) = 0 TMP\_93 = 1 not(TMP\_93) = 0 TMP\_94 = 2 TMP\_95 = 1 not(TMP\_95) = 0 TMP\_96 = 0 not(TMP\_96) = 1 TMP\_97 = 1 not(TMP\_97) = 0 TMP\_98 = 1 not(TMP\_98) = 0 TMP\_99 = 1 not(TMP\_99) = 0 TMP\_100 = 1 not(TMP\_100) = 0 TMP\_101 = 5 TMP\_102 = 0 not(TMP\_102) = 1 TMP\_103 = 0 not(TMP\_103) = 1 TMP\_104 = 0 TMP\_105 = 1 not(TMP\_105) = 0 TMP\_106 = 1 not(TMP\_106) = 0 TMP\_107 = 2 TMP\_108 = 0 not(TMP\_108) = 1 TMP\_109 = 0 not(TMP\_109) = 1 TMP\_110 = 1 not(TMP\_110) = 0 TMP\_111 = 1 not(TMP\_111) = 0 TMP\_112 = 1 not(TMP\_112) = 0 TMP\_113 = 2 TMP\_114 = 0 not(TMP\_114) = 1 TMP\_115 = 1 not(TMP\_115) = 0 TMP\_116 = 1 not(TMP\_116) = 0 TMP\_117 = 1 not(TMP\_117) = 0 TMP\_118 = 0 not(TMP\_118) = 1 TMP\_119 = 1 not(TMP\_119) = 0 TMP\_120 = 4 TMP\_121 = 0 not(TMP\_121) = 1 TMP\_122 = 0 not(TMP\_122) = 1 TMP\_123 = 0 TMP\_124 = 1 not(TMP\_124) = 0 TMP\_125 = 1 not(TMP\_125) = 0 TMP\_126 = 2 TMP\_127 = 0 not(TMP\_127) = 1 TMP\_128 = 0 not(TMP\_128) = 1 TMP\_129 = 1 not(TMP\_129) = 0 TMP\_130 = 1 not(TMP\_130) = 0 TMP\_131 = 1 not(TMP\_131) = 0 TMP\_132 = 2 TMP\_133 = 1 not(TMP\_133) = 0 TMP\_134 = 1 not(TMP\_134) = 0 TMP\_135 = 1 not(TMP\_135) = 0 TMP\_136 = 1 not(TMP\_136) = 0 TMP\_137 = 0 not(TMP\_137) = 1 TMP\_138 = 1 not(TMP\_138) = 0 TMP\_139 = 5 TMP\_140 = 0 not(TMP\_140) = 1 TMP\_141 = 0 not(TMP\_141) = 1 TMP\_142 = 0 TMP\_143 = 1 not(TMP\_143) = 0 TMP\_144 = 1 not(TMP\_144) = 0 TMP\_145 = 2 TMP\_146 = 0 not(TMP\_146) = 1 TMP\_147 = 0 not(TMP\_147) = 1 TMP\_148 = 1 not(TMP\_148) = 0 TMP\_149 = 1 not(TMP\_149) = 0 TMP\_150 = 1 not(TMP\_150) = 0 TMP\_151 = 2 TMP\_152 = 0 not(TMP\_152) = 1 TMP\_153 = 1 not(TMP\_153) = 0 TMP\_154 = 1 not(TMP\_154) = 0 TMP\_155 = 1 not(TMP\_155) = 0 TMP\_156 = 0 not(TMP\_156) = 1 TMP\_157 = 1 not(TMP\_157) = 0 TMP\_158 = 4 TMP\_159 = 0 not(TMP\_159) = 1 TMP\_160 = 0 not(TMP\_160) = 1 TMP\_161 = 0 TMP\_162 = 1 not(TMP\_162) = 0 TMP\_163 = 1 not(TMP\_163) = 0 TMP\_164 = 2 TMP\_165 = 0 not(TMP\_165) = 1 TMP\_166 = 0 not(TMP\_166) = 1 TMP\_167 = 1 not(TMP\_167) = 0 TMP\_168 = 1 not(TMP\_168) = 0 TMP\_169 = 1 not(TMP\_169) = 0 TMP\_170 = 2 TMP\_171 = 0 not(TMP\_171) = 1 TMP\_172 = 1 not(TMP\_172) = 0 TMP\_173 = 1 not(TMP\_173) = 0 TMP\_174 = 1 not(TMP\_174) = 0 TMP\_175 = 1 not(TMP\_175) = 0 TMP\_176 = 1 not(TMP\_176) = 0 TMP\_177 = 5 TMP\_178 = 0 not(TMP\_178) = 1 TMP\_179 = 0 not(TMP\_179) = 1 TMP\_180 = 0 TMP\_181 = 1 not(TMP\_181) = 0 TMP\_182 = 1 not(TMP\_182) = 0 TMP\_183 = 2 TMP\_184 = 0 not(TMP\_184) = 1 TMP\_185 = 0 not(TMP\_185) = 1 TMP\_186 = 1 not(TMP\_186) = 0 TMP\_187 = 1 not(TMP\_187) = 0 TMP\_188 = 1 not(TMP\_188) = 0 TMP\_189 = 2 TMP\_190 = 1 not(TMP\_190) = 0 TMP\_191 = 1 not(TMP\_191) = 0 TMP\_192 = 1 not(TMP\_192) = 0 TMP\_193 = 1 not(TMP\_193) = 0 TMP\_194 = 0 not(TMP\_194) = 1 TMP\_195 = 1 not(TMP\_195) = 0 TMP\_196 = 5 TMP\_197 = 0 not(TMP\_197) = 1 TMP\_198 = 0 not(TMP\_198) = 1 TMP\_199 = 0 TMP\_200 = 1 not(TMP\_200) = 0 TMP\_201 = 1 not(TMP\_201) = 0 TMP\_202 = 2 TMP\_203 = 0 not(TMP\_203) = 1 TMP\_204 = 0 not(TMP\_204) = 1 TMP\_205 = 1 not(TMP\_205) = 0 TMP\_206 = 1 not(TMP\_206) = 0 TMP\_207 = 1 not(TMP\_207) = 0 TMP\_208 = 2 TMP\_209 = 0 not(TMP\_209) = 1 TMP\_210 = 1 not(TMP\_210) = 0 TMP\_211 = 1 not(TMP\_211) = 0 TMP\_212 = 1 not(TMP\_212) = 0 TMP\_213 = 1 not(TMP\_213) = 0 TMP\_214 = 0 not(TMP\_214) = 1 TMP\_215 = 4 TMP\_216 = 0 not(TMP\_216) = 1 TMP\_217 = 0 not(TMP\_217) = 1 TMP\_218 = 0 TMP\_219 = 1 not(TMP\_219) = 0 TMP\_220 = 1 not(TMP\_220) = 0 TMP\_221 = 2 TMP\_222 = 0 not(TMP\_222) = 1 TMP\_223 = 0 not(TMP\_223) = 1 TMP\_224 = 1 not(TMP\_224) = 0 TMP\_225 = 1 not(TMP\_225) = 0 TMP\_226 = 1 not(TMP\_226) = 0 TMP\_227 = 2 TMP\_228 = 0 not(TMP\_228) = 1 TMP\_229 = 1 not(TMP\_229) = 0 TMP\_230 = 1 not(TMP\_230) = 0 TMP\_231 = 1 not(TMP\_231) = 0 TMP\_232 = 1 not(TMP\_232) = 0 TMP\_233 = 0 not(TMP\_233) = 1 TMP\_234 = 4 TMP\_235 = 0 not(TMP\_235) = 1 TMP\_236 = 0 not(TMP\_236) = 1 TMP\_237 = 0 TMP\_238 = 1 not(TMP\_238) = 0 TMP\_239 = 1 not(TMP\_239) = 0 TMP\_240 = 2 TMP\_241 = 0 not(TMP\_241) = 1 TMP\_242 = 0 not(TMP\_242) = 1 TMP\_243 = 1 not(TMP\_243) = 0 TMP\_244 = 1 not(TMP\_244) = 0 TMP\_245 = 1 not(TMP\_245) = 0 TMP\_246 = 2 TMP\_247 = 0 not(TMP\_247) = 1 TMP\_248 = 1 not(TMP\_248) = 0 TMP\_249 = 1 not(TMP\_249) = 0 TMP\_250 = 0 not(TMP\_250) = 1 TMP\_251 = 1 not(TMP\_251) = 0 TMP\_252 = 1 not(TMP\_252) = 0 TMP\_253 = 4 TMP\_254 = 0 not(TMP\_254) = 1 TMP\_255 = 0 not(TMP\_255) = 1 TMP\_256 = 0 TMP\_257 = 1 not(TMP\_257) = 0 TMP\_258 = 1 not(TMP\_258) = 0 TMP\_259 = 2 TMP\_260 = 0 not(TMP\_260) = 1 TMP\_261 = 0 not(TMP\_261) = 1 TMP\_262 = 1 not(TMP\_262) = 0 TMP\_263 = 1 not(TMP\_263) = 0 TMP\_264 = 1 not(TMP\_264) = 0 TMP\_265 = 2 TMP\_266 = 0 not(TMP\_266) = 1 TMP\_267 = 1 not(TMP\_267) = 0 TMP\_268 = 1 not(TMP\_268) = 0 TMP\_269 = 1 not(TMP\_269) = 0 TMP\_270 = 1 not(TMP\_270) = 0 TMP\_271 = 1 not(TMP\_271) = 0 TMP\_272 = 5 TMP\_273 = 0 not(TMP\_273) = 1 TMP\_274 = 0 not(TMP\_274) = 1 TMP\_275 = 0 TMP\_276 = 1 not(TMP\_276) = 0 TMP\_277 = 1 not(TMP\_277) = 0 TMP\_278 = 2 TMP\_279 = 0 not(TMP\_279) = 1 TMP\_280 = 0 not(TMP\_280) = 1 TMP\_281 = 1 not(TMP\_281) = 0 TMP\_282 = 1 not(TMP\_282) = 0 TMP\_283 = 1 not(TMP\_283) = 0 TMP\_284 = 2 TMP\_285 = 1 not(TMP\_285) = 0 TMP\_286 = 0 not(TMP\_286) = 1 TMP\_287 = 1 not(TMP\_287) = 0 TMP\_288 = 1 not(TMP\_288) = 0 TMP\_289 = 1 not(TMP\_289) = 0 TMP\_290 = 1 not(TMP\_290) = 0 TMP\_291 = 5 TMP\_292 = 0 not(TMP\_292) = 1 TMP\_293 = 0 not(TMP\_293) = 1 TMP\_294 = 0 TMP\_295 = 1 not(TMP\_295) = 0 TMP\_296 = 1 not(TMP\_296) = 0 TMP\_297 = 2 TMP\_298 = 0 not(TMP\_298) = 1 TMP\_299 = 0 not(TMP\_299) = 1 TMP\_300 = 1 not(TMP\_300) = 0 TMP\_301 = 1 not(TMP\_301) = 0 TMP\_302 = 1 not(TMP\_302) = 0 TMP\_303 = 2 TMP\_304 = 1 not(TMP\_304) = 0 TMP\_305 = 0 not(TMP\_305) = 1 TMP\_306 = 1 not(TMP\_306) = 0 TMP\_307 = 1 not(TMP\_307) = 0 TMP\_308 = 1 not(TMP\_308) = 0 TMP\_309 = 0 not(TMP\_309) = 1 TMP\_310 = 4 TMP\_311 = 0 not(TMP\_311) = 1 TMP\_312 = 0 not(TMP\_312) = 1 TMP\_313 = 0 TMP\_314 = 1 not(TMP\_314) = 0 TMP\_315 = 1 not(TMP\_315) = 0 TMP\_316 = 2 TMP\_317 = 0 not(TMP\_317) = 1 TMP\_318 = 0 not(TMP\_318) = 1 TMP\_319 = 1 not(TMP\_319) = 0 TMP\_320 = 1 not(TMP\_320) = 0 TMP\_321 = 1 not(TMP\_321) = 0 TMP\_322 = 2 TMP\_323 = 0 not(TMP\_323) = 1 TMP\_324 = 1 not(TMP\_324) = 0 TMP\_325 = 1 not(TMP\_325) = 0 TMP\_326 = 1 not(TMP\_326) = 0 TMP\_327 = 1 not(TMP\_327) = 0 TMP\_328 = 1 not(TMP\_328) = 0 TMP\_329 = 5 TMP\_330 = 0 not(TMP\_330) = 1 TMP\_331 = 0 not(TMP\_331) = 1 TMP\_332 = 0 TMP\_333 = 1 not(TMP\_333) = 0 TMP\_334 = 1 not(TMP\_334) = 0 TMP\_335 = 2 TMP\_336 = 0 not(TMP\_336) = 1 TMP\_337 = 0 not(TMP\_337) = 1 TMP\_338 = 1 not(TMP\_338) = 0 TMP\_339 = 1 not(TMP\_339) = 0 TMP\_340 = 1 not(TMP\_340) = 0 TMP\_341 = 2 TMP\_342 = 1 not(TMP\_342) = 0 TMP\_343 = 1 not(TMP\_343) = 0 TMP\_344 = 1 not(TMP\_344) = 0 TMP\_345 = 1 not(TMP\_345) = 0 TMP\_346 = 1 not(TMP\_346) = 0 TMP\_347 = 0 not(TMP\_347) = 1 TMP\_348 = 5 TMP\_349 = 0 not(TMP\_349) = 1 TMP\_350 = 0 not(TMP\_350) = 1 TMP\_351 = 0 TMP\_352 = 1 not(TMP\_352) = 0 TMP\_353 = 1 not(TMP\_353) = 0 TMP\_354 = 2 TMP\_355 = 0 not(TMP\_355) = 1 TMP\_356 = 0 not(TMP\_356) = 1 TMP\_357 = 1 not(TMP\_357) = 0 TMP\_358 = 1 not(TMP\_358) = 0 TMP\_359 = 1 not(TMP\_359) = 0 TMP\_360 = 2 TMP\_361 = 0 not(TMP\_361) = 1 TMP\_362 = 1 not(TMP\_362) = 0 TMP\_363 = 1 not(TMP\_363) = 0 TMP\_364 = 1 not(TMP\_364) = 0 TMP\_365 = 1 not(TMP\_365) = 0 TMP\_366 = 1 not(TMP\_366) = 0 TMP\_367 = 5 TMP\_368 = 0 not(TMP\_368) = 1 TMP\_369 = 0 not(TMP\_369) = 1 TMP\_370 = 0 TMP\_371 = 1 not(TMP\_371) = 0 TMP\_372 = 1 not(TMP\_372) = 0 TMP\_373 = 2 TMP\_374 = 0 not(TMP\_374) = 1 TMP\_375 = 0 not(TMP\_375) = 1 TMP\_376 = 1 not(TMP\_376) = 0 TMP\_377 = 1 not(TMP\_377) = 0 TMP\_378 = 1 not(TMP\_378) = 0 TMP\_379 = 2 TMP\_380 = 0 not(TMP\_380) = 1 TMP\_381 = 1 not(TMP\_381) = 0 TMP\_382 = 1 not(TMP\_382) = 0 TMP\_383 = 1 not(TMP\_383) = 0 TMP\_384 = 1 not(TMP\_384) = 0 TMP\_385 = 0 not(TMP\_385) = 1 TMP\_386 = 4 TMP\_387 = 0 not(TMP\_387) = 1 TMP\_388 = 0 not(TMP\_388) = 1 TMP\_389 = 0 TMP\_390 = 1 not(TMP\_390) = 0 TMP\_391 = 1 not(TMP\_391) = 0 TMP\_392 = 2 TMP\_393 = 0 not(TMP\_393) = 1 TMP\_394 = 0 not(TMP\_394) = 1 TMP\_395 = 1 not(TMP\_395) = 0 TMP\_396 = 1 not(TMP\_396) = 0 TMP\_397 = 1 not(TMP\_397) = 0 TMP\_398 = 2 TMP\_399 = 1 not(TMP\_399) = 0 TMP\_400 = 1 not(TMP\_400) = 0 TMP\_401 = 1 not(TMP\_401) = 0 TMP\_402 = 0 not(TMP\_402) = 1 TMP\_403 = 1 not(TMP\_403) = 0 TMP\_404 = 1 not(TMP\_404) = 0 TMP\_405 = 5 TMP\_406 = 0 not(TMP\_406) = 1 TMP\_407 = 0 not(TMP\_407) = 1 TMP\_408 = 0 TMP\_409 = 1 not(TMP\_409) = 0 TMP\_410 = 1 not(TMP\_410) = 0 TMP\_411 = 2 TMP\_412 = 0 not(TMP\_412) = 1 TMP\_413 = 0 not(TMP\_413) = 1 TMP\_414 = 1 not(TMP\_414) = 0 TMP\_415 = 1 not(TMP\_415) = 0 TMP\_416 = 1 not(TMP\_416) = 0 TMP\_417 = 2 TMP\_418 = 0 not(TMP\_418) = 1 TMP\_419 = 1 not(TMP\_419) = 0 TMP\_420 = 1 not(TMP\_420) = 0 TMP\_421 = 1 not(TMP\_421) = 0 TMP\_422 = 1 not(TMP\_422) = 0 TMP\_423 = 0 not(TMP\_423) = 1 TMP\_424 = 4 TMP\_425 = 0 not(TMP\_425) = 1 TMP\_426 = 0 not(TMP\_426) = 1 TMP\_427 = 0 TMP\_428 = 1 not(TMP\_428) = 0 TMP\_429 = 1 not(TMP\_429) = 0 TMP\_430 = 2 TMP\_431 = 0 not(TMP\_431) = 1 TMP\_432 = 0 not(TMP\_432) = 1 TMP\_433 = 1 not(TMP\_433) = 0 TMP\_434 = 1 not(TMP\_434) = 0 TMP\_435 = 1 not(TMP\_435) = 0 TMP\_436 = 2 TMP\_437 = 1 not(TMP\_437) = 0 TMP\_438 = 0 not(TMP\_438) = 1 TMP\_439 = 1 not(TMP\_439) = 0 TMP\_440 = 1 not(TMP\_440) = 0 TMP\_441 = 1 not(TMP\_441) = 0 TMP\_442 = 0 not(TMP\_442) = 1 TMP\_443 = 4 TMP\_444 = 0 not(TMP\_444) = 1 TMP\_445 = 0 not(TMP\_445) = 1 TMP\_446 = 0 TMP\_447 = 1 not(TMP\_447) = 0 TMP\_448 = 1 not(TMP\_448) = 0 TMP\_449 = 2 TMP\_450 = 0 not(TMP\_450) = 1 TMP\_451 = 0 not(TMP\_451) = 1 TMP\_452 = 1 not(TMP\_452) = 0 TMP\_453 = 1 not(TMP\_453) = 0 TMP\_454 = 1 not(TMP\_454) = 0 TMP\_455 = 2 TMP\_456 = 1 not(TMP\_456) = 0 TMP\_457 = 0 not(TMP\_457) = 1 TMP\_458 = 1 not(TMP\_458) = 0 TMP\_459 = 1 not(TMP\_459) = 0 TMP\_460 = 1 not(TMP\_460) = 0 TMP\_461 = 1 not(TMP\_461) = 0 TMP\_462 = 5 TMP\_463 = 0 not(TMP\_463) = 1 TMP\_464 = 0 not(TMP\_464) = 1 TMP\_465 = 0 TMP\_466 = 1 not(TMP\_466) = 0 TMP\_467 = 1 not(TMP\_467) = 0 TMP\_468 = 2 TMP\_469 = 0 not(TMP\_469) = 1 TMP\_470 = 0 not(TMP\_470) = 1 TMP\_471 = 1 not(TMP\_471) = 0 TMP\_472 = 1 not(TMP\_472) = 0 TMP\_473 = 1 not(TMP\_473) = 0 TMP\_474 = 2 TMP\_475 = 1 not(TMP\_475) = 0 TMP\_476 = 0 not(TMP\_476) = 1 TMP\_477 = 1 not(TMP\_477) = 0 TMP\_478 = 1 not(TMP\_478) = 0 TMP\_479 = 1 not(TMP\_479) = 0 TMP\_480 = 1 not(TMP\_480) = 0 TMP\_481 = 5 TMP\_482 = 0 not(TMP\_482) = 1 TMP\_483 = 0 not(TMP\_483) = 1 TMP\_484 = 0 TMP\_485 = 1 not(TMP\_485) = 0 TMP\_486 = 1 not(TMP\_486) = 0 TMP\_487 = 2 TMP\_488 = 0 not(TMP\_488) = 1 TMP\_489 = 0 not(TMP\_489) = 1 TMP\_490 = 1 not(TMP\_490) = 0 TMP\_491 = 1 not(TMP\_491) = 0 TMP\_492 = 1 not(TMP\_492) = 0 TMP\_493 = 2 TMP\_494 = 1 not(TMP\_494) = 0 TMP\_495 = 0 not(TMP\_495) = 1 TMP\_496 = 1 not(TMP\_496) = 0 TMP\_497 = 1 not(TMP\_497) = 0 TMP\_498 = 1 not(TMP\_498) = 0 TMP\_499 = 1 not(TMP\_499) = 0 TMP\_500 = 5 TMP\_501 = 0 not(TMP\_501) = 1 TMP\_502 = 0 not(TMP\_502) = 1 TMP\_503 = 0 TMP\_504 = 1 not(TMP\_504) = 0 TMP\_505 = 1 not(TMP\_505) = 0 TMP\_506 = 2 TMP\_507 = 0 not(TMP\_507) = 1 TMP\_508 = 0 not(TMP\_508) = 1 TMP\_509 = 1 not(TMP\_509) = 0 TMP\_510 = 1 not(TMP\_510) = 0 TMP\_511 = 1 not(TMP\_511) = 0 TMP\_512 = 2 TMP\_513 = 1 not(TMP\_513) = 0 TMP\_514 = 0 not(TMP\_514) = 1 TMP\_515 = 1 not(TMP\_515) = 0 TMP\_516 = 1 not(TMP\_516) = 0 TMP\_517 = 1 not(TMP\_517) = 0 TMP\_518 = 0 not(TMP\_518) = 1 TMP\_519 = 4 TMP\_520 = 0 not(TMP\_520) = 1 TMP\_521 = 0 not(TMP\_521) = 1 TMP\_522 = 0 TMP\_523 = 1 not(TMP\_523) = 0 TMP\_524 = 1 not(TMP\_524) = 0 TMP\_525 = 2 TMP\_526 = 0 not(TMP\_526) = 1 TMP\_527 = 0 not(TMP\_527) = 1 TMP\_528 = 1 not(TMP\_528) = 0 TMP\_529 = 1 not(TMP\_529) = 0 TMP\_530 = 1 not(TMP\_530) = 0 TMP\_531 = 2 TMP\_532 = 0 not(TMP\_532) = 1 TMP\_533 = 1 not(TMP\_533) = 0 TMP\_534 = 1 not(TMP\_534) = 0 TMP\_535 = 1 not(TMP\_535) = 0 TMP\_536 = 1 not(TMP\_536) = 0 TMP\_537 = 1 not(TMP\_537) = 0 TMP\_538 = 5 TMP\_539 = 0 not(TMP\_539) = 1 TMP\_540 = 0 not(TMP\_540) = 1 TMP\_541 = 0 TMP\_542 = 1 not(TMP\_542) = 0 TMP\_543 = 1 not(TMP\_543) = 0 TMP\_544 = 2 TMP\_545 = 0 not(TMP\_545) = 1 TMP\_546 = 0 not(TMP\_546) = 1 TMP\_547 = 1 not(TMP\_547) = 0 TMP\_548 = 1 not(TMP\_548) = 0 TMP\_549 = 1 not(TMP\_549) = 0 TMP\_550 = 2 TMP\_551 = 1 not(TMP\_551) = 0 TMP\_552 = 0 not(TMP\_552) = 1 TMP\_553 = 1 not(TMP\_553) = 0 TMP\_554 = 1 not(TMP\_554) = 0 TMP\_555 = 1 not(TMP\_555) = 0 TMP\_556 = 0 not(TMP\_556) = 1 TMP\_557 = 4 TMP\_558 = 0 not(TMP\_558) = 1 TMP\_559 = 0 not(TMP\_559) = 1 TMP\_560 = 0 TMP\_561 = 1 not(TMP\_561) = 0 TMP\_562 = 1 not(TMP\_562) = 0 TMP\_563 = 2 TMP\_564 = 0 not(TMP\_564) = 1 TMP\_565 = 0 not(TMP\_565) = 1 TMP\_566 = 1 not(TMP\_566) = 0 TMP\_567 = 1 not(TMP\_567) = 0 TMP\_568 = 1 not(TMP\_568) = 0 TMP\_569 = 2 TMP\_570 = 1 not(TMP\_570) = 0 TMP\_571 = 0 not(TMP\_571) = 1 TMP\_572 = 1 not(TMP\_572) = 0 TMP\_573 = 1 not(TMP\_573) = 0 TMP\_574 = 1 not(TMP\_574) = 0 TMP\_575 = 1 not(TMP\_575) = 0 TMP\_576 = 5 TMP\_577 = 0 not(TMP\_577) = 1 TMP\_578 = 0 not(TMP\_578) = 1 TMP\_579 = 0 TMP\_580 = 1 not(TMP\_580) = 0 TMP\_581 = 1 not(TMP\_581) = 0 TMP\_582 = 2 TMP\_583 = 0 not(TMP\_583) = 1 TMP\_584 = 0 not(TMP\_584) = 1 TMP\_585 = 1 not(TMP\_585) = 0 TMP\_586 = 1 not(TMP\_586) = 0 TMP\_587 = 1 not(TMP\_587) = 0 TMP\_588 = 2 TMP\_589 = 1 not(TMP\_589) = 0 TMP\_590 = 1 not(TMP\_590) = 0 TMP\_591 = 1 not(TMP\_591) = 0 TMP\_592 = 1 not(TMP\_592) = 0 TMP\_593 = 1 not(TMP\_593) = 0 TMP\_594 = 0 not(TMP\_594) = 1 TMP\_595 = 5 TMP\_596 = 0 not(TMP\_596) = 1 TMP\_597 = 0 not(TMP\_597) = 1 TMP\_598 = 0 TMP\_599 = 1 not(TMP\_599) = 0 TMP\_600 = 1 not(TMP\_600) = 0 TMP\_601 = 2 TMP\_602 = 0 not(TMP\_602) = 1 TMP\_603 = 0 not(TMP\_603) = 1 TMP\_604 = 1 not(TMP\_604) = 0 TMP\_605 = 1 not(TMP\_605) = 0 TMP\_606 = 1 not(TMP\_606) = 0 TMP\_607 = 2 TMP\_608 = 1 not(TMP\_608) = 0 TMP\_609 = 0 not(TMP\_609) = 1 TMP\_610 = 1 not(TMP\_610) = 0 TMP\_611 = 1 not(TMP\_611) = 0 TMP\_612 = 1 not(TMP\_612) = 0 TMP\_613 = 1 not(TMP\_613) = 0 TMP\_614 = 5 TMP\_615 = 0 not(TMP\_615) = 1 TMP\_616 = 0 not(TMP\_616) = 1 TMP\_617 = 0 TMP\_618 = 1 not(TMP\_618) = 0 TMP\_619 = 1 not(TMP\_619) = 0 TMP\_620 = 2 TMP\_621 = 0 not(TMP\_621) = 1 TMP\_622 = 0 not(TMP\_622) = 1 TMP\_623 = 1 not(TMP\_623) = 0 TMP\_624 = 1 not(TMP\_624) = 0 TMP\_625 = 1 not(TMP\_625) = 0 TMP\_626 = 2 TMP\_627 = 0 not(TMP\_627) = 1 TMP\_628 = 1 not(TMP\_628) = 0 TMP\_629 = 1 not(TMP\_629) = 0 TMP\_630 = 1 not(TMP\_630) = 0 TMP\_631 = 1 not(TMP\_631) = 0 TMP\_632 = 1 not(TMP\_632) = 0 TMP\_633 = 5 TMP\_634 = 0 not(TMP\_634) = 1 TMP\_635 = 0 not(TMP\_635) = 1 TMP\_636 = 0 TMP\_637 = 1 not(TMP\_637) = 0 TMP\_638 = 1 not(TMP\_638) = 0 TMP\_639 = 2 TMP\_640 = 0 not(TMP\_640) = 1 TMP\_641 = 0 not(TMP\_641) = 1 TMP\_642 = 1 not(TMP\_642) = 0 TMP\_643 = 1 not(TMP\_643) = 0 TMP\_644 = 1 not(TMP\_644) = 0 TMP\_645 = 2 TMP\_646 = 1 not(TMP\_646) = 0 TMP\_647 = 0 not(TMP\_647) = 1 TMP\_648 = 1 not(TMP\_648) = 0 TMP\_649 = 1 not(TMP\_649) = 0 TMP\_650 = 1 not(TMP\_650) = 0 TMP\_651 = 1 not(TMP\_651) = 0 TMP\_652 = 5 TMP\_653 = 0 not(TMP\_653) = 1 TMP\_654 = 0 not(TMP\_654) = 1 TMP\_655 = 0 TMP\_656 = 1 not(TMP\_656) = 0 TMP\_657 = 1 not(TMP\_657) = 0 TMP\_658 = 2 TMP\_659 = 0 not(TMP\_659) = 1 TMP\_660 = 0 not(TMP\_660) = 1 TMP\_661 = 1 not(TMP\_661) = 0 TMP\_662 = 1 not(TMP\_662) = 0 TMP\_663 = 1 not(TMP\_663) = 0 TMP\_664 = 2 TMP\_665 = 1 not(TMP\_665) = 0 TMP\_666 = 0 not(TMP\_666) = 1 TMP\_667 = 1 not(TMP\_667) = 0 TMP\_668 = 1 not(TMP\_668) = 0 TMP\_669 = 0 not(TMP\_669) = 1 TMP\_670 = 1 not(TMP\_670) = 0 TMP\_671 = 4 TMP\_672 = 0 not(TMP\_672) = 1 TMP\_673 = 0 not(TMP\_673) = 1 TMP\_674 = 0 TMP\_675 = 1 not(TMP\_675) = 0 TMP\_676 = 1 not(TMP\_676) = 0 TMP\_677 = 2 TMP\_678 = 0 not(TMP\_678) = 1 TMP\_679 = 0 not(TMP\_679) = 1 TMP\_680 = 1 not(TMP\_680) = 0 TMP\_681 = 1 not(TMP\_681) = 0 TMP\_682 = 1 not(TMP\_682) = 0 TMP\_683 = 2 TMP\_684 = 1 not(TMP\_684) = 0 TMP\_685 = 0 not(TMP\_685) = 1 TMP\_686 = 1 not(TMP\_686) = 0 TMP\_687 = 1 not(TMP\_687) = 0 TMP\_688 = 0 not(TMP\_688) = 1 TMP\_689 = 1 not(TMP\_689) = 0 TMP\_690 = 4 TMP\_691 = 0 not(TMP\_691) = 1 TMP\_692 = 0 not(TMP\_692) = 1 TMP\_693 = 0 TMP\_694 = 1 not(TMP\_694) = 0 TMP\_695 = 1 not(TMP\_695) = 0 TMP\_696 = 2 TMP\_697 = 0 not(TMP\_697) = 1 TMP\_698 = 0 not(TMP\_698) = 1 TMP\_699 = 1 not(TMP\_699) = 0 TMP\_700 = 1 not(TMP\_700) = 0 TMP\_701 = 1 not(TMP\_701) = 0 TMP\_702 = 2 TMP\_703 = 1 not(TMP\_703) = 0 TMP\_704 = 0 not(TMP\_704) = 1 TMP\_705 = 1 not(TMP\_705) = 0 TMP\_706 = 1 not(TMP\_706) = 0 TMP\_707 = 0 not(TMP\_707) = 1 TMP\_708 = 1 not(TMP\_708) = 0 TMP\_709 = 4 TMP\_710 = 0 not(TMP\_710) = 1 TMP\_711 = 0 not(TMP\_711) = 1 TMP\_712 = 0 TMP\_713 = 1 not(TMP\_713) = 0 TMP\_714 = 1 not(TMP\_714) = 0 TMP\_715 = 2 TMP\_716 = 0 not(TMP\_716) = 1 TMP\_717 = 0 not(TMP\_717) = 1 TMP\_718 = 1 not(TMP\_718) = 0 TMP\_719 = 1 not(TMP\_719) = 0 TMP\_720 = 1 not(TMP\_720) = 0 TMP\_721 = 2 TMP\_722 = 1 not(TMP\_722) = 0 TMP\_723 = 0 not(TMP\_723) = 1 TMP\_724 = 1 not(TMP\_724) = 0 TMP\_725 = 1 not(TMP\_725) = 0 TMP\_726 = 1 not(TMP\_726) = 0 TMP\_727 = 1 not(TMP\_727) = 0 TMP\_728 = 5 TMP\_729 = 0 not(TMP\_729) = 1 TMP\_730 = 0 not(TMP\_730) = 1 TMP\_731 = 0 TMP\_732 = 1 not(TMP\_732) = 0 TMP\_733 = 1 not(TMP\_733) = 0 TMP\_734 = 2 TMP\_735 = 0 not(TMP\_735) = 1 TMP\_736 = 0 not(TMP\_736) = 1 TMP\_737 = 1 not(TMP\_737) = 0 TMP\_738 = 1 not(TMP\_738) = 0 TMP\_739 = 1 not(TMP\_739) = 0 TMP\_740 = 2 TMP\_741 = 0 not(TMP\_741) = 1 TMP\_742 = 1 not(TMP\_742) = 0 TMP\_743 = 1 not(TMP\_743) = 0 TMP\_744 = 1 not(TMP\_744) = 0 TMP\_745 = 0 not(TMP\_745) = 1 TMP\_746 = 1 not(TMP\_746) = 0 TMP\_747 = 4 TMP\_748 = 0 not(TMP\_748) = 1 TMP\_749 = 0 not(TMP\_749) = 1 TMP\_750 = 0 TMP\_751 = 1 not(TMP\_751) = 0 TMP\_752 = 1 not(TMP\_752) = 0 TMP\_753 = 2 TMP\_754 = 0 not(TMP\_754) = 1 TMP\_755 = 0 not(TMP\_755) = 1 TMP\_756 = 1 not(TMP\_756) = 0 TMP\_757 = 1 not(TMP\_757) = 0 TMP\_758 = 1 not(TMP\_758) = 0 TMP\_759 = 2 TMP\_760 = 1 not(TMP\_760) = 0 TMP\_761 = 0 not(TMP\_761) = 1 TMP\_762 = 1 not(TMP\_762) = 0 TMP\_763 = 1 not(TMP\_763) = 0 TMP\_764 = 1 not(TMP\_764) = 0 TMP\_765 = 1 not(TMP\_765) = 0 TMP\_766 = 5 TMP\_767 = 0 not(TMP\_767) = 1 TMP\_768 = 0 not(TMP\_768) = 1 TMP\_769 = 0 TMP\_770 = 1 not(TMP\_770) = 0 TMP\_771 = 1 not(TMP\_771) = 0 TMP\_772 = 2 TMP\_773 = 0 not(TMP\_773) = 1 TMP\_774 = 0 not(TMP\_774) = 1 TMP\_775 = 1 not(TMP\_775) = 0 TMP\_776 = 1 not(TMP\_776) = 0 TMP\_777 = 1 not(TMP\_777) = 0 TMP\_778 = 2 TMP\_779 = 1 not(TMP\_779) = 0 TMP\_780 = 0 not(TMP\_780) = 1 TMP\_781 = 1 not(TMP\_781) = 0 TMP\_782 = 1 not(TMP\_782) = 0 TMP\_783 = 0 not(TMP\_783) = 1 TMP\_784 = 1 not(TMP\_784) = 0 TMP\_785 = 4 TMP\_786 = 0 not(TMP\_786) = 1 TMP\_787 = 0 not(TMP\_787) = 1 TMP\_788 = 0 TMP\_789 = 1 not(TMP\_789) = 0 TMP\_790 = 1 not(TMP\_790) = 0 TMP\_791 = 2 TMP\_792 = 0 not(TMP\_792) = 1 TMP\_793 = 0 not(TMP\_793) = 1 TMP\_794 = 1 not(TMP\_794) = 0 TMP\_795 = 1 not(TMP\_795) = 0 TMP\_796 = 1 not(TMP\_796) = 0 TMP\_797 = 2 TMP\_798 = 1 not(TMP\_798) = 0 TMP\_799 = 1 not(TMP\_799) = 0 TMP\_800 = 1 not(TMP\_800) = 0 TMP\_801 = 1 not(TMP\_801) = 0 TMP\_802 = 0 not(TMP\_802) = 1 TMP\_803 = 1 not(TMP\_803) = 0 TMP\_804 = 5 TMP\_805 = 0 not(TMP\_805) = 1 TMP\_806 = 0 not(TMP\_806) = 1 TMP\_807 = 0 TMP\_808 = 1 not(TMP\_808) = 0 TMP\_809 = 1 not(TMP\_809) = 0 TMP\_810 = 2 TMP\_811 = 0 not(TMP\_811) = 1 TMP\_812 = 0 not(TMP\_812) = 1 TMP\_813 = 1 not(TMP\_813) = 0 TMP\_814 = 1 not(TMP\_814) = 0 TMP\_815 = 1 not(TMP\_815) = 0 TMP\_816 = 2 TMP\_817 = 1 not(TMP\_817) = 0 TMP\_818 = 0 not(TMP\_818) = 1 TMP\_819 = 1 not(TMP\_819) = 0 TMP\_820 = 1 not(TMP\_820) = 0 TMP\_821 = 0 not(TMP\_821) = 1 TMP\_822 = 1 not(TMP\_822) = 0 TMP\_823 = 4 TMP\_824 = 0 not(TMP\_824) = 1 TMP\_825 = 0 not(TMP\_825) = 1 TMP\_826 = 0 TMP\_827 = 1 not(TMP\_827) = 0 TMP\_828 = 1 not(TMP\_828) = 0 TMP\_829 = 2 TMP\_830 = 0 not(TMP\_830) = 1 TMP\_831 = 0 not(TMP\_831) = 1 TMP\_832 = 1 not(TMP\_832) = 0 TMP\_833 = 1 not(TMP\_833) = 0 TMP\_834 = 1 not(TMP\_834) = 0 TMP\_835 = 2 TMP\_836 = 0 not(TMP\_836) = 1 TMP\_837 = 1 not(TMP\_837) = 0 TMP\_838 = 1 not(TMP\_838) = 0 TMP\_839 = 1 not(TMP\_839) = 0 TMP\_840 = 1 not(TMP\_840) = 0 TMP\_841 = 0 not(TMP\_841) = 1 TMP\_842 = 4 TMP\_843 = 0 not(TMP\_843) = 1 TMP\_844 = 0 not(TMP\_844) = 1 TMP\_845 = 0 TMP\_846 = 1 not(TMP\_846) = 0 TMP\_847 = 1 not(TMP\_847) = 0 TMP\_848 = 2 TMP\_849 = 0 not(TMP\_849) = 1 TMP\_850 = 0 not(TMP\_850) = 1 TMP\_851 = 1 not(TMP\_851) = 0 TMP\_852 = 1 not(TMP\_852) = 0 TMP\_853 = 1 not(TMP\_853) = 0 TMP\_854 = 2 TMP\_855 = 0 not(TMP\_855) = 1 TMP\_856 = 1 not(TMP\_856) = 0 TMP\_857 = 1 not(TMP\_857) = 0 TMP\_858 = 1 not(TMP\_858) = 0 TMP\_859 = 1 not(TMP\_859) = 0 TMP\_860 = 0 not(TMP\_860) = 1 TMP\_861 = 4 TMP\_862 = 0 not(TMP\_862) = 1 TMP\_863 = 0 not(TMP\_863) = 1 TMP\_864 = 0 TMP\_865 = 1 not(TMP\_865) = 0 TMP\_866 = 1 not(TMP\_866) = 0 TMP\_867 = 2 TMP\_868 = 0 not(TMP\_868) = 1 TMP\_869 = 0 not(TMP\_869) = 1 TMP\_870 = 1 not(TMP\_870) = 0 TMP\_871 = 1 not(TMP\_871) = 0 TMP\_872 = 1 not(TMP\_872) = 0 TMP\_873 = 2 TMP\_874 = 0 not(TMP\_874) = 1 TMP\_875 = 1 not(TMP\_875) = 0 TMP\_876 = 1 not(TMP\_876) = 0 TMP\_877 = 1 not(TMP\_877) = 0 TMP\_878 = 1 not(TMP\_878) = 0 TMP\_879 = 1 not(TMP\_879) = 0 TMP\_880 = 5 TMP\_881 = 0 not(TMP\_881) = 1 TMP\_882 = 0 not(TMP\_882) = 1 TMP\_883 = 0 TMP\_884 = 1 not(TMP\_884) = 0 TMP\_885 = 1 not(TMP\_885) = 0 TMP\_886 = 2 TMP\_887 = 0 not(TMP\_887) = 1 TMP\_888 = 0 not(TMP\_888) = 1 TMP\_889 = 1 not(TMP\_889) = 0 TMP\_890 = 1 not(TMP\_890) = 0 TMP\_891 = 1 not(TMP\_891) = 0 TMP\_892 = 2 TMP\_893 = 0 not(TMP\_893) = 1 TMP\_894 = 1 not(TMP\_894) = 0 TMP\_895 = 0 not(TMP\_895) = 1 TMP\_896 = 1 not(TMP\_896) = 0 TMP\_897 = 1 not(TMP\_897) = 0 TMP\_898 = 1 not(TMP\_898) = 0 TMP\_899 = 4 TMP\_900 = 0 not(TMP\_900) = 1 TMP\_901 = 0 not(TMP\_901) = 1 TMP\_902 = 0 TMP\_903 = 1 not(TMP\_903) = 0 TMP\_904 = 1 not(TMP\_904) = 0 TMP\_905 = 2 TMP\_906 = 0 not(TMP\_906) = 1 TMP\_907 = 0 not(TMP\_907) = 1 TMP\_908 = 1 not(TMP\_908) = 0 TMP\_909 = 1 not(TMP\_909) = 0 TMP\_910 = 1 not(TMP\_910) = 0 TMP\_911 = 2 TMP\_912 = 1 not(TMP\_912) = 0 TMP\_913 = 0 not(TMP\_913) = 1 TMP\_914 = 1 not(TMP\_914) = 0 TMP\_915 = 1 not(TMP\_915) = 0 TMP\_916 = 1 not(TMP\_916) = 0 TMP\_917 = 1 not(TMP\_917) = 0 TMP\_918 = 5 TMP\_919 = 0 not(TMP\_919) = 1 TMP\_920 = 0 not(TMP\_920) = 1 TMP\_921 = 0 TMP\_922 = 1 not(TMP\_922) = 0 TMP\_923 = 1 not(TMP\_923) = 0 TMP\_924 = 2 TMP\_925 = 0 not(TMP\_925) = 1 TMP\_926 = 0 not(TMP\_926) = 1 TMP\_927 = 1 not(TMP\_927) = 0 TMP\_928 = 1 not(TMP\_928) = 0 TMP\_929 = 1 not(TMP\_929) = 0 TMP\_930 = 2 TMP\_931 = 1 not(TMP\_931) = 0 TMP\_932 = 0 not(TMP\_932) = 1 TMP\_933 = 1 not(TMP\_933) = 0 TMP\_934 = 1 not(TMP\_934) = 0 TMP\_935 = 1 not(TMP\_935) = 0 TMP\_936 = 0 not(TMP\_936) = 1 TMP\_937 = 4 TMP\_938 = 0 not(TMP\_938) = 1 TMP\_939 = 0 not(TMP\_939) = 1 TMP\_940 = 0 TMP\_941 = 1 not(TMP\_941) = 0 TMP\_942 = 1 not(TMP\_942) = 0 TMP\_943 = 2 TMP\_944 = 0 not(TMP\_944) = 1 TMP\_945 = 0 not(TMP\_945) = 1 TMP\_946 = 1 not(TMP\_946) = 0 TMP\_947 = 1 not(TMP\_947) = 0 TMP\_948 = 1 not(TMP\_948) = 0 TMP\_949 = 2 TMP\_950 = 0 not(TMP\_950) = 1 TMP\_951 = 1 not(TMP\_951) = 0 TMP\_952 = 1 not(TMP\_952) = 0 TMP\_953 = 1 not(TMP\_953) = 0 TMP\_954 = 1 not(TMP\_954) = 0 TMP\_955 = 1 not(TMP\_955) = 0 TMP\_956 = 5 TMP\_957 = 0 not(TMP\_957) = 1 TMP\_958 = 0 not(TMP\_958) = 1 TMP\_959 = 0 TMP\_960 = 1 not(TMP\_960) = 0 TMP\_961 = 1 not(TMP\_961) = 0 TMP\_962 = 2 TMP\_963 = 0 not(TMP\_963) = 1 TMP\_964 = 0 not(TMP\_964) = 1 TMP\_965 = 1 not(TMP\_965) = 0 TMP\_966 = 1 not(TMP\_966) = 0 TMP\_967 = 1 not(TMP\_967) = 0 TMP\_968 = 2 TMP\_969 = 1 not(TMP\_969) = 0 TMP\_970 = 1 not(TMP\_970) = 0 TMP\_971 = 1 not(TMP\_971) = 0 TMP\_972 = 1 not(TMP\_972) = 0 TMP\_973 = 1 not(TMP\_973) = 0 TMP\_974 = 0 not(TMP\_974) = 1 TMP\_975 = 5 TMP\_976 = 0 not(TMP\_976) = 1 TMP\_977 = 0 not(TMP\_977) = 1 TMP\_978 = 0 TMP\_979 = 1 not(TMP\_979) = 0 TMP\_980 = 1 not(TMP\_980) = 0 TMP\_981 = 2 TMP\_982 = 0 not(TMP\_982) = 1 TMP\_983 = 0 not(TMP\_983) = 1 TMP\_984 = 1 not(TMP\_984) = 0 TMP\_985 = 1 not(TMP\_985) = 0 TMP\_986 = 1 not(TMP\_986) = 0 TMP\_987 = 2 TMP\_988 = 1 not(TMP\_988) = 0 TMP\_989 = 1 not(TMP\_989) = 0 TMP\_990 = 0 not(TMP\_990) = 1 TMP\_991 = 1 not(TMP\_991) = 0 TMP\_992 = 1 not(TMP\_992) = 0 TMP\_993 = 1 not(TMP\_993) = 0 TMP\_994 = 5 TMP\_995 = 0 not(TMP\_995) = 1 TMP\_996 = 0 not(TMP\_996) = 1 TMP\_997 = 0 TMP\_998 = 1 not(TMP\_998) = 0 TMP\_999 = 1 not(TMP\_999) = 0 TMP\_1000 = 2 TMP\_1001 = 0 not(TMP\_1001) = 1 TMP\_1002 = 0 not(TMP\_1002) = 1 TMP\_1003 = 1 not(TMP\_1003) = 0 TMP\_1004 = 1 not(TMP\_1004) = 0 TMP\_1005 = 1 not(TMP\_1005) = 0 TMP\_1006 = 2 TMP\_1007 = 0 not(TMP\_1007) = 1 TMP\_1008 = 1 not(TMP\_1008) = 0 TMP\_1009 = 1 not(TMP\_1009) = 0 TMP\_1010 = 1 not(TMP\_1010) = 0 TMP\_1011 = 1 not(TMP\_1011) = 0 TMP\_1012 = 1 not(TMP\_1012) = 0 TMP\_1013 = 5 TMP\_1014 = 0 not(TMP\_1014) = 1 TMP\_1015 = 0 not(TMP\_1015) = 1 TMP\_1016 = 0 TMP\_1017 = 1 not(TMP\_1017) = 0 TMP\_1018 = 1 not(TMP\_1018) = 0 TMP\_1019 = 2 TMP\_1020 = 0 not(TMP\_1020) = 1 TMP\_1021 = 0 not(TMP\_1021) = 1 TMP\_1022 = 1 not(TMP\_1022) = 0 TMP\_1023 = 1 not(TMP\_1023) = 0 TMP\_1024 = 1 not(TMP\_1024) = 0 TMP\_1025 = 2 TMP\_1026 = 0 not(TMP\_1026) = 1 TMP\_1027 = 1 not(TMP\_1027) = 0 TMP\_1028 = 1 not(TMP\_1028) = 0 TMP\_1029 = 1 not(TMP\_1029) = 0 TMP\_1030 = 1 not(TMP\_1030) = 0 TMP\_1031 = 0 not(TMP\_1031) = 1 TMP\_1032 = 4 TMP\_1033 = 0 not(TMP\_1033) = 1 TMP\_1034 = 0 not(TMP\_1034) = 1 TMP\_1035 = 0 TMP\_1036 = 1 not(TMP\_1036) = 0 TMP\_1037 = 1 not(TMP\_1037) = 0 TMP\_1038 = 2 TMP\_1039 = 0 not(TMP\_1039) = 1 TMP\_1040 = 0 not(TMP\_1040) = 1 TMP\_1041 = 1 not(TMP\_1041) = 0 TMP\_1042 = 1 not(TMP\_1042) = 0 TMP\_1043 = 1 not(TMP\_1043) = 0 TMP\_1044 = 2 Area\_0 = 60 Distance\_0\_Rule\_0 = 20 Distance\_1\_Rule\_0 = 3 Distance\_2\_Rule\_0 = 1 Area\_1 = 174 Distance\_0\_Rule\_1 = 58 Distance\_1\_Rule\_1 = 3 Distance\_2\_Rule\_1 = 1 Area\_2 = 116 Distance\_0\_Rule\_2 = 58 Distance\_1\_Rule\_2 = 2 Distance\_2\_Rule\_2 = 1 Area\_3 = 58 Distance\_0\_Rule\_3 = 58 Distance\_1\_Rule\_3 = 1 Distance\_2\_Rule\_3 = 1 Area\_4 = 120 Distance\_0\_Rule\_4 = 40 Distance\_1\_Rule\_4 = 3 Distance\_2\_Rule\_4 = 1 Area\_5 = 120 Distance\_0\_Rule\_5 = 40 Distance\_1\_Rule\_5 = 3 Distance\_2\_Rule\_5 = 1 Area\_6 = 60 Distance\_0\_Rule\_6 = 20 Distance\_1\_Rule\_6 = 3 Distance\_2\_Rule\_6 = 1 Area\_7 = 3 -(Rule\_7\_LB) = -79 Distance\_0\_Rule\_7 = 1 -(Rule\_7\_LB) = 0 Distance\_1\_Rule\_7 = 3 -(Rule\_7\_LB) = -1 Distance\_2\_Rule\_7 = 1 Area\_8 = 1 -(Rule\_8\_LB) = -79 Distance\_0\_Rule\_8 = 1 -(Rule\_8\_LB) = 0 Distance\_1\_Rule\_8 = 1 -(Rule\_8\_LB) = 0 Distance\_2\_Rule\_8 = 1 Area\_9 = 3 -(Rule\_9\_LB) = -20 Distance\_0\_Rule\_9 = 1 -(Rule\_9\_LB) = 0 Distance\_1\_Rule\_9 = 3 -(Rule\_9\_LB) = 0 Distance\_2\_Rule\_9 = 1 Area\_10 = 3 -(Rule\_10\_LB) = -20 Distance\_0\_Rule\_10 = 1 -(Rule\_10\_LB) = 0 Distance\_1\_Rule\_10 = 3 -(Rule\_10\_LB) = -1 Distance\_2\_Rule\_10 = 1 Area\_11 = 2 -(Rule\_11\_LB) = -79 Distance\_0\_Rule\_11 = 1 -(Rule\_11\_LB) = -1 Distance\_1\_Rule\_11 = 2 -(Rule\_11\_LB) = 0 Distance\_2\_Rule\_11 = 1 TMP\_1045 = 720 .

- Solution #19 found. 19 Solutions, Resolution 1.421s, 1492 Nodes (1,050.0 n/s), 2834 Backtracks, 1405 Fails, 0 Restarts

Rule\_7\_LB = 79 Rule\_7\_UB = 80 Rule\_7\_LB = 0 Rule\_7\_UB = 3 Rule\_7\_LB = 1 Rule\_7\_UB = 2 Rule\_8\_LB = 79 Rule\_8\_UB = 80 Rule\_8\_LB = 0 Rule\_8\_UB = 1 Rule\_8\_LB = 0 Rule\_8\_UB = 1 Rule\_9\_LB = 20 Rule\_9\_UB = 21 Rule\_9\_LB = 0 Rule\_9\_UB = 3 Rule\_9\_LB = 0 Rule\_9\_UB = 1 Rule\_10\_LB = 20 Rule\_10\_UB = 21 Rule\_10\_LB = 0 Rule\_10\_UB = 3 Rule\_10\_LB = 1 Rule\_10\_UB = 2 Rule\_11\_LB = 79 Rule\_11\_UB = 80 Rule\_11\_LB = 1 Rule\_11\_UB = 3 Rule\_11\_LB = 0 Rule\_11\_UB = 1 Overlaps\_0\_0 = 0 Overlaps\_0\_1 = 0 Overlaps\_0\_2 = 0 Overlaps\_0\_3 = 0 Overlaps\_0\_4 = 0 Overlaps\_0\_5 = 0 Overlaps\_0\_6 = 0 Overlaps\_0\_7 = 0 Overlaps\_0\_8 = 0 Overlaps\_0\_9 = 0 Overlaps\_0\_10 = 0 Overlaps\_0\_11 = 0 Overlaps\_1\_0 = 0 Overlaps\_1\_1 = 0 Overlaps\_1\_2 = 1 Overlaps\_1\_3 = 0 Overlaps\_1\_4 = 0 Overlaps\_1\_5 = 0 Overlaps\_1\_6 = 1 Overlaps\_1\_7 = 0 Overlaps\_1\_8 = 0 Overlaps\_1\_9 = 0 Overlaps\_1\_10 = 0 Overlaps\_1\_11 = 0 Overlaps\_2\_0 = 0 Overlaps\_2\_1 = 0 Overlaps\_2\_2 = 0 Overlaps\_2\_3 = 0 Overlaps\_2\_4 = 0 Overlaps\_2\_5 = 0 Overlaps\_2\_6 = 0 Overlaps\_2\_7 = 0 Overlaps\_2\_8 = 0 Overlaps\_2\_9 = 0 Overlaps\_2\_10 = 0 Overlaps\_2\_11 = 0 Overlaps\_3\_0 = 0 Overlaps\_3\_1 = 0 Overlaps\_3\_2 = 0 Overlaps\_3\_3 = 0 Overlaps\_3\_4 = 0 Overlaps\_3\_5 = 0 Overlaps\_3\_6 = 0 Overlaps\_3\_7 = 0 Overlaps\_3\_8 = 0 Overlaps\_3\_9 = 0 Overlaps\_3\_10 = 0 Overlaps\_3\_11 = 0 Overlaps\_4\_0 = 0 Overlaps\_4\_1 = 0 Overlaps\_4\_2 = 0 Overlaps\_4\_3 = 0 Overlaps\_4\_4 = 0 Overlaps\_4\_5 = 0 Overlaps\_4\_6 = 0 Overlaps\_4\_7 = 0 Overlaps\_4\_8 = 0 Overlaps\_4\_9 = 0 Overlaps\_4\_10 = 0 Overlaps\_4\_11 = 0 Overlaps\_5\_0 = 0 Overlaps\_5\_1 = 0 Overlaps\_5\_2 = 0 Overlaps\_5\_3 = 0 Overlaps\_5\_4 = 0 Overlaps\_5\_5 = 0 Overlaps\_5\_6 = 0 Overlaps\_5\_7 = 0 Overlaps\_5\_8 = 0 Overlaps\_5\_9 = 0 Overlaps\_5\_10 = 0 Overlaps\_5\_11 = 0 Overlaps\_6\_0 = 0 Overlaps\_6\_1 = 0 Overlaps\_6\_2 = 0 Overlaps\_6\_3 = 0 Overlaps\_6\_4 = 0 Overlaps\_6\_5 = 0 Overlaps\_6\_6 = 0 Overlaps\_6\_7 = 0 Overlaps\_6\_8 = 0 Overlaps\_6\_9 = 0 Overlaps\_6\_10 = 0 Overlaps\_6\_11 = 0 Overlaps\_7\_0 = 0 Overlaps\_7\_1 = 0 Overlaps\_7\_2 = 0 Overlaps\_7\_3 = 0 Overlaps\_7\_4 = 0 Overlaps\_7\_5 = 0 Overlaps\_7\_6 = 0 Overlaps\_7\_7 = 0 Overlaps\_7\_8 = 0 Overlaps\_7\_9 = 0 Overlaps\_7\_10 = 0 Overlaps\_7\_11 = 0 Overlaps\_8\_0 = 0 Overlaps\_8\_1 = 0 Overlaps\_8\_2 = 0 Overlaps\_8\_3 = 0 Overlaps\_8\_4 = 0 Overlaps\_8\_5 = 0 Overlaps\_8\_6 = 0 Overlaps\_8\_7 = 0 Overlaps\_8\_8 = 0 Overlaps\_8\_9 = 0 Overlaps\_8\_10 = 0 Overlaps\_8\_11 = 0 Overlaps\_9\_0 = 0 Overlaps\_9\_1 = 0 Overlaps\_9\_2 = 0 Overlaps\_9\_3 = 0 Overlaps\_9\_4 = 0 Overlaps\_9\_5 = 0 Overlaps\_9\_6 = 0 Overlaps\_9\_7 = 0 Overlaps\_9\_8 = 0 Overlaps\_9\_9 = 0 Overlaps\_9\_10 = 0 Overlaps\_9\_11 = 0 Overlaps\_10\_0 = 0 Overlaps\_10\_1 = 0 Overlaps\_10\_2 = 0 Overlaps\_10\_3 = 0 Overlaps\_10\_4 = 0 Overlaps\_10\_5 = 0 Overlaps\_10\_6 = 0 Overlaps\_10\_7 = 0 Overlaps\_10\_8 = 0 Overlaps\_10\_9 = 0 Overlaps\_10\_10 = 0 Overlaps\_10\_11 = 0 Overlaps\_11\_0 = 0 Overlaps\_11\_1 = 0 Overlaps\_11\_2 = 0 Overlaps\_11\_3 = 0 Overlaps\_11\_4 = 0 Overlaps\_11\_5 = 0 Overlaps\_11\_6 = 0 Overlaps\_11\_7 = 0 Overlaps\_11\_8 = 0 Overlaps\_11\_9 = 0 Overlaps\_11\_10 = 0 Overlaps\_11\_11 = 0 TMP\_0 = 0 not(TMP\_0) = 1 TMP\_1 = 1 not(TMP\_1) = 0 TMP\_2 = 1 not(TMP\_2) = 0 TMP\_3 = 1 not(TMP\_3) = 0 TMP\_4 = 1 not(TMP\_4) = 0 TMP\_5 = 1 not(TMP\_5) = 0 TMP\_6 = 5 TMP\_7 = 0 not(TMP\_7) = 1 TMP\_8 = 0 not(TMP\_8) = 1 TMP\_9 = 0 TMP\_10 = 1 not(TMP\_10) = 0 TMP\_11 = 1 not(TMP\_11) = 0 TMP\_12 = 2 TMP\_13 = 0 not(TMP\_13) = 1 TMP\_14 = 0 not(TMP\_14) = 1 TMP\_15 = 1 not(TMP\_15) = 0 TMP\_16 = 1 not(TMP\_16) = 0 TMP\_17 = 1 not(TMP\_17) = 0 TMP\_18 = 2 TMP\_19 = 0 not(TMP\_19) = 1 TMP\_20 = 1 not(TMP\_20) = 0 TMP\_21 = 1 not(TMP\_21) = 0 TMP\_22 = 1 not(TMP\_22) = 0 TMP\_23 = 1 not(TMP\_23) = 0 TMP\_24 = 1 not(TMP\_24) = 0 TMP\_25 = 5 TMP\_26 = 0 not(TMP\_26) = 1 TMP\_27 = 0 not(TMP\_27) = 1 TMP\_28 = 0 TMP\_29 = 1 not(TMP\_29) = 0 TMP\_30 = 1 not(TMP\_30) = 0 TMP\_31 = 2 TMP\_32 = 0 not(TMP\_32) = 1 TMP\_33 = 0 not(TMP\_33) = 1 TMP\_34 = 1 not(TMP\_34) = 0 TMP\_35 = 1 not(TMP\_35) = 0 TMP\_36 = 1 not(TMP\_36) = 0 TMP\_37 = 2 TMP\_38 = 0 not(TMP\_38) = 1 TMP\_39 = 1 not(TMP\_39) = 0 TMP\_40 = 1 not(TMP\_40) = 0 TMP\_41 = 1 not(TMP\_41) = 0 TMP\_42 = 0 not(TMP\_42) = 1 TMP\_43 = 1 not(TMP\_43) = 0 TMP\_44 = 4 TMP\_45 = 0 not(TMP\_45) = 1 TMP\_46 = 0 not(TMP\_46) = 1 TMP\_47 = 0 TMP\_48 = 1 not(TMP\_48) = 0 TMP\_49 = 1 not(TMP\_49) = 0 TMP\_50 = 2 TMP\_51 = 0 not(TMP\_51) = 1 TMP\_52 = 0 not(TMP\_52) = 1 TMP\_53 = 1 not(TMP\_53) = 0 TMP\_54 = 1 not(TMP\_54) = 0 TMP\_55 = 1 not(TMP\_55) = 0 TMP\_56 = 2 TMP\_57 = 0 not(TMP\_57) = 1 TMP\_58 = 1 not(TMP\_58) = 0 TMP\_59 = 1 not(TMP\_59) = 0 TMP\_60 = 1 not(TMP\_60) = 0 TMP\_61 = 0 not(TMP\_61) = 1 TMP\_62 = 1 not(TMP\_62) = 0 TMP\_63 = 4 TMP\_64 = 0 not(TMP\_64) = 1 TMP\_65 = 0 not(TMP\_65) = 1 TMP\_66 = 0 TMP\_67 = 1 not(TMP\_67) = 0 TMP\_68 = 1 not(TMP\_68) = 0 TMP\_69 = 2 TMP\_70 = 0 not(TMP\_70) = 1 TMP\_71 = 0 not(TMP\_71) = 1 TMP\_72 = 1 not(TMP\_72) = 0 TMP\_73 = 1 not(TMP\_73) = 0 TMP\_74 = 1 not(TMP\_74) = 0 TMP\_75 = 2 TMP\_76 = 1 not(TMP\_76) = 0 TMP\_77 = 0 not(TMP\_77) = 1 TMP\_78 = 1 not(TMP\_78) = 0 TMP\_79 = 1 not(TMP\_79) = 0 TMP\_80 = 0 not(TMP\_80) = 1 TMP\_81 = 1 not(TMP\_81) = 0 TMP\_82 = 4 TMP\_83 = 0 not(TMP\_83) = 1 TMP\_84 = 0 not(TMP\_84) = 1 TMP\_85 = 0 TMP\_86 = 1 not(TMP\_86) = 0 TMP\_87 = 1 not(TMP\_87) = 0 TMP\_88 = 2 TMP\_89 = 0 not(TMP\_89) = 1 TMP\_90 = 0 not(TMP\_90) = 1 TMP\_91 = 1 not(TMP\_91) = 0 TMP\_92 = 1 not(TMP\_92) = 0 TMP\_93 = 1 not(TMP\_93) = 0 TMP\_94 = 2 TMP\_95 = 1 not(TMP\_95) = 0 TMP\_96 = 0 not(TMP\_96) = 1 TMP\_97 = 1 not(TMP\_97) = 0 TMP\_98 = 1 not(TMP\_98) = 0 TMP\_99 = 1 not(TMP\_99) = 0 TMP\_100 = 1 not(TMP\_100) = 0 TMP\_101 = 5 TMP\_102 = 0 not(TMP\_102) = 1 TMP\_103 = 0 not(TMP\_103) = 1 TMP\_104 = 0 TMP\_105 = 1 not(TMP\_105) = 0 TMP\_106 = 1 not(TMP\_106) = 0 TMP\_107 = 2 TMP\_108 = 0 not(TMP\_108) = 1 TMP\_109 = 0 not(TMP\_109) = 1 TMP\_110 = 1 not(TMP\_110) = 0 TMP\_111 = 1 not(TMP\_111) = 0 TMP\_112 = 1 not(TMP\_112) = 0 TMP\_113 = 2 TMP\_114 = 0 not(TMP\_114) = 1 TMP\_115 = 1 not(TMP\_115) = 0 TMP\_116 = 1 not(TMP\_116) = 0 TMP\_117 = 1 not(TMP\_117) = 0 TMP\_118 = 0 not(TMP\_118) = 1 TMP\_119 = 1 not(TMP\_119) = 0 TMP\_120 = 4 TMP\_121 = 0 not(TMP\_121) = 1 TMP\_122 = 0 not(TMP\_122) = 1 TMP\_123 = 0 TMP\_124 = 1 not(TMP\_124) = 0 TMP\_125 = 1 not(TMP\_125) = 0 TMP\_126 = 2 TMP\_127 = 0 not(TMP\_127) = 1 TMP\_128 = 0 not(TMP\_128) = 1 TMP\_129 = 1 not(TMP\_129) = 0 TMP\_130 = 1 not(TMP\_130) = 0 TMP\_131 = 1 not(TMP\_131) = 0 TMP\_132 = 2 TMP\_133 = 1 not(TMP\_133) = 0 TMP\_134 = 1 not(TMP\_134) = 0 TMP\_135 = 1 not(TMP\_135) = 0 TMP\_136 = 1 not(TMP\_136) = 0 TMP\_137 = 0 not(TMP\_137) = 1 TMP\_138 = 1 not(TMP\_138) = 0 TMP\_139 = 5 TMP\_140 = 0 not(TMP\_140) = 1 TMP\_141 = 0 not(TMP\_141) = 1 TMP\_142 = 0 TMP\_143 = 1 not(TMP\_143) = 0 TMP\_144 = 1 not(TMP\_144) = 0 TMP\_145 = 2 TMP\_146 = 0 not(TMP\_146) = 1 TMP\_147 = 0 not(TMP\_147) = 1 TMP\_148 = 1 not(TMP\_148) = 0 TMP\_149 = 1 not(TMP\_149) = 0 TMP\_150 = 1 not(TMP\_150) = 0 TMP\_151 = 2 TMP\_152 = 0 not(TMP\_152) = 1 TMP\_153 = 1 not(TMP\_153) = 0 TMP\_154 = 1 not(TMP\_154) = 0 TMP\_155 = 1 not(TMP\_155) = 0 TMP\_156 = 0 not(TMP\_156) = 1 TMP\_157 = 1 not(TMP\_157) = 0 TMP\_158 = 4 TMP\_159 = 0 not(TMP\_159) = 1 TMP\_160 = 0 not(TMP\_160) = 1 TMP\_161 = 0 TMP\_162 = 1 not(TMP\_162) = 0 TMP\_163 = 1 not(TMP\_163) = 0 TMP\_164 = 2 TMP\_165 = 0 not(TMP\_165) = 1 TMP\_166 = 0 not(TMP\_166) = 1 TMP\_167 = 1 not(TMP\_167) = 0 TMP\_168 = 1 not(TMP\_168) = 0 TMP\_169 = 1 not(TMP\_169) = 0 TMP\_170 = 2 TMP\_171 = 0 not(TMP\_171) = 1 TMP\_172 = 1 not(TMP\_172) = 0 TMP\_173 = 1 not(TMP\_173) = 0 TMP\_174 = 1 not(TMP\_174) = 0 TMP\_175 = 1 not(TMP\_175) = 0 TMP\_176 = 1 not(TMP\_176) = 0 TMP\_177 = 5 TMP\_178 = 0 not(TMP\_178) = 1 TMP\_179 = 0 not(TMP\_179) = 1 TMP\_180 = 0 TMP\_181 = 1 not(TMP\_181) = 0 TMP\_182 = 1 not(TMP\_182) = 0 TMP\_183 = 2 TMP\_184 = 0 not(TMP\_184) = 1 TMP\_185 = 0 not(TMP\_185) = 1 TMP\_186 = 1 not(TMP\_186) = 0 TMP\_187 = 1 not(TMP\_187) = 0 TMP\_188 = 1 not(TMP\_188) = 0 TMP\_189 = 2 TMP\_190 = 1 not(TMP\_190) = 0 TMP\_191 = 1 not(TMP\_191) = 0 TMP\_192 = 1 not(TMP\_192) = 0 TMP\_193 = 1 not(TMP\_193) = 0 TMP\_194 = 0 not(TMP\_194) = 1 TMP\_195 = 1 not(TMP\_195) = 0 TMP\_196 = 5 TMP\_197 = 0 not(TMP\_197) = 1 TMP\_198 = 0 not(TMP\_198) = 1 TMP\_199 = 0 TMP\_200 = 1 not(TMP\_200) = 0 TMP\_201 = 1 not(TMP\_201) = 0 TMP\_202 = 2 TMP\_203 = 0 not(TMP\_203) = 1 TMP\_204 = 0 not(TMP\_204) = 1 TMP\_205 = 1 not(TMP\_205) = 0 TMP\_206 = 1 not(TMP\_206) = 0 TMP\_207 = 1 not(TMP\_207) = 0 TMP\_208 = 2 TMP\_209 = 0 not(TMP\_209) = 1 TMP\_210 = 1 not(TMP\_210) = 0 TMP\_211 = 1 not(TMP\_211) = 0 TMP\_212 = 1 not(TMP\_212) = 0 TMP\_213 = 1 not(TMP\_213) = 0 TMP\_214 = 0 not(TMP\_214) = 1 TMP\_215 = 4 TMP\_216 = 0 not(TMP\_216) = 1 TMP\_217 = 0 not(TMP\_217) = 1 TMP\_218 = 0 TMP\_219 = 1 not(TMP\_219) = 0 TMP\_220 = 1 not(TMP\_220) = 0 TMP\_221 = 2 TMP\_222 = 0 not(TMP\_222) = 1 TMP\_223 = 0 not(TMP\_223) = 1 TMP\_224 = 1 not(TMP\_224) = 0 TMP\_225 = 1 not(TMP\_225) = 0 TMP\_226 = 1 not(TMP\_226) = 0 TMP\_227 = 2 TMP\_228 = 0 not(TMP\_228) = 1 TMP\_229 = 1 not(TMP\_229) = 0 TMP\_230 = 1 not(TMP\_230) = 0 TMP\_231 = 1 not(TMP\_231) = 0 TMP\_232 = 1 not(TMP\_232) = 0 TMP\_233 = 0 not(TMP\_233) = 1 TMP\_234 = 4 TMP\_235 = 0 not(TMP\_235) = 1 TMP\_236 = 0 not(TMP\_236) = 1 TMP\_237 = 0 TMP\_238 = 1 not(TMP\_238) = 0 TMP\_239 = 1 not(TMP\_239) = 0 TMP\_240 = 2 TMP\_241 = 0 not(TMP\_241) = 1 TMP\_242 = 0 not(TMP\_242) = 1 TMP\_243 = 1 not(TMP\_243) = 0 TMP\_244 = 1 not(TMP\_244) = 0 TMP\_245 = 1 not(TMP\_245) = 0 TMP\_246 = 2 TMP\_247 = 0 not(TMP\_247) = 1 TMP\_248 = 1 not(TMP\_248) = 0 TMP\_249 = 1 not(TMP\_249) = 0 TMP\_250 = 0 not(TMP\_250) = 1 TMP\_251 = 1 not(TMP\_251) = 0 TMP\_252 = 1 not(TMP\_252) = 0 TMP\_253 = 4 TMP\_254 = 0 not(TMP\_254) = 1 TMP\_255 = 0 not(TMP\_255) = 1 TMP\_256 = 0 TMP\_257 = 1 not(TMP\_257) = 0 TMP\_258 = 1 not(TMP\_258) = 0 TMP\_259 = 2 TMP\_260 = 0 not(TMP\_260) = 1 TMP\_261 = 0 not(TMP\_261) = 1 TMP\_262 = 1 not(TMP\_262) = 0 TMP\_263 = 1 not(TMP\_263) = 0 TMP\_264 = 1 not(TMP\_264) = 0 TMP\_265 = 2 TMP\_266 = 0 not(TMP\_266) = 1 TMP\_267 = 1 not(TMP\_267) = 0 TMP\_268 = 1 not(TMP\_268) = 0 TMP\_269 = 1 not(TMP\_269) = 0 TMP\_270 = 1 not(TMP\_270) = 0 TMP\_271 = 1 not(TMP\_271) = 0 TMP\_272 = 5 TMP\_273 = 0 not(TMP\_273) = 1 TMP\_274 = 0 not(TMP\_274) = 1 TMP\_275 = 0 TMP\_276 = 1 not(TMP\_276) = 0 TMP\_277 = 1 not(TMP\_277) = 0 TMP\_278 = 2 TMP\_279 = 0 not(TMP\_279) = 1 TMP\_280 = 0 not(TMP\_280) = 1 TMP\_281 = 1 not(TMP\_281) = 0 TMP\_282 = 1 not(TMP\_282) = 0 TMP\_283 = 1 not(TMP\_283) = 0 TMP\_284 = 2 TMP\_285 = 1 not(TMP\_285) = 0 TMP\_286 = 0 not(TMP\_286) = 1 TMP\_287 = 1 not(TMP\_287) = 0 TMP\_288 = 1 not(TMP\_288) = 0 TMP\_289 = 1 not(TMP\_289) = 0 TMP\_290 = 1 not(TMP\_290) = 0 TMP\_291 = 5 TMP\_292 = 0 not(TMP\_292) = 1 TMP\_293 = 0 not(TMP\_293) = 1 TMP\_294 = 0 TMP\_295 = 1 not(TMP\_295) = 0 TMP\_296 = 1 not(TMP\_296) = 0 TMP\_297 = 2 TMP\_298 = 0 not(TMP\_298) = 1 TMP\_299 = 0 not(TMP\_299) = 1 TMP\_300 = 1 not(TMP\_300) = 0 TMP\_301 = 1 not(TMP\_301) = 0 TMP\_302 = 1 not(TMP\_302) = 0 TMP\_303 = 2 TMP\_304 = 1 not(TMP\_304) = 0 TMP\_305 = 0 not(TMP\_305) = 1 TMP\_306 = 1 not(TMP\_306) = 0 TMP\_307 = 1 not(TMP\_307) = 0 TMP\_308 = 1 not(TMP\_308) = 0 TMP\_309 = 0 not(TMP\_309) = 1 TMP\_310 = 4 TMP\_311 = 0 not(TMP\_311) = 1 TMP\_312 = 0 not(TMP\_312) = 1 TMP\_313 = 0 TMP\_314 = 1 not(TMP\_314) = 0 TMP\_315 = 1 not(TMP\_315) = 0 TMP\_316 = 2 TMP\_317 = 0 not(TMP\_317) = 1 TMP\_318 = 0 not(TMP\_318) = 1 TMP\_319 = 1 not(TMP\_319) = 0 TMP\_320 = 1 not(TMP\_320) = 0 TMP\_321 = 1 not(TMP\_321) = 0 TMP\_322 = 2 TMP\_323 = 0 not(TMP\_323) = 1 TMP\_324 = 1 not(TMP\_324) = 0 TMP\_325 = 1 not(TMP\_325) = 0 TMP\_326 = 1 not(TMP\_326) = 0 TMP\_327 = 1 not(TMP\_327) = 0 TMP\_328 = 1 not(TMP\_328) = 0 TMP\_329 = 5 TMP\_330 = 0 not(TMP\_330) = 1 TMP\_331 = 0 not(TMP\_331) = 1 TMP\_332 = 0 TMP\_333 = 1 not(TMP\_333) = 0 TMP\_334 = 1 not(TMP\_334) = 0 TMP\_335 = 2 TMP\_336 = 0 not(TMP\_336) = 1 TMP\_337 = 0 not(TMP\_337) = 1 TMP\_338 = 1 not(TMP\_338) = 0 TMP\_339 = 1 not(TMP\_339) = 0 TMP\_340 = 1 not(TMP\_340) = 0 TMP\_341 = 2 TMP\_342 = 1 not(TMP\_342) = 0 TMP\_343 = 1 not(TMP\_343) = 0 TMP\_344 = 1 not(TMP\_344) = 0 TMP\_345 = 1 not(TMP\_345) = 0 TMP\_346 = 1 not(TMP\_346) = 0 TMP\_347 = 0 not(TMP\_347) = 1 TMP\_348 = 5 TMP\_349 = 0 not(TMP\_349) = 1 TMP\_350 = 0 not(TMP\_350) = 1 TMP\_351 = 0 TMP\_352 = 1 not(TMP\_352) = 0 TMP\_353 = 1 not(TMP\_353) = 0 TMP\_354 = 2 TMP\_355 = 0 not(TMP\_355) = 1 TMP\_356 = 0 not(TMP\_356) = 1 TMP\_357 = 1 not(TMP\_357) = 0 TMP\_358 = 1 not(TMP\_358) = 0 TMP\_359 = 1 not(TMP\_359) = 0 TMP\_360 = 2 TMP\_361 = 0 not(TMP\_361) = 1 TMP\_362 = 1 not(TMP\_362) = 0 TMP\_363 = 1 not(TMP\_363) = 0 TMP\_364 = 1 not(TMP\_364) = 0 TMP\_365 = 1 not(TMP\_365) = 0 TMP\_366 = 1 not(TMP\_366) = 0 TMP\_367 = 5 TMP\_368 = 0 not(TMP\_368) = 1 TMP\_369 = 0 not(TMP\_369) = 1 TMP\_370 = 0 TMP\_371 = 1 not(TMP\_371) = 0 TMP\_372 = 1 not(TMP\_372) = 0 TMP\_373 = 2 TMP\_374 = 0 not(TMP\_374) = 1 TMP\_375 = 0 not(TMP\_375) = 1 TMP\_376 = 1 not(TMP\_376) = 0 TMP\_377 = 1 not(TMP\_377) = 0 TMP\_378 = 1 not(TMP\_378) = 0 TMP\_379 = 2 TMP\_380 = 0 not(TMP\_380) = 1 TMP\_381 = 1 not(TMP\_381) = 0 TMP\_382 = 1 not(TMP\_382) = 0 TMP\_383 = 1 not(TMP\_383) = 0 TMP\_384 = 1 not(TMP\_384) = 0 TMP\_385 = 0 not(TMP\_385) = 1 TMP\_386 = 4 TMP\_387 = 0 not(TMP\_387) = 1 TMP\_388 = 0 not(TMP\_388) = 1 TMP\_389 = 0 TMP\_390 = 1 not(TMP\_390) = 0 TMP\_391 = 1 not(TMP\_391) = 0 TMP\_392 = 2 TMP\_393 = 0 not(TMP\_393) = 1 TMP\_394 = 0 not(TMP\_394) = 1 TMP\_395 = 1 not(TMP\_395) = 0 TMP\_396 = 1 not(TMP\_396) = 0 TMP\_397 = 1 not(TMP\_397) = 0 TMP\_398 = 2 TMP\_399 = 1 not(TMP\_399) = 0 TMP\_400 = 1 not(TMP\_400) = 0 TMP\_401 = 1 not(TMP\_401) = 0 TMP\_402 = 0 not(TMP\_402) = 1 TMP\_403 = 1 not(TMP\_403) = 0 TMP\_404 = 1 not(TMP\_404) = 0 TMP\_405 = 5 TMP\_406 = 0 not(TMP\_406) = 1 TMP\_407 = 0 not(TMP\_407) = 1 TMP\_408 = 0 TMP\_409 = 1 not(TMP\_409) = 0 TMP\_410 = 1 not(TMP\_410) = 0 TMP\_411 = 2 TMP\_412 = 0 not(TMP\_412) = 1 TMP\_413 = 0 not(TMP\_413) = 1 TMP\_414 = 1 not(TMP\_414) = 0 TMP\_415 = 1 not(TMP\_415) = 0 TMP\_416 = 1 not(TMP\_416) = 0 TMP\_417 = 2 TMP\_418 = 0 not(TMP\_418) = 1 TMP\_419 = 1 not(TMP\_419) = 0 TMP\_420 = 1 not(TMP\_420) = 0 TMP\_421 = 1 not(TMP\_421) = 0 TMP\_422 = 1 not(TMP\_422) = 0 TMP\_423 = 0 not(TMP\_423) = 1 TMP\_424 = 4 TMP\_425 = 0 not(TMP\_425) = 1 TMP\_426 = 0 not(TMP\_426) = 1 TMP\_427 = 0 TMP\_428 = 1 not(TMP\_428) = 0 TMP\_429 = 1 not(TMP\_429) = 0 TMP\_430 = 2 TMP\_431 = 0 not(TMP\_431) = 1 TMP\_432 = 0 not(TMP\_432) = 1 TMP\_433 = 1 not(TMP\_433) = 0 TMP\_434 = 1 not(TMP\_434) = 0 TMP\_435 = 1 not(TMP\_435) = 0 TMP\_436 = 2 TMP\_437 = 1 not(TMP\_437) = 0 TMP\_438 = 0 not(TMP\_438) = 1 TMP\_439 = 1 not(TMP\_439) = 0 TMP\_440 = 1 not(TMP\_440) = 0 TMP\_441 = 1 not(TMP\_441) = 0 TMP\_442 = 0 not(TMP\_442) = 1 TMP\_443 = 4 TMP\_444 = 0 not(TMP\_444) = 1 TMP\_445 = 0 not(TMP\_445) = 1 TMP\_446 = 0 TMP\_447 = 1 not(TMP\_447) = 0 TMP\_448 = 1 not(TMP\_448) = 0 TMP\_449 = 2 TMP\_450 = 0 not(TMP\_450) = 1 TMP\_451 = 0 not(TMP\_451) = 1 TMP\_452 = 1 not(TMP\_452) = 0 TMP\_453 = 1 not(TMP\_453) = 0 TMP\_454 = 1 not(TMP\_454) = 0 TMP\_455 = 2 TMP\_456 = 1 not(TMP\_456) = 0 TMP\_457 = 0 not(TMP\_457) = 1 TMP\_458 = 1 not(TMP\_458) = 0 TMP\_459 = 1 not(TMP\_459) = 0 TMP\_460 = 1 not(TMP\_460) = 0 TMP\_461 = 1 not(TMP\_461) = 0 TMP\_462 = 5 TMP\_463 = 0 not(TMP\_463) = 1 TMP\_464 = 0 not(TMP\_464) = 1 TMP\_465 = 0 TMP\_466 = 1 not(TMP\_466) = 0 TMP\_467 = 1 not(TMP\_467) = 0 TMP\_468 = 2 TMP\_469 = 0 not(TMP\_469) = 1 TMP\_470 = 0 not(TMP\_470) = 1 TMP\_471 = 1 not(TMP\_471) = 0 TMP\_472 = 1 not(TMP\_472) = 0 TMP\_473 = 1 not(TMP\_473) = 0 TMP\_474 = 2 TMP\_475 = 1 not(TMP\_475) = 0 TMP\_476 = 0 not(TMP\_476) = 1 TMP\_477 = 1 not(TMP\_477) = 0 TMP\_478 = 1 not(TMP\_478) = 0 TMP\_479 = 1 not(TMP\_479) = 0 TMP\_480 = 1 not(TMP\_480) = 0 TMP\_481 = 5 TMP\_482 = 0 not(TMP\_482) = 1 TMP\_483 = 0 not(TMP\_483) = 1 TMP\_484 = 0 TMP\_485 = 1 not(TMP\_485) = 0 TMP\_486 = 1 not(TMP\_486) = 0 TMP\_487 = 2 TMP\_488 = 0 not(TMP\_488) = 1 TMP\_489 = 0 not(TMP\_489) = 1 TMP\_490 = 1 not(TMP\_490) = 0 TMP\_491 = 1 not(TMP\_491) = 0 TMP\_492 = 1 not(TMP\_492) = 0 TMP\_493 = 2 TMP\_494 = 1 not(TMP\_494) = 0 TMP\_495 = 0 not(TMP\_495) = 1 TMP\_496 = 1 not(TMP\_496) = 0 TMP\_497 = 1 not(TMP\_497) = 0 TMP\_498 = 1 not(TMP\_498) = 0 TMP\_499 = 1 not(TMP\_499) = 0 TMP\_500 = 5 TMP\_501 = 0 not(TMP\_501) = 1 TMP\_502 = 0 not(TMP\_502) = 1 TMP\_503 = 0 TMP\_504 = 1 not(TMP\_504) = 0 TMP\_505 = 1 not(TMP\_505) = 0 TMP\_506 = 2 TMP\_507 = 0 not(TMP\_507) = 1 TMP\_508 = 0 not(TMP\_508) = 1 TMP\_509 = 1 not(TMP\_509) = 0 TMP\_510 = 1 not(TMP\_510) = 0 TMP\_511 = 1 not(TMP\_511) = 0 TMP\_512 = 2 TMP\_513 = 1 not(TMP\_513) = 0 TMP\_514 = 0 not(TMP\_514) = 1 TMP\_515 = 1 not(TMP\_515) = 0 TMP\_516 = 1 not(TMP\_516) = 0 TMP\_517 = 1 not(TMP\_517) = 0 TMP\_518 = 0 not(TMP\_518) = 1 TMP\_519 = 4 TMP\_520 = 0 not(TMP\_520) = 1 TMP\_521 = 0 not(TMP\_521) = 1 TMP\_522 = 0 TMP\_523 = 1 not(TMP\_523) = 0 TMP\_524 = 1 not(TMP\_524) = 0 TMP\_525 = 2 TMP\_526 = 0 not(TMP\_526) = 1 TMP\_527 = 0 not(TMP\_527) = 1 TMP\_528 = 1 not(TMP\_528) = 0 TMP\_529 = 1 not(TMP\_529) = 0 TMP\_530 = 1 not(TMP\_530) = 0 TMP\_531 = 2 TMP\_532 = 0 not(TMP\_532) = 1 TMP\_533 = 1 not(TMP\_533) = 0 TMP\_534 = 1 not(TMP\_534) = 0 TMP\_535 = 1 not(TMP\_535) = 0 TMP\_536 = 1 not(TMP\_536) = 0 TMP\_537 = 1 not(TMP\_537) = 0 TMP\_538 = 5 TMP\_539 = 0 not(TMP\_539) = 1 TMP\_540 = 0 not(TMP\_540) = 1 TMP\_541 = 0 TMP\_542 = 1 not(TMP\_542) = 0 TMP\_543 = 1 not(TMP\_543) = 0 TMP\_544 = 2 TMP\_545 = 0 not(TMP\_545) = 1 TMP\_546 = 0 not(TMP\_546) = 1 TMP\_547 = 1 not(TMP\_547) = 0 TMP\_548 = 1 not(TMP\_548) = 0 TMP\_549 = 1 not(TMP\_549) = 0 TMP\_550 = 2 TMP\_551 = 1 not(TMP\_551) = 0 TMP\_552 = 0 not(TMP\_552) = 1 TMP\_553 = 1 not(TMP\_553) = 0 TMP\_554 = 1 not(TMP\_554) = 0 TMP\_555 = 1 not(TMP\_555) = 0 TMP\_556 = 0 not(TMP\_556) = 1 TMP\_557 = 4 TMP\_558 = 0 not(TMP\_558) = 1 TMP\_559 = 0 not(TMP\_559) = 1 TMP\_560 = 0 TMP\_561 = 1 not(TMP\_561) = 0 TMP\_562 = 1 not(TMP\_562) = 0 TMP\_563 = 2 TMP\_564 = 0 not(TMP\_564) = 1 TMP\_565 = 0 not(TMP\_565) = 1 TMP\_566 = 1 not(TMP\_566) = 0 TMP\_567 = 1 not(TMP\_567) = 0 TMP\_568 = 1 not(TMP\_568) = 0 TMP\_569 = 2 TMP\_570 = 1 not(TMP\_570) = 0 TMP\_571 = 0 not(TMP\_571) = 1 TMP\_572 = 1 not(TMP\_572) = 0 TMP\_573 = 1 not(TMP\_573) = 0 TMP\_574 = 1 not(TMP\_574) = 0 TMP\_575 = 1 not(TMP\_575) = 0 TMP\_576 = 5 TMP\_577 = 0 not(TMP\_577) = 1 TMP\_578 = 0 not(TMP\_578) = 1 TMP\_579 = 0 TMP\_580 = 1 not(TMP\_580) = 0 TMP\_581 = 1 not(TMP\_581) = 0 TMP\_582 = 2 TMP\_583 = 0 not(TMP\_583) = 1 TMP\_584 = 0 not(TMP\_584) = 1 TMP\_585 = 1 not(TMP\_585) = 0 TMP\_586 = 1 not(TMP\_586) = 0 TMP\_587 = 1 not(TMP\_587) = 0 TMP\_588 = 2 TMP\_589 = 1 not(TMP\_589) = 0 TMP\_590 = 1 not(TMP\_590) = 0 TMP\_591 = 1 not(TMP\_591) = 0 TMP\_592 = 1 not(TMP\_592) = 0 TMP\_593 = 1 not(TMP\_593) = 0 TMP\_594 = 0 not(TMP\_594) = 1 TMP\_595 = 5 TMP\_596 = 0 not(TMP\_596) = 1 TMP\_597 = 0 not(TMP\_597) = 1 TMP\_598 = 0 TMP\_599 = 1 not(TMP\_599) = 0 TMP\_600 = 1 not(TMP\_600) = 0 TMP\_601 = 2 TMP\_602 = 0 not(TMP\_602) = 1 TMP\_603 = 0 not(TMP\_603) = 1 TMP\_604 = 1 not(TMP\_604) = 0 TMP\_605 = 1 not(TMP\_605) = 0 TMP\_606 = 1 not(TMP\_606) = 0 TMP\_607 = 2 TMP\_608 = 1 not(TMP\_608) = 0 TMP\_609 = 0 not(TMP\_609) = 1 TMP\_610 = 1 not(TMP\_610) = 0 TMP\_611 = 1 not(TMP\_611) = 0 TMP\_612 = 1 not(TMP\_612) = 0 TMP\_613 = 1 not(TMP\_613) = 0 TMP\_614 = 5 TMP\_615 = 0 not(TMP\_615) = 1 TMP\_616 = 0 not(TMP\_616) = 1 TMP\_617 = 0 TMP\_618 = 1 not(TMP\_618) = 0 TMP\_619 = 1 not(TMP\_619) = 0 TMP\_620 = 2 TMP\_621 = 0 not(TMP\_621) = 1 TMP\_622 = 0 not(TMP\_622) = 1 TMP\_623 = 1 not(TMP\_623) = 0 TMP\_624 = 1 not(TMP\_624) = 0 TMP\_625 = 1 not(TMP\_625) = 0 TMP\_626 = 2 TMP\_627 = 0 not(TMP\_627) = 1 TMP\_628 = 1 not(TMP\_628) = 0 TMP\_629 = 1 not(TMP\_629) = 0 TMP\_630 = 1 not(TMP\_630) = 0 TMP\_631 = 1 not(TMP\_631) = 0 TMP\_632 = 1 not(TMP\_632) = 0 TMP\_633 = 5 TMP\_634 = 0 not(TMP\_634) = 1 TMP\_635 = 0 not(TMP\_635) = 1 TMP\_636 = 0 TMP\_637 = 1 not(TMP\_637) = 0 TMP\_638 = 1 not(TMP\_638) = 0 TMP\_639 = 2 TMP\_640 = 0 not(TMP\_640) = 1 TMP\_641 = 0 not(TMP\_641) = 1 TMP\_642 = 1 not(TMP\_642) = 0 TMP\_643 = 1 not(TMP\_643) = 0 TMP\_644 = 1 not(TMP\_644) = 0 TMP\_645 = 2 TMP\_646 = 1 not(TMP\_646) = 0 TMP\_647 = 0 not(TMP\_647) = 1 TMP\_648 = 1 not(TMP\_648) = 0 TMP\_649 = 1 not(TMP\_649) = 0 TMP\_650 = 1 not(TMP\_650) = 0 TMP\_651 = 1 not(TMP\_651) = 0 TMP\_652 = 5 TMP\_653 = 0 not(TMP\_653) = 1 TMP\_654 = 0 not(TMP\_654) = 1 TMP\_655 = 0 TMP\_656 = 1 not(TMP\_656) = 0 TMP\_657 = 1 not(TMP\_657) = 0 TMP\_658 = 2 TMP\_659 = 0 not(TMP\_659) = 1 TMP\_660 = 0 not(TMP\_660) = 1 TMP\_661 = 1 not(TMP\_661) = 0 TMP\_662 = 1 not(TMP\_662) = 0 TMP\_663 = 1 not(TMP\_663) = 0 TMP\_664 = 2 TMP\_665 = 1 not(TMP\_665) = 0 TMP\_666 = 0 not(TMP\_666) = 1 TMP\_667 = 1 not(TMP\_667) = 0 TMP\_668 = 1 not(TMP\_668) = 0 TMP\_669 = 0 not(TMP\_669) = 1 TMP\_670 = 1 not(TMP\_670) = 0 TMP\_671 = 4 TMP\_672 = 0 not(TMP\_672) = 1 TMP\_673 = 0 not(TMP\_673) = 1 TMP\_674 = 0 TMP\_675 = 1 not(TMP\_675) = 0 TMP\_676 = 1 not(TMP\_676) = 0 TMP\_677 = 2 TMP\_678 = 0 not(TMP\_678) = 1 TMP\_679 = 0 not(TMP\_679) = 1 TMP\_680 = 1 not(TMP\_680) = 0 TMP\_681 = 1 not(TMP\_681) = 0 TMP\_682 = 1 not(TMP\_682) = 0 TMP\_683 = 2 TMP\_684 = 1 not(TMP\_684) = 0 TMP\_685 = 0 not(TMP\_685) = 1 TMP\_686 = 1 not(TMP\_686) = 0 TMP\_687 = 1 not(TMP\_687) = 0 TMP\_688 = 0 not(TMP\_688) = 1 TMP\_689 = 1 not(TMP\_689) = 0 TMP\_690 = 4 TMP\_691 = 0 not(TMP\_691) = 1 TMP\_692 = 0 not(TMP\_692) = 1 TMP\_693 = 0 TMP\_694 = 1 not(TMP\_694) = 0 TMP\_695 = 1 not(TMP\_695) = 0 TMP\_696 = 2 TMP\_697 = 0 not(TMP\_697) = 1 TMP\_698 = 0 not(TMP\_698) = 1 TMP\_699 = 1 not(TMP\_699) = 0 TMP\_700 = 1 not(TMP\_700) = 0 TMP\_701 = 1 not(TMP\_701) = 0 TMP\_702 = 2 TMP\_703 = 1 not(TMP\_703) = 0 TMP\_704 = 0 not(TMP\_704) = 1 TMP\_705 = 1 not(TMP\_705) = 0 TMP\_706 = 1 not(TMP\_706) = 0 TMP\_707 = 0 not(TMP\_707) = 1 TMP\_708 = 1 not(TMP\_708) = 0 TMP\_709 = 4 TMP\_710 = 0 not(TMP\_710) = 1 TMP\_711 = 0 not(TMP\_711) = 1 TMP\_712 = 0 TMP\_713 = 1 not(TMP\_713) = 0 TMP\_714 = 1 not(TMP\_714) = 0 TMP\_715 = 2 TMP\_716 = 0 not(TMP\_716) = 1 TMP\_717 = 0 not(TMP\_717) = 1 TMP\_718 = 1 not(TMP\_718) = 0 TMP\_719 = 1 not(TMP\_719) = 0 TMP\_720 = 1 not(TMP\_720) = 0 TMP\_721 = 2 TMP\_722 = 1 not(TMP\_722) = 0 TMP\_723 = 0 not(TMP\_723) = 1 TMP\_724 = 1 not(TMP\_724) = 0 TMP\_725 = 1 not(TMP\_725) = 0 TMP\_726 = 1 not(TMP\_726) = 0 TMP\_727 = 1 not(TMP\_727) = 0 TMP\_728 = 5 TMP\_729 = 0 not(TMP\_729) = 1 TMP\_730 = 0 not(TMP\_730) = 1 TMP\_731 = 0 TMP\_732 = 1 not(TMP\_732) = 0 TMP\_733 = 1 not(TMP\_733) = 0 TMP\_734 = 2 TMP\_735 = 0 not(TMP\_735) = 1 TMP\_736 = 0 not(TMP\_736) = 1 TMP\_737 = 1 not(TMP\_737) = 0 TMP\_738 = 1 not(TMP\_738) = 0 TMP\_739 = 1 not(TMP\_739) = 0 TMP\_740 = 2 TMP\_741 = 0 not(TMP\_741) = 1 TMP\_742 = 1 not(TMP\_742) = 0 TMP\_743 = 1 not(TMP\_743) = 0 TMP\_744 = 1 not(TMP\_744) = 0 TMP\_745 = 0 not(TMP\_745) = 1 TMP\_746 = 1 not(TMP\_746) = 0 TMP\_747 = 4 TMP\_748 = 0 not(TMP\_748) = 1 TMP\_749 = 0 not(TMP\_749) = 1 TMP\_750 = 0 TMP\_751 = 1 not(TMP\_751) = 0 TMP\_752 = 1 not(TMP\_752) = 0 TMP\_753 = 2 TMP\_754 = 0 not(TMP\_754) = 1 TMP\_755 = 0 not(TMP\_755) = 1 TMP\_756 = 1 not(TMP\_756) = 0 TMP\_757 = 1 not(TMP\_757) = 0 TMP\_758 = 1 not(TMP\_758) = 0 TMP\_759 = 2 TMP\_760 = 1 not(TMP\_760) = 0 TMP\_761 = 0 not(TMP\_761) = 1 TMP\_762 = 1 not(TMP\_762) = 0 TMP\_763 = 1 not(TMP\_763) = 0 TMP\_764 = 1 not(TMP\_764) = 0 TMP\_765 = 1 not(TMP\_765) = 0 TMP\_766 = 5 TMP\_767 = 0 not(TMP\_767) = 1 TMP\_768 = 0 not(TMP\_768) = 1 TMP\_769 = 0 TMP\_770 = 1 not(TMP\_770) = 0 TMP\_771 = 1 not(TMP\_771) = 0 TMP\_772 = 2 TMP\_773 = 0 not(TMP\_773) = 1 TMP\_774 = 0 not(TMP\_774) = 1 TMP\_775 = 1 not(TMP\_775) = 0 TMP\_776 = 1 not(TMP\_776) = 0 TMP\_777 = 1 not(TMP\_777) = 0 TMP\_778 = 2 TMP\_779 = 1 not(TMP\_779) = 0 TMP\_780 = 0 not(TMP\_780) = 1 TMP\_781 = 1 not(TMP\_781) = 0 TMP\_782 = 1 not(TMP\_782) = 0 TMP\_783 = 0 not(TMP\_783) = 1 TMP\_784 = 1 not(TMP\_784) = 0 TMP\_785 = 4 TMP\_786 = 0 not(TMP\_786) = 1 TMP\_787 = 0 not(TMP\_787) = 1 TMP\_788 = 0 TMP\_789 = 1 not(TMP\_789) = 0 TMP\_790 = 1 not(TMP\_790) = 0 TMP\_791 = 2 TMP\_792 = 0 not(TMP\_792) = 1 TMP\_793 = 0 not(TMP\_793) = 1 TMP\_794 = 1 not(TMP\_794) = 0 TMP\_795 = 1 not(TMP\_795) = 0 TMP\_796 = 1 not(TMP\_796) = 0 TMP\_797 = 2 TMP\_798 = 1 not(TMP\_798) = 0 TMP\_799 = 1 not(TMP\_799) = 0 TMP\_800 = 1 not(TMP\_800) = 0 TMP\_801 = 1 not(TMP\_801) = 0 TMP\_802 = 0 not(TMP\_802) = 1 TMP\_803 = 1 not(TMP\_803) = 0 TMP\_804 = 5 TMP\_805 = 0 not(TMP\_805) = 1 TMP\_806 = 0 not(TMP\_806) = 1 TMP\_807 = 0 TMP\_808 = 1 not(TMP\_808) = 0 TMP\_809 = 1 not(TMP\_809) = 0 TMP\_810 = 2 TMP\_811 = 0 not(TMP\_811) = 1 TMP\_812 = 0 not(TMP\_812) = 1 TMP\_813 = 1 not(TMP\_813) = 0 TMP\_814 = 1 not(TMP\_814) = 0 TMP\_815 = 1 not(TMP\_815) = 0 TMP\_816 = 2 TMP\_817 = 1 not(TMP\_817) = 0 TMP\_818 = 0 not(TMP\_818) = 1 TMP\_819 = 1 not(TMP\_819) = 0 TMP\_820 = 1 not(TMP\_820) = 0 TMP\_821 = 0 not(TMP\_821) = 1 TMP\_822 = 1 not(TMP\_822) = 0 TMP\_823 = 4 TMP\_824 = 0 not(TMP\_824) = 1 TMP\_825 = 0 not(TMP\_825) = 1 TMP\_826 = 0 TMP\_827 = 1 not(TMP\_827) = 0 TMP\_828 = 1 not(TMP\_828) = 0 TMP\_829 = 2 TMP\_830 = 0 not(TMP\_830) = 1 TMP\_831 = 0 not(TMP\_831) = 1 TMP\_832 = 1 not(TMP\_832) = 0 TMP\_833 = 1 not(TMP\_833) = 0 TMP\_834 = 1 not(TMP\_834) = 0 TMP\_835 = 2 TMP\_836 = 0 not(TMP\_836) = 1 TMP\_837 = 1 not(TMP\_837) = 0 TMP\_838 = 1 not(TMP\_838) = 0 TMP\_839 = 1 not(TMP\_839) = 0 TMP\_840 = 1 not(TMP\_840) = 0 TMP\_841 = 0 not(TMP\_841) = 1 TMP\_842 = 4 TMP\_843 = 0 not(TMP\_843) = 1 TMP\_844 = 0 not(TMP\_844) = 1 TMP\_845 = 0 TMP\_846 = 1 not(TMP\_846) = 0 TMP\_847 = 1 not(TMP\_847) = 0 TMP\_848 = 2 TMP\_849 = 0 not(TMP\_849) = 1 TMP\_850 = 0 not(TMP\_850) = 1 TMP\_851 = 1 not(TMP\_851) = 0 TMP\_852 = 1 not(TMP\_852) = 0 TMP\_853 = 1 not(TMP\_853) = 0 TMP\_854 = 2 TMP\_855 = 0 not(TMP\_855) = 1 TMP\_856 = 1 not(TMP\_856) = 0 TMP\_857 = 1 not(TMP\_857) = 0 TMP\_858 = 1 not(TMP\_858) = 0 TMP\_859 = 1 not(TMP\_859) = 0 TMP\_860 = 0 not(TMP\_860) = 1 TMP\_861 = 4 TMP\_862 = 0 not(TMP\_862) = 1 TMP\_863 = 0 not(TMP\_863) = 1 TMP\_864 = 0 TMP\_865 = 1 not(TMP\_865) = 0 TMP\_866 = 1 not(TMP\_866) = 0 TMP\_867 = 2 TMP\_868 = 0 not(TMP\_868) = 1 TMP\_869 = 0 not(TMP\_869) = 1 TMP\_870 = 1 not(TMP\_870) = 0 TMP\_871 = 1 not(TMP\_871) = 0 TMP\_872 = 1 not(TMP\_872) = 0 TMP\_873 = 2 TMP\_874 = 0 not(TMP\_874) = 1 TMP\_875 = 1 not(TMP\_875) = 0 TMP\_876 = 1 not(TMP\_876) = 0 TMP\_877 = 1 not(TMP\_877) = 0 TMP\_878 = 1 not(TMP\_878) = 0 TMP\_879 = 1 not(TMP\_879) = 0 TMP\_880 = 5 TMP\_881 = 0 not(TMP\_881) = 1 TMP\_882 = 0 not(TMP\_882) = 1 TMP\_883 = 0 TMP\_884 = 1 not(TMP\_884) = 0 TMP\_885 = 1 not(TMP\_885) = 0 TMP\_886 = 2 TMP\_887 = 0 not(TMP\_887) = 1 TMP\_888 = 0 not(TMP\_888) = 1 TMP\_889 = 1 not(TMP\_889) = 0 TMP\_890 = 1 not(TMP\_890) = 0 TMP\_891 = 1 not(TMP\_891) = 0 TMP\_892 = 2 TMP\_893 = 0 not(TMP\_893) = 1 TMP\_894 = 1 not(TMP\_894) = 0 TMP\_895 = 0 not(TMP\_895) = 1 TMP\_896 = 1 not(TMP\_896) = 0 TMP\_897 = 1 not(TMP\_897) = 0 TMP\_898 = 1 not(TMP\_898) = 0 TMP\_899 = 4 TMP\_900 = 0 not(TMP\_900) = 1 TMP\_901 = 0 not(TMP\_901) = 1 TMP\_902 = 0 TMP\_903 = 1 not(TMP\_903) = 0 TMP\_904 = 1 not(TMP\_904) = 0 TMP\_905 = 2 TMP\_906 = 0 not(TMP\_906) = 1 TMP\_907 = 0 not(TMP\_907) = 1 TMP\_908 = 1 not(TMP\_908) = 0 TMP\_909 = 1 not(TMP\_909) = 0 TMP\_910 = 1 not(TMP\_910) = 0 TMP\_911 = 2 TMP\_912 = 1 not(TMP\_912) = 0 TMP\_913 = 0 not(TMP\_913) = 1 TMP\_914 = 1 not(TMP\_914) = 0 TMP\_915 = 1 not(TMP\_915) = 0 TMP\_916 = 1 not(TMP\_916) = 0 TMP\_917 = 1 not(TMP\_917) = 0 TMP\_918 = 5 TMP\_919 = 0 not(TMP\_919) = 1 TMP\_920 = 0 not(TMP\_920) = 1 TMP\_921 = 0 TMP\_922 = 1 not(TMP\_922) = 0 TMP\_923 = 1 not(TMP\_923) = 0 TMP\_924 = 2 TMP\_925 = 0 not(TMP\_925) = 1 TMP\_926 = 0 not(TMP\_926) = 1 TMP\_927 = 1 not(TMP\_927) = 0 TMP\_928 = 1 not(TMP\_928) = 0 TMP\_929 = 1 not(TMP\_929) = 0 TMP\_930 = 2 TMP\_931 = 1 not(TMP\_931) = 0 TMP\_932 = 0 not(TMP\_932) = 1 TMP\_933 = 1 not(TMP\_933) = 0 TMP\_934 = 1 not(TMP\_934) = 0 TMP\_935 = 1 not(TMP\_935) = 0 TMP\_936 = 0 not(TMP\_936) = 1 TMP\_937 = 4 TMP\_938 = 0 not(TMP\_938) = 1 TMP\_939 = 0 not(TMP\_939) = 1 TMP\_940 = 0 TMP\_941 = 1 not(TMP\_941) = 0 TMP\_942 = 1 not(TMP\_942) = 0 TMP\_943 = 2 TMP\_944 = 0 not(TMP\_944) = 1 TMP\_945 = 0 not(TMP\_945) = 1 TMP\_946 = 1 not(TMP\_946) = 0 TMP\_947 = 1 not(TMP\_947) = 0 TMP\_948 = 1 not(TMP\_948) = 0 TMP\_949 = 2 TMP\_950 = 0 not(TMP\_950) = 1 TMP\_951 = 1 not(TMP\_951) = 0 TMP\_952 = 1 not(TMP\_952) = 0 TMP\_953 = 1 not(TMP\_953) = 0 TMP\_954 = 1 not(TMP\_954) = 0 TMP\_955 = 1 not(TMP\_955) = 0 TMP\_956 = 5 TMP\_957 = 0 not(TMP\_957) = 1 TMP\_958 = 0 not(TMP\_958) = 1 TMP\_959 = 0 TMP\_960 = 1 not(TMP\_960) = 0 TMP\_961 = 1 not(TMP\_961) = 0 TMP\_962 = 2 TMP\_963 = 0 not(TMP\_963) = 1 TMP\_964 = 0 not(TMP\_964) = 1 TMP\_965 = 1 not(TMP\_965) = 0 TMP\_966 = 1 not(TMP\_966) = 0 TMP\_967 = 1 not(TMP\_967) = 0 TMP\_968 = 2 TMP\_969 = 1 not(TMP\_969) = 0 TMP\_970 = 1 not(TMP\_970) = 0 TMP\_971 = 1 not(TMP\_971) = 0 TMP\_972 = 1 not(TMP\_972) = 0 TMP\_973 = 1 not(TMP\_973) = 0 TMP\_974 = 0 not(TMP\_974) = 1 TMP\_975 = 5 TMP\_976 = 0 not(TMP\_976) = 1 TMP\_977 = 0 not(TMP\_977) = 1 TMP\_978 = 0 TMP\_979 = 1 not(TMP\_979) = 0 TMP\_980 = 1 not(TMP\_980) = 0 TMP\_981 = 2 TMP\_982 = 0 not(TMP\_982) = 1 TMP\_983 = 0 not(TMP\_983) = 1 TMP\_984 = 1 not(TMP\_984) = 0 TMP\_985 = 1 not(TMP\_985) = 0 TMP\_986 = 1 not(TMP\_986) = 0 TMP\_987 = 2 TMP\_988 = 1 not(TMP\_988) = 0 TMP\_989 = 1 not(TMP\_989) = 0 TMP\_990 = 0 not(TMP\_990) = 1 TMP\_991 = 1 not(TMP\_991) = 0 TMP\_992 = 1 not(TMP\_992) = 0 TMP\_993 = 1 not(TMP\_993) = 0 TMP\_994 = 5 TMP\_995 = 0 not(TMP\_995) = 1 TMP\_996 = 0 not(TMP\_996) = 1 TMP\_997 = 0 TMP\_998 = 1 not(TMP\_998) = 0 TMP\_999 = 1 not(TMP\_999) = 0 TMP\_1000 = 2 TMP\_1001 = 0 not(TMP\_1001) = 1 TMP\_1002 = 0 not(TMP\_1002) = 1 TMP\_1003 = 1 not(TMP\_1003) = 0 TMP\_1004 = 1 not(TMP\_1004) = 0 TMP\_1005 = 1 not(TMP\_1005) = 0 TMP\_1006 = 2 TMP\_1007 = 0 not(TMP\_1007) = 1 TMP\_1008 = 1 not(TMP\_1008) = 0 TMP\_1009 = 1 not(TMP\_1009) = 0 TMP\_1010 = 1 not(TMP\_1010) = 0 TMP\_1011 = 1 not(TMP\_1011) = 0 TMP\_1012 = 1 not(TMP\_1012) = 0 TMP\_1013 = 5 TMP\_1014 = 0 not(TMP\_1014) = 1 TMP\_1015 = 0 not(TMP\_1015) = 1 TMP\_1016 = 0 TMP\_1017 = 1 not(TMP\_1017) = 0 TMP\_1018 = 1 not(TMP\_1018) = 0 TMP\_1019 = 2 TMP\_1020 = 0 not(TMP\_1020) = 1 TMP\_1021 = 0 not(TMP\_1021) = 1 TMP\_1022 = 1 not(TMP\_1022) = 0 TMP\_1023 = 1 not(TMP\_1023) = 0 TMP\_1024 = 1 not(TMP\_1024) = 0 TMP\_1025 = 2 TMP\_1026 = 0 not(TMP\_1026) = 1 TMP\_1027 = 1 not(TMP\_1027) = 0 TMP\_1028 = 1 not(TMP\_1028) = 0 TMP\_1029 = 1 not(TMP\_1029) = 0 TMP\_1030 = 1 not(TMP\_1030) = 0 TMP\_1031 = 0 not(TMP\_1031) = 1 TMP\_1032 = 4 TMP\_1033 = 0 not(TMP\_1033) = 1 TMP\_1034 = 0 not(TMP\_1034) = 1 TMP\_1035 = 0 TMP\_1036 = 1 not(TMP\_1036) = 0 TMP\_1037 = 1 not(TMP\_1037) = 0 TMP\_1038 = 2 TMP\_1039 = 0 not(TMP\_1039) = 1 TMP\_1040 = 0 not(TMP\_1040) = 1 TMP\_1041 = 1 not(TMP\_1041) = 0 TMP\_1042 = 1 not(TMP\_1042) = 0 TMP\_1043 = 1 not(TMP\_1043) = 0 TMP\_1044 = 2 Area\_0 = 60 Distance\_0\_Rule\_0 = 20 Distance\_1\_Rule\_0 = 3 Distance\_2\_Rule\_0 = 1 Area\_1 = 174 Distance\_0\_Rule\_1 = 58 Distance\_1\_Rule\_1 = 3 Distance\_2\_Rule\_1 = 1 Area\_2 = 116 Distance\_0\_Rule\_2 = 58 Distance\_1\_Rule\_2 = 2 Distance\_2\_Rule\_2 = 1 Area\_3 = 58 Distance\_0\_Rule\_3 = 58 Distance\_1\_Rule\_3 = 1 Distance\_2\_Rule\_3 = 1 Area\_4 = 120 Distance\_0\_Rule\_4 = 40 Distance\_1\_Rule\_4 = 3 Distance\_2\_Rule\_4 = 1 Area\_5 = 120 Distance\_0\_Rule\_5 = 40 Distance\_1\_Rule\_5 = 3 Distance\_2\_Rule\_5 = 1 Area\_6 = 60 Distance\_0\_Rule\_6 = 20 Distance\_1\_Rule\_6 = 3 Distance\_2\_Rule\_6 = 1 Area\_7 = 3 -(Rule\_7\_LB) = -79 Distance\_0\_Rule\_7 = 1 -(Rule\_7\_LB) = 0 Distance\_1\_Rule\_7 = 3 -(Rule\_7\_LB) = -1 Distance\_2\_Rule\_7 = 1 Area\_8 = 1 -(Rule\_8\_LB) = -79 Distance\_0\_Rule\_8 = 1 -(Rule\_8\_LB) = 0 Distance\_1\_Rule\_8 = 1 -(Rule\_8\_LB) = 0 Distance\_2\_Rule\_8 = 1 Area\_9 = 3 -(Rule\_9\_LB) = -20 Distance\_0\_Rule\_9 = 1 -(Rule\_9\_LB) = 0 Distance\_1\_Rule\_9 = 3 -(Rule\_9\_LB) = 0 Distance\_2\_Rule\_9 = 1 Area\_10 = 3 -(Rule\_10\_LB) = -20 Distance\_0\_Rule\_10 = 1 -(Rule\_10\_LB) = 0 Distance\_1\_Rule\_10 = 3 -(Rule\_10\_LB) = -1 Distance\_2\_Rule\_10 = 1 Area\_11 = 2 -(Rule\_11\_LB) = -79 Distance\_0\_Rule\_11 = 1 -(Rule\_11\_LB) = -1 Distance\_1\_Rule\_11 = 2 -(Rule\_11\_LB) = 0 Distance\_2\_Rule\_11 = 1 TMP\_1045 = 720 .

- Solution #20 found. 20 Solutions, Resolution 1.431s, 1493 Nodes (1,043.6 n/s), 2835 Backtracks, 1405 Fails, 0 Restarts

Rule\_7\_LB = 79 Rule\_7\_UB = 80 Rule\_7\_LB = 0 Rule\_7\_UB = 3 Rule\_7\_LB = 1 Rule\_7\_UB = 2 Rule\_8\_LB = 79 Rule\_8\_UB = 80 Rule\_8\_LB = 0 Rule\_8\_UB = 1 Rule\_8\_LB = 0 Rule\_8\_UB = 1 Rule\_9\_LB = 20 Rule\_9\_UB = 21 Rule\_9\_LB = 0 Rule\_9\_UB = 3 Rule\_9\_LB = 0 Rule\_9\_UB = 1 Rule\_10\_LB = 20 Rule\_10\_UB = 21 Rule\_10\_LB = 0 Rule\_10\_UB = 3 Rule\_10\_LB = 1 Rule\_10\_UB = 2 Rule\_11\_LB = 79 Rule\_11\_UB = 80 Rule\_11\_LB = 1 Rule\_11\_UB = 3 Rule\_11\_LB = 0 Rule\_11\_UB = 1 Overlaps\_0\_0 = 0 Overlaps\_0\_1 = 0 Overlaps\_0\_2 = 0 Overlaps\_0\_3 = 0 Overlaps\_0\_4 = 0 Overlaps\_0\_5 = 0 Overlaps\_0\_6 = 0 Overlaps\_0\_7 = 0 Overlaps\_0\_8 = 0 Overlaps\_0\_9 = 0 Overlaps\_0\_10 = 0 Overlaps\_0\_11 = 0 Overlaps\_1\_0 = 0 Overlaps\_1\_1 = 0 Overlaps\_1\_2 = 1 Overlaps\_1\_3 = 0 Overlaps\_1\_4 = 0 Overlaps\_1\_5 = 0 Overlaps\_1\_6 = 1 Overlaps\_1\_7 = 0 Overlaps\_1\_8 = 0 Overlaps\_1\_9 = 0 Overlaps\_1\_10 = 0 Overlaps\_1\_11 = 0 Overlaps\_2\_0 = 0 Overlaps\_2\_1 = 0 Overlaps\_2\_2 = 0 Overlaps\_2\_3 = 0 Overlaps\_2\_4 = 0 Overlaps\_2\_5 = 0 Overlaps\_2\_6 = 0 Overlaps\_2\_7 = 0 Overlaps\_2\_8 = 0 Overlaps\_2\_9 = 0 Overlaps\_2\_10 = 0 Overlaps\_2\_11 = 0 Overlaps\_3\_0 = 0 Overlaps\_3\_1 = 0 Overlaps\_3\_2 = 0 Overlaps\_3\_3 = 0 Overlaps\_3\_4 = 0 Overlaps\_3\_5 = 0 Overlaps\_3\_6 = 0 Overlaps\_3\_7 = 0 Overlaps\_3\_8 = 0 Overlaps\_3\_9 = 0 Overlaps\_3\_10 = 0 Overlaps\_3\_11 = 0 Overlaps\_4\_0 = 0 Overlaps\_4\_1 = 0 Overlaps\_4\_2 = 0 Overlaps\_4\_3 = 0 Overlaps\_4\_4 = 0 Overlaps\_4\_5 = 1 Overlaps\_4\_6 = 0 Overlaps\_4\_7 = 0 Overlaps\_4\_8 = 0 Overlaps\_4\_9 = 0 Overlaps\_4\_10 = 0 Overlaps\_4\_11 = 0 Overlaps\_5\_0 = 0 Overlaps\_5\_1 = 0 Overlaps\_5\_2 = 0 Overlaps\_5\_3 = 0 Overlaps\_5\_4 = 0 Overlaps\_5\_5 = 0 Overlaps\_5\_6 = 0 Overlaps\_5\_7 = 0 Overlaps\_5\_8 = 0 Overlaps\_5\_9 = 0 Overlaps\_5\_10 = 0 Overlaps\_5\_11 = 0 Overlaps\_6\_0 = 0 Overlaps\_6\_1 = 0 Overlaps\_6\_2 = 0 Overlaps\_6\_3 = 0 Overlaps\_6\_4 = 0 Overlaps\_6\_5 = 0 Overlaps\_6\_6 = 0 Overlaps\_6\_7 = 0 Overlaps\_6\_8 = 0 Overlaps\_6\_9 = 0 Overlaps\_6\_10 = 0 Overlaps\_6\_11 = 0 Overlaps\_7\_0 = 0 Overlaps\_7\_1 = 0 Overlaps\_7\_2 = 0 Overlaps\_7\_3 = 0 Overlaps\_7\_4 = 0 Overlaps\_7\_5 = 0 Overlaps\_7\_6 = 0 Overlaps\_7\_7 = 0 Overlaps\_7\_8 = 0 Overlaps\_7\_9 = 0 Overlaps\_7\_10 = 0 Overlaps\_7\_11 = 0 Overlaps\_8\_0 = 0 Overlaps\_8\_1 = 0 Overlaps\_8\_2 = 0 Overlaps\_8\_3 = 0 Overlaps\_8\_4 = 0 Overlaps\_8\_5 = 0 Overlaps\_8\_6 = 0 Overlaps\_8\_7 = 0 Overlaps\_8\_8 = 0 Overlaps\_8\_9 = 0 Overlaps\_8\_10 = 0 Overlaps\_8\_11 = 0 Overlaps\_9\_0 = 0 Overlaps\_9\_1 = 0 Overlaps\_9\_2 = 0 Overlaps\_9\_3 = 0 Overlaps\_9\_4 = 0 Overlaps\_9\_5 = 0 Overlaps\_9\_6 = 0 Overlaps\_9\_7 = 0 Overlaps\_9\_8 = 0 Overlaps\_9\_9 = 0 Overlaps\_9\_10 = 0 Overlaps\_9\_11 = 0 Overlaps\_10\_0 = 0 Overlaps\_10\_1 = 0 Overlaps\_10\_2 = 0 Overlaps\_10\_3 = 0 Overlaps\_10\_4 = 0 Overlaps\_10\_5 = 0 Overlaps\_10\_6 = 0 Overlaps\_10\_7 = 0 Overlaps\_10\_8 = 0 Overlaps\_10\_9 = 0 Overlaps\_10\_10 = 0 Overlaps\_10\_11 = 0 Overlaps\_11\_0 = 0 Overlaps\_11\_1 = 0 Overlaps\_11\_2 = 0 Overlaps\_11\_3 = 0 Overlaps\_11\_4 = 0 Overlaps\_11\_5 = 0 Overlaps\_11\_6 = 0 Overlaps\_11\_7 = 0 Overlaps\_11\_8 = 0 Overlaps\_11\_9 = 0 Overlaps\_11\_10 = 0 Overlaps\_11\_11 = 0 TMP\_0 = 0 not(TMP\_0) = 1 TMP\_1 = 1 not(TMP\_1) = 0 TMP\_2 = 1 not(TMP\_2) = 0 TMP\_3 = 1 not(TMP\_3) = 0 TMP\_4 = 1 not(TMP\_4) = 0 TMP\_5 = 1 not(TMP\_5) = 0 TMP\_6 = 5 TMP\_7 = 0 not(TMP\_7) = 1 TMP\_8 = 0 not(TMP\_8) = 1 TMP\_9 = 0 TMP\_10 = 1 not(TMP\_10) = 0 TMP\_11 = 1 not(TMP\_11) = 0 TMP\_12 = 2 TMP\_13 = 0 not(TMP\_13) = 1 TMP\_14 = 0 not(TMP\_14) = 1 TMP\_15 = 1 not(TMP\_15) = 0 TMP\_16 = 1 not(TMP\_16) = 0 TMP\_17 = 1 not(TMP\_17) = 0 TMP\_18 = 2 TMP\_19 = 0 not(TMP\_19) = 1 TMP\_20 = 1 not(TMP\_20) = 0 TMP\_21 = 1 not(TMP\_21) = 0 TMP\_22 = 1 not(TMP\_22) = 0 TMP\_23 = 1 not(TMP\_23) = 0 TMP\_24 = 1 not(TMP\_24) = 0 TMP\_25 = 5 TMP\_26 = 0 not(TMP\_26) = 1 TMP\_27 = 0 not(TMP\_27) = 1 TMP\_28 = 0 TMP\_29 = 1 not(TMP\_29) = 0 TMP\_30 = 1 not(TMP\_30) = 0 TMP\_31 = 2 TMP\_32 = 0 not(TMP\_32) = 1 TMP\_33 = 0 not(TMP\_33) = 1 TMP\_34 = 1 not(TMP\_34) = 0 TMP\_35 = 1 not(TMP\_35) = 0 TMP\_36 = 1 not(TMP\_36) = 0 TMP\_37 = 2 TMP\_38 = 0 not(TMP\_38) = 1 TMP\_39 = 1 not(TMP\_39) = 0 TMP\_40 = 1 not(TMP\_40) = 0 TMP\_41 = 1 not(TMP\_41) = 0 TMP\_42 = 0 not(TMP\_42) = 1 TMP\_43 = 1 not(TMP\_43) = 0 TMP\_44 = 4 TMP\_45 = 0 not(TMP\_45) = 1 TMP\_46 = 0 not(TMP\_46) = 1 TMP\_47 = 0 TMP\_48 = 1 not(TMP\_48) = 0 TMP\_49 = 1 not(TMP\_49) = 0 TMP\_50 = 2 TMP\_51 = 0 not(TMP\_51) = 1 TMP\_52 = 0 not(TMP\_52) = 1 TMP\_53 = 1 not(TMP\_53) = 0 TMP\_54 = 1 not(TMP\_54) = 0 TMP\_55 = 1 not(TMP\_55) = 0 TMP\_56 = 2 TMP\_57 = 0 not(TMP\_57) = 1 TMP\_58 = 1 not(TMP\_58) = 0 TMP\_59 = 1 not(TMP\_59) = 0 TMP\_60 = 1 not(TMP\_60) = 0 TMP\_61 = 0 not(TMP\_61) = 1 TMP\_62 = 1 not(TMP\_62) = 0 TMP\_63 = 4 TMP\_64 = 0 not(TMP\_64) = 1 TMP\_65 = 0 not(TMP\_65) = 1 TMP\_66 = 0 TMP\_67 = 1 not(TMP\_67) = 0 TMP\_68 = 1 not(TMP\_68) = 0 TMP\_69 = 2 TMP\_70 = 0 not(TMP\_70) = 1 TMP\_71 = 0 not(TMP\_71) = 1 TMP\_72 = 1 not(TMP\_72) = 0 TMP\_73 = 1 not(TMP\_73) = 0 TMP\_74 = 1 not(TMP\_74) = 0 TMP\_75 = 2 TMP\_76 = 1 not(TMP\_76) = 0 TMP\_77 = 0 not(TMP\_77) = 1 TMP\_78 = 1 not(TMP\_78) = 0 TMP\_79 = 1 not(TMP\_79) = 0 TMP\_80 = 0 not(TMP\_80) = 1 TMP\_81 = 1 not(TMP\_81) = 0 TMP\_82 = 4 TMP\_83 = 0 not(TMP\_83) = 1 TMP\_84 = 0 not(TMP\_84) = 1 TMP\_85 = 0 TMP\_86 = 1 not(TMP\_86) = 0 TMP\_87 = 1 not(TMP\_87) = 0 TMP\_88 = 2 TMP\_89 = 0 not(TMP\_89) = 1 TMP\_90 = 0 not(TMP\_90) = 1 TMP\_91 = 1 not(TMP\_91) = 0 TMP\_92 = 1 not(TMP\_92) = 0 TMP\_93 = 1 not(TMP\_93) = 0 TMP\_94 = 2 TMP\_95 = 1 not(TMP\_95) = 0 TMP\_96 = 0 not(TMP\_96) = 1 TMP\_97 = 1 not(TMP\_97) = 0 TMP\_98 = 1 not(TMP\_98) = 0 TMP\_99 = 1 not(TMP\_99) = 0 TMP\_100 = 1 not(TMP\_100) = 0 TMP\_101 = 5 TMP\_102 = 0 not(TMP\_102) = 1 TMP\_103 = 0 not(TMP\_103) = 1 TMP\_104 = 0 TMP\_105 = 1 not(TMP\_105) = 0 TMP\_106 = 1 not(TMP\_106) = 0 TMP\_107 = 2 TMP\_108 = 0 not(TMP\_108) = 1 TMP\_109 = 0 not(TMP\_109) = 1 TMP\_110 = 1 not(TMP\_110) = 0 TMP\_111 = 1 not(TMP\_111) = 0 TMP\_112 = 1 not(TMP\_112) = 0 TMP\_113 = 2 TMP\_114 = 0 not(TMP\_114) = 1 TMP\_115 = 1 not(TMP\_115) = 0 TMP\_116 = 1 not(TMP\_116) = 0 TMP\_117 = 1 not(TMP\_117) = 0 TMP\_118 = 0 not(TMP\_118) = 1 TMP\_119 = 1 not(TMP\_119) = 0 TMP\_120 = 4 TMP\_121 = 0 not(TMP\_121) = 1 TMP\_122 = 0 not(TMP\_122) = 1 TMP\_123 = 0 TMP\_124 = 1 not(TMP\_124) = 0 TMP\_125 = 1 not(TMP\_125) = 0 TMP\_126 = 2 TMP\_127 = 0 not(TMP\_127) = 1 TMP\_128 = 0 not(TMP\_128) = 1 TMP\_129 = 1 not(TMP\_129) = 0 TMP\_130 = 1 not(TMP\_130) = 0 TMP\_131 = 1 not(TMP\_131) = 0 TMP\_132 = 2 TMP\_133 = 1 not(TMP\_133) = 0 TMP\_134 = 1 not(TMP\_134) = 0 TMP\_135 = 1 not(TMP\_135) = 0 TMP\_136 = 1 not(TMP\_136) = 0 TMP\_137 = 0 not(TMP\_137) = 1 TMP\_138 = 1 not(TMP\_138) = 0 TMP\_139 = 5 TMP\_140 = 0 not(TMP\_140) = 1 TMP\_141 = 0 not(TMP\_141) = 1 TMP\_142 = 0 TMP\_143 = 1 not(TMP\_143) = 0 TMP\_144 = 1 not(TMP\_144) = 0 TMP\_145 = 2 TMP\_146 = 0 not(TMP\_146) = 1 TMP\_147 = 0 not(TMP\_147) = 1 TMP\_148 = 1 not(TMP\_148) = 0 TMP\_149 = 1 not(TMP\_149) = 0 TMP\_150 = 1 not(TMP\_150) = 0 TMP\_151 = 2 TMP\_152 = 0 not(TMP\_152) = 1 TMP\_153 = 1 not(TMP\_153) = 0 TMP\_154 = 1 not(TMP\_154) = 0 TMP\_155 = 1 not(TMP\_155) = 0 TMP\_156 = 0 not(TMP\_156) = 1 TMP\_157 = 1 not(TMP\_157) = 0 TMP\_158 = 4 TMP\_159 = 0 not(TMP\_159) = 1 TMP\_160 = 0 not(TMP\_160) = 1 TMP\_161 = 0 TMP\_162 = 1 not(TMP\_162) = 0 TMP\_163 = 1 not(TMP\_163) = 0 TMP\_164 = 2 TMP\_165 = 0 not(TMP\_165) = 1 TMP\_166 = 0 not(TMP\_166) = 1 TMP\_167 = 1 not(TMP\_167) = 0 TMP\_168 = 1 not(TMP\_168) = 0 TMP\_169 = 1 not(TMP\_169) = 0 TMP\_170 = 2 TMP\_171 = 0 not(TMP\_171) = 1 TMP\_172 = 1 not(TMP\_172) = 0 TMP\_173 = 1 not(TMP\_173) = 0 TMP\_174 = 1 not(TMP\_174) = 0 TMP\_175 = 1 not(TMP\_175) = 0 TMP\_176 = 1 not(TMP\_176) = 0 TMP\_177 = 5 TMP\_178 = 0 not(TMP\_178) = 1 TMP\_179 = 0 not(TMP\_179) = 1 TMP\_180 = 0 TMP\_181 = 1 not(TMP\_181) = 0 TMP\_182 = 1 not(TMP\_182) = 0 TMP\_183 = 2 TMP\_184 = 0 not(TMP\_184) = 1 TMP\_185 = 0 not(TMP\_185) = 1 TMP\_186 = 1 not(TMP\_186) = 0 TMP\_187 = 1 not(TMP\_187) = 0 TMP\_188 = 1 not(TMP\_188) = 0 TMP\_189 = 2 TMP\_190 = 1 not(TMP\_190) = 0 TMP\_191 = 1 not(TMP\_191) = 0 TMP\_192 = 1 not(TMP\_192) = 0 TMP\_193 = 1 not(TMP\_193) = 0 TMP\_194 = 0 not(TMP\_194) = 1 TMP\_195 = 1 not(TMP\_195) = 0 TMP\_196 = 5 TMP\_197 = 0 not(TMP\_197) = 1 TMP\_198 = 0 not(TMP\_198) = 1 TMP\_199 = 0 TMP\_200 = 1 not(TMP\_200) = 0 TMP\_201 = 1 not(TMP\_201) = 0 TMP\_202 = 2 TMP\_203 = 0 not(TMP\_203) = 1 TMP\_204 = 0 not(TMP\_204) = 1 TMP\_205 = 1 not(TMP\_205) = 0 TMP\_206 = 1 not(TMP\_206) = 0 TMP\_207 = 1 not(TMP\_207) = 0 TMP\_208 = 2 TMP\_209 = 0 not(TMP\_209) = 1 TMP\_210 = 1 not(TMP\_210) = 0 TMP\_211 = 1 not(TMP\_211) = 0 TMP\_212 = 1 not(TMP\_212) = 0 TMP\_213 = 1 not(TMP\_213) = 0 TMP\_214 = 0 not(TMP\_214) = 1 TMP\_215 = 4 TMP\_216 = 0 not(TMP\_216) = 1 TMP\_217 = 0 not(TMP\_217) = 1 TMP\_218 = 0 TMP\_219 = 1 not(TMP\_219) = 0 TMP\_220 = 1 not(TMP\_220) = 0 TMP\_221 = 2 TMP\_222 = 0 not(TMP\_222) = 1 TMP\_223 = 0 not(TMP\_223) = 1 TMP\_224 = 1 not(TMP\_224) = 0 TMP\_225 = 1 not(TMP\_225) = 0 TMP\_226 = 1 not(TMP\_226) = 0 TMP\_227 = 2 TMP\_228 = 0 not(TMP\_228) = 1 TMP\_229 = 1 not(TMP\_229) = 0 TMP\_230 = 1 not(TMP\_230) = 0 TMP\_231 = 1 not(TMP\_231) = 0 TMP\_232 = 1 not(TMP\_232) = 0 TMP\_233 = 0 not(TMP\_233) = 1 TMP\_234 = 4 TMP\_235 = 0 not(TMP\_235) = 1 TMP\_236 = 0 not(TMP\_236) = 1 TMP\_237 = 0 TMP\_238 = 1 not(TMP\_238) = 0 TMP\_239 = 1 not(TMP\_239) = 0 TMP\_240 = 2 TMP\_241 = 0 not(TMP\_241) = 1 TMP\_242 = 0 not(TMP\_242) = 1 TMP\_243 = 1 not(TMP\_243) = 0 TMP\_244 = 1 not(TMP\_244) = 0 TMP\_245 = 1 not(TMP\_245) = 0 TMP\_246 = 2 TMP\_247 = 0 not(TMP\_247) = 1 TMP\_248 = 1 not(TMP\_248) = 0 TMP\_249 = 1 not(TMP\_249) = 0 TMP\_250 = 0 not(TMP\_250) = 1 TMP\_251 = 1 not(TMP\_251) = 0 TMP\_252 = 1 not(TMP\_252) = 0 TMP\_253 = 4 TMP\_254 = 0 not(TMP\_254) = 1 TMP\_255 = 0 not(TMP\_255) = 1 TMP\_256 = 0 TMP\_257 = 1 not(TMP\_257) = 0 TMP\_258 = 1 not(TMP\_258) = 0 TMP\_259 = 2 TMP\_260 = 0 not(TMP\_260) = 1 TMP\_261 = 0 not(TMP\_261) = 1 TMP\_262 = 1 not(TMP\_262) = 0 TMP\_263 = 1 not(TMP\_263) = 0 TMP\_264 = 1 not(TMP\_264) = 0 TMP\_265 = 2 TMP\_266 = 0 not(TMP\_266) = 1 TMP\_267 = 1 not(TMP\_267) = 0 TMP\_268 = 1 not(TMP\_268) = 0 TMP\_269 = 1 not(TMP\_269) = 0 TMP\_270 = 1 not(TMP\_270) = 0 TMP\_271 = 1 not(TMP\_271) = 0 TMP\_272 = 5 TMP\_273 = 0 not(TMP\_273) = 1 TMP\_274 = 0 not(TMP\_274) = 1 TMP\_275 = 0 TMP\_276 = 1 not(TMP\_276) = 0 TMP\_277 = 1 not(TMP\_277) = 0 TMP\_278 = 2 TMP\_279 = 0 not(TMP\_279) = 1 TMP\_280 = 0 not(TMP\_280) = 1 TMP\_281 = 1 not(TMP\_281) = 0 TMP\_282 = 1 not(TMP\_282) = 0 TMP\_283 = 1 not(TMP\_283) = 0 TMP\_284 = 2 TMP\_285 = 1 not(TMP\_285) = 0 TMP\_286 = 0 not(TMP\_286) = 1 TMP\_287 = 1 not(TMP\_287) = 0 TMP\_288 = 1 not(TMP\_288) = 0 TMP\_289 = 1 not(TMP\_289) = 0 TMP\_290 = 1 not(TMP\_290) = 0 TMP\_291 = 5 TMP\_292 = 0 not(TMP\_292) = 1 TMP\_293 = 0 not(TMP\_293) = 1 TMP\_294 = 0 TMP\_295 = 1 not(TMP\_295) = 0 TMP\_296 = 1 not(TMP\_296) = 0 TMP\_297 = 2 TMP\_298 = 0 not(TMP\_298) = 1 TMP\_299 = 0 not(TMP\_299) = 1 TMP\_300 = 1 not(TMP\_300) = 0 TMP\_301 = 1 not(TMP\_301) = 0 TMP\_302 = 1 not(TMP\_302) = 0 TMP\_303 = 2 TMP\_304 = 1 not(TMP\_304) = 0 TMP\_305 = 0 not(TMP\_305) = 1 TMP\_306 = 1 not(TMP\_306) = 0 TMP\_307 = 1 not(TMP\_307) = 0 TMP\_308 = 1 not(TMP\_308) = 0 TMP\_309 = 0 not(TMP\_309) = 1 TMP\_310 = 4 TMP\_311 = 0 not(TMP\_311) = 1 TMP\_312 = 0 not(TMP\_312) = 1 TMP\_313 = 0 TMP\_314 = 1 not(TMP\_314) = 0 TMP\_315 = 1 not(TMP\_315) = 0 TMP\_316 = 2 TMP\_317 = 0 not(TMP\_317) = 1 TMP\_318 = 0 not(TMP\_318) = 1 TMP\_319 = 1 not(TMP\_319) = 0 TMP\_320 = 1 not(TMP\_320) = 0 TMP\_321 = 1 not(TMP\_321) = 0 TMP\_322 = 2 TMP\_323 = 0 not(TMP\_323) = 1 TMP\_324 = 1 not(TMP\_324) = 0 TMP\_325 = 1 not(TMP\_325) = 0 TMP\_326 = 1 not(TMP\_326) = 0 TMP\_327 = 1 not(TMP\_327) = 0 TMP\_328 = 1 not(TMP\_328) = 0 TMP\_329 = 5 TMP\_330 = 0 not(TMP\_330) = 1 TMP\_331 = 0 not(TMP\_331) = 1 TMP\_332 = 0 TMP\_333 = 1 not(TMP\_333) = 0 TMP\_334 = 1 not(TMP\_334) = 0 TMP\_335 = 2 TMP\_336 = 0 not(TMP\_336) = 1 TMP\_337 = 0 not(TMP\_337) = 1 TMP\_338 = 1 not(TMP\_338) = 0 TMP\_339 = 1 not(TMP\_339) = 0 TMP\_340 = 1 not(TMP\_340) = 0 TMP\_341 = 2 TMP\_342 = 1 not(TMP\_342) = 0 TMP\_343 = 1 not(TMP\_343) = 0 TMP\_344 = 1 not(TMP\_344) = 0 TMP\_345 = 1 not(TMP\_345) = 0 TMP\_346 = 1 not(TMP\_346) = 0 TMP\_347 = 0 not(TMP\_347) = 1 TMP\_348 = 5 TMP\_349 = 0 not(TMP\_349) = 1 TMP\_350 = 0 not(TMP\_350) = 1 TMP\_351 = 0 TMP\_352 = 1 not(TMP\_352) = 0 TMP\_353 = 1 not(TMP\_353) = 0 TMP\_354 = 2 TMP\_355 = 0 not(TMP\_355) = 1 TMP\_356 = 0 not(TMP\_356) = 1 TMP\_357 = 1 not(TMP\_357) = 0 TMP\_358 = 1 not(TMP\_358) = 0 TMP\_359 = 1 not(TMP\_359) = 0 TMP\_360 = 2 TMP\_361 = 0 not(TMP\_361) = 1 TMP\_362 = 1 not(TMP\_362) = 0 TMP\_363 = 1 not(TMP\_363) = 0 TMP\_364 = 1 not(TMP\_364) = 0 TMP\_365 = 1 not(TMP\_365) = 0 TMP\_366 = 1 not(TMP\_366) = 0 TMP\_367 = 5 TMP\_368 = 0 not(TMP\_368) = 1 TMP\_369 = 0 not(TMP\_369) = 1 TMP\_370 = 0 TMP\_371 = 1 not(TMP\_371) = 0 TMP\_372 = 1 not(TMP\_372) = 0 TMP\_373 = 2 TMP\_374 = 0 not(TMP\_374) = 1 TMP\_375 = 0 not(TMP\_375) = 1 TMP\_376 = 1 not(TMP\_376) = 0 TMP\_377 = 1 not(TMP\_377) = 0 TMP\_378 = 1 not(TMP\_378) = 0 TMP\_379 = 2 TMP\_380 = 0 not(TMP\_380) = 1 TMP\_381 = 1 not(TMP\_381) = 0 TMP\_382 = 1 not(TMP\_382) = 0 TMP\_383 = 1 not(TMP\_383) = 0 TMP\_384 = 1 not(TMP\_384) = 0 TMP\_385 = 0 not(TMP\_385) = 1 TMP\_386 = 4 TMP\_387 = 0 not(TMP\_387) = 1 TMP\_388 = 0 not(TMP\_388) = 1 TMP\_389 = 0 TMP\_390 = 1 not(TMP\_390) = 0 TMP\_391 = 1 not(TMP\_391) = 0 TMP\_392 = 2 TMP\_393 = 0 not(TMP\_393) = 1 TMP\_394 = 0 not(TMP\_394) = 1 TMP\_395 = 1 not(TMP\_395) = 0 TMP\_396 = 1 not(TMP\_396) = 0 TMP\_397 = 1 not(TMP\_397) = 0 TMP\_398 = 2 TMP\_399 = 1 not(TMP\_399) = 0 TMP\_400 = 1 not(TMP\_400) = 0 TMP\_401 = 1 not(TMP\_401) = 0 TMP\_402 = 0 not(TMP\_402) = 1 TMP\_403 = 1 not(TMP\_403) = 0 TMP\_404 = 1 not(TMP\_404) = 0 TMP\_405 = 5 TMP\_406 = 0 not(TMP\_406) = 1 TMP\_407 = 0 not(TMP\_407) = 1 TMP\_408 = 0 TMP\_409 = 1 not(TMP\_409) = 0 TMP\_410 = 1 not(TMP\_410) = 0 TMP\_411 = 2 TMP\_412 = 0 not(TMP\_412) = 1 TMP\_413 = 0 not(TMP\_413) = 1 TMP\_414 = 1 not(TMP\_414) = 0 TMP\_415 = 1 not(TMP\_415) = 0 TMP\_416 = 1 not(TMP\_416) = 0 TMP\_417 = 2 TMP\_418 = 0 not(TMP\_418) = 1 TMP\_419 = 1 not(TMP\_419) = 0 TMP\_420 = 1 not(TMP\_420) = 0 TMP\_421 = 1 not(TMP\_421) = 0 TMP\_422 = 1 not(TMP\_422) = 0 TMP\_423 = 0 not(TMP\_423) = 1 TMP\_424 = 4 TMP\_425 = 0 not(TMP\_425) = 1 TMP\_426 = 0 not(TMP\_426) = 1 TMP\_427 = 0 TMP\_428 = 1 not(TMP\_428) = 0 TMP\_429 = 1 not(TMP\_429) = 0 TMP\_430 = 2 TMP\_431 = 0 not(TMP\_431) = 1 TMP\_432 = 0 not(TMP\_432) = 1 TMP\_433 = 1 not(TMP\_433) = 0 TMP\_434 = 1 not(TMP\_434) = 0 TMP\_435 = 1 not(TMP\_435) = 0 TMP\_436 = 2 TMP\_437 = 1 not(TMP\_437) = 0 TMP\_438 = 0 not(TMP\_438) = 1 TMP\_439 = 1 not(TMP\_439) = 0 TMP\_440 = 1 not(TMP\_440) = 0 TMP\_441 = 1 not(TMP\_441) = 0 TMP\_442 = 0 not(TMP\_442) = 1 TMP\_443 = 4 TMP\_444 = 0 not(TMP\_444) = 1 TMP\_445 = 0 not(TMP\_445) = 1 TMP\_446 = 0 TMP\_447 = 1 not(TMP\_447) = 0 TMP\_448 = 1 not(TMP\_448) = 0 TMP\_449 = 2 TMP\_450 = 0 not(TMP\_450) = 1 TMP\_451 = 0 not(TMP\_451) = 1 TMP\_452 = 1 not(TMP\_452) = 0 TMP\_453 = 1 not(TMP\_453) = 0 TMP\_454 = 1 not(TMP\_454) = 0 TMP\_455 = 2 TMP\_456 = 1 not(TMP\_456) = 0 TMP\_457 = 0 not(TMP\_457) = 1 TMP\_458 = 1 not(TMP\_458) = 0 TMP\_459 = 1 not(TMP\_459) = 0 TMP\_460 = 1 not(TMP\_460) = 0 TMP\_461 = 1 not(TMP\_461) = 0 TMP\_462 = 5 TMP\_463 = 0 not(TMP\_463) = 1 TMP\_464 = 0 not(TMP\_464) = 1 TMP\_465 = 0 TMP\_466 = 1 not(TMP\_466) = 0 TMP\_467 = 1 not(TMP\_467) = 0 TMP\_468 = 2 TMP\_469 = 0 not(TMP\_469) = 1 TMP\_470 = 0 not(TMP\_470) = 1 TMP\_471 = 1 not(TMP\_471) = 0 TMP\_472 = 1 not(TMP\_472) = 0 TMP\_473 = 1 not(TMP\_473) = 0 TMP\_474 = 2 TMP\_475 = 1 not(TMP\_475) = 0 TMP\_476 = 0 not(TMP\_476) = 1 TMP\_477 = 1 not(TMP\_477) = 0 TMP\_478 = 1 not(TMP\_478) = 0 TMP\_479 = 1 not(TMP\_479) = 0 TMP\_480 = 1 not(TMP\_480) = 0 TMP\_481 = 5 TMP\_482 = 0 not(TMP\_482) = 1 TMP\_483 = 0 not(TMP\_483) = 1 TMP\_484 = 0 TMP\_485 = 1 not(TMP\_485) = 0 TMP\_486 = 1 not(TMP\_486) = 0 TMP\_487 = 2 TMP\_488 = 0 not(TMP\_488) = 1 TMP\_489 = 0 not(TMP\_489) = 1 TMP\_490 = 1 not(TMP\_490) = 0 TMP\_491 = 1 not(TMP\_491) = 0 TMP\_492 = 1 not(TMP\_492) = 0 TMP\_493 = 2 TMP\_494 = 1 not(TMP\_494) = 0 TMP\_495 = 0 not(TMP\_495) = 1 TMP\_496 = 1 not(TMP\_496) = 0 TMP\_497 = 1 not(TMP\_497) = 0 TMP\_498 = 1 not(TMP\_498) = 0 TMP\_499 = 1 not(TMP\_499) = 0 TMP\_500 = 5 TMP\_501 = 0 not(TMP\_501) = 1 TMP\_502 = 0 not(TMP\_502) = 1 TMP\_503 = 0 TMP\_504 = 1 not(TMP\_504) = 0 TMP\_505 = 1 not(TMP\_505) = 0 TMP\_506 = 2 TMP\_507 = 0 not(TMP\_507) = 1 TMP\_508 = 0 not(TMP\_508) = 1 TMP\_509 = 1 not(TMP\_509) = 0 TMP\_510 = 1 not(TMP\_510) = 0 TMP\_511 = 1 not(TMP\_511) = 0 TMP\_512 = 2 TMP\_513 = 1 not(TMP\_513) = 0 TMP\_514 = 0 not(TMP\_514) = 1 TMP\_515 = 1 not(TMP\_515) = 0 TMP\_516 = 1 not(TMP\_516) = 0 TMP\_517 = 1 not(TMP\_517) = 0 TMP\_518 = 0 not(TMP\_518) = 1 TMP\_519 = 4 TMP\_520 = 0 not(TMP\_520) = 1 TMP\_521 = 0 not(TMP\_521) = 1 TMP\_522 = 0 TMP\_523 = 1 not(TMP\_523) = 0 TMP\_524 = 1 not(TMP\_524) = 0 TMP\_525 = 2 TMP\_526 = 0 not(TMP\_526) = 1 TMP\_527 = 0 not(TMP\_527) = 1 TMP\_528 = 1 not(TMP\_528) = 0 TMP\_529 = 1 not(TMP\_529) = 0 TMP\_530 = 1 not(TMP\_530) = 0 TMP\_531 = 2 TMP\_532 = 0 not(TMP\_532) = 1 TMP\_533 = 1 not(TMP\_533) = 0 TMP\_534 = 1 not(TMP\_534) = 0 TMP\_535 = 1 not(TMP\_535) = 0 TMP\_536 = 1 not(TMP\_536) = 0 TMP\_537 = 1 not(TMP\_537) = 0 TMP\_538 = 5 TMP\_539 = 0 not(TMP\_539) = 1 TMP\_540 = 0 not(TMP\_540) = 1 TMP\_541 = 0 TMP\_542 = 1 not(TMP\_542) = 0 TMP\_543 = 1 not(TMP\_543) = 0 TMP\_544 = 2 TMP\_545 = 0 not(TMP\_545) = 1 TMP\_546 = 0 not(TMP\_546) = 1 TMP\_547 = 1 not(TMP\_547) = 0 TMP\_548 = 1 not(TMP\_548) = 0 TMP\_549 = 1 not(TMP\_549) = 0 TMP\_550 = 2 TMP\_551 = 1 not(TMP\_551) = 0 TMP\_552 = 0 not(TMP\_552) = 1 TMP\_553 = 1 not(TMP\_553) = 0 TMP\_554 = 1 not(TMP\_554) = 0 TMP\_555 = 1 not(TMP\_555) = 0 TMP\_556 = 0 not(TMP\_556) = 1 TMP\_557 = 4 TMP\_558 = 0 not(TMP\_558) = 1 TMP\_559 = 0 not(TMP\_559) = 1 TMP\_560 = 0 TMP\_561 = 1 not(TMP\_561) = 0 TMP\_562 = 1 not(TMP\_562) = 0 TMP\_563 = 2 TMP\_564 = 0 not(TMP\_564) = 1 TMP\_565 = 0 not(TMP\_565) = 1 TMP\_566 = 1 not(TMP\_566) = 0 TMP\_567 = 1 not(TMP\_567) = 0 TMP\_568 = 1 not(TMP\_568) = 0 TMP\_569 = 2 TMP\_570 = 1 not(TMP\_570) = 0 TMP\_571 = 0 not(TMP\_571) = 1 TMP\_572 = 1 not(TMP\_572) = 0 TMP\_573 = 1 not(TMP\_573) = 0 TMP\_574 = 1 not(TMP\_574) = 0 TMP\_575 = 1 not(TMP\_575) = 0 TMP\_576 = 5 TMP\_577 = 0 not(TMP\_577) = 1 TMP\_578 = 0 not(TMP\_578) = 1 TMP\_579 = 0 TMP\_580 = 1 not(TMP\_580) = 0 TMP\_581 = 1 not(TMP\_581) = 0 TMP\_582 = 2 TMP\_583 = 0 not(TMP\_583) = 1 TMP\_584 = 0 not(TMP\_584) = 1 TMP\_585 = 1 not(TMP\_585) = 0 TMP\_586 = 1 not(TMP\_586) = 0 TMP\_587 = 1 not(TMP\_587) = 0 TMP\_588 = 2 TMP\_589 = 1 not(TMP\_589) = 0 TMP\_590 = 1 not(TMP\_590) = 0 TMP\_591 = 1 not(TMP\_591) = 0 TMP\_592 = 1 not(TMP\_592) = 0 TMP\_593 = 1 not(TMP\_593) = 0 TMP\_594 = 0 not(TMP\_594) = 1 TMP\_595 = 5 TMP\_596 = 0 not(TMP\_596) = 1 TMP\_597 = 0 not(TMP\_597) = 1 TMP\_598 = 0 TMP\_599 = 1 not(TMP\_599) = 0 TMP\_600 = 1 not(TMP\_600) = 0 TMP\_601 = 2 TMP\_602 = 0 not(TMP\_602) = 1 TMP\_603 = 0 not(TMP\_603) = 1 TMP\_604 = 1 not(TMP\_604) = 0 TMP\_605 = 1 not(TMP\_605) = 0 TMP\_606 = 1 not(TMP\_606) = 0 TMP\_607 = 2 TMP\_608 = 1 not(TMP\_608) = 0 TMP\_609 = 0 not(TMP\_609) = 1 TMP\_610 = 1 not(TMP\_610) = 0 TMP\_611 = 1 not(TMP\_611) = 0 TMP\_612 = 1 not(TMP\_612) = 0 TMP\_613 = 1 not(TMP\_613) = 0 TMP\_614 = 5 TMP\_615 = 0 not(TMP\_615) = 1 TMP\_616 = 0 not(TMP\_616) = 1 TMP\_617 = 0 TMP\_618 = 1 not(TMP\_618) = 0 TMP\_619 = 1 not(TMP\_619) = 0 TMP\_620 = 2 TMP\_621 = 0 not(TMP\_621) = 1 TMP\_622 = 0 not(TMP\_622) = 1 TMP\_623 = 1 not(TMP\_623) = 0 TMP\_624 = 1 not(TMP\_624) = 0 TMP\_625 = 1 not(TMP\_625) = 0 TMP\_626 = 2 TMP\_627 = 0 not(TMP\_627) = 1 TMP\_628 = 1 not(TMP\_628) = 0 TMP\_629 = 1 not(TMP\_629) = 0 TMP\_630 = 1 not(TMP\_630) = 0 TMP\_631 = 1 not(TMP\_631) = 0 TMP\_632 = 1 not(TMP\_632) = 0 TMP\_633 = 5 TMP\_634 = 0 not(TMP\_634) = 1 TMP\_635 = 0 not(TMP\_635) = 1 TMP\_636 = 0 TMP\_637 = 1 not(TMP\_637) = 0 TMP\_638 = 1 not(TMP\_638) = 0 TMP\_639 = 2 TMP\_640 = 0 not(TMP\_640) = 1 TMP\_641 = 0 not(TMP\_641) = 1 TMP\_642 = 1 not(TMP\_642) = 0 TMP\_643 = 1 not(TMP\_643) = 0 TMP\_644 = 1 not(TMP\_644) = 0 TMP\_645 = 2 TMP\_646 = 1 not(TMP\_646) = 0 TMP\_647 = 0 not(TMP\_647) = 1 TMP\_648 = 1 not(TMP\_648) = 0 TMP\_649 = 1 not(TMP\_649) = 0 TMP\_650 = 1 not(TMP\_650) = 0 TMP\_651 = 1 not(TMP\_651) = 0 TMP\_652 = 5 TMP\_653 = 0 not(TMP\_653) = 1 TMP\_654 = 0 not(TMP\_654) = 1 TMP\_655 = 0 TMP\_656 = 1 not(TMP\_656) = 0 TMP\_657 = 1 not(TMP\_657) = 0 TMP\_658 = 2 TMP\_659 = 0 not(TMP\_659) = 1 TMP\_660 = 0 not(TMP\_660) = 1 TMP\_661 = 1 not(TMP\_661) = 0 TMP\_662 = 1 not(TMP\_662) = 0 TMP\_663 = 1 not(TMP\_663) = 0 TMP\_664 = 2 TMP\_665 = 1 not(TMP\_665) = 0 TMP\_666 = 0 not(TMP\_666) = 1 TMP\_667 = 1 not(TMP\_667) = 0 TMP\_668 = 1 not(TMP\_668) = 0 TMP\_669 = 0 not(TMP\_669) = 1 TMP\_670 = 1 not(TMP\_670) = 0 TMP\_671 = 4 TMP\_672 = 0 not(TMP\_672) = 1 TMP\_673 = 0 not(TMP\_673) = 1 TMP\_674 = 0 TMP\_675 = 1 not(TMP\_675) = 0 TMP\_676 = 1 not(TMP\_676) = 0 TMP\_677 = 2 TMP\_678 = 0 not(TMP\_678) = 1 TMP\_679 = 0 not(TMP\_679) = 1 TMP\_680 = 1 not(TMP\_680) = 0 TMP\_681 = 1 not(TMP\_681) = 0 TMP\_682 = 1 not(TMP\_682) = 0 TMP\_683 = 2 TMP\_684 = 1 not(TMP\_684) = 0 TMP\_685 = 0 not(TMP\_685) = 1 TMP\_686 = 1 not(TMP\_686) = 0 TMP\_687 = 1 not(TMP\_687) = 0 TMP\_688 = 0 not(TMP\_688) = 1 TMP\_689 = 1 not(TMP\_689) = 0 TMP\_690 = 4 TMP\_691 = 0 not(TMP\_691) = 1 TMP\_692 = 0 not(TMP\_692) = 1 TMP\_693 = 0 TMP\_694 = 1 not(TMP\_694) = 0 TMP\_695 = 1 not(TMP\_695) = 0 TMP\_696 = 2 TMP\_697 = 0 not(TMP\_697) = 1 TMP\_698 = 0 not(TMP\_698) = 1 TMP\_699 = 1 not(TMP\_699) = 0 TMP\_700 = 1 not(TMP\_700) = 0 TMP\_701 = 1 not(TMP\_701) = 0 TMP\_702 = 2 TMP\_703 = 1 not(TMP\_703) = 0 TMP\_704 = 0 not(TMP\_704) = 1 TMP\_705 = 1 not(TMP\_705) = 0 TMP\_706 = 1 not(TMP\_706) = 0 TMP\_707 = 0 not(TMP\_707) = 1 TMP\_708 = 1 not(TMP\_708) = 0 TMP\_709 = 4 TMP\_710 = 0 not(TMP\_710) = 1 TMP\_711 = 0 not(TMP\_711) = 1 TMP\_712 = 0 TMP\_713 = 1 not(TMP\_713) = 0 TMP\_714 = 1 not(TMP\_714) = 0 TMP\_715 = 2 TMP\_716 = 0 not(TMP\_716) = 1 TMP\_717 = 0 not(TMP\_717) = 1 TMP\_718 = 1 not(TMP\_718) = 0 TMP\_719 = 1 not(TMP\_719) = 0 TMP\_720 = 1 not(TMP\_720) = 0 TMP\_721 = 2 TMP\_722 = 1 not(TMP\_722) = 0 TMP\_723 = 0 not(TMP\_723) = 1 TMP\_724 = 1 not(TMP\_724) = 0 TMP\_725 = 1 not(TMP\_725) = 0 TMP\_726 = 1 not(TMP\_726) = 0 TMP\_727 = 1 not(TMP\_727) = 0 TMP\_728 = 5 TMP\_729 = 0 not(TMP\_729) = 1 TMP\_730 = 0 not(TMP\_730) = 1 TMP\_731 = 0 TMP\_732 = 1 not(TMP\_732) = 0 TMP\_733 = 1 not(TMP\_733) = 0 TMP\_734 = 2 TMP\_735 = 0 not(TMP\_735) = 1 TMP\_736 = 0 not(TMP\_736) = 1 TMP\_737 = 1 not(TMP\_737) = 0 TMP\_738 = 1 not(TMP\_738) = 0 TMP\_739 = 1 not(TMP\_739) = 0 TMP\_740 = 2 TMP\_741 = 0 not(TMP\_741) = 1 TMP\_742 = 1 not(TMP\_742) = 0 TMP\_743 = 1 not(TMP\_743) = 0 TMP\_744 = 1 not(TMP\_744) = 0 TMP\_745 = 0 not(TMP\_745) = 1 TMP\_746 = 1 not(TMP\_746) = 0 TMP\_747 = 4 TMP\_748 = 0 not(TMP\_748) = 1 TMP\_749 = 0 not(TMP\_749) = 1 TMP\_750 = 0 TMP\_751 = 1 not(TMP\_751) = 0 TMP\_752 = 1 not(TMP\_752) = 0 TMP\_753 = 2 TMP\_754 = 0 not(TMP\_754) = 1 TMP\_755 = 0 not(TMP\_755) = 1 TMP\_756 = 1 not(TMP\_756) = 0 TMP\_757 = 1 not(TMP\_757) = 0 TMP\_758 = 1 not(TMP\_758) = 0 TMP\_759 = 2 TMP\_760 = 1 not(TMP\_760) = 0 TMP\_761 = 0 not(TMP\_761) = 1 TMP\_762 = 1 not(TMP\_762) = 0 TMP\_763 = 1 not(TMP\_763) = 0 TMP\_764 = 1 not(TMP\_764) = 0 TMP\_765 = 1 not(TMP\_765) = 0 TMP\_766 = 5 TMP\_767 = 0 not(TMP\_767) = 1 TMP\_768 = 0 not(TMP\_768) = 1 TMP\_769 = 0 TMP\_770 = 1 not(TMP\_770) = 0 TMP\_771 = 1 not(TMP\_771) = 0 TMP\_772 = 2 TMP\_773 = 0 not(TMP\_773) = 1 TMP\_774 = 0 not(TMP\_774) = 1 TMP\_775 = 1 not(TMP\_775) = 0 TMP\_776 = 1 not(TMP\_776) = 0 TMP\_777 = 1 not(TMP\_777) = 0 TMP\_778 = 2 TMP\_779 = 1 not(TMP\_779) = 0 TMP\_780 = 0 not(TMP\_780) = 1 TMP\_781 = 1 not(TMP\_781) = 0 TMP\_782 = 1 not(TMP\_782) = 0 TMP\_783 = 0 not(TMP\_783) = 1 TMP\_784 = 1 not(TMP\_784) = 0 TMP\_785 = 4 TMP\_786 = 0 not(TMP\_786) = 1 TMP\_787 = 0 not(TMP\_787) = 1 TMP\_788 = 0 TMP\_789 = 1 not(TMP\_789) = 0 TMP\_790 = 1 not(TMP\_790) = 0 TMP\_791 = 2 TMP\_792 = 0 not(TMP\_792) = 1 TMP\_793 = 0 not(TMP\_793) = 1 TMP\_794 = 1 not(TMP\_794) = 0 TMP\_795 = 1 not(TMP\_795) = 0 TMP\_796 = 1 not(TMP\_796) = 0 TMP\_797 = 2 TMP\_798 = 1 not(TMP\_798) = 0 TMP\_799 = 1 not(TMP\_799) = 0 TMP\_800 = 1 not(TMP\_800) = 0 TMP\_801 = 1 not(TMP\_801) = 0 TMP\_802 = 0 not(TMP\_802) = 1 TMP\_803 = 1 not(TMP\_803) = 0 TMP\_804 = 5 TMP\_805 = 0 not(TMP\_805) = 1 TMP\_806 = 0 not(TMP\_806) = 1 TMP\_807 = 0 TMP\_808 = 1 not(TMP\_808) = 0 TMP\_809 = 1 not(TMP\_809) = 0 TMP\_810 = 2 TMP\_811 = 0 not(TMP\_811) = 1 TMP\_812 = 0 not(TMP\_812) = 1 TMP\_813 = 1 not(TMP\_813) = 0 TMP\_814 = 1 not(TMP\_814) = 0 TMP\_815 = 1 not(TMP\_815) = 0 TMP\_816 = 2 TMP\_817 = 1 not(TMP\_817) = 0 TMP\_818 = 0 not(TMP\_818) = 1 TMP\_819 = 1 not(TMP\_819) = 0 TMP\_820 = 1 not(TMP\_820) = 0 TMP\_821 = 0 not(TMP\_821) = 1 TMP\_822 = 1 not(TMP\_822) = 0 TMP\_823 = 4 TMP\_824 = 0 not(TMP\_824) = 1 TMP\_825 = 0 not(TMP\_825) = 1 TMP\_826 = 0 TMP\_827 = 1 not(TMP\_827) = 0 TMP\_828 = 1 not(TMP\_828) = 0 TMP\_829 = 2 TMP\_830 = 0 not(TMP\_830) = 1 TMP\_831 = 0 not(TMP\_831) = 1 TMP\_832 = 1 not(TMP\_832) = 0 TMP\_833 = 1 not(TMP\_833) = 0 TMP\_834 = 1 not(TMP\_834) = 0 TMP\_835 = 2 TMP\_836 = 0 not(TMP\_836) = 1 TMP\_837 = 1 not(TMP\_837) = 0 TMP\_838 = 1 not(TMP\_838) = 0 TMP\_839 = 1 not(TMP\_839) = 0 TMP\_840 = 1 not(TMP\_840) = 0 TMP\_841 = 0 not(TMP\_841) = 1 TMP\_842 = 4 TMP\_843 = 0 not(TMP\_843) = 1 TMP\_844 = 0 not(TMP\_844) = 1 TMP\_845 = 0 TMP\_846 = 1 not(TMP\_846) = 0 TMP\_847 = 1 not(TMP\_847) = 0 TMP\_848 = 2 TMP\_849 = 0 not(TMP\_849) = 1 TMP\_850 = 0 not(TMP\_850) = 1 TMP\_851 = 1 not(TMP\_851) = 0 TMP\_852 = 1 not(TMP\_852) = 0 TMP\_853 = 1 not(TMP\_853) = 0 TMP\_854 = 2 TMP\_855 = 0 not(TMP\_855) = 1 TMP\_856 = 1 not(TMP\_856) = 0 TMP\_857 = 1 not(TMP\_857) = 0 TMP\_858 = 1 not(TMP\_858) = 0 TMP\_859 = 1 not(TMP\_859) = 0 TMP\_860 = 0 not(TMP\_860) = 1 TMP\_861 = 4 TMP\_862 = 0 not(TMP\_862) = 1 TMP\_863 = 0 not(TMP\_863) = 1 TMP\_864 = 0 TMP\_865 = 1 not(TMP\_865) = 0 TMP\_866 = 1 not(TMP\_866) = 0 TMP\_867 = 2 TMP\_868 = 0 not(TMP\_868) = 1 TMP\_869 = 0 not(TMP\_869) = 1 TMP\_870 = 1 not(TMP\_870) = 0 TMP\_871 = 1 not(TMP\_871) = 0 TMP\_872 = 1 not(TMP\_872) = 0 TMP\_873 = 2 TMP\_874 = 0 not(TMP\_874) = 1 TMP\_875 = 1 not(TMP\_875) = 0 TMP\_876 = 1 not(TMP\_876) = 0 TMP\_877 = 1 not(TMP\_877) = 0 TMP\_878 = 1 not(TMP\_878) = 0 TMP\_879 = 1 not(TMP\_879) = 0 TMP\_880 = 5 TMP\_881 = 0 not(TMP\_881) = 1 TMP\_882 = 0 not(TMP\_882) = 1 TMP\_883 = 0 TMP\_884 = 1 not(TMP\_884) = 0 TMP\_885 = 1 not(TMP\_885) = 0 TMP\_886 = 2 TMP\_887 = 0 not(TMP\_887) = 1 TMP\_888 = 0 not(TMP\_888) = 1 TMP\_889 = 1 not(TMP\_889) = 0 TMP\_890 = 1 not(TMP\_890) = 0 TMP\_891 = 1 not(TMP\_891) = 0 TMP\_892 = 2 TMP\_893 = 0 not(TMP\_893) = 1 TMP\_894 = 1 not(TMP\_894) = 0 TMP\_895 = 0 not(TMP\_895) = 1 TMP\_896 = 1 not(TMP\_896) = 0 TMP\_897 = 1 not(TMP\_897) = 0 TMP\_898 = 1 not(TMP\_898) = 0 TMP\_899 = 4 TMP\_900 = 0 not(TMP\_900) = 1 TMP\_901 = 0 not(TMP\_901) = 1 TMP\_902 = 0 TMP\_903 = 1 not(TMP\_903) = 0 TMP\_904 = 1 not(TMP\_904) = 0 TMP\_905 = 2 TMP\_906 = 0 not(TMP\_906) = 1 TMP\_907 = 0 not(TMP\_907) = 1 TMP\_908 = 1 not(TMP\_908) = 0 TMP\_909 = 1 not(TMP\_909) = 0 TMP\_910 = 1 not(TMP\_910) = 0 TMP\_911 = 2 TMP\_912 = 1 not(TMP\_912) = 0 TMP\_913 = 0 not(TMP\_913) = 1 TMP\_914 = 1 not(TMP\_914) = 0 TMP\_915 = 1 not(TMP\_915) = 0 TMP\_916 = 1 not(TMP\_916) = 0 TMP\_917 = 1 not(TMP\_917) = 0 TMP\_918 = 5 TMP\_919 = 0 not(TMP\_919) = 1 TMP\_920 = 0 not(TMP\_920) = 1 TMP\_921 = 0 TMP\_922 = 1 not(TMP\_922) = 0 TMP\_923 = 1 not(TMP\_923) = 0 TMP\_924 = 2 TMP\_925 = 0 not(TMP\_925) = 1 TMP\_926 = 0 not(TMP\_926) = 1 TMP\_927 = 1 not(TMP\_927) = 0 TMP\_928 = 1 not(TMP\_928) = 0 TMP\_929 = 1 not(TMP\_929) = 0 TMP\_930 = 2 TMP\_931 = 1 not(TMP\_931) = 0 TMP\_932 = 0 not(TMP\_932) = 1 TMP\_933 = 1 not(TMP\_933) = 0 TMP\_934 = 1 not(TMP\_934) = 0 TMP\_935 = 1 not(TMP\_935) = 0 TMP\_936 = 0 not(TMP\_936) = 1 TMP\_937 = 4 TMP\_938 = 0 not(TMP\_938) = 1 TMP\_939 = 0 not(TMP\_939) = 1 TMP\_940 = 0 TMP\_941 = 1 not(TMP\_941) = 0 TMP\_942 = 1 not(TMP\_942) = 0 TMP\_943 = 2 TMP\_944 = 0 not(TMP\_944) = 1 TMP\_945 = 0 not(TMP\_945) = 1 TMP\_946 = 1 not(TMP\_946) = 0 TMP\_947 = 1 not(TMP\_947) = 0 TMP\_948 = 1 not(TMP\_948) = 0 TMP\_949 = 2 TMP\_950 = 0 not(TMP\_950) = 1 TMP\_951 = 1 not(TMP\_951) = 0 TMP\_952 = 1 not(TMP\_952) = 0 TMP\_953 = 1 not(TMP\_953) = 0 TMP\_954 = 1 not(TMP\_954) = 0 TMP\_955 = 1 not(TMP\_955) = 0 TMP\_956 = 5 TMP\_957 = 0 not(TMP\_957) = 1 TMP\_958 = 0 not(TMP\_958) = 1 TMP\_959 = 0 TMP\_960 = 1 not(TMP\_960) = 0 TMP\_961 = 1 not(TMP\_961) = 0 TMP\_962 = 2 TMP\_963 = 0 not(TMP\_963) = 1 TMP\_964 = 0 not(TMP\_964) = 1 TMP\_965 = 1 not(TMP\_965) = 0 TMP\_966 = 1 not(TMP\_966) = 0 TMP\_967 = 1 not(TMP\_967) = 0 TMP\_968 = 2 TMP\_969 = 1 not(TMP\_969) = 0 TMP\_970 = 1 not(TMP\_970) = 0 TMP\_971 = 1 not(TMP\_971) = 0 TMP\_972 = 1 not(TMP\_972) = 0 TMP\_973 = 1 not(TMP\_973) = 0 TMP\_974 = 0 not(TMP\_974) = 1 TMP\_975 = 5 TMP\_976 = 0 not(TMP\_976) = 1 TMP\_977 = 0 not(TMP\_977) = 1 TMP\_978 = 0 TMP\_979 = 1 not(TMP\_979) = 0 TMP\_980 = 1 not(TMP\_980) = 0 TMP\_981 = 2 TMP\_982 = 0 not(TMP\_982) = 1 TMP\_983 = 0 not(TMP\_983) = 1 TMP\_984 = 1 not(TMP\_984) = 0 TMP\_985 = 1 not(TMP\_985) = 0 TMP\_986 = 1 not(TMP\_986) = 0 TMP\_987 = 2 TMP\_988 = 1 not(TMP\_988) = 0 TMP\_989 = 1 not(TMP\_989) = 0 TMP\_990 = 0 not(TMP\_990) = 1 TMP\_991 = 1 not(TMP\_991) = 0 TMP\_992 = 1 not(TMP\_992) = 0 TMP\_993 = 1 not(TMP\_993) = 0 TMP\_994 = 5 TMP\_995 = 0 not(TMP\_995) = 1 TMP\_996 = 0 not(TMP\_996) = 1 TMP\_997 = 0 TMP\_998 = 1 not(TMP\_998) = 0 TMP\_999 = 1 not(TMP\_999) = 0 TMP\_1000 = 2 TMP\_1001 = 0 not(TMP\_1001) = 1 TMP\_1002 = 0 not(TMP\_1002) = 1 TMP\_1003 = 1 not(TMP\_1003) = 0 TMP\_1004 = 1 not(TMP\_1004) = 0 TMP\_1005 = 1 not(TMP\_1005) = 0 TMP\_1006 = 2 TMP\_1007 = 0 not(TMP\_1007) = 1 TMP\_1008 = 1 not(TMP\_1008) = 0 TMP\_1009 = 1 not(TMP\_1009) = 0 TMP\_1010 = 1 not(TMP\_1010) = 0 TMP\_1011 = 1 not(TMP\_1011) = 0 TMP\_1012 = 1 not(TMP\_1012) = 0 TMP\_1013 = 5 TMP\_1014 = 0 not(TMP\_1014) = 1 TMP\_1015 = 0 not(TMP\_1015) = 1 TMP\_1016 = 0 TMP\_1017 = 1 not(TMP\_1017) = 0 TMP\_1018 = 1 not(TMP\_1018) = 0 TMP\_1019 = 2 TMP\_1020 = 0 not(TMP\_1020) = 1 TMP\_1021 = 0 not(TMP\_1021) = 1 TMP\_1022 = 1 not(TMP\_1022) = 0 TMP\_1023 = 1 not(TMP\_1023) = 0 TMP\_1024 = 1 not(TMP\_1024) = 0 TMP\_1025 = 2 TMP\_1026 = 0 not(TMP\_1026) = 1 TMP\_1027 = 1 not(TMP\_1027) = 0 TMP\_1028 = 1 not(TMP\_1028) = 0 TMP\_1029 = 1 not(TMP\_1029) = 0 TMP\_1030 = 1 not(TMP\_1030) = 0 TMP\_1031 = 0 not(TMP\_1031) = 1 TMP\_1032 = 4 TMP\_1033 = 0 not(TMP\_1033) = 1 TMP\_1034 = 0 not(TMP\_1034) = 1 TMP\_1035 = 0 TMP\_1036 = 1 not(TMP\_1036) = 0 TMP\_1037 = 1 not(TMP\_1037) = 0 TMP\_1038 = 2 TMP\_1039 = 0 not(TMP\_1039) = 1 TMP\_1040 = 0 not(TMP\_1040) = 1 TMP\_1041 = 1 not(TMP\_1041) = 0 TMP\_1042 = 1 not(TMP\_1042) = 0 TMP\_1043 = 1 not(TMP\_1043) = 0 TMP\_1044 = 2 Area\_0 = 60 Distance\_0\_Rule\_0 = 20 Distance\_1\_Rule\_0 = 3 Distance\_2\_Rule\_0 = 1 Area\_1 = 174 Distance\_0\_Rule\_1 = 58 Distance\_1\_Rule\_1 = 3 Distance\_2\_Rule\_1 = 1 Area\_2 = 116 Distance\_0\_Rule\_2 = 58 Distance\_1\_Rule\_2 = 2 Distance\_2\_Rule\_2 = 1 Area\_3 = 58 Distance\_0\_Rule\_3 = 58 Distance\_1\_Rule\_3 = 1 Distance\_2\_Rule\_3 = 1 Area\_4 = 120 Distance\_0\_Rule\_4 = 40 Distance\_1\_Rule\_4 = 3 Distance\_2\_Rule\_4 = 1 Area\_5 = 120 Distance\_0\_Rule\_5 = 40 Distance\_1\_Rule\_5 = 3 Distance\_2\_Rule\_5 = 1 Area\_6 = 60 Distance\_0\_Rule\_6 = 20 Distance\_1\_Rule\_6 = 3 Distance\_2\_Rule\_6 = 1 Area\_7 = 3 -(Rule\_7\_LB) = -79 Distance\_0\_Rule\_7 = 1 -(Rule\_7\_LB) = 0 Distance\_1\_Rule\_7 = 3 -(Rule\_7\_LB) = -1 Distance\_2\_Rule\_7 = 1 Area\_8 = 1 -(Rule\_8\_LB) = -79 Distance\_0\_Rule\_8 = 1 -(Rule\_8\_LB) = 0 Distance\_1\_Rule\_8 = 1 -(Rule\_8\_LB) = 0 Distance\_2\_Rule\_8 = 1 Area\_9 = 3 -(Rule\_9\_LB) = -20 Distance\_0\_Rule\_9 = 1 -(Rule\_9\_LB) = 0 Distance\_1\_Rule\_9 = 3 -(Rule\_9\_LB) = 0 Distance\_2\_Rule\_9 = 1 Area\_10 = 3 -(Rule\_10\_LB) = -20 Distance\_0\_Rule\_10 = 1 -(Rule\_10\_LB) = 0 Distance\_1\_Rule\_10 = 3 -(Rule\_10\_LB) = -1 Distance\_2\_Rule\_10 = 1 Area\_11 = 2 -(Rule\_11\_LB) = -79 Distance\_0\_Rule\_11 = 1 -(Rule\_11\_LB) = -1 Distance\_1\_Rule\_11 = 2 -(Rule\_11\_LB) = 0 Distance\_2\_Rule\_11 = 1 TMP\_1045 = 720 .

- Incomplete search - Limit reached.

Solutions: 20

Building time : 0.250s

Initialisation : 0.000s

Initial propagation : 0.115s

Resolution : 1.434s

Nodes: 1,493 (1,041.3 n/s)

Backtracks: 2,835

Fails: 1,405

Restarts: 0

Max depth: 62

Memory: 1mb

Variables: 2,174

Constraints: 2,181

# Check Order

## Rules = 1 - Missing Rules = 1

- Solution #1 found. 1 Solutions, Resolution 0.012s, 1 Nodes (81.5 n/s), 0 Backtracks, 0 Fails, 0 Restarts

Rule\_1\_LB = 1 Rule\_1\_UB = 3 Rule\_1\_LB = 0 Rule\_1\_UB = 2000 Overlaps\_0\_0 = 0 Overlaps\_0\_1 = 0 Overlaps\_1\_0 = 0 Overlaps\_1\_1 = 0 TMP\_0 = 0 not(TMP\_0) = 1 TMP\_1 = 1 not(TMP\_1) = 0 TMP\_2 = 1 not(TMP\_2) = 0 TMP\_3 = 1 not(TMP\_3) = 0 TMP\_4 = 3 TMP\_5 = 0 not(TMP\_5) = 1 TMP\_6 = 0 not(TMP\_6) = 1 TMP\_7 = 0 TMP\_8 = 1 not(TMP\_8) = 0 TMP\_9 = 1 not(TMP\_9) = 0 TMP\_10 = 2 TMP\_11 = 0 not(TMP\_11) = 1 TMP\_12 = 0 not(TMP\_12) = 1 TMP\_13 = 1 not(TMP\_13) = 0 TMP\_14 = 1 not(TMP\_14) = 0 TMP\_15 = 1 not(TMP\_15) = 0 TMP\_16 = 2 Area\_0 = 2000 Distance\_0\_Rule\_0 = 1 Distance\_1\_Rule\_0 = 2000 Area\_1 = 4000 -(Rule\_1\_LB) = -1 Distance\_0\_Rule\_1 = 2 -(Rule\_1\_LB) = 0 Distance\_1\_Rule\_1 = 2000 .

- Complete search - 1 solution found.

Solutions: 1

Building time : 0.097s

Initialisation : 0.001s

Initial propagation : 0.012s

Resolution : 0.018s

Nodes: 1 (55.7 n/s)

Backtracks: 1

Fails: 0

Restarts: 0

Max depth: 0

Memory: 0mb

Variables: 55

Constraints: 50

## Rules = 2 - Missing Rules = 2

- Solution #1 found. 1 Solutions, Resolution 0.073s, 10 Nodes (136.6 n/s), 8 Backtracks, 5 Fails, 0 Restarts

Rule\_2\_LB = 2 Rule\_2\_UB = 3 Rule\_2\_LB = 0 Rule\_2\_UB = 2000 Rule\_3\_LB = 1 Rule\_3\_UB = 2 Rule\_3\_LB = 1000 Rule\_3\_UB = 2000 Overlaps\_0\_0 = 0 Overlaps\_0\_1 = 0 Overlaps\_0\_2 = 0 Overlaps\_0\_3 = 0 Overlaps\_1\_0 = 0 Overlaps\_1\_1 = 0 Overlaps\_1\_2 = 0 Overlaps\_1\_3 = 0 Overlaps\_2\_0 = 0 Overlaps\_2\_1 = 0 Overlaps\_2\_2 = 0 Overlaps\_2\_3 = 0 Overlaps\_3\_0 = 0 Overlaps\_3\_1 = 0 Overlaps\_3\_2 = 0 Overlaps\_3\_3 = 0 TMP\_0 = 0 not(TMP\_0) = 1 TMP\_1 = 1 not(TMP\_1) = 0 TMP\_2 = 1 not(TMP\_2) = 0 TMP\_3 = 1 not(TMP\_3) = 0 TMP\_4 = 3 TMP\_5 = 0 not(TMP\_5) = 1 TMP\_6 = 0 not(TMP\_6) = 1 TMP\_7 = 0 TMP\_8 = 1 not(TMP\_8) = 0 TMP\_9 = 1 not(TMP\_9) = 0 TMP\_10 = 2 TMP\_11 = 0 not(TMP\_11) = 1 TMP\_12 = 0 not(TMP\_12) = 1 TMP\_13 = 1 not(TMP\_13) = 0 TMP\_14 = 1 not(TMP\_14) = 0 TMP\_15 = 1 not(TMP\_15) = 0 TMP\_16 = 2 TMP\_17 = 0 not(TMP\_17) = 1 TMP\_18 = 1 not(TMP\_18) = 0 TMP\_19 = 1 not(TMP\_19) = 0 TMP\_20 = 1 not(TMP\_20) = 0 TMP\_21 = 3 TMP\_22 = 0 not(TMP\_22) = 1 TMP\_23 = 0 not(TMP\_23) = 1 TMP\_24 = 0 TMP\_25 = 1 not(TMP\_25) = 0 TMP\_26 = 1 not(TMP\_26) = 0 TMP\_27 = 2 TMP\_28 = 0 not(TMP\_28) = 1 TMP\_29 = 0 not(TMP\_29) = 1 TMP\_30 = 1 not(TMP\_30) = 0 TMP\_31 = 1 not(TMP\_31) = 0 TMP\_32 = 1 not(TMP\_32) = 0 TMP\_33 = 2 TMP\_34 = 0 not(TMP\_34) = 1 TMP\_35 = 1 not(TMP\_35) = 0 TMP\_36 = 1 not(TMP\_36) = 0 TMP\_37 = 1 not(TMP\_37) = 0 TMP\_38 = 3 TMP\_39 = 0 not(TMP\_39) = 1 TMP\_40 = 0 not(TMP\_40) = 1 TMP\_41 = 0 TMP\_42 = 1 not(TMP\_42) = 0 TMP\_43 = 1 not(TMP\_43) = 0 TMP\_44 = 2 TMP\_45 = 0 not(TMP\_45) = 1 TMP\_46 = 0 not(TMP\_46) = 1 TMP\_47 = 1 not(TMP\_47) = 0 TMP\_48 = 1 not(TMP\_48) = 0 TMP\_49 = 1 not(TMP\_49) = 0 TMP\_50 = 2 TMP\_51 = 0 not(TMP\_51) = 1 TMP\_52 = 1 not(TMP\_52) = 0 TMP\_53 = 1 not(TMP\_53) = 0 TMP\_54 = 1 not(TMP\_54) = 0 TMP\_55 = 3 TMP\_56 = 0 not(TMP\_56) = 1 TMP\_57 = 0 not(TMP\_57) = 1 TMP\_58 = 0 TMP\_59 = 1 not(TMP\_59) = 0 TMP\_60 = 1 not(TMP\_60) = 0 TMP\_61 = 2 TMP\_62 = 0 not(TMP\_62) = 1 TMP\_63 = 0 not(TMP\_63) = 1 TMP\_64 = 1 not(TMP\_64) = 0 TMP\_65 = 1 not(TMP\_65) = 0 TMP\_66 = 1 not(TMP\_66) = 0 TMP\_67 = 2 TMP\_68 = 1 not(TMP\_68) = 0 TMP\_69 = 1 not(TMP\_69) = 0 TMP\_70 = 0 not(TMP\_70) = 1 TMP\_71 = 1 not(TMP\_71) = 0 TMP\_72 = 3 TMP\_73 = 0 not(TMP\_73) = 1 TMP\_74 = 0 not(TMP\_74) = 1 TMP\_75 = 0 TMP\_76 = 1 not(TMP\_76) = 0 TMP\_77 = 1 not(TMP\_77) = 0 TMP\_78 = 2 TMP\_79 = 0 not(TMP\_79) = 1 TMP\_80 = 0 not(TMP\_80) = 1 TMP\_81 = 1 not(TMP\_81) = 0 TMP\_82 = 1 not(TMP\_82) = 0 TMP\_83 = 1 not(TMP\_83) = 0 TMP\_84 = 2 TMP\_85 = 1 not(TMP\_85) = 0 TMP\_86 = 0 not(TMP\_86) = 1 TMP\_87 = 1 not(TMP\_87) = 0 TMP\_88 = 1 not(TMP\_88) = 0 TMP\_89 = 3 TMP\_90 = 0 not(TMP\_90) = 1 TMP\_91 = 0 not(TMP\_91) = 1 TMP\_92 = 0 TMP\_93 = 1 not(TMP\_93) = 0 TMP\_94 = 1 not(TMP\_94) = 0 TMP\_95 = 2 TMP\_96 = 0 not(TMP\_96) = 1 TMP\_97 = 0 not(TMP\_97) = 1 TMP\_98 = 1 not(TMP\_98) = 0 TMP\_99 = 1 not(TMP\_99) = 0 TMP\_100 = 1 not(TMP\_100) = 0 TMP\_101 = 2 Area\_0 = 2000 Distance\_0\_Rule\_0 = 1 Distance\_1\_Rule\_0 = 2000 Area\_1 = 1000 Distance\_0\_Rule\_1 = 1 Distance\_1\_Rule\_1 = 1000 Area\_2 = 2000 -(Rule\_2\_LB) = -2 Distance\_0\_Rule\_2 = 1 -(Rule\_2\_LB) = 0 Distance\_1\_Rule\_2 = 2000 Area\_3 = 1000 -(Rule\_3\_LB) = -1 Distance\_0\_Rule\_3 = 1 -(Rule\_3\_LB) = -1000 Distance\_1\_Rule\_3 = 1000 TMP\_102 = 6000 .

- Solution #2 found. 2 Solutions, Resolution 0.087s, 11 Nodes (126.6 n/s), 9 Backtracks, 5 Fails, 0 Restarts

Rule\_2\_LB = 2 Rule\_2\_UB = 3 Rule\_2\_LB = 0 Rule\_2\_UB = 2000 Rule\_3\_LB = 1 Rule\_3\_UB = 2 Rule\_3\_LB = 1000 Rule\_3\_UB = 2000 Overlaps\_0\_0 = 0 Overlaps\_0\_1 = 0 Overlaps\_0\_2 = 0 Overlaps\_0\_3 = 0 Overlaps\_1\_0 = 1 Overlaps\_1\_1 = 0 Overlaps\_1\_2 = 0 Overlaps\_1\_3 = 0 Overlaps\_2\_0 = 0 Overlaps\_2\_1 = 0 Overlaps\_2\_2 = 0 Overlaps\_2\_3 = 0 Overlaps\_3\_0 = 0 Overlaps\_3\_1 = 0 Overlaps\_3\_2 = 0 Overlaps\_3\_3 = 0 TMP\_0 = 0 not(TMP\_0) = 1 TMP\_1 = 1 not(TMP\_1) = 0 TMP\_2 = 1 not(TMP\_2) = 0 TMP\_3 = 1 not(TMP\_3) = 0 TMP\_4 = 3 TMP\_5 = 0 not(TMP\_5) = 1 TMP\_6 = 0 not(TMP\_6) = 1 TMP\_7 = 0 TMP\_8 = 1 not(TMP\_8) = 0 TMP\_9 = 1 not(TMP\_9) = 0 TMP\_10 = 2 TMP\_11 = 0 not(TMP\_11) = 1 TMP\_12 = 0 not(TMP\_12) = 1 TMP\_13 = 1 not(TMP\_13) = 0 TMP\_14 = 1 not(TMP\_14) = 0 TMP\_15 = 1 not(TMP\_15) = 0 TMP\_16 = 2 TMP\_17 = 0 not(TMP\_17) = 1 TMP\_18 = 1 not(TMP\_18) = 0 TMP\_19 = 1 not(TMP\_19) = 0 TMP\_20 = 1 not(TMP\_20) = 0 TMP\_21 = 3 TMP\_22 = 0 not(TMP\_22) = 1 TMP\_23 = 0 not(TMP\_23) = 1 TMP\_24 = 0 TMP\_25 = 1 not(TMP\_25) = 0 TMP\_26 = 1 not(TMP\_26) = 0 TMP\_27 = 2 TMP\_28 = 0 not(TMP\_28) = 1 TMP\_29 = 0 not(TMP\_29) = 1 TMP\_30 = 1 not(TMP\_30) = 0 TMP\_31 = 1 not(TMP\_31) = 0 TMP\_32 = 1 not(TMP\_32) = 0 TMP\_33 = 2 TMP\_34 = 0 not(TMP\_34) = 1 TMP\_35 = 1 not(TMP\_35) = 0 TMP\_36 = 1 not(TMP\_36) = 0 TMP\_37 = 1 not(TMP\_37) = 0 TMP\_38 = 3 TMP\_39 = 0 not(TMP\_39) = 1 TMP\_40 = 0 not(TMP\_40) = 1 TMP\_41 = 0 TMP\_42 = 1 not(TMP\_42) = 0 TMP\_43 = 1 not(TMP\_43) = 0 TMP\_44 = 2 TMP\_45 = 0 not(TMP\_45) = 1 TMP\_46 = 0 not(TMP\_46) = 1 TMP\_47 = 1 not(TMP\_47) = 0 TMP\_48 = 1 not(TMP\_48) = 0 TMP\_49 = 1 not(TMP\_49) = 0 TMP\_50 = 2 TMP\_51 = 0 not(TMP\_51) = 1 TMP\_52 = 1 not(TMP\_52) = 0 TMP\_53 = 1 not(TMP\_53) = 0 TMP\_54 = 1 not(TMP\_54) = 0 TMP\_55 = 3 TMP\_56 = 0 not(TMP\_56) = 1 TMP\_57 = 0 not(TMP\_57) = 1 TMP\_58 = 0 TMP\_59 = 1 not(TMP\_59) = 0 TMP\_60 = 1 not(TMP\_60) = 0 TMP\_61 = 2 TMP\_62 = 0 not(TMP\_62) = 1 TMP\_63 = 0 not(TMP\_63) = 1 TMP\_64 = 1 not(TMP\_64) = 0 TMP\_65 = 1 not(TMP\_65) = 0 TMP\_66 = 1 not(TMP\_66) = 0 TMP\_67 = 2 TMP\_68 = 1 not(TMP\_68) = 0 TMP\_69 = 1 not(TMP\_69) = 0 TMP\_70 = 0 not(TMP\_70) = 1 TMP\_71 = 1 not(TMP\_71) = 0 TMP\_72 = 3 TMP\_73 = 0 not(TMP\_73) = 1 TMP\_74 = 0 not(TMP\_74) = 1 TMP\_75 = 0 TMP\_76 = 1 not(TMP\_76) = 0 TMP\_77 = 1 not(TMP\_77) = 0 TMP\_78 = 2 TMP\_79 = 0 not(TMP\_79) = 1 TMP\_80 = 0 not(TMP\_80) = 1 TMP\_81 = 1 not(TMP\_81) = 0 TMP\_82 = 1 not(TMP\_82) = 0 TMP\_83 = 1 not(TMP\_83) = 0 TMP\_84 = 2 TMP\_85 = 1 not(TMP\_85) = 0 TMP\_86 = 0 not(TMP\_86) = 1 TMP\_87 = 1 not(TMP\_87) = 0 TMP\_88 = 1 not(TMP\_88) = 0 TMP\_89 = 3 TMP\_90 = 0 not(TMP\_90) = 1 TMP\_91 = 0 not(TMP\_91) = 1 TMP\_92 = 0 TMP\_93 = 1 not(TMP\_93) = 0 TMP\_94 = 1 not(TMP\_94) = 0 TMP\_95 = 2 TMP\_96 = 0 not(TMP\_96) = 1 TMP\_97 = 0 not(TMP\_97) = 1 TMP\_98 = 1 not(TMP\_98) = 0 TMP\_99 = 1 not(TMP\_99) = 0 TMP\_100 = 1 not(TMP\_100) = 0 TMP\_101 = 2 Area\_0 = 2000 Distance\_0\_Rule\_0 = 1 Distance\_1\_Rule\_0 = 2000 Area\_1 = 1000 Distance\_0\_Rule\_1 = 1 Distance\_1\_Rule\_1 = 1000 Area\_2 = 2000 -(Rule\_2\_LB) = -2 Distance\_0\_Rule\_2 = 1 -(Rule\_2\_LB) = 0 Distance\_1\_Rule\_2 = 2000 Area\_3 = 1000 -(Rule\_3\_LB) = -1 Distance\_0\_Rule\_3 = 1 -(Rule\_3\_LB) = -1000 Distance\_1\_Rule\_3 = 1000 TMP\_102 = 6000 .

- Solution #3 found. 3 Solutions, Resolution 0.096s, 15 Nodes (156.9 n/s), 12 Backtracks, 5 Fails, 0 Restarts

Rule\_2\_LB = 2 Rule\_2\_UB = 3 Rule\_2\_LB = 0 Rule\_2\_UB = 2000 Rule\_3\_LB = 1 Rule\_3\_UB = 2 Rule\_3\_LB = 1000 Rule\_3\_UB = 2000 Overlaps\_0\_0 = 0 Overlaps\_0\_1 = 1 Overlaps\_0\_2 = 0 Overlaps\_0\_3 = 0 Overlaps\_1\_0 = 0 Overlaps\_1\_1 = 0 Overlaps\_1\_2 = 0 Overlaps\_1\_3 = 0 Overlaps\_2\_0 = 0 Overlaps\_2\_1 = 0 Overlaps\_2\_2 = 0 Overlaps\_2\_3 = 0 Overlaps\_3\_0 = 0 Overlaps\_3\_1 = 0 Overlaps\_3\_2 = 0 Overlaps\_3\_3 = 0 TMP\_0 = 0 not(TMP\_0) = 1 TMP\_1 = 1 not(TMP\_1) = 0 TMP\_2 = 1 not(TMP\_2) = 0 TMP\_3 = 1 not(TMP\_3) = 0 TMP\_4 = 3 TMP\_5 = 0 not(TMP\_5) = 1 TMP\_6 = 0 not(TMP\_6) = 1 TMP\_7 = 0 TMP\_8 = 1 not(TMP\_8) = 0 TMP\_9 = 1 not(TMP\_9) = 0 TMP\_10 = 2 TMP\_11 = 0 not(TMP\_11) = 1 TMP\_12 = 0 not(TMP\_12) = 1 TMP\_13 = 1 not(TMP\_13) = 0 TMP\_14 = 1 not(TMP\_14) = 0 TMP\_15 = 1 not(TMP\_15) = 0 TMP\_16 = 2 TMP\_17 = 0 not(TMP\_17) = 1 TMP\_18 = 1 not(TMP\_18) = 0 TMP\_19 = 1 not(TMP\_19) = 0 TMP\_20 = 1 not(TMP\_20) = 0 TMP\_21 = 3 TMP\_22 = 0 not(TMP\_22) = 1 TMP\_23 = 0 not(TMP\_23) = 1 TMP\_24 = 0 TMP\_25 = 1 not(TMP\_25) = 0 TMP\_26 = 1 not(TMP\_26) = 0 TMP\_27 = 2 TMP\_28 = 0 not(TMP\_28) = 1 TMP\_29 = 0 not(TMP\_29) = 1 TMP\_30 = 1 not(TMP\_30) = 0 TMP\_31 = 1 not(TMP\_31) = 0 TMP\_32 = 1 not(TMP\_32) = 0 TMP\_33 = 2 TMP\_34 = 0 not(TMP\_34) = 1 TMP\_35 = 1 not(TMP\_35) = 0 TMP\_36 = 1 not(TMP\_36) = 0 TMP\_37 = 1 not(TMP\_37) = 0 TMP\_38 = 3 TMP\_39 = 0 not(TMP\_39) = 1 TMP\_40 = 0 not(TMP\_40) = 1 TMP\_41 = 0 TMP\_42 = 1 not(TMP\_42) = 0 TMP\_43 = 1 not(TMP\_43) = 0 TMP\_44 = 2 TMP\_45 = 0 not(TMP\_45) = 1 TMP\_46 = 0 not(TMP\_46) = 1 TMP\_47 = 1 not(TMP\_47) = 0 TMP\_48 = 1 not(TMP\_48) = 0 TMP\_49 = 1 not(TMP\_49) = 0 TMP\_50 = 2 TMP\_51 = 0 not(TMP\_51) = 1 TMP\_52 = 1 not(TMP\_52) = 0 TMP\_53 = 1 not(TMP\_53) = 0 TMP\_54 = 1 not(TMP\_54) = 0 TMP\_55 = 3 TMP\_56 = 0 not(TMP\_56) = 1 TMP\_57 = 0 not(TMP\_57) = 1 TMP\_58 = 0 TMP\_59 = 1 not(TMP\_59) = 0 TMP\_60 = 1 not(TMP\_60) = 0 TMP\_61 = 2 TMP\_62 = 0 not(TMP\_62) = 1 TMP\_63 = 0 not(TMP\_63) = 1 TMP\_64 = 1 not(TMP\_64) = 0 TMP\_65 = 1 not(TMP\_65) = 0 TMP\_66 = 1 not(TMP\_66) = 0 TMP\_67 = 2 TMP\_68 = 1 not(TMP\_68) = 0 TMP\_69 = 1 not(TMP\_69) = 0 TMP\_70 = 0 not(TMP\_70) = 1 TMP\_71 = 1 not(TMP\_71) = 0 TMP\_72 = 3 TMP\_73 = 0 not(TMP\_73) = 1 TMP\_74 = 0 not(TMP\_74) = 1 TMP\_75 = 0 TMP\_76 = 1 not(TMP\_76) = 0 TMP\_77 = 1 not(TMP\_77) = 0 TMP\_78 = 2 TMP\_79 = 0 not(TMP\_79) = 1 TMP\_80 = 0 not(TMP\_80) = 1 TMP\_81 = 1 not(TMP\_81) = 0 TMP\_82 = 1 not(TMP\_82) = 0 TMP\_83 = 1 not(TMP\_83) = 0 TMP\_84 = 2 TMP\_85 = 1 not(TMP\_85) = 0 TMP\_86 = 0 not(TMP\_86) = 1 TMP\_87 = 1 not(TMP\_87) = 0 TMP\_88 = 1 not(TMP\_88) = 0 TMP\_89 = 3 TMP\_90 = 0 not(TMP\_90) = 1 TMP\_91 = 0 not(TMP\_91) = 1 TMP\_92 = 0 TMP\_93 = 1 not(TMP\_93) = 0 TMP\_94 = 1 not(TMP\_94) = 0 TMP\_95 = 2 TMP\_96 = 0 not(TMP\_96) = 1 TMP\_97 = 0 not(TMP\_97) = 1 TMP\_98 = 1 not(TMP\_98) = 0 TMP\_99 = 1 not(TMP\_99) = 0 TMP\_100 = 1 not(TMP\_100) = 0 TMP\_101 = 2 Area\_0 = 2000 Distance\_0\_Rule\_0 = 1 Distance\_1\_Rule\_0 = 2000 Area\_1 = 1000 Distance\_0\_Rule\_1 = 1 Distance\_1\_Rule\_1 = 1000 Area\_2 = 2000 -(Rule\_2\_LB) = -2 Distance\_0\_Rule\_2 = 1 -(Rule\_2\_LB) = 0 Distance\_1\_Rule\_2 = 2000 Area\_3 = 1000 -(Rule\_3\_LB) = -1 Distance\_0\_Rule\_3 = 1 -(Rule\_3\_LB) = -1000 Distance\_1\_Rule\_3 = 1000 TMP\_102 = 6000 .

- Solution #4 found. 4 Solutions, Resolution 0.102s, 16 Nodes (156.9 n/s), 13 Backtracks, 5 Fails, 0 Restarts

Rule\_2\_LB = 2 Rule\_2\_UB = 3 Rule\_2\_LB = 0 Rule\_2\_UB = 2000 Rule\_3\_LB = 1 Rule\_3\_UB = 2 Rule\_3\_LB = 1000 Rule\_3\_UB = 2000 Overlaps\_0\_0 = 0 Overlaps\_0\_1 = 1 Overlaps\_0\_2 = 0 Overlaps\_0\_3 = 0 Overlaps\_1\_0 = 1 Overlaps\_1\_1 = 0 Overlaps\_1\_2 = 0 Overlaps\_1\_3 = 0 Overlaps\_2\_0 = 0 Overlaps\_2\_1 = 0 Overlaps\_2\_2 = 0 Overlaps\_2\_3 = 0 Overlaps\_3\_0 = 0 Overlaps\_3\_1 = 0 Overlaps\_3\_2 = 0 Overlaps\_3\_3 = 0 TMP\_0 = 0 not(TMP\_0) = 1 TMP\_1 = 1 not(TMP\_1) = 0 TMP\_2 = 1 not(TMP\_2) = 0 TMP\_3 = 1 not(TMP\_3) = 0 TMP\_4 = 3 TMP\_5 = 0 not(TMP\_5) = 1 TMP\_6 = 0 not(TMP\_6) = 1 TMP\_7 = 0 TMP\_8 = 1 not(TMP\_8) = 0 TMP\_9 = 1 not(TMP\_9) = 0 TMP\_10 = 2 TMP\_11 = 0 not(TMP\_11) = 1 TMP\_12 = 0 not(TMP\_12) = 1 TMP\_13 = 1 not(TMP\_13) = 0 TMP\_14 = 1 not(TMP\_14) = 0 TMP\_15 = 1 not(TMP\_15) = 0 TMP\_16 = 2 TMP\_17 = 0 not(TMP\_17) = 1 TMP\_18 = 1 not(TMP\_18) = 0 TMP\_19 = 1 not(TMP\_19) = 0 TMP\_20 = 1 not(TMP\_20) = 0 TMP\_21 = 3 TMP\_22 = 0 not(TMP\_22) = 1 TMP\_23 = 0 not(TMP\_23) = 1 TMP\_24 = 0 TMP\_25 = 1 not(TMP\_25) = 0 TMP\_26 = 1 not(TMP\_26) = 0 TMP\_27 = 2 TMP\_28 = 0 not(TMP\_28) = 1 TMP\_29 = 0 not(TMP\_29) = 1 TMP\_30 = 1 not(TMP\_30) = 0 TMP\_31 = 1 not(TMP\_31) = 0 TMP\_32 = 1 not(TMP\_32) = 0 TMP\_33 = 2 TMP\_34 = 0 not(TMP\_34) = 1 TMP\_35 = 1 not(TMP\_35) = 0 TMP\_36 = 1 not(TMP\_36) = 0 TMP\_37 = 1 not(TMP\_37) = 0 TMP\_38 = 3 TMP\_39 = 0 not(TMP\_39) = 1 TMP\_40 = 0 not(TMP\_40) = 1 TMP\_41 = 0 TMP\_42 = 1 not(TMP\_42) = 0 TMP\_43 = 1 not(TMP\_43) = 0 TMP\_44 = 2 TMP\_45 = 0 not(TMP\_45) = 1 TMP\_46 = 0 not(TMP\_46) = 1 TMP\_47 = 1 not(TMP\_47) = 0 TMP\_48 = 1 not(TMP\_48) = 0 TMP\_49 = 1 not(TMP\_49) = 0 TMP\_50 = 2 TMP\_51 = 0 not(TMP\_51) = 1 TMP\_52 = 1 not(TMP\_52) = 0 TMP\_53 = 1 not(TMP\_53) = 0 TMP\_54 = 1 not(TMP\_54) = 0 TMP\_55 = 3 TMP\_56 = 0 not(TMP\_56) = 1 TMP\_57 = 0 not(TMP\_57) = 1 TMP\_58 = 0 TMP\_59 = 1 not(TMP\_59) = 0 TMP\_60 = 1 not(TMP\_60) = 0 TMP\_61 = 2 TMP\_62 = 0 not(TMP\_62) = 1 TMP\_63 = 0 not(TMP\_63) = 1 TMP\_64 = 1 not(TMP\_64) = 0 TMP\_65 = 1 not(TMP\_65) = 0 TMP\_66 = 1 not(TMP\_66) = 0 TMP\_67 = 2 TMP\_68 = 1 not(TMP\_68) = 0 TMP\_69 = 1 not(TMP\_69) = 0 TMP\_70 = 0 not(TMP\_70) = 1 TMP\_71 = 1 not(TMP\_71) = 0 TMP\_72 = 3 TMP\_73 = 0 not(TMP\_73) = 1 TMP\_74 = 0 not(TMP\_74) = 1 TMP\_75 = 0 TMP\_76 = 1 not(TMP\_76) = 0 TMP\_77 = 1 not(TMP\_77) = 0 TMP\_78 = 2 TMP\_79 = 0 not(TMP\_79) = 1 TMP\_80 = 0 not(TMP\_80) = 1 TMP\_81 = 1 not(TMP\_81) = 0 TMP\_82 = 1 not(TMP\_82) = 0 TMP\_83 = 1 not(TMP\_83) = 0 TMP\_84 = 2 TMP\_85 = 1 not(TMP\_85) = 0 TMP\_86 = 0 not(TMP\_86) = 1 TMP\_87 = 1 not(TMP\_87) = 0 TMP\_88 = 1 not(TMP\_88) = 0 TMP\_89 = 3 TMP\_90 = 0 not(TMP\_90) = 1 TMP\_91 = 0 not(TMP\_91) = 1 TMP\_92 = 0 TMP\_93 = 1 not(TMP\_93) = 0 TMP\_94 = 1 not(TMP\_94) = 0 TMP\_95 = 2 TMP\_96 = 0 not(TMP\_96) = 1 TMP\_97 = 0 not(TMP\_97) = 1 TMP\_98 = 1 not(TMP\_98) = 0 TMP\_99 = 1 not(TMP\_99) = 0 TMP\_100 = 1 not(TMP\_100) = 0 TMP\_101 = 2 Area\_0 = 2000 Distance\_0\_Rule\_0 = 1 Distance\_1\_Rule\_0 = 2000 Area\_1 = 1000 Distance\_0\_Rule\_1 = 1 Distance\_1\_Rule\_1 = 1000 Area\_2 = 2000 -(Rule\_2\_LB) = -2 Distance\_0\_Rule\_2 = 1 -(Rule\_2\_LB) = 0 Distance\_1\_Rule\_2 = 2000 Area\_3 = 1000 -(Rule\_3\_LB) = -1 Distance\_0\_Rule\_3 = 1 -(Rule\_3\_LB) = -1000 Distance\_1\_Rule\_3 = 1000 TMP\_102 = 6000 .

- Solution #5 found. 5 Solutions, Resolution 0.112s, 22 Nodes (195.6 n/s), 22 Backtracks, 9 Fails, 0 Restarts

Rule\_2\_LB = 1 Rule\_2\_UB = 2 Rule\_2\_LB = 1000 Rule\_2\_UB = 2000 Rule\_3\_LB = 2 Rule\_3\_UB = 3 Rule\_3\_LB = 0 Rule\_3\_UB = 2000 Overlaps\_0\_0 = 0 Overlaps\_0\_1 = 0 Overlaps\_0\_2 = 0 Overlaps\_0\_3 = 0 Overlaps\_1\_0 = 0 Overlaps\_1\_1 = 0 Overlaps\_1\_2 = 0 Overlaps\_1\_3 = 0 Overlaps\_2\_0 = 0 Overlaps\_2\_1 = 0 Overlaps\_2\_2 = 0 Overlaps\_2\_3 = 0 Overlaps\_3\_0 = 0 Overlaps\_3\_1 = 0 Overlaps\_3\_2 = 0 Overlaps\_3\_3 = 0 TMP\_0 = 0 not(TMP\_0) = 1 TMP\_1 = 1 not(TMP\_1) = 0 TMP\_2 = 1 not(TMP\_2) = 0 TMP\_3 = 1 not(TMP\_3) = 0 TMP\_4 = 3 TMP\_5 = 0 not(TMP\_5) = 1 TMP\_6 = 0 not(TMP\_6) = 1 TMP\_7 = 0 TMP\_8 = 1 not(TMP\_8) = 0 TMP\_9 = 1 not(TMP\_9) = 0 TMP\_10 = 2 TMP\_11 = 0 not(TMP\_11) = 1 TMP\_12 = 0 not(TMP\_12) = 1 TMP\_13 = 1 not(TMP\_13) = 0 TMP\_14 = 1 not(TMP\_14) = 0 TMP\_15 = 1 not(TMP\_15) = 0 TMP\_16 = 2 TMP\_17 = 1 not(TMP\_17) = 0 TMP\_18 = 1 not(TMP\_18) = 0 TMP\_19 = 0 not(TMP\_19) = 1 TMP\_20 = 1 not(TMP\_20) = 0 TMP\_21 = 3 TMP\_22 = 0 not(TMP\_22) = 1 TMP\_23 = 0 not(TMP\_23) = 1 TMP\_24 = 0 TMP\_25 = 1 not(TMP\_25) = 0 TMP\_26 = 1 not(TMP\_26) = 0 TMP\_27 = 2 TMP\_28 = 0 not(TMP\_28) = 1 TMP\_29 = 0 not(TMP\_29) = 1 TMP\_30 = 1 not(TMP\_30) = 0 TMP\_31 = 1 not(TMP\_31) = 0 TMP\_32 = 1 not(TMP\_32) = 0 TMP\_33 = 2 TMP\_34 = 1 not(TMP\_34) = 0 TMP\_35 = 0 not(TMP\_35) = 1 TMP\_36 = 1 not(TMP\_36) = 0 TMP\_37 = 1 not(TMP\_37) = 0 TMP\_38 = 3 TMP\_39 = 0 not(TMP\_39) = 1 TMP\_40 = 0 not(TMP\_40) = 1 TMP\_41 = 0 TMP\_42 = 1 not(TMP\_42) = 0 TMP\_43 = 1 not(TMP\_43) = 0 TMP\_44 = 2 TMP\_45 = 0 not(TMP\_45) = 1 TMP\_46 = 0 not(TMP\_46) = 1 TMP\_47 = 1 not(TMP\_47) = 0 TMP\_48 = 1 not(TMP\_48) = 0 TMP\_49 = 1 not(TMP\_49) = 0 TMP\_50 = 2 TMP\_51 = 0 not(TMP\_51) = 1 TMP\_52 = 1 not(TMP\_52) = 0 TMP\_53 = 1 not(TMP\_53) = 0 TMP\_54 = 1 not(TMP\_54) = 0 TMP\_55 = 3 TMP\_56 = 0 not(TMP\_56) = 1 TMP\_57 = 0 not(TMP\_57) = 1 TMP\_58 = 0 TMP\_59 = 1 not(TMP\_59) = 0 TMP\_60 = 1 not(TMP\_60) = 0 TMP\_61 = 2 TMP\_62 = 0 not(TMP\_62) = 1 TMP\_63 = 0 not(TMP\_63) = 1 TMP\_64 = 1 not(TMP\_64) = 0 TMP\_65 = 1 not(TMP\_65) = 0 TMP\_66 = 1 not(TMP\_66) = 0 TMP\_67 = 2 TMP\_68 = 0 not(TMP\_68) = 1 TMP\_69 = 1 not(TMP\_69) = 0 TMP\_70 = 1 not(TMP\_70) = 0 TMP\_71 = 1 not(TMP\_71) = 0 TMP\_72 = 3 TMP\_73 = 0 not(TMP\_73) = 1 TMP\_74 = 0 not(TMP\_74) = 1 TMP\_75 = 0 TMP\_76 = 1 not(TMP\_76) = 0 TMP\_77 = 1 not(TMP\_77) = 0 TMP\_78 = 2 TMP\_79 = 0 not(TMP\_79) = 1 TMP\_80 = 0 not(TMP\_80) = 1 TMP\_81 = 1 not(TMP\_81) = 0 TMP\_82 = 1 not(TMP\_82) = 0 TMP\_83 = 1 not(TMP\_83) = 0 TMP\_84 = 2 TMP\_85 = 0 not(TMP\_85) = 1 TMP\_86 = 1 not(TMP\_86) = 0 TMP\_87 = 1 not(TMP\_87) = 0 TMP\_88 = 1 not(TMP\_88) = 0 TMP\_89 = 3 TMP\_90 = 0 not(TMP\_90) = 1 TMP\_91 = 0 not(TMP\_91) = 1 TMP\_92 = 0 TMP\_93 = 1 not(TMP\_93) = 0 TMP\_94 = 1 not(TMP\_94) = 0 TMP\_95 = 2 TMP\_96 = 0 not(TMP\_96) = 1 TMP\_97 = 0 not(TMP\_97) = 1 TMP\_98 = 1 not(TMP\_98) = 0 TMP\_99 = 1 not(TMP\_99) = 0 TMP\_100 = 1 not(TMP\_100) = 0 TMP\_101 = 2 Area\_0 = 2000 Distance\_0\_Rule\_0 = 1 Distance\_1\_Rule\_0 = 2000 Area\_1 = 1000 Distance\_0\_Rule\_1 = 1 Distance\_1\_Rule\_1 = 1000 Area\_2 = 1000 -(Rule\_2\_LB) = -1 Distance\_0\_Rule\_2 = 1 -(Rule\_2\_LB) = -1000 Distance\_1\_Rule\_2 = 1000 Area\_3 = 2000 -(Rule\_3\_LB) = -2 Distance\_0\_Rule\_3 = 1 -(Rule\_3\_LB) = 0 Distance\_1\_Rule\_3 = 2000 TMP\_102 = 6000 .

- Solution #6 found. 6 Solutions, Resolution 0.115s, 23 Nodes (199.4 n/s), 23 Backtracks, 9 Fails, 0 Restarts

Rule\_2\_LB = 1 Rule\_2\_UB = 2 Rule\_2\_LB = 1000 Rule\_2\_UB = 2000 Rule\_3\_LB = 2 Rule\_3\_UB = 3 Rule\_3\_LB = 0 Rule\_3\_UB = 2000 Overlaps\_0\_0 = 0 Overlaps\_0\_1 = 1 Overlaps\_0\_2 = 0 Overlaps\_0\_3 = 0 Overlaps\_1\_0 = 0 Overlaps\_1\_1 = 0 Overlaps\_1\_2 = 0 Overlaps\_1\_3 = 0 Overlaps\_2\_0 = 0 Overlaps\_2\_1 = 0 Overlaps\_2\_2 = 0 Overlaps\_2\_3 = 0 Overlaps\_3\_0 = 0 Overlaps\_3\_1 = 0 Overlaps\_3\_2 = 0 Overlaps\_3\_3 = 0 TMP\_0 = 0 not(TMP\_0) = 1 TMP\_1 = 1 not(TMP\_1) = 0 TMP\_2 = 1 not(TMP\_2) = 0 TMP\_3 = 1 not(TMP\_3) = 0 TMP\_4 = 3 TMP\_5 = 0 not(TMP\_5) = 1 TMP\_6 = 0 not(TMP\_6) = 1 TMP\_7 = 0 TMP\_8 = 1 not(TMP\_8) = 0 TMP\_9 = 1 not(TMP\_9) = 0 TMP\_10 = 2 TMP\_11 = 0 not(TMP\_11) = 1 TMP\_12 = 0 not(TMP\_12) = 1 TMP\_13 = 1 not(TMP\_13) = 0 TMP\_14 = 1 not(TMP\_14) = 0 TMP\_15 = 1 not(TMP\_15) = 0 TMP\_16 = 2 TMP\_17 = 1 not(TMP\_17) = 0 TMP\_18 = 1 not(TMP\_18) = 0 TMP\_19 = 0 not(TMP\_19) = 1 TMP\_20 = 1 not(TMP\_20) = 0 TMP\_21 = 3 TMP\_22 = 0 not(TMP\_22) = 1 TMP\_23 = 0 not(TMP\_23) = 1 TMP\_24 = 0 TMP\_25 = 1 not(TMP\_25) = 0 TMP\_26 = 1 not(TMP\_26) = 0 TMP\_27 = 2 TMP\_28 = 0 not(TMP\_28) = 1 TMP\_29 = 0 not(TMP\_29) = 1 TMP\_30 = 1 not(TMP\_30) = 0 TMP\_31 = 1 not(TMP\_31) = 0 TMP\_32 = 1 not(TMP\_32) = 0 TMP\_33 = 2 TMP\_34 = 1 not(TMP\_34) = 0 TMP\_35 = 0 not(TMP\_35) = 1 TMP\_36 = 1 not(TMP\_36) = 0 TMP\_37 = 1 not(TMP\_37) = 0 TMP\_38 = 3 TMP\_39 = 0 not(TMP\_39) = 1 TMP\_40 = 0 not(TMP\_40) = 1 TMP\_41 = 0 TMP\_42 = 1 not(TMP\_42) = 0 TMP\_43 = 1 not(TMP\_43) = 0 TMP\_44 = 2 TMP\_45 = 0 not(TMP\_45) = 1 TMP\_46 = 0 not(TMP\_46) = 1 TMP\_47 = 1 not(TMP\_47) = 0 TMP\_48 = 1 not(TMP\_48) = 0 TMP\_49 = 1 not(TMP\_49) = 0 TMP\_50 = 2 TMP\_51 = 0 not(TMP\_51) = 1 TMP\_52 = 1 not(TMP\_52) = 0 TMP\_53 = 1 not(TMP\_53) = 0 TMP\_54 = 1 not(TMP\_54) = 0 TMP\_55 = 3 TMP\_56 = 0 not(TMP\_56) = 1 TMP\_57 = 0 not(TMP\_57) = 1 TMP\_58 = 0 TMP\_59 = 1 not(TMP\_59) = 0 TMP\_60 = 1 not(TMP\_60) = 0 TMP\_61 = 2 TMP\_62 = 0 not(TMP\_62) = 1 TMP\_63 = 0 not(TMP\_63) = 1 TMP\_64 = 1 not(TMP\_64) = 0 TMP\_65 = 1 not(TMP\_65) = 0 TMP\_66 = 1 not(TMP\_66) = 0 TMP\_67 = 2 TMP\_68 = 0 not(TMP\_68) = 1 TMP\_69 = 1 not(TMP\_69) = 0 TMP\_70 = 1 not(TMP\_70) = 0 TMP\_71 = 1 not(TMP\_71) = 0 TMP\_72 = 3 TMP\_73 = 0 not(TMP\_73) = 1 TMP\_74 = 0 not(TMP\_74) = 1 TMP\_75 = 0 TMP\_76 = 1 not(TMP\_76) = 0 TMP\_77 = 1 not(TMP\_77) = 0 TMP\_78 = 2 TMP\_79 = 0 not(TMP\_79) = 1 TMP\_80 = 0 not(TMP\_80) = 1 TMP\_81 = 1 not(TMP\_81) = 0 TMP\_82 = 1 not(TMP\_82) = 0 TMP\_83 = 1 not(TMP\_83) = 0 TMP\_84 = 2 TMP\_85 = 0 not(TMP\_85) = 1 TMP\_86 = 1 not(TMP\_86) = 0 TMP\_87 = 1 not(TMP\_87) = 0 TMP\_88 = 1 not(TMP\_88) = 0 TMP\_89 = 3 TMP\_90 = 0 not(TMP\_90) = 1 TMP\_91 = 0 not(TMP\_91) = 1 TMP\_92 = 0 TMP\_93 = 1 not(TMP\_93) = 0 TMP\_94 = 1 not(TMP\_94) = 0 TMP\_95 = 2 TMP\_96 = 0 not(TMP\_96) = 1 TMP\_97 = 0 not(TMP\_97) = 1 TMP\_98 = 1 not(TMP\_98) = 0 TMP\_99 = 1 not(TMP\_99) = 0 TMP\_100 = 1 not(TMP\_100) = 0 TMP\_101 = 2 Area\_0 = 2000 Distance\_0\_Rule\_0 = 1 Distance\_1\_Rule\_0 = 2000 Area\_1 = 1000 Distance\_0\_Rule\_1 = 1 Distance\_1\_Rule\_1 = 1000 Area\_2 = 1000 -(Rule\_2\_LB) = -1 Distance\_0\_Rule\_2 = 1 -(Rule\_2\_LB) = -1000 Distance\_1\_Rule\_2 = 1000 Area\_3 = 2000 -(Rule\_3\_LB) = -2 Distance\_0\_Rule\_3 = 1 -(Rule\_3\_LB) = 0 Distance\_1\_Rule\_3 = 2000 TMP\_102 = 6000 .

- Solution #7 found. 7 Solutions, Resolution 0.121s, 25 Nodes (207.3 n/s), 25 Backtracks, 9 Fails, 0 Restarts

Rule\_2\_LB = 1 Rule\_2\_UB = 2 Rule\_2\_LB = 1000 Rule\_2\_UB = 2000 Rule\_3\_LB = 2 Rule\_3\_UB = 3 Rule\_3\_LB = 0 Rule\_3\_UB = 2000 Overlaps\_0\_0 = 0 Overlaps\_0\_1 = 0 Overlaps\_0\_2 = 0 Overlaps\_0\_3 = 0 Overlaps\_1\_0 = 1 Overlaps\_1\_1 = 0 Overlaps\_1\_2 = 0 Overlaps\_1\_3 = 0 Overlaps\_2\_0 = 0 Overlaps\_2\_1 = 0 Overlaps\_2\_2 = 0 Overlaps\_2\_3 = 0 Overlaps\_3\_0 = 0 Overlaps\_3\_1 = 0 Overlaps\_3\_2 = 0 Overlaps\_3\_3 = 0 TMP\_0 = 0 not(TMP\_0) = 1 TMP\_1 = 1 not(TMP\_1) = 0 TMP\_2 = 1 not(TMP\_2) = 0 TMP\_3 = 1 not(TMP\_3) = 0 TMP\_4 = 3 TMP\_5 = 0 not(TMP\_5) = 1 TMP\_6 = 0 not(TMP\_6) = 1 TMP\_7 = 0 TMP\_8 = 1 not(TMP\_8) = 0 TMP\_9 = 1 not(TMP\_9) = 0 TMP\_10 = 2 TMP\_11 = 0 not(TMP\_11) = 1 TMP\_12 = 0 not(TMP\_12) = 1 TMP\_13 = 1 not(TMP\_13) = 0 TMP\_14 = 1 not(TMP\_14) = 0 TMP\_15 = 1 not(TMP\_15) = 0 TMP\_16 = 2 TMP\_17 = 1 not(TMP\_17) = 0 TMP\_18 = 1 not(TMP\_18) = 0 TMP\_19 = 0 not(TMP\_19) = 1 TMP\_20 = 1 not(TMP\_20) = 0 TMP\_21 = 3 TMP\_22 = 0 not(TMP\_22) = 1 TMP\_23 = 0 not(TMP\_23) = 1 TMP\_24 = 0 TMP\_25 = 1 not(TMP\_25) = 0 TMP\_26 = 1 not(TMP\_26) = 0 TMP\_27 = 2 TMP\_28 = 0 not(TMP\_28) = 1 TMP\_29 = 0 not(TMP\_29) = 1 TMP\_30 = 1 not(TMP\_30) = 0 TMP\_31 = 1 not(TMP\_31) = 0 TMP\_32 = 1 not(TMP\_32) = 0 TMP\_33 = 2 TMP\_34 = 1 not(TMP\_34) = 0 TMP\_35 = 0 not(TMP\_35) = 1 TMP\_36 = 1 not(TMP\_36) = 0 TMP\_37 = 1 not(TMP\_37) = 0 TMP\_38 = 3 TMP\_39 = 0 not(TMP\_39) = 1 TMP\_40 = 0 not(TMP\_40) = 1 TMP\_41 = 0 TMP\_42 = 1 not(TMP\_42) = 0 TMP\_43 = 1 not(TMP\_43) = 0 TMP\_44 = 2 TMP\_45 = 0 not(TMP\_45) = 1 TMP\_46 = 0 not(TMP\_46) = 1 TMP\_47 = 1 not(TMP\_47) = 0 TMP\_48 = 1 not(TMP\_48) = 0 TMP\_49 = 1 not(TMP\_49) = 0 TMP\_50 = 2 TMP\_51 = 0 not(TMP\_51) = 1 TMP\_52 = 1 not(TMP\_52) = 0 TMP\_53 = 1 not(TMP\_53) = 0 TMP\_54 = 1 not(TMP\_54) = 0 TMP\_55 = 3 TMP\_56 = 0 not(TMP\_56) = 1 TMP\_57 = 0 not(TMP\_57) = 1 TMP\_58 = 0 TMP\_59 = 1 not(TMP\_59) = 0 TMP\_60 = 1 not(TMP\_60) = 0 TMP\_61 = 2 TMP\_62 = 0 not(TMP\_62) = 1 TMP\_63 = 0 not(TMP\_63) = 1 TMP\_64 = 1 not(TMP\_64) = 0 TMP\_65 = 1 not(TMP\_65) = 0 TMP\_66 = 1 not(TMP\_66) = 0 TMP\_67 = 2 TMP\_68 = 0 not(TMP\_68) = 1 TMP\_69 = 1 not(TMP\_69) = 0 TMP\_70 = 1 not(TMP\_70) = 0 TMP\_71 = 1 not(TMP\_71) = 0 TMP\_72 = 3 TMP\_73 = 0 not(TMP\_73) = 1 TMP\_74 = 0 not(TMP\_74) = 1 TMP\_75 = 0 TMP\_76 = 1 not(TMP\_76) = 0 TMP\_77 = 1 not(TMP\_77) = 0 TMP\_78 = 2 TMP\_79 = 0 not(TMP\_79) = 1 TMP\_80 = 0 not(TMP\_80) = 1 TMP\_81 = 1 not(TMP\_81) = 0 TMP\_82 = 1 not(TMP\_82) = 0 TMP\_83 = 1 not(TMP\_83) = 0 TMP\_84 = 2 TMP\_85 = 0 not(TMP\_85) = 1 TMP\_86 = 1 not(TMP\_86) = 0 TMP\_87 = 1 not(TMP\_87) = 0 TMP\_88 = 1 not(TMP\_88) = 0 TMP\_89 = 3 TMP\_90 = 0 not(TMP\_90) = 1 TMP\_91 = 0 not(TMP\_91) = 1 TMP\_92 = 0 TMP\_93 = 1 not(TMP\_93) = 0 TMP\_94 = 1 not(TMP\_94) = 0 TMP\_95 = 2 TMP\_96 = 0 not(TMP\_96) = 1 TMP\_97 = 0 not(TMP\_97) = 1 TMP\_98 = 1 not(TMP\_98) = 0 TMP\_99 = 1 not(TMP\_99) = 0 TMP\_100 = 1 not(TMP\_100) = 0 TMP\_101 = 2 Area\_0 = 2000 Distance\_0\_Rule\_0 = 1 Distance\_1\_Rule\_0 = 2000 Area\_1 = 1000 Distance\_0\_Rule\_1 = 1 Distance\_1\_Rule\_1 = 1000 Area\_2 = 1000 -(Rule\_2\_LB) = -1 Distance\_0\_Rule\_2 = 1 -(Rule\_2\_LB) = -1000 Distance\_1\_Rule\_2 = 1000 Area\_3 = 2000 -(Rule\_3\_LB) = -2 Distance\_0\_Rule\_3 = 1 -(Rule\_3\_LB) = 0 Distance\_1\_Rule\_3 = 2000 TMP\_102 = 6000 .

- Solution #8 found. 8 Solutions, Resolution 0.129s, 26 Nodes (202.1 n/s), 26 Backtracks, 9 Fails, 0 Restarts

Rule\_2\_LB = 1 Rule\_2\_UB = 2 Rule\_2\_LB = 1000 Rule\_2\_UB = 2000 Rule\_3\_LB = 2 Rule\_3\_UB = 3 Rule\_3\_LB = 0 Rule\_3\_UB = 2000 Overlaps\_0\_0 = 0 Overlaps\_0\_1 = 1 Overlaps\_0\_2 = 0 Overlaps\_0\_3 = 0 Overlaps\_1\_0 = 1 Overlaps\_1\_1 = 0 Overlaps\_1\_2 = 0 Overlaps\_1\_3 = 0 Overlaps\_2\_0 = 0 Overlaps\_2\_1 = 0 Overlaps\_2\_2 = 0 Overlaps\_2\_3 = 0 Overlaps\_3\_0 = 0 Overlaps\_3\_1 = 0 Overlaps\_3\_2 = 0 Overlaps\_3\_3 = 0 TMP\_0 = 0 not(TMP\_0) = 1 TMP\_1 = 1 not(TMP\_1) = 0 TMP\_2 = 1 not(TMP\_2) = 0 TMP\_3 = 1 not(TMP\_3) = 0 TMP\_4 = 3 TMP\_5 = 0 not(TMP\_5) = 1 TMP\_6 = 0 not(TMP\_6) = 1 TMP\_7 = 0 TMP\_8 = 1 not(TMP\_8) = 0 TMP\_9 = 1 not(TMP\_9) = 0 TMP\_10 = 2 TMP\_11 = 0 not(TMP\_11) = 1 TMP\_12 = 0 not(TMP\_12) = 1 TMP\_13 = 1 not(TMP\_13) = 0 TMP\_14 = 1 not(TMP\_14) = 0 TMP\_15 = 1 not(TMP\_15) = 0 TMP\_16 = 2 TMP\_17 = 1 not(TMP\_17) = 0 TMP\_18 = 1 not(TMP\_18) = 0 TMP\_19 = 0 not(TMP\_19) = 1 TMP\_20 = 1 not(TMP\_20) = 0 TMP\_21 = 3 TMP\_22 = 0 not(TMP\_22) = 1 TMP\_23 = 0 not(TMP\_23) = 1 TMP\_24 = 0 TMP\_25 = 1 not(TMP\_25) = 0 TMP\_26 = 1 not(TMP\_26) = 0 TMP\_27 = 2 TMP\_28 = 0 not(TMP\_28) = 1 TMP\_29 = 0 not(TMP\_29) = 1 TMP\_30 = 1 not(TMP\_30) = 0 TMP\_31 = 1 not(TMP\_31) = 0 TMP\_32 = 1 not(TMP\_32) = 0 TMP\_33 = 2 TMP\_34 = 1 not(TMP\_34) = 0 TMP\_35 = 0 not(TMP\_35) = 1 TMP\_36 = 1 not(TMP\_36) = 0 TMP\_37 = 1 not(TMP\_37) = 0 TMP\_38 = 3 TMP\_39 = 0 not(TMP\_39) = 1 TMP\_40 = 0 not(TMP\_40) = 1 TMP\_41 = 0 TMP\_42 = 1 not(TMP\_42) = 0 TMP\_43 = 1 not(TMP\_43) = 0 TMP\_44 = 2 TMP\_45 = 0 not(TMP\_45) = 1 TMP\_46 = 0 not(TMP\_46) = 1 TMP\_47 = 1 not(TMP\_47) = 0 TMP\_48 = 1 not(TMP\_48) = 0 TMP\_49 = 1 not(TMP\_49) = 0 TMP\_50 = 2 TMP\_51 = 0 not(TMP\_51) = 1 TMP\_52 = 1 not(TMP\_52) = 0 TMP\_53 = 1 not(TMP\_53) = 0 TMP\_54 = 1 not(TMP\_54) = 0 TMP\_55 = 3 TMP\_56 = 0 not(TMP\_56) = 1 TMP\_57 = 0 not(TMP\_57) = 1 TMP\_58 = 0 TMP\_59 = 1 not(TMP\_59) = 0 TMP\_60 = 1 not(TMP\_60) = 0 TMP\_61 = 2 TMP\_62 = 0 not(TMP\_62) = 1 TMP\_63 = 0 not(TMP\_63) = 1 TMP\_64 = 1 not(TMP\_64) = 0 TMP\_65 = 1 not(TMP\_65) = 0 TMP\_66 = 1 not(TMP\_66) = 0 TMP\_67 = 2 TMP\_68 = 0 not(TMP\_68) = 1 TMP\_69 = 1 not(TMP\_69) = 0 TMP\_70 = 1 not(TMP\_70) = 0 TMP\_71 = 1 not(TMP\_71) = 0 TMP\_72 = 3 TMP\_73 = 0 not(TMP\_73) = 1 TMP\_74 = 0 not(TMP\_74) = 1 TMP\_75 = 0 TMP\_76 = 1 not(TMP\_76) = 0 TMP\_77 = 1 not(TMP\_77) = 0 TMP\_78 = 2 TMP\_79 = 0 not(TMP\_79) = 1 TMP\_80 = 0 not(TMP\_80) = 1 TMP\_81 = 1 not(TMP\_81) = 0 TMP\_82 = 1 not(TMP\_82) = 0 TMP\_83 = 1 not(TMP\_83) = 0 TMP\_84 = 2 TMP\_85 = 0 not(TMP\_85) = 1 TMP\_86 = 1 not(TMP\_86) = 0 TMP\_87 = 1 not(TMP\_87) = 0 TMP\_88 = 1 not(TMP\_88) = 0 TMP\_89 = 3 TMP\_90 = 0 not(TMP\_90) = 1 TMP\_91 = 0 not(TMP\_91) = 1 TMP\_92 = 0 TMP\_93 = 1 not(TMP\_93) = 0 TMP\_94 = 1 not(TMP\_94) = 0 TMP\_95 = 2 TMP\_96 = 0 not(TMP\_96) = 1 TMP\_97 = 0 not(TMP\_97) = 1 TMP\_98 = 1 not(TMP\_98) = 0 TMP\_99 = 1 not(TMP\_99) = 0 TMP\_100 = 1 not(TMP\_100) = 0 TMP\_101 = 2 Area\_0 = 2000 Distance\_0\_Rule\_0 = 1 Distance\_1\_Rule\_0 = 2000 Area\_1 = 1000 Distance\_0\_Rule\_1 = 1 Distance\_1\_Rule\_1 = 1000 Area\_2 = 1000 -(Rule\_2\_LB) = -1 Distance\_0\_Rule\_2 = 1 -(Rule\_2\_LB) = -1000 Distance\_1\_Rule\_2 = 1000 Area\_3 = 2000 -(Rule\_3\_LB) = -2 Distance\_0\_Rule\_3 = 1 -(Rule\_3\_LB) = 0 Distance\_1\_Rule\_3 = 2000 TMP\_102 = 6000 .

- Solution #9 found. 9 Solutions, Resolution 0.135s, 29 Nodes (214.0 n/s), 31 Backtracks, 9 Fails, 0 Restarts

Rule\_2\_LB = 1 Rule\_2\_UB = 3 Rule\_2\_LB = 1000 Rule\_2\_UB = 2000 Rule\_3\_LB = 2 Rule\_3\_UB = 3 Rule\_3\_LB = 0 Rule\_3\_UB = 1000 Overlaps\_0\_0 = 0 Overlaps\_0\_1 = 0 Overlaps\_0\_2 = 0 Overlaps\_0\_3 = 0 Overlaps\_1\_0 = 0 Overlaps\_1\_1 = 0 Overlaps\_1\_2 = 0 Overlaps\_1\_3 = 0 Overlaps\_2\_0 = 0 Overlaps\_2\_1 = 0 Overlaps\_2\_2 = 0 Overlaps\_2\_3 = 0 Overlaps\_3\_0 = 0 Overlaps\_3\_1 = 0 Overlaps\_3\_2 = 0 Overlaps\_3\_3 = 0 TMP\_0 = 0 not(TMP\_0) = 1 TMP\_1 = 1 not(TMP\_1) = 0 TMP\_2 = 1 not(TMP\_2) = 0 TMP\_3 = 1 not(TMP\_3) = 0 TMP\_4 = 3 TMP\_5 = 0 not(TMP\_5) = 1 TMP\_6 = 0 not(TMP\_6) = 1 TMP\_7 = 0 TMP\_8 = 1 not(TMP\_8) = 0 TMP\_9 = 1 not(TMP\_9) = 0 TMP\_10 = 2 TMP\_11 = 0 not(TMP\_11) = 1 TMP\_12 = 0 not(TMP\_12) = 1 TMP\_13 = 1 not(TMP\_13) = 0 TMP\_14 = 1 not(TMP\_14) = 0 TMP\_15 = 1 not(TMP\_15) = 0 TMP\_16 = 2 TMP\_17 = 1 not(TMP\_17) = 0 TMP\_18 = 1 not(TMP\_18) = 0 TMP\_19 = 0 not(TMP\_19) = 1 TMP\_20 = 1 not(TMP\_20) = 0 TMP\_21 = 3 TMP\_22 = 0 not(TMP\_22) = 1 TMP\_23 = 0 not(TMP\_23) = 1 TMP\_24 = 0 TMP\_25 = 1 not(TMP\_25) = 0 TMP\_26 = 1 not(TMP\_26) = 0 TMP\_27 = 2 TMP\_28 = 0 not(TMP\_28) = 1 TMP\_29 = 0 not(TMP\_29) = 1 TMP\_30 = 1 not(TMP\_30) = 0 TMP\_31 = 1 not(TMP\_31) = 0 TMP\_32 = 1 not(TMP\_32) = 0 TMP\_33 = 2 TMP\_34 = 1 not(TMP\_34) = 0 TMP\_35 = 1 not(TMP\_35) = 0 TMP\_36 = 0 not(TMP\_36) = 1 TMP\_37 = 1 not(TMP\_37) = 0 TMP\_38 = 3 TMP\_39 = 0 not(TMP\_39) = 1 TMP\_40 = 0 not(TMP\_40) = 1 TMP\_41 = 0 TMP\_42 = 1 not(TMP\_42) = 0 TMP\_43 = 1 not(TMP\_43) = 0 TMP\_44 = 2 TMP\_45 = 0 not(TMP\_45) = 1 TMP\_46 = 0 not(TMP\_46) = 1 TMP\_47 = 1 not(TMP\_47) = 0 TMP\_48 = 1 not(TMP\_48) = 0 TMP\_49 = 1 not(TMP\_49) = 0 TMP\_50 = 2 TMP\_51 = 0 not(TMP\_51) = 1 TMP\_52 = 1 not(TMP\_52) = 0 TMP\_53 = 1 not(TMP\_53) = 0 TMP\_54 = 1 not(TMP\_54) = 0 TMP\_55 = 3 TMP\_56 = 0 not(TMP\_56) = 1 TMP\_57 = 0 not(TMP\_57) = 1 TMP\_58 = 0 TMP\_59 = 1 not(TMP\_59) = 0 TMP\_60 = 1 not(TMP\_60) = 0 TMP\_61 = 2 TMP\_62 = 0 not(TMP\_62) = 1 TMP\_63 = 0 not(TMP\_63) = 1 TMP\_64 = 1 not(TMP\_64) = 0 TMP\_65 = 1 not(TMP\_65) = 0 TMP\_66 = 1 not(TMP\_66) = 0 TMP\_67 = 2 TMP\_68 = 0 not(TMP\_68) = 1 TMP\_69 = 1 not(TMP\_69) = 0 TMP\_70 = 1 not(TMP\_70) = 0 TMP\_71 = 1 not(TMP\_71) = 0 TMP\_72 = 3 TMP\_73 = 0 not(TMP\_73) = 1 TMP\_74 = 0 not(TMP\_74) = 1 TMP\_75 = 0 TMP\_76 = 1 not(TMP\_76) = 0 TMP\_77 = 1 not(TMP\_77) = 0 TMP\_78 = 2 TMP\_79 = 0 not(TMP\_79) = 1 TMP\_80 = 0 not(TMP\_80) = 1 TMP\_81 = 1 not(TMP\_81) = 0 TMP\_82 = 1 not(TMP\_82) = 0 TMP\_83 = 1 not(TMP\_83) = 0 TMP\_84 = 2 TMP\_85 = 1 not(TMP\_85) = 0 TMP\_86 = 1 not(TMP\_86) = 0 TMP\_87 = 1 not(TMP\_87) = 0 TMP\_88 = 0 not(TMP\_88) = 1 TMP\_89 = 3 TMP\_90 = 0 not(TMP\_90) = 1 TMP\_91 = 0 not(TMP\_91) = 1 TMP\_92 = 0 TMP\_93 = 1 not(TMP\_93) = 0 TMP\_94 = 1 not(TMP\_94) = 0 TMP\_95 = 2 TMP\_96 = 0 not(TMP\_96) = 1 TMP\_97 = 0 not(TMP\_97) = 1 TMP\_98 = 1 not(TMP\_98) = 0 TMP\_99 = 1 not(TMP\_99) = 0 TMP\_100 = 1 not(TMP\_100) = 0 TMP\_101 = 2 Area\_0 = 2000 Distance\_0\_Rule\_0 = 1 Distance\_1\_Rule\_0 = 2000 Area\_1 = 1000 Distance\_0\_Rule\_1 = 1 Distance\_1\_Rule\_1 = 1000 Area\_2 = 2000 -(Rule\_2\_LB) = -1 Distance\_0\_Rule\_2 = 2 -(Rule\_2\_LB) = -1000 Distance\_1\_Rule\_2 = 1000 Area\_3 = 1000 -(Rule\_3\_LB) = -2 Distance\_0\_Rule\_3 = 1 -(Rule\_3\_LB) = 0 Distance\_1\_Rule\_3 = 1000 TMP\_102 = 6000 .

- Solution #10 found. 10 Solutions, Resolution 0.138s, 30 Nodes (217.5 n/s), 32 Backtracks, 9 Fails, 0 Restarts

Rule\_2\_LB = 1 Rule\_2\_UB = 3 Rule\_2\_LB = 1000 Rule\_2\_UB = 2000 Rule\_3\_LB = 2 Rule\_3\_UB = 3 Rule\_3\_LB = 0 Rule\_3\_UB = 1000 Overlaps\_0\_0 = 0 Overlaps\_0\_1 = 0 Overlaps\_0\_2 = 0 Overlaps\_0\_3 = 0 Overlaps\_1\_0 = 1 Overlaps\_1\_1 = 0 Overlaps\_1\_2 = 0 Overlaps\_1\_3 = 0 Overlaps\_2\_0 = 0 Overlaps\_2\_1 = 0 Overlaps\_2\_2 = 0 Overlaps\_2\_3 = 0 Overlaps\_3\_0 = 0 Overlaps\_3\_1 = 0 Overlaps\_3\_2 = 0 Overlaps\_3\_3 = 0 TMP\_0 = 0 not(TMP\_0) = 1 TMP\_1 = 1 not(TMP\_1) = 0 TMP\_2 = 1 not(TMP\_2) = 0 TMP\_3 = 1 not(TMP\_3) = 0 TMP\_4 = 3 TMP\_5 = 0 not(TMP\_5) = 1 TMP\_6 = 0 not(TMP\_6) = 1 TMP\_7 = 0 TMP\_8 = 1 not(TMP\_8) = 0 TMP\_9 = 1 not(TMP\_9) = 0 TMP\_10 = 2 TMP\_11 = 0 not(TMP\_11) = 1 TMP\_12 = 0 not(TMP\_12) = 1 TMP\_13 = 1 not(TMP\_13) = 0 TMP\_14 = 1 not(TMP\_14) = 0 TMP\_15 = 1 not(TMP\_15) = 0 TMP\_16 = 2 TMP\_17 = 1 not(TMP\_17) = 0 TMP\_18 = 1 not(TMP\_18) = 0 TMP\_19 = 0 not(TMP\_19) = 1 TMP\_20 = 1 not(TMP\_20) = 0 TMP\_21 = 3 TMP\_22 = 0 not(TMP\_22) = 1 TMP\_23 = 0 not(TMP\_23) = 1 TMP\_24 = 0 TMP\_25 = 1 not(TMP\_25) = 0 TMP\_26 = 1 not(TMP\_26) = 0 TMP\_27 = 2 TMP\_28 = 0 not(TMP\_28) = 1 TMP\_29 = 0 not(TMP\_29) = 1 TMP\_30 = 1 not(TMP\_30) = 0 TMP\_31 = 1 not(TMP\_31) = 0 TMP\_32 = 1 not(TMP\_32) = 0 TMP\_33 = 2 TMP\_34 = 1 not(TMP\_34) = 0 TMP\_35 = 1 not(TMP\_35) = 0 TMP\_36 = 0 not(TMP\_36) = 1 TMP\_37 = 1 not(TMP\_37) = 0 TMP\_38 = 3 TMP\_39 = 0 not(TMP\_39) = 1 TMP\_40 = 0 not(TMP\_40) = 1 TMP\_41 = 0 TMP\_42 = 1 not(TMP\_42) = 0 TMP\_43 = 1 not(TMP\_43) = 0 TMP\_44 = 2 TMP\_45 = 0 not(TMP\_45) = 1 TMP\_46 = 0 not(TMP\_46) = 1 TMP\_47 = 1 not(TMP\_47) = 0 TMP\_48 = 1 not(TMP\_48) = 0 TMP\_49 = 1 not(TMP\_49) = 0 TMP\_50 = 2 TMP\_51 = 0 not(TMP\_51) = 1 TMP\_52 = 1 not(TMP\_52) = 0 TMP\_53 = 1 not(TMP\_53) = 0 TMP\_54 = 1 not(TMP\_54) = 0 TMP\_55 = 3 TMP\_56 = 0 not(TMP\_56) = 1 TMP\_57 = 0 not(TMP\_57) = 1 TMP\_58 = 0 TMP\_59 = 1 not(TMP\_59) = 0 TMP\_60 = 1 not(TMP\_60) = 0 TMP\_61 = 2 TMP\_62 = 0 not(TMP\_62) = 1 TMP\_63 = 0 not(TMP\_63) = 1 TMP\_64 = 1 not(TMP\_64) = 0 TMP\_65 = 1 not(TMP\_65) = 0 TMP\_66 = 1 not(TMP\_66) = 0 TMP\_67 = 2 TMP\_68 = 0 not(TMP\_68) = 1 TMP\_69 = 1 not(TMP\_69) = 0 TMP\_70 = 1 not(TMP\_70) = 0 TMP\_71 = 1 not(TMP\_71) = 0 TMP\_72 = 3 TMP\_73 = 0 not(TMP\_73) = 1 TMP\_74 = 0 not(TMP\_74) = 1 TMP\_75 = 0 TMP\_76 = 1 not(TMP\_76) = 0 TMP\_77 = 1 not(TMP\_77) = 0 TMP\_78 = 2 TMP\_79 = 0 not(TMP\_79) = 1 TMP\_80 = 0 not(TMP\_80) = 1 TMP\_81 = 1 not(TMP\_81) = 0 TMP\_82 = 1 not(TMP\_82) = 0 TMP\_83 = 1 not(TMP\_83) = 0 TMP\_84 = 2 TMP\_85 = 1 not(TMP\_85) = 0 TMP\_86 = 1 not(TMP\_86) = 0 TMP\_87 = 1 not(TMP\_87) = 0 TMP\_88 = 0 not(TMP\_88) = 1 TMP\_89 = 3 TMP\_90 = 0 not(TMP\_90) = 1 TMP\_91 = 0 not(TMP\_91) = 1 TMP\_92 = 0 TMP\_93 = 1 not(TMP\_93) = 0 TMP\_94 = 1 not(TMP\_94) = 0 TMP\_95 = 2 TMP\_96 = 0 not(TMP\_96) = 1 TMP\_97 = 0 not(TMP\_97) = 1 TMP\_98 = 1 not(TMP\_98) = 0 TMP\_99 = 1 not(TMP\_99) = 0 TMP\_100 = 1 not(TMP\_100) = 0 TMP\_101 = 2 Area\_0 = 2000 Distance\_0\_Rule\_0 = 1 Distance\_1\_Rule\_0 = 2000 Area\_1 = 1000 Distance\_0\_Rule\_1 = 1 Distance\_1\_Rule\_1 = 1000 Area\_2 = 2000 -(Rule\_2\_LB) = -1 Distance\_0\_Rule\_2 = 2 -(Rule\_2\_LB) = -1000 Distance\_1\_Rule\_2 = 1000 Area\_3 = 1000 -(Rule\_3\_LB) = -2 Distance\_0\_Rule\_3 = 1 -(Rule\_3\_LB) = 0 Distance\_1\_Rule\_3 = 1000 TMP\_102 = 6000 .

- Solution #11 found. 11 Solutions, Resolution 0.141s, 32 Nodes (227.6 n/s), 34 Backtracks, 9 Fails, 0 Restarts

Rule\_2\_LB = 1 Rule\_2\_UB = 3 Rule\_2\_LB = 1000 Rule\_2\_UB = 2000 Rule\_3\_LB = 2 Rule\_3\_UB = 3 Rule\_3\_LB = 0 Rule\_3\_UB = 1000 Overlaps\_0\_0 = 0 Overlaps\_0\_1 = 1 Overlaps\_0\_2 = 0 Overlaps\_0\_3 = 0 Overlaps\_1\_0 = 0 Overlaps\_1\_1 = 0 Overlaps\_1\_2 = 0 Overlaps\_1\_3 = 0 Overlaps\_2\_0 = 0 Overlaps\_2\_1 = 0 Overlaps\_2\_2 = 0 Overlaps\_2\_3 = 0 Overlaps\_3\_0 = 0 Overlaps\_3\_1 = 0 Overlaps\_3\_2 = 0 Overlaps\_3\_3 = 0 TMP\_0 = 0 not(TMP\_0) = 1 TMP\_1 = 1 not(TMP\_1) = 0 TMP\_2 = 1 not(TMP\_2) = 0 TMP\_3 = 1 not(TMP\_3) = 0 TMP\_4 = 3 TMP\_5 = 0 not(TMP\_5) = 1 TMP\_6 = 0 not(TMP\_6) = 1 TMP\_7 = 0 TMP\_8 = 1 not(TMP\_8) = 0 TMP\_9 = 1 not(TMP\_9) = 0 TMP\_10 = 2 TMP\_11 = 0 not(TMP\_11) = 1 TMP\_12 = 0 not(TMP\_12) = 1 TMP\_13 = 1 not(TMP\_13) = 0 TMP\_14 = 1 not(TMP\_14) = 0 TMP\_15 = 1 not(TMP\_15) = 0 TMP\_16 = 2 TMP\_17 = 1 not(TMP\_17) = 0 TMP\_18 = 1 not(TMP\_18) = 0 TMP\_19 = 0 not(TMP\_19) = 1 TMP\_20 = 1 not(TMP\_20) = 0 TMP\_21 = 3 TMP\_22 = 0 not(TMP\_22) = 1 TMP\_23 = 0 not(TMP\_23) = 1 TMP\_24 = 0 TMP\_25 = 1 not(TMP\_25) = 0 TMP\_26 = 1 not(TMP\_26) = 0 TMP\_27 = 2 TMP\_28 = 0 not(TMP\_28) = 1 TMP\_29 = 0 not(TMP\_29) = 1 TMP\_30 = 1 not(TMP\_30) = 0 TMP\_31 = 1 not(TMP\_31) = 0 TMP\_32 = 1 not(TMP\_32) = 0 TMP\_33 = 2 TMP\_34 = 1 not(TMP\_34) = 0 TMP\_35 = 1 not(TMP\_35) = 0 TMP\_36 = 0 not(TMP\_36) = 1 TMP\_37 = 1 not(TMP\_37) = 0 TMP\_38 = 3 TMP\_39 = 0 not(TMP\_39) = 1 TMP\_40 = 0 not(TMP\_40) = 1 TMP\_41 = 0 TMP\_42 = 1 not(TMP\_42) = 0 TMP\_43 = 1 not(TMP\_43) = 0 TMP\_44 = 2 TMP\_45 = 0 not(TMP\_45) = 1 TMP\_46 = 0 not(TMP\_46) = 1 TMP\_47 = 1 not(TMP\_47) = 0 TMP\_48 = 1 not(TMP\_48) = 0 TMP\_49 = 1 not(TMP\_49) = 0 TMP\_50 = 2 TMP\_51 = 0 not(TMP\_51) = 1 TMP\_52 = 1 not(TMP\_52) = 0 TMP\_53 = 1 not(TMP\_53) = 0 TMP\_54 = 1 not(TMP\_54) = 0 TMP\_55 = 3 TMP\_56 = 0 not(TMP\_56) = 1 TMP\_57 = 0 not(TMP\_57) = 1 TMP\_58 = 0 TMP\_59 = 1 not(TMP\_59) = 0 TMP\_60 = 1 not(TMP\_60) = 0 TMP\_61 = 2 TMP\_62 = 0 not(TMP\_62) = 1 TMP\_63 = 0 not(TMP\_63) = 1 TMP\_64 = 1 not(TMP\_64) = 0 TMP\_65 = 1 not(TMP\_65) = 0 TMP\_66 = 1 not(TMP\_66) = 0 TMP\_67 = 2 TMP\_68 = 0 not(TMP\_68) = 1 TMP\_69 = 1 not(TMP\_69) = 0 TMP\_70 = 1 not(TMP\_70) = 0 TMP\_71 = 1 not(TMP\_71) = 0 TMP\_72 = 3 TMP\_73 = 0 not(TMP\_73) = 1 TMP\_74 = 0 not(TMP\_74) = 1 TMP\_75 = 0 TMP\_76 = 1 not(TMP\_76) = 0 TMP\_77 = 1 not(TMP\_77) = 0 TMP\_78 = 2 TMP\_79 = 0 not(TMP\_79) = 1 TMP\_80 = 0 not(TMP\_80) = 1 TMP\_81 = 1 not(TMP\_81) = 0 TMP\_82 = 1 not(TMP\_82) = 0 TMP\_83 = 1 not(TMP\_83) = 0 TMP\_84 = 2 TMP\_85 = 1 not(TMP\_85) = 0 TMP\_86 = 1 not(TMP\_86) = 0 TMP\_87 = 1 not(TMP\_87) = 0 TMP\_88 = 0 not(TMP\_88) = 1 TMP\_89 = 3 TMP\_90 = 0 not(TMP\_90) = 1 TMP\_91 = 0 not(TMP\_91) = 1 TMP\_92 = 0 TMP\_93 = 1 not(TMP\_93) = 0 TMP\_94 = 1 not(TMP\_94) = 0 TMP\_95 = 2 TMP\_96 = 0 not(TMP\_96) = 1 TMP\_97 = 0 not(TMP\_97) = 1 TMP\_98 = 1 not(TMP\_98) = 0 TMP\_99 = 1 not(TMP\_99) = 0 TMP\_100 = 1 not(TMP\_100) = 0 TMP\_101 = 2 Area\_0 = 2000 Distance\_0\_Rule\_0 = 1 Distance\_1\_Rule\_0 = 2000 Area\_1 = 1000 Distance\_0\_Rule\_1 = 1 Distance\_1\_Rule\_1 = 1000 Area\_2 = 2000 -(Rule\_2\_LB) = -1 Distance\_0\_Rule\_2 = 2 -(Rule\_2\_LB) = -1000 Distance\_1\_Rule\_2 = 1000 Area\_3 = 1000 -(Rule\_3\_LB) = -2 Distance\_0\_Rule\_3 = 1 -(Rule\_3\_LB) = 0 Distance\_1\_Rule\_3 = 1000 TMP\_102 = 6000 .

- Solution #12 found. 12 Solutions, Resolution 0.145s, 33 Nodes (228.0 n/s), 35 Backtracks, 9 Fails, 0 Restarts

Rule\_2\_LB = 1 Rule\_2\_UB = 3 Rule\_2\_LB = 1000 Rule\_2\_UB = 2000 Rule\_3\_LB = 2 Rule\_3\_UB = 3 Rule\_3\_LB = 0 Rule\_3\_UB = 1000 Overlaps\_0\_0 = 0 Overlaps\_0\_1 = 1 Overlaps\_0\_2 = 0 Overlaps\_0\_3 = 0 Overlaps\_1\_0 = 1 Overlaps\_1\_1 = 0 Overlaps\_1\_2 = 0 Overlaps\_1\_3 = 0 Overlaps\_2\_0 = 0 Overlaps\_2\_1 = 0 Overlaps\_2\_2 = 0 Overlaps\_2\_3 = 0 Overlaps\_3\_0 = 0 Overlaps\_3\_1 = 0 Overlaps\_3\_2 = 0 Overlaps\_3\_3 = 0 TMP\_0 = 0 not(TMP\_0) = 1 TMP\_1 = 1 not(TMP\_1) = 0 TMP\_2 = 1 not(TMP\_2) = 0 TMP\_3 = 1 not(TMP\_3) = 0 TMP\_4 = 3 TMP\_5 = 0 not(TMP\_5) = 1 TMP\_6 = 0 not(TMP\_6) = 1 TMP\_7 = 0 TMP\_8 = 1 not(TMP\_8) = 0 TMP\_9 = 1 not(TMP\_9) = 0 TMP\_10 = 2 TMP\_11 = 0 not(TMP\_11) = 1 TMP\_12 = 0 not(TMP\_12) = 1 TMP\_13 = 1 not(TMP\_13) = 0 TMP\_14 = 1 not(TMP\_14) = 0 TMP\_15 = 1 not(TMP\_15) = 0 TMP\_16 = 2 TMP\_17 = 1 not(TMP\_17) = 0 TMP\_18 = 1 not(TMP\_18) = 0 TMP\_19 = 0 not(TMP\_19) = 1 TMP\_20 = 1 not(TMP\_20) = 0 TMP\_21 = 3 TMP\_22 = 0 not(TMP\_22) = 1 TMP\_23 = 0 not(TMP\_23) = 1 TMP\_24 = 0 TMP\_25 = 1 not(TMP\_25) = 0 TMP\_26 = 1 not(TMP\_26) = 0 TMP\_27 = 2 TMP\_28 = 0 not(TMP\_28) = 1 TMP\_29 = 0 not(TMP\_29) = 1 TMP\_30 = 1 not(TMP\_30) = 0 TMP\_31 = 1 not(TMP\_31) = 0 TMP\_32 = 1 not(TMP\_32) = 0 TMP\_33 = 2 TMP\_34 = 1 not(TMP\_34) = 0 TMP\_35 = 1 not(TMP\_35) = 0 TMP\_36 = 0 not(TMP\_36) = 1 TMP\_37 = 1 not(TMP\_37) = 0 TMP\_38 = 3 TMP\_39 = 0 not(TMP\_39) = 1 TMP\_40 = 0 not(TMP\_40) = 1 TMP\_41 = 0 TMP\_42 = 1 not(TMP\_42) = 0 TMP\_43 = 1 not(TMP\_43) = 0 TMP\_44 = 2 TMP\_45 = 0 not(TMP\_45) = 1 TMP\_46 = 0 not(TMP\_46) = 1 TMP\_47 = 1 not(TMP\_47) = 0 TMP\_48 = 1 not(TMP\_48) = 0 TMP\_49 = 1 not(TMP\_49) = 0 TMP\_50 = 2 TMP\_51 = 0 not(TMP\_51) = 1 TMP\_52 = 1 not(TMP\_52) = 0 TMP\_53 = 1 not(TMP\_53) = 0 TMP\_54 = 1 not(TMP\_54) = 0 TMP\_55 = 3 TMP\_56 = 0 not(TMP\_56) = 1 TMP\_57 = 0 not(TMP\_57) = 1 TMP\_58 = 0 TMP\_59 = 1 not(TMP\_59) = 0 TMP\_60 = 1 not(TMP\_60) = 0 TMP\_61 = 2 TMP\_62 = 0 not(TMP\_62) = 1 TMP\_63 = 0 not(TMP\_63) = 1 TMP\_64 = 1 not(TMP\_64) = 0 TMP\_65 = 1 not(TMP\_65) = 0 TMP\_66 = 1 not(TMP\_66) = 0 TMP\_67 = 2 TMP\_68 = 0 not(TMP\_68) = 1 TMP\_69 = 1 not(TMP\_69) = 0 TMP\_70 = 1 not(TMP\_70) = 0 TMP\_71 = 1 not(TMP\_71) = 0 TMP\_72 = 3 TMP\_73 = 0 not(TMP\_73) = 1 TMP\_74 = 0 not(TMP\_74) = 1 TMP\_75 = 0 TMP\_76 = 1 not(TMP\_76) = 0 TMP\_77 = 1 not(TMP\_77) = 0 TMP\_78 = 2 TMP\_79 = 0 not(TMP\_79) = 1 TMP\_80 = 0 not(TMP\_80) = 1 TMP\_81 = 1 not(TMP\_81) = 0 TMP\_82 = 1 not(TMP\_82) = 0 TMP\_83 = 1 not(TMP\_83) = 0 TMP\_84 = 2 TMP\_85 = 1 not(TMP\_85) = 0 TMP\_86 = 1 not(TMP\_86) = 0 TMP\_87 = 1 not(TMP\_87) = 0 TMP\_88 = 0 not(TMP\_88) = 1 TMP\_89 = 3 TMP\_90 = 0 not(TMP\_90) = 1 TMP\_91 = 0 not(TMP\_91) = 1 TMP\_92 = 0 TMP\_93 = 1 not(TMP\_93) = 0 TMP\_94 = 1 not(TMP\_94) = 0 TMP\_95 = 2 TMP\_96 = 0 not(TMP\_96) = 1 TMP\_97 = 0 not(TMP\_97) = 1 TMP\_98 = 1 not(TMP\_98) = 0 TMP\_99 = 1 not(TMP\_99) = 0 TMP\_100 = 1 not(TMP\_100) = 0 TMP\_101 = 2 Area\_0 = 2000 Distance\_0\_Rule\_0 = 1 Distance\_1\_Rule\_0 = 2000 Area\_1 = 1000 Distance\_0\_Rule\_1 = 1 Distance\_1\_Rule\_1 = 1000 Area\_2 = 2000 -(Rule\_2\_LB) = -1 Distance\_0\_Rule\_2 = 2 -(Rule\_2\_LB) = -1000 Distance\_1\_Rule\_2 = 1000 Area\_3 = 1000 -(Rule\_3\_LB) = -2 Distance\_0\_Rule\_3 = 1 -(Rule\_3\_LB) = 0 Distance\_1\_Rule\_3 = 1000 TMP\_102 = 6000 .

- Solution #13 found. 13 Solutions, Resolution 0.150s, 38 Nodes (253.9 n/s), 42 Backtracks, 10 Fails, 0 Restarts

Rule\_2\_LB = 2 Rule\_2\_UB = 3 Rule\_2\_LB = 0 Rule\_2\_UB = 1000 Rule\_3\_LB = 1 Rule\_3\_UB = 3 Rule\_3\_LB = 1000 Rule\_3\_UB = 2000 Overlaps\_0\_0 = 0 Overlaps\_0\_1 = 0 Overlaps\_0\_2 = 0 Overlaps\_0\_3 = 0 Overlaps\_1\_0 = 0 Overlaps\_1\_1 = 0 Overlaps\_1\_2 = 0 Overlaps\_1\_3 = 0 Overlaps\_2\_0 = 0 Overlaps\_2\_1 = 0 Overlaps\_2\_2 = 0 Overlaps\_2\_3 = 0 Overlaps\_3\_0 = 0 Overlaps\_3\_1 = 0 Overlaps\_3\_2 = 0 Overlaps\_3\_3 = 0 TMP\_0 = 0 not(TMP\_0) = 1 TMP\_1 = 1 not(TMP\_1) = 0 TMP\_2 = 1 not(TMP\_2) = 0 TMP\_3 = 1 not(TMP\_3) = 0 TMP\_4 = 3 TMP\_5 = 0 not(TMP\_5) = 1 TMP\_6 = 0 not(TMP\_6) = 1 TMP\_7 = 0 TMP\_8 = 1 not(TMP\_8) = 0 TMP\_9 = 1 not(TMP\_9) = 0 TMP\_10 = 2 TMP\_11 = 0 not(TMP\_11) = 1 TMP\_12 = 0 not(TMP\_12) = 1 TMP\_13 = 1 not(TMP\_13) = 0 TMP\_14 = 1 not(TMP\_14) = 0 TMP\_15 = 1 not(TMP\_15) = 0 TMP\_16 = 2 TMP\_17 = 0 not(TMP\_17) = 1 TMP\_18 = 1 not(TMP\_18) = 0 TMP\_19 = 1 not(TMP\_19) = 0 TMP\_20 = 1 not(TMP\_20) = 0 TMP\_21 = 3 TMP\_22 = 0 not(TMP\_22) = 1 TMP\_23 = 0 not(TMP\_23) = 1 TMP\_24 = 0 TMP\_25 = 1 not(TMP\_25) = 0 TMP\_26 = 1 not(TMP\_26) = 0 TMP\_27 = 2 TMP\_28 = 0 not(TMP\_28) = 1 TMP\_29 = 0 not(TMP\_29) = 1 TMP\_30 = 1 not(TMP\_30) = 0 TMP\_31 = 1 not(TMP\_31) = 0 TMP\_32 = 1 not(TMP\_32) = 0 TMP\_33 = 2 TMP\_34 = 1 not(TMP\_34) = 0 TMP\_35 = 1 not(TMP\_35) = 0 TMP\_36 = 1 not(TMP\_36) = 0 TMP\_37 = 0 not(TMP\_37) = 1 TMP\_38 = 3 TMP\_39 = 0 not(TMP\_39) = 1 TMP\_40 = 0 not(TMP\_40) = 1 TMP\_41 = 0 TMP\_42 = 1 not(TMP\_42) = 0 TMP\_43 = 1 not(TMP\_43) = 0 TMP\_44 = 2 TMP\_45 = 0 not(TMP\_45) = 1 TMP\_46 = 0 not(TMP\_46) = 1 TMP\_47 = 1 not(TMP\_47) = 0 TMP\_48 = 1 not(TMP\_48) = 0 TMP\_49 = 1 not(TMP\_49) = 0 TMP\_50 = 2 TMP\_51 = 0 not(TMP\_51) = 1 TMP\_52 = 1 not(TMP\_52) = 0 TMP\_53 = 1 not(TMP\_53) = 0 TMP\_54 = 1 not(TMP\_54) = 0 TMP\_55 = 3 TMP\_56 = 0 not(TMP\_56) = 1 TMP\_57 = 0 not(TMP\_57) = 1 TMP\_58 = 0 TMP\_59 = 1 not(TMP\_59) = 0 TMP\_60 = 1 not(TMP\_60) = 0 TMP\_61 = 2 TMP\_62 = 0 not(TMP\_62) = 1 TMP\_63 = 0 not(TMP\_63) = 1 TMP\_64 = 1 not(TMP\_64) = 0 TMP\_65 = 1 not(TMP\_65) = 0 TMP\_66 = 1 not(TMP\_66) = 0 TMP\_67 = 2 TMP\_68 = 1 not(TMP\_68) = 0 TMP\_69 = 1 not(TMP\_69) = 0 TMP\_70 = 0 not(TMP\_70) = 1 TMP\_71 = 1 not(TMP\_71) = 0 TMP\_72 = 3 TMP\_73 = 0 not(TMP\_73) = 1 TMP\_74 = 0 not(TMP\_74) = 1 TMP\_75 = 0 TMP\_76 = 1 not(TMP\_76) = 0 TMP\_77 = 1 not(TMP\_77) = 0 TMP\_78 = 2 TMP\_79 = 0 not(TMP\_79) = 1 TMP\_80 = 0 not(TMP\_80) = 1 TMP\_81 = 1 not(TMP\_81) = 0 TMP\_82 = 1 not(TMP\_82) = 0 TMP\_83 = 1 not(TMP\_83) = 0 TMP\_84 = 2 TMP\_85 = 1 not(TMP\_85) = 0 TMP\_86 = 1 not(TMP\_86) = 0 TMP\_87 = 0 not(TMP\_87) = 1 TMP\_88 = 1 not(TMP\_88) = 0 TMP\_89 = 3 TMP\_90 = 0 not(TMP\_90) = 1 TMP\_91 = 0 not(TMP\_91) = 1 TMP\_92 = 0 TMP\_93 = 1 not(TMP\_93) = 0 TMP\_94 = 1 not(TMP\_94) = 0 TMP\_95 = 2 TMP\_96 = 0 not(TMP\_96) = 1 TMP\_97 = 0 not(TMP\_97) = 1 TMP\_98 = 1 not(TMP\_98) = 0 TMP\_99 = 1 not(TMP\_99) = 0 TMP\_100 = 1 not(TMP\_100) = 0 TMP\_101 = 2 Area\_0 = 2000 Distance\_0\_Rule\_0 = 1 Distance\_1\_Rule\_0 = 2000 Area\_1 = 1000 Distance\_0\_Rule\_1 = 1 Distance\_1\_Rule\_1 = 1000 Area\_2 = 1000 -(Rule\_2\_LB) = -2 Distance\_0\_Rule\_2 = 1 -(Rule\_2\_LB) = 0 Distance\_1\_Rule\_2 = 1000 Area\_3 = 2000 -(Rule\_3\_LB) = -1 Distance\_0\_Rule\_3 = 2 -(Rule\_3\_LB) = -1000 Distance\_1\_Rule\_3 = 1000 TMP\_102 = 6000 .

- Solution #14 found. 14 Solutions, Resolution 0.152s, 39 Nodes (257.3 n/s), 43 Backtracks, 10 Fails, 0 Restarts

Rule\_2\_LB = 2 Rule\_2\_UB = 3 Rule\_2\_LB = 0 Rule\_2\_UB = 1000 Rule\_3\_LB = 1 Rule\_3\_UB = 3 Rule\_3\_LB = 1000 Rule\_3\_UB = 2000 Overlaps\_0\_0 = 0 Overlaps\_0\_1 = 0 Overlaps\_0\_2 = 0 Overlaps\_0\_3 = 0 Overlaps\_1\_0 = 1 Overlaps\_1\_1 = 0 Overlaps\_1\_2 = 0 Overlaps\_1\_3 = 0 Overlaps\_2\_0 = 0 Overlaps\_2\_1 = 0 Overlaps\_2\_2 = 0 Overlaps\_2\_3 = 0 Overlaps\_3\_0 = 0 Overlaps\_3\_1 = 0 Overlaps\_3\_2 = 0 Overlaps\_3\_3 = 0 TMP\_0 = 0 not(TMP\_0) = 1 TMP\_1 = 1 not(TMP\_1) = 0 TMP\_2 = 1 not(TMP\_2) = 0 TMP\_3 = 1 not(TMP\_3) = 0 TMP\_4 = 3 TMP\_5 = 0 not(TMP\_5) = 1 TMP\_6 = 0 not(TMP\_6) = 1 TMP\_7 = 0 TMP\_8 = 1 not(TMP\_8) = 0 TMP\_9 = 1 not(TMP\_9) = 0 TMP\_10 = 2 TMP\_11 = 0 not(TMP\_11) = 1 TMP\_12 = 0 not(TMP\_12) = 1 TMP\_13 = 1 not(TMP\_13) = 0 TMP\_14 = 1 not(TMP\_14) = 0 TMP\_15 = 1 not(TMP\_15) = 0 TMP\_16 = 2 TMP\_17 = 0 not(TMP\_17) = 1 TMP\_18 = 1 not(TMP\_18) = 0 TMP\_19 = 1 not(TMP\_19) = 0 TMP\_20 = 1 not(TMP\_20) = 0 TMP\_21 = 3 TMP\_22 = 0 not(TMP\_22) = 1 TMP\_23 = 0 not(TMP\_23) = 1 TMP\_24 = 0 TMP\_25 = 1 not(TMP\_25) = 0 TMP\_26 = 1 not(TMP\_26) = 0 TMP\_27 = 2 TMP\_28 = 0 not(TMP\_28) = 1 TMP\_29 = 0 not(TMP\_29) = 1 TMP\_30 = 1 not(TMP\_30) = 0 TMP\_31 = 1 not(TMP\_31) = 0 TMP\_32 = 1 not(TMP\_32) = 0 TMP\_33 = 2 TMP\_34 = 1 not(TMP\_34) = 0 TMP\_35 = 1 not(TMP\_35) = 0 TMP\_36 = 1 not(TMP\_36) = 0 TMP\_37 = 0 not(TMP\_37) = 1 TMP\_38 = 3 TMP\_39 = 0 not(TMP\_39) = 1 TMP\_40 = 0 not(TMP\_40) = 1 TMP\_41 = 0 TMP\_42 = 1 not(TMP\_42) = 0 TMP\_43 = 1 not(TMP\_43) = 0 TMP\_44 = 2 TMP\_45 = 0 not(TMP\_45) = 1 TMP\_46 = 0 not(TMP\_46) = 1 TMP\_47 = 1 not(TMP\_47) = 0 TMP\_48 = 1 not(TMP\_48) = 0 TMP\_49 = 1 not(TMP\_49) = 0 TMP\_50 = 2 TMP\_51 = 0 not(TMP\_51) = 1 TMP\_52 = 1 not(TMP\_52) = 0 TMP\_53 = 1 not(TMP\_53) = 0 TMP\_54 = 1 not(TMP\_54) = 0 TMP\_55 = 3 TMP\_56 = 0 not(TMP\_56) = 1 TMP\_57 = 0 not(TMP\_57) = 1 TMP\_58 = 0 TMP\_59 = 1 not(TMP\_59) = 0 TMP\_60 = 1 not(TMP\_60) = 0 TMP\_61 = 2 TMP\_62 = 0 not(TMP\_62) = 1 TMP\_63 = 0 not(TMP\_63) = 1 TMP\_64 = 1 not(TMP\_64) = 0 TMP\_65 = 1 not(TMP\_65) = 0 TMP\_66 = 1 not(TMP\_66) = 0 TMP\_67 = 2 TMP\_68 = 1 not(TMP\_68) = 0 TMP\_69 = 1 not(TMP\_69) = 0 TMP\_70 = 0 not(TMP\_70) = 1 TMP\_71 = 1 not(TMP\_71) = 0 TMP\_72 = 3 TMP\_73 = 0 not(TMP\_73) = 1 TMP\_74 = 0 not(TMP\_74) = 1 TMP\_75 = 0 TMP\_76 = 1 not(TMP\_76) = 0 TMP\_77 = 1 not(TMP\_77) = 0 TMP\_78 = 2 TMP\_79 = 0 not(TMP\_79) = 1 TMP\_80 = 0 not(TMP\_80) = 1 TMP\_81 = 1 not(TMP\_81) = 0 TMP\_82 = 1 not(TMP\_82) = 0 TMP\_83 = 1 not(TMP\_83) = 0 TMP\_84 = 2 TMP\_85 = 1 not(TMP\_85) = 0 TMP\_86 = 1 not(TMP\_86) = 0 TMP\_87 = 0 not(TMP\_87) = 1 TMP\_88 = 1 not(TMP\_88) = 0 TMP\_89 = 3 TMP\_90 = 0 not(TMP\_90) = 1 TMP\_91 = 0 not(TMP\_91) = 1 TMP\_92 = 0 TMP\_93 = 1 not(TMP\_93) = 0 TMP\_94 = 1 not(TMP\_94) = 0 TMP\_95 = 2 TMP\_96 = 0 not(TMP\_96) = 1 TMP\_97 = 0 not(TMP\_97) = 1 TMP\_98 = 1 not(TMP\_98) = 0 TMP\_99 = 1 not(TMP\_99) = 0 TMP\_100 = 1 not(TMP\_100) = 0 TMP\_101 = 2 Area\_0 = 2000 Distance\_0\_Rule\_0 = 1 Distance\_1\_Rule\_0 = 2000 Area\_1 = 1000 Distance\_0\_Rule\_1 = 1 Distance\_1\_Rule\_1 = 1000 Area\_2 = 1000 -(Rule\_2\_LB) = -2 Distance\_0\_Rule\_2 = 1 -(Rule\_2\_LB) = 0 Distance\_1\_Rule\_2 = 1000 Area\_3 = 2000 -(Rule\_3\_LB) = -1 Distance\_0\_Rule\_3 = 2 -(Rule\_3\_LB) = -1000 Distance\_1\_Rule\_3 = 1000 TMP\_102 = 6000 .

- Solution #15 found. 15 Solutions, Resolution 0.153s, 41 Nodes (267.2 n/s), 45 Backtracks, 10 Fails, 0 Restarts

Rule\_2\_LB = 2 Rule\_2\_UB = 3 Rule\_2\_LB = 0 Rule\_2\_UB = 1000 Rule\_3\_LB = 1 Rule\_3\_UB = 3 Rule\_3\_LB = 1000 Rule\_3\_UB = 2000 Overlaps\_0\_0 = 0 Overlaps\_0\_1 = 1 Overlaps\_0\_2 = 0 Overlaps\_0\_3 = 0 Overlaps\_1\_0 = 0 Overlaps\_1\_1 = 0 Overlaps\_1\_2 = 0 Overlaps\_1\_3 = 0 Overlaps\_2\_0 = 0 Overlaps\_2\_1 = 0 Overlaps\_2\_2 = 0 Overlaps\_2\_3 = 0 Overlaps\_3\_0 = 0 Overlaps\_3\_1 = 0 Overlaps\_3\_2 = 0 Overlaps\_3\_3 = 0 TMP\_0 = 0 not(TMP\_0) = 1 TMP\_1 = 1 not(TMP\_1) = 0 TMP\_2 = 1 not(TMP\_2) = 0 TMP\_3 = 1 not(TMP\_3) = 0 TMP\_4 = 3 TMP\_5 = 0 not(TMP\_5) = 1 TMP\_6 = 0 not(TMP\_6) = 1 TMP\_7 = 0 TMP\_8 = 1 not(TMP\_8) = 0 TMP\_9 = 1 not(TMP\_9) = 0 TMP\_10 = 2 TMP\_11 = 0 not(TMP\_11) = 1 TMP\_12 = 0 not(TMP\_12) = 1 TMP\_13 = 1 not(TMP\_13) = 0 TMP\_14 = 1 not(TMP\_14) = 0 TMP\_15 = 1 not(TMP\_15) = 0 TMP\_16 = 2 TMP\_17 = 0 not(TMP\_17) = 1 TMP\_18 = 1 not(TMP\_18) = 0 TMP\_19 = 1 not(TMP\_19) = 0 TMP\_20 = 1 not(TMP\_20) = 0 TMP\_21 = 3 TMP\_22 = 0 not(TMP\_22) = 1 TMP\_23 = 0 not(TMP\_23) = 1 TMP\_24 = 0 TMP\_25 = 1 not(TMP\_25) = 0 TMP\_26 = 1 not(TMP\_26) = 0 TMP\_27 = 2 TMP\_28 = 0 not(TMP\_28) = 1 TMP\_29 = 0 not(TMP\_29) = 1 TMP\_30 = 1 not(TMP\_30) = 0 TMP\_31 = 1 not(TMP\_31) = 0 TMP\_32 = 1 not(TMP\_32) = 0 TMP\_33 = 2 TMP\_34 = 1 not(TMP\_34) = 0 TMP\_35 = 1 not(TMP\_35) = 0 TMP\_36 = 1 not(TMP\_36) = 0 TMP\_37 = 0 not(TMP\_37) = 1 TMP\_38 = 3 TMP\_39 = 0 not(TMP\_39) = 1 TMP\_40 = 0 not(TMP\_40) = 1 TMP\_41 = 0 TMP\_42 = 1 not(TMP\_42) = 0 TMP\_43 = 1 not(TMP\_43) = 0 TMP\_44 = 2 TMP\_45 = 0 not(TMP\_45) = 1 TMP\_46 = 0 not(TMP\_46) = 1 TMP\_47 = 1 not(TMP\_47) = 0 TMP\_48 = 1 not(TMP\_48) = 0 TMP\_49 = 1 not(TMP\_49) = 0 TMP\_50 = 2 TMP\_51 = 0 not(TMP\_51) = 1 TMP\_52 = 1 not(TMP\_52) = 0 TMP\_53 = 1 not(TMP\_53) = 0 TMP\_54 = 1 not(TMP\_54) = 0 TMP\_55 = 3 TMP\_56 = 0 not(TMP\_56) = 1 TMP\_57 = 0 not(TMP\_57) = 1 TMP\_58 = 0 TMP\_59 = 1 not(TMP\_59) = 0 TMP\_60 = 1 not(TMP\_60) = 0 TMP\_61 = 2 TMP\_62 = 0 not(TMP\_62) = 1 TMP\_63 = 0 not(TMP\_63) = 1 TMP\_64 = 1 not(TMP\_64) = 0 TMP\_65 = 1 not(TMP\_65) = 0 TMP\_66 = 1 not(TMP\_66) = 0 TMP\_67 = 2 TMP\_68 = 1 not(TMP\_68) = 0 TMP\_69 = 1 not(TMP\_69) = 0 TMP\_70 = 0 not(TMP\_70) = 1 TMP\_71 = 1 not(TMP\_71) = 0 TMP\_72 = 3 TMP\_73 = 0 not(TMP\_73) = 1 TMP\_74 = 0 not(TMP\_74) = 1 TMP\_75 = 0 TMP\_76 = 1 not(TMP\_76) = 0 TMP\_77 = 1 not(TMP\_77) = 0 TMP\_78 = 2 TMP\_79 = 0 not(TMP\_79) = 1 TMP\_80 = 0 not(TMP\_80) = 1 TMP\_81 = 1 not(TMP\_81) = 0 TMP\_82 = 1 not(TMP\_82) = 0 TMP\_83 = 1 not(TMP\_83) = 0 TMP\_84 = 2 TMP\_85 = 1 not(TMP\_85) = 0 TMP\_86 = 1 not(TMP\_86) = 0 TMP\_87 = 0 not(TMP\_87) = 1 TMP\_88 = 1 not(TMP\_88) = 0 TMP\_89 = 3 TMP\_90 = 0 not(TMP\_90) = 1 TMP\_91 = 0 not(TMP\_91) = 1 TMP\_92 = 0 TMP\_93 = 1 not(TMP\_93) = 0 TMP\_94 = 1 not(TMP\_94) = 0 TMP\_95 = 2 TMP\_96 = 0 not(TMP\_96) = 1 TMP\_97 = 0 not(TMP\_97) = 1 TMP\_98 = 1 not(TMP\_98) = 0 TMP\_99 = 1 not(TMP\_99) = 0 TMP\_100 = 1 not(TMP\_100) = 0 TMP\_101 = 2 Area\_0 = 2000 Distance\_0\_Rule\_0 = 1 Distance\_1\_Rule\_0 = 2000 Area\_1 = 1000 Distance\_0\_Rule\_1 = 1 Distance\_1\_Rule\_1 = 1000 Area\_2 = 1000 -(Rule\_2\_LB) = -2 Distance\_0\_Rule\_2 = 1 -(Rule\_2\_LB) = 0 Distance\_1\_Rule\_2 = 1000 Area\_3 = 2000 -(Rule\_3\_LB) = -1 Distance\_0\_Rule\_3 = 2 -(Rule\_3\_LB) = -1000 Distance\_1\_Rule\_3 = 1000 TMP\_102 = 6000 .

- Solution #16 found. 16 Solutions, Resolution 0.155s, 42 Nodes (270.3 n/s), 46 Backtracks, 10 Fails, 0 Restarts

Rule\_2\_LB = 2 Rule\_2\_UB = 3 Rule\_2\_LB = 0 Rule\_2\_UB = 1000 Rule\_3\_LB = 1 Rule\_3\_UB = 3 Rule\_3\_LB = 1000 Rule\_3\_UB = 2000 Overlaps\_0\_0 = 0 Overlaps\_0\_1 = 1 Overlaps\_0\_2 = 0 Overlaps\_0\_3 = 0 Overlaps\_1\_0 = 1 Overlaps\_1\_1 = 0 Overlaps\_1\_2 = 0 Overlaps\_1\_3 = 0 Overlaps\_2\_0 = 0 Overlaps\_2\_1 = 0 Overlaps\_2\_2 = 0 Overlaps\_2\_3 = 0 Overlaps\_3\_0 = 0 Overlaps\_3\_1 = 0 Overlaps\_3\_2 = 0 Overlaps\_3\_3 = 0 TMP\_0 = 0 not(TMP\_0) = 1 TMP\_1 = 1 not(TMP\_1) = 0 TMP\_2 = 1 not(TMP\_2) = 0 TMP\_3 = 1 not(TMP\_3) = 0 TMP\_4 = 3 TMP\_5 = 0 not(TMP\_5) = 1 TMP\_6 = 0 not(TMP\_6) = 1 TMP\_7 = 0 TMP\_8 = 1 not(TMP\_8) = 0 TMP\_9 = 1 not(TMP\_9) = 0 TMP\_10 = 2 TMP\_11 = 0 not(TMP\_11) = 1 TMP\_12 = 0 not(TMP\_12) = 1 TMP\_13 = 1 not(TMP\_13) = 0 TMP\_14 = 1 not(TMP\_14) = 0 TMP\_15 = 1 not(TMP\_15) = 0 TMP\_16 = 2 TMP\_17 = 0 not(TMP\_17) = 1 TMP\_18 = 1 not(TMP\_18) = 0 TMP\_19 = 1 not(TMP\_19) = 0 TMP\_20 = 1 not(TMP\_20) = 0 TMP\_21 = 3 TMP\_22 = 0 not(TMP\_22) = 1 TMP\_23 = 0 not(TMP\_23) = 1 TMP\_24 = 0 TMP\_25 = 1 not(TMP\_25) = 0 TMP\_26 = 1 not(TMP\_26) = 0 TMP\_27 = 2 TMP\_28 = 0 not(TMP\_28) = 1 TMP\_29 = 0 not(TMP\_29) = 1 TMP\_30 = 1 not(TMP\_30) = 0 TMP\_31 = 1 not(TMP\_31) = 0 TMP\_32 = 1 not(TMP\_32) = 0 TMP\_33 = 2 TMP\_34 = 1 not(TMP\_34) = 0 TMP\_35 = 1 not(TMP\_35) = 0 TMP\_36 = 1 not(TMP\_36) = 0 TMP\_37 = 0 not(TMP\_37) = 1 TMP\_38 = 3 TMP\_39 = 0 not(TMP\_39) = 1 TMP\_40 = 0 not(TMP\_40) = 1 TMP\_41 = 0 TMP\_42 = 1 not(TMP\_42) = 0 TMP\_43 = 1 not(TMP\_43) = 0 TMP\_44 = 2 TMP\_45 = 0 not(TMP\_45) = 1 TMP\_46 = 0 not(TMP\_46) = 1 TMP\_47 = 1 not(TMP\_47) = 0 TMP\_48 = 1 not(TMP\_48) = 0 TMP\_49 = 1 not(TMP\_49) = 0 TMP\_50 = 2 TMP\_51 = 0 not(TMP\_51) = 1 TMP\_52 = 1 not(TMP\_52) = 0 TMP\_53 = 1 not(TMP\_53) = 0 TMP\_54 = 1 not(TMP\_54) = 0 TMP\_55 = 3 TMP\_56 = 0 not(TMP\_56) = 1 TMP\_57 = 0 not(TMP\_57) = 1 TMP\_58 = 0 TMP\_59 = 1 not(TMP\_59) = 0 TMP\_60 = 1 not(TMP\_60) = 0 TMP\_61 = 2 TMP\_62 = 0 not(TMP\_62) = 1 TMP\_63 = 0 not(TMP\_63) = 1 TMP\_64 = 1 not(TMP\_64) = 0 TMP\_65 = 1 not(TMP\_65) = 0 TMP\_66 = 1 not(TMP\_66) = 0 TMP\_67 = 2 TMP\_68 = 1 not(TMP\_68) = 0 TMP\_69 = 1 not(TMP\_69) = 0 TMP\_70 = 0 not(TMP\_70) = 1 TMP\_71 = 1 not(TMP\_71) = 0 TMP\_72 = 3 TMP\_73 = 0 not(TMP\_73) = 1 TMP\_74 = 0 not(TMP\_74) = 1 TMP\_75 = 0 TMP\_76 = 1 not(TMP\_76) = 0 TMP\_77 = 1 not(TMP\_77) = 0 TMP\_78 = 2 TMP\_79 = 0 not(TMP\_79) = 1 TMP\_80 = 0 not(TMP\_80) = 1 TMP\_81 = 1 not(TMP\_81) = 0 TMP\_82 = 1 not(TMP\_82) = 0 TMP\_83 = 1 not(TMP\_83) = 0 TMP\_84 = 2 TMP\_85 = 1 not(TMP\_85) = 0 TMP\_86 = 1 not(TMP\_86) = 0 TMP\_87 = 0 not(TMP\_87) = 1 TMP\_88 = 1 not(TMP\_88) = 0 TMP\_89 = 3 TMP\_90 = 0 not(TMP\_90) = 1 TMP\_91 = 0 not(TMP\_91) = 1 TMP\_92 = 0 TMP\_93 = 1 not(TMP\_93) = 0 TMP\_94 = 1 not(TMP\_94) = 0 TMP\_95 = 2 TMP\_96 = 0 not(TMP\_96) = 1 TMP\_97 = 0 not(TMP\_97) = 1 TMP\_98 = 1 not(TMP\_98) = 0 TMP\_99 = 1 not(TMP\_99) = 0 TMP\_100 = 1 not(TMP\_100) = 0 TMP\_101 = 2 Area\_0 = 2000 Distance\_0\_Rule\_0 = 1 Distance\_1\_Rule\_0 = 2000 Area\_1 = 1000 Distance\_0\_Rule\_1 = 1 Distance\_1\_Rule\_1 = 1000 Area\_2 = 1000 -(Rule\_2\_LB) = -2 Distance\_0\_Rule\_2 = 1 -(Rule\_2\_LB) = 0 Distance\_1\_Rule\_2 = 1000 Area\_3 = 2000 -(Rule\_3\_LB) = -1 Distance\_0\_Rule\_3 = 2 -(Rule\_3\_LB) = -1000 Distance\_1\_Rule\_3 = 1000 TMP\_102 = 6000 .

- Complete search - 16 solution(s) found.

Solutions: 16

Building time : 0.099s

Initialisation : 0.000s

Initial propagation : 0.021s

Resolution : 0.158s

Nodes: 42 (265.2 n/s)

Backtracks: 53

Fails: 11

Restarts: 0

Max depth: 8

Memory: -3mb

Variables: 236

Constraints: 232

## Rules = 3 - Missing Rules = 1

- Solution #1 found. 1 Solutions, Resolution 0.018s, 8 Nodes (448.0 n/s), 1 Backtracks, 1 Fails, 0 Restarts

Rule\_3\_LB = 2 Rule\_3\_UB = 3 Rule\_3\_LB = 0 Rule\_3\_UB = 2000 Overlaps\_0\_0 = 0 Overlaps\_0\_1 = 0 Overlaps\_0\_2 = 0 Overlaps\_0\_3 = 0 Overlaps\_1\_0 = 0 Overlaps\_1\_1 = 0 Overlaps\_1\_2 = 0 Overlaps\_1\_3 = 0 Overlaps\_2\_0 = 0 Overlaps\_2\_1 = 0 Overlaps\_2\_2 = 0 Overlaps\_2\_3 = 0 Overlaps\_3\_0 = 0 Overlaps\_3\_1 = 0 Overlaps\_3\_2 = 0 Overlaps\_3\_3 = 0 TMP\_0 = 0 not(TMP\_0) = 1 TMP\_1 = 1 not(TMP\_1) = 0 TMP\_2 = 1 not(TMP\_2) = 0 TMP\_3 = 1 not(TMP\_3) = 0 TMP\_4 = 3 TMP\_5 = 0 not(TMP\_5) = 1 TMP\_6 = 0 not(TMP\_6) = 1 TMP\_7 = 0 TMP\_8 = 1 not(TMP\_8) = 0 TMP\_9 = 1 not(TMP\_9) = 0 TMP\_10 = 2 TMP\_11 = 0 not(TMP\_11) = 1 TMP\_12 = 0 not(TMP\_12) = 1 TMP\_13 = 1 not(TMP\_13) = 0 TMP\_14 = 1 not(TMP\_14) = 0 TMP\_15 = 1 not(TMP\_15) = 0 TMP\_16 = 2 TMP\_17 = 0 not(TMP\_17) = 1 TMP\_18 = 1 not(TMP\_18) = 0 TMP\_19 = 1 not(TMP\_19) = 0 TMP\_20 = 1 not(TMP\_20) = 0 TMP\_21 = 3 TMP\_22 = 0 not(TMP\_22) = 1 TMP\_23 = 0 not(TMP\_23) = 1 TMP\_24 = 0 TMP\_25 = 1 not(TMP\_25) = 0 TMP\_26 = 1 not(TMP\_26) = 0 TMP\_27 = 2 TMP\_28 = 0 not(TMP\_28) = 1 TMP\_29 = 0 not(TMP\_29) = 1 TMP\_30 = 1 not(TMP\_30) = 0 TMP\_31 = 1 not(TMP\_31) = 0 TMP\_32 = 1 not(TMP\_32) = 0 TMP\_33 = 2 TMP\_34 = 0 not(TMP\_34) = 1 TMP\_35 = 1 not(TMP\_35) = 0 TMP\_36 = 1 not(TMP\_36) = 0 TMP\_37 = 1 not(TMP\_37) = 0 TMP\_38 = 3 TMP\_39 = 0 not(TMP\_39) = 1 TMP\_40 = 0 not(TMP\_40) = 1 TMP\_41 = 0 TMP\_42 = 1 not(TMP\_42) = 0 TMP\_43 = 1 not(TMP\_43) = 0 TMP\_44 = 2 TMP\_45 = 0 not(TMP\_45) = 1 TMP\_46 = 0 not(TMP\_46) = 1 TMP\_47 = 1 not(TMP\_47) = 0 TMP\_48 = 1 not(TMP\_48) = 0 TMP\_49 = 1 not(TMP\_49) = 0 TMP\_50 = 2 Area\_0 = 2000 Distance\_0\_Rule\_0 = 1 Distance\_1\_Rule\_0 = 2000 Area\_1 = 1000 Distance\_0\_Rule\_1 = 1 Distance\_1\_Rule\_1 = 1000 Area\_2 = 1000 Distance\_0\_Rule\_2 = 1 Distance\_1\_Rule\_2 = 1000 Area\_3 = 2000 -(Rule\_3\_LB) = -2 Distance\_0\_Rule\_3 = 1 -(Rule\_3\_LB) = 0 Distance\_1\_Rule\_3 = 2000 TMP\_51 = 6000 .

- Solution #2 found. 2 Solutions, Resolution 0.022s, 9 Nodes (404.4 n/s), 2 Backtracks, 1 Fails, 0 Restarts

Rule\_3\_LB = 2 Rule\_3\_UB = 3 Rule\_3\_LB = 0 Rule\_3\_UB = 2000 Overlaps\_0\_0 = 0 Overlaps\_0\_1 = 0 Overlaps\_0\_2 = 1 Overlaps\_0\_3 = 0 Overlaps\_1\_0 = 0 Overlaps\_1\_1 = 0 Overlaps\_1\_2 = 0 Overlaps\_1\_3 = 0 Overlaps\_2\_0 = 0 Overlaps\_2\_1 = 0 Overlaps\_2\_2 = 0 Overlaps\_2\_3 = 0 Overlaps\_3\_0 = 0 Overlaps\_3\_1 = 0 Overlaps\_3\_2 = 0 Overlaps\_3\_3 = 0 TMP\_0 = 0 not(TMP\_0) = 1 TMP\_1 = 1 not(TMP\_1) = 0 TMP\_2 = 1 not(TMP\_2) = 0 TMP\_3 = 1 not(TMP\_3) = 0 TMP\_4 = 3 TMP\_5 = 0 not(TMP\_5) = 1 TMP\_6 = 0 not(TMP\_6) = 1 TMP\_7 = 0 TMP\_8 = 1 not(TMP\_8) = 0 TMP\_9 = 1 not(TMP\_9) = 0 TMP\_10 = 2 TMP\_11 = 0 not(TMP\_11) = 1 TMP\_12 = 0 not(TMP\_12) = 1 TMP\_13 = 1 not(TMP\_13) = 0 TMP\_14 = 1 not(TMP\_14) = 0 TMP\_15 = 1 not(TMP\_15) = 0 TMP\_16 = 2 TMP\_17 = 0 not(TMP\_17) = 1 TMP\_18 = 1 not(TMP\_18) = 0 TMP\_19 = 1 not(TMP\_19) = 0 TMP\_20 = 1 not(TMP\_20) = 0 TMP\_21 = 3 TMP\_22 = 0 not(TMP\_22) = 1 TMP\_23 = 0 not(TMP\_23) = 1 TMP\_24 = 0 TMP\_25 = 1 not(TMP\_25) = 0 TMP\_26 = 1 not(TMP\_26) = 0 TMP\_27 = 2 TMP\_28 = 0 not(TMP\_28) = 1 TMP\_29 = 0 not(TMP\_29) = 1 TMP\_30 = 1 not(TMP\_30) = 0 TMP\_31 = 1 not(TMP\_31) = 0 TMP\_32 = 1 not(TMP\_32) = 0 TMP\_33 = 2 TMP\_34 = 0 not(TMP\_34) = 1 TMP\_35 = 1 not(TMP\_35) = 0 TMP\_36 = 1 not(TMP\_36) = 0 TMP\_37 = 1 not(TMP\_37) = 0 TMP\_38 = 3 TMP\_39 = 0 not(TMP\_39) = 1 TMP\_40 = 0 not(TMP\_40) = 1 TMP\_41 = 0 TMP\_42 = 1 not(TMP\_42) = 0 TMP\_43 = 1 not(TMP\_43) = 0 TMP\_44 = 2 TMP\_45 = 0 not(TMP\_45) = 1 TMP\_46 = 0 not(TMP\_46) = 1 TMP\_47 = 1 not(TMP\_47) = 0 TMP\_48 = 1 not(TMP\_48) = 0 TMP\_49 = 1 not(TMP\_49) = 0 TMP\_50 = 2 Area\_0 = 2000 Distance\_0\_Rule\_0 = 1 Distance\_1\_Rule\_0 = 2000 Area\_1 = 1000 Distance\_0\_Rule\_1 = 1 Distance\_1\_Rule\_1 = 1000 Area\_2 = 1000 Distance\_0\_Rule\_2 = 1 Distance\_1\_Rule\_2 = 1000 Area\_3 = 2000 -(Rule\_3\_LB) = -2 Distance\_0\_Rule\_3 = 1 -(Rule\_3\_LB) = 0 Distance\_1\_Rule\_3 = 2000 TMP\_51 = 6000 .

- Solution #3 found. 3 Solutions, Resolution 0.024s, 11 Nodes (467.1 n/s), 4 Backtracks, 1 Fails, 0 Restarts

Rule\_3\_LB = 2 Rule\_3\_UB = 3 Rule\_3\_LB = 0 Rule\_3\_UB = 2000 Overlaps\_0\_0 = 0 Overlaps\_0\_1 = 1 Overlaps\_0\_2 = 0 Overlaps\_0\_3 = 0 Overlaps\_1\_0 = 0 Overlaps\_1\_1 = 0 Overlaps\_1\_2 = 0 Overlaps\_1\_3 = 0 Overlaps\_2\_0 = 0 Overlaps\_2\_1 = 0 Overlaps\_2\_2 = 0 Overlaps\_2\_3 = 0 Overlaps\_3\_0 = 0 Overlaps\_3\_1 = 0 Overlaps\_3\_2 = 0 Overlaps\_3\_3 = 0 TMP\_0 = 0 not(TMP\_0) = 1 TMP\_1 = 1 not(TMP\_1) = 0 TMP\_2 = 1 not(TMP\_2) = 0 TMP\_3 = 1 not(TMP\_3) = 0 TMP\_4 = 3 TMP\_5 = 0 not(TMP\_5) = 1 TMP\_6 = 0 not(TMP\_6) = 1 TMP\_7 = 0 TMP\_8 = 1 not(TMP\_8) = 0 TMP\_9 = 1 not(TMP\_9) = 0 TMP\_10 = 2 TMP\_11 = 0 not(TMP\_11) = 1 TMP\_12 = 0 not(TMP\_12) = 1 TMP\_13 = 1 not(TMP\_13) = 0 TMP\_14 = 1 not(TMP\_14) = 0 TMP\_15 = 1 not(TMP\_15) = 0 TMP\_16 = 2 TMP\_17 = 0 not(TMP\_17) = 1 TMP\_18 = 1 not(TMP\_18) = 0 TMP\_19 = 1 not(TMP\_19) = 0 TMP\_20 = 1 not(TMP\_20) = 0 TMP\_21 = 3 TMP\_22 = 0 not(TMP\_22) = 1 TMP\_23 = 0 not(TMP\_23) = 1 TMP\_24 = 0 TMP\_25 = 1 not(TMP\_25) = 0 TMP\_26 = 1 not(TMP\_26) = 0 TMP\_27 = 2 TMP\_28 = 0 not(TMP\_28) = 1 TMP\_29 = 0 not(TMP\_29) = 1 TMP\_30 = 1 not(TMP\_30) = 0 TMP\_31 = 1 not(TMP\_31) = 0 TMP\_32 = 1 not(TMP\_32) = 0 TMP\_33 = 2 TMP\_34 = 0 not(TMP\_34) = 1 TMP\_35 = 1 not(TMP\_35) = 0 TMP\_36 = 1 not(TMP\_36) = 0 TMP\_37 = 1 not(TMP\_37) = 0 TMP\_38 = 3 TMP\_39 = 0 not(TMP\_39) = 1 TMP\_40 = 0 not(TMP\_40) = 1 TMP\_41 = 0 TMP\_42 = 1 not(TMP\_42) = 0 TMP\_43 = 1 not(TMP\_43) = 0 TMP\_44 = 2 TMP\_45 = 0 not(TMP\_45) = 1 TMP\_46 = 0 not(TMP\_46) = 1 TMP\_47 = 1 not(TMP\_47) = 0 TMP\_48 = 1 not(TMP\_48) = 0 TMP\_49 = 1 not(TMP\_49) = 0 TMP\_50 = 2 Area\_0 = 2000 Distance\_0\_Rule\_0 = 1 Distance\_1\_Rule\_0 = 2000 Area\_1 = 1000 Distance\_0\_Rule\_1 = 1 Distance\_1\_Rule\_1 = 1000 Area\_2 = 1000 Distance\_0\_Rule\_2 = 1 Distance\_1\_Rule\_2 = 1000 Area\_3 = 2000 -(Rule\_3\_LB) = -2 Distance\_0\_Rule\_3 = 1 -(Rule\_3\_LB) = 0 Distance\_1\_Rule\_3 = 2000 TMP\_51 = 6000 .

- Solution #4 found. 4 Solutions, Resolution 0.025s, 12 Nodes (486.4 n/s), 5 Backtracks, 1 Fails, 0 Restarts

Rule\_3\_LB = 2 Rule\_3\_UB = 3 Rule\_3\_LB = 0 Rule\_3\_UB = 2000 Overlaps\_0\_0 = 0 Overlaps\_0\_1 = 1 Overlaps\_0\_2 = 1 Overlaps\_0\_3 = 0 Overlaps\_1\_0 = 0 Overlaps\_1\_1 = 0 Overlaps\_1\_2 = 0 Overlaps\_1\_3 = 0 Overlaps\_2\_0 = 0 Overlaps\_2\_1 = 0 Overlaps\_2\_2 = 0 Overlaps\_2\_3 = 0 Overlaps\_3\_0 = 0 Overlaps\_3\_1 = 0 Overlaps\_3\_2 = 0 Overlaps\_3\_3 = 0 TMP\_0 = 0 not(TMP\_0) = 1 TMP\_1 = 1 not(TMP\_1) = 0 TMP\_2 = 1 not(TMP\_2) = 0 TMP\_3 = 1 not(TMP\_3) = 0 TMP\_4 = 3 TMP\_5 = 0 not(TMP\_5) = 1 TMP\_6 = 0 not(TMP\_6) = 1 TMP\_7 = 0 TMP\_8 = 1 not(TMP\_8) = 0 TMP\_9 = 1 not(TMP\_9) = 0 TMP\_10 = 2 TMP\_11 = 0 not(TMP\_11) = 1 TMP\_12 = 0 not(TMP\_12) = 1 TMP\_13 = 1 not(TMP\_13) = 0 TMP\_14 = 1 not(TMP\_14) = 0 TMP\_15 = 1 not(TMP\_15) = 0 TMP\_16 = 2 TMP\_17 = 0 not(TMP\_17) = 1 TMP\_18 = 1 not(TMP\_18) = 0 TMP\_19 = 1 not(TMP\_19) = 0 TMP\_20 = 1 not(TMP\_20) = 0 TMP\_21 = 3 TMP\_22 = 0 not(TMP\_22) = 1 TMP\_23 = 0 not(TMP\_23) = 1 TMP\_24 = 0 TMP\_25 = 1 not(TMP\_25) = 0 TMP\_26 = 1 not(TMP\_26) = 0 TMP\_27 = 2 TMP\_28 = 0 not(TMP\_28) = 1 TMP\_29 = 0 not(TMP\_29) = 1 TMP\_30 = 1 not(TMP\_30) = 0 TMP\_31 = 1 not(TMP\_31) = 0 TMP\_32 = 1 not(TMP\_32) = 0 TMP\_33 = 2 TMP\_34 = 0 not(TMP\_34) = 1 TMP\_35 = 1 not(TMP\_35) = 0 TMP\_36 = 1 not(TMP\_36) = 0 TMP\_37 = 1 not(TMP\_37) = 0 TMP\_38 = 3 TMP\_39 = 0 not(TMP\_39) = 1 TMP\_40 = 0 not(TMP\_40) = 1 TMP\_41 = 0 TMP\_42 = 1 not(TMP\_42) = 0 TMP\_43 = 1 not(TMP\_43) = 0 TMP\_44 = 2 TMP\_45 = 0 not(TMP\_45) = 1 TMP\_46 = 0 not(TMP\_46) = 1 TMP\_47 = 1 not(TMP\_47) = 0 TMP\_48 = 1 not(TMP\_48) = 0 TMP\_49 = 1 not(TMP\_49) = 0 TMP\_50 = 2 Area\_0 = 2000 Distance\_0\_Rule\_0 = 1 Distance\_1\_Rule\_0 = 2000 Area\_1 = 1000 Distance\_0\_Rule\_1 = 1 Distance\_1\_Rule\_1 = 1000 Area\_2 = 1000 Distance\_0\_Rule\_2 = 1 Distance\_1\_Rule\_2 = 1000 Area\_3 = 2000 -(Rule\_3\_LB) = -2 Distance\_0\_Rule\_3 = 1 -(Rule\_3\_LB) = 0 Distance\_1\_Rule\_3 = 2000 TMP\_51 = 6000 .

- Solution #5 found. 5 Solutions, Resolution 0.026s, 15 Nodes (582.0 n/s), 8 Backtracks, 1 Fails, 0 Restarts

Rule\_3\_LB = 2 Rule\_3\_UB = 3 Rule\_3\_LB = 0 Rule\_3\_UB = 2000 Overlaps\_0\_0 = 0 Overlaps\_0\_1 = 0 Overlaps\_0\_2 = 0 Overlaps\_0\_3 = 0 Overlaps\_1\_0 = 0 Overlaps\_1\_1 = 0 Overlaps\_1\_2 = 1 Overlaps\_1\_3 = 0 Overlaps\_2\_0 = 0 Overlaps\_2\_1 = 0 Overlaps\_2\_2 = 0 Overlaps\_2\_3 = 0 Overlaps\_3\_0 = 0 Overlaps\_3\_1 = 0 Overlaps\_3\_2 = 0 Overlaps\_3\_3 = 0 TMP\_0 = 0 not(TMP\_0) = 1 TMP\_1 = 1 not(TMP\_1) = 0 TMP\_2 = 1 not(TMP\_2) = 0 TMP\_3 = 1 not(TMP\_3) = 0 TMP\_4 = 3 TMP\_5 = 0 not(TMP\_5) = 1 TMP\_6 = 0 not(TMP\_6) = 1 TMP\_7 = 0 TMP\_8 = 1 not(TMP\_8) = 0 TMP\_9 = 1 not(TMP\_9) = 0 TMP\_10 = 2 TMP\_11 = 0 not(TMP\_11) = 1 TMP\_12 = 0 not(TMP\_12) = 1 TMP\_13 = 1 not(TMP\_13) = 0 TMP\_14 = 1 not(TMP\_14) = 0 TMP\_15 = 1 not(TMP\_15) = 0 TMP\_16 = 2 TMP\_17 = 0 not(TMP\_17) = 1 TMP\_18 = 1 not(TMP\_18) = 0 TMP\_19 = 1 not(TMP\_19) = 0 TMP\_20 = 1 not(TMP\_20) = 0 TMP\_21 = 3 TMP\_22 = 0 not(TMP\_22) = 1 TMP\_23 = 0 not(TMP\_23) = 1 TMP\_24 = 0 TMP\_25 = 1 not(TMP\_25) = 0 TMP\_26 = 1 not(TMP\_26) = 0 TMP\_27 = 2 TMP\_28 = 0 not(TMP\_28) = 1 TMP\_29 = 0 not(TMP\_29) = 1 TMP\_30 = 1 not(TMP\_30) = 0 TMP\_31 = 1 not(TMP\_31) = 0 TMP\_32 = 1 not(TMP\_32) = 0 TMP\_33 = 2 TMP\_34 = 0 not(TMP\_34) = 1 TMP\_35 = 1 not(TMP\_35) = 0 TMP\_36 = 1 not(TMP\_36) = 0 TMP\_37 = 1 not(TMP\_37) = 0 TMP\_38 = 3 TMP\_39 = 0 not(TMP\_39) = 1 TMP\_40 = 0 not(TMP\_40) = 1 TMP\_41 = 0 TMP\_42 = 1 not(TMP\_42) = 0 TMP\_43 = 1 not(TMP\_43) = 0 TMP\_44 = 2 TMP\_45 = 0 not(TMP\_45) = 1 TMP\_46 = 0 not(TMP\_46) = 1 TMP\_47 = 1 not(TMP\_47) = 0 TMP\_48 = 1 not(TMP\_48) = 0 TMP\_49 = 1 not(TMP\_49) = 0 TMP\_50 = 2 Area\_0 = 2000 Distance\_0\_Rule\_0 = 1 Distance\_1\_Rule\_0 = 2000 Area\_1 = 1000 Distance\_0\_Rule\_1 = 1 Distance\_1\_Rule\_1 = 1000 Area\_2 = 1000 Distance\_0\_Rule\_2 = 1 Distance\_1\_Rule\_2 = 1000 Area\_3 = 2000 -(Rule\_3\_LB) = -2 Distance\_0\_Rule\_3 = 1 -(Rule\_3\_LB) = 0 Distance\_1\_Rule\_3 = 2000 TMP\_51 = 6000 .

- Solution #6 found. 6 Solutions, Resolution 0.027s, 16 Nodes (598.6 n/s), 9 Backtracks, 1 Fails, 0 Restarts

Rule\_3\_LB = 2 Rule\_3\_UB = 3 Rule\_3\_LB = 0 Rule\_3\_UB = 2000 Overlaps\_0\_0 = 0 Overlaps\_0\_1 = 1 Overlaps\_0\_2 = 0 Overlaps\_0\_3 = 0 Overlaps\_1\_0 = 0 Overlaps\_1\_1 = 0 Overlaps\_1\_2 = 1 Overlaps\_1\_3 = 0 Overlaps\_2\_0 = 0 Overlaps\_2\_1 = 0 Overlaps\_2\_2 = 0 Overlaps\_2\_3 = 0 Overlaps\_3\_0 = 0 Overlaps\_3\_1 = 0 Overlaps\_3\_2 = 0 Overlaps\_3\_3 = 0 TMP\_0 = 0 not(TMP\_0) = 1 TMP\_1 = 1 not(TMP\_1) = 0 TMP\_2 = 1 not(TMP\_2) = 0 TMP\_3 = 1 not(TMP\_3) = 0 TMP\_4 = 3 TMP\_5 = 0 not(TMP\_5) = 1 TMP\_6 = 0 not(TMP\_6) = 1 TMP\_7 = 0 TMP\_8 = 1 not(TMP\_8) = 0 TMP\_9 = 1 not(TMP\_9) = 0 TMP\_10 = 2 TMP\_11 = 0 not(TMP\_11) = 1 TMP\_12 = 0 not(TMP\_12) = 1 TMP\_13 = 1 not(TMP\_13) = 0 TMP\_14 = 1 not(TMP\_14) = 0 TMP\_15 = 1 not(TMP\_15) = 0 TMP\_16 = 2 TMP\_17 = 0 not(TMP\_17) = 1 TMP\_18 = 1 not(TMP\_18) = 0 TMP\_19 = 1 not(TMP\_19) = 0 TMP\_20 = 1 not(TMP\_20) = 0 TMP\_21 = 3 TMP\_22 = 0 not(TMP\_22) = 1 TMP\_23 = 0 not(TMP\_23) = 1 TMP\_24 = 0 TMP\_25 = 1 not(TMP\_25) = 0 TMP\_26 = 1 not(TMP\_26) = 0 TMP\_27 = 2 TMP\_28 = 0 not(TMP\_28) = 1 TMP\_29 = 0 not(TMP\_29) = 1 TMP\_30 = 1 not(TMP\_30) = 0 TMP\_31 = 1 not(TMP\_31) = 0 TMP\_32 = 1 not(TMP\_32) = 0 TMP\_33 = 2 TMP\_34 = 0 not(TMP\_34) = 1 TMP\_35 = 1 not(TMP\_35) = 0 TMP\_36 = 1 not(TMP\_36) = 0 TMP\_37 = 1 not(TMP\_37) = 0 TMP\_38 = 3 TMP\_39 = 0 not(TMP\_39) = 1 TMP\_40 = 0 not(TMP\_40) = 1 TMP\_41 = 0 TMP\_42 = 1 not(TMP\_42) = 0 TMP\_43 = 1 not(TMP\_43) = 0 TMP\_44 = 2 TMP\_45 = 0 not(TMP\_45) = 1 TMP\_46 = 0 not(TMP\_46) = 1 TMP\_47 = 1 not(TMP\_47) = 0 TMP\_48 = 1 not(TMP\_48) = 0 TMP\_49 = 1 not(TMP\_49) = 0 TMP\_50 = 2 Area\_0 = 2000 Distance\_0\_Rule\_0 = 1 Distance\_1\_Rule\_0 = 2000 Area\_1 = 1000 Distance\_0\_Rule\_1 = 1 Distance\_1\_Rule\_1 = 1000 Area\_2 = 1000 Distance\_0\_Rule\_2 = 1 Distance\_1\_Rule\_2 = 1000 Area\_3 = 2000 -(Rule\_3\_LB) = -2 Distance\_0\_Rule\_3 = 1 -(Rule\_3\_LB) = 0 Distance\_1\_Rule\_3 = 2000 TMP\_51 = 6000 .

- Solution #7 found. 7 Solutions, Resolution 0.028s, 18 Nodes (650.9 n/s), 11 Backtracks, 1 Fails, 0 Restarts

Rule\_3\_LB = 2 Rule\_3\_UB = 3 Rule\_3\_LB = 0 Rule\_3\_UB = 2000 Overlaps\_0\_0 = 0 Overlaps\_0\_1 = 0 Overlaps\_0\_2 = 1 Overlaps\_0\_3 = 0 Overlaps\_1\_0 = 0 Overlaps\_1\_1 = 0 Overlaps\_1\_2 = 1 Overlaps\_1\_3 = 0 Overlaps\_2\_0 = 0 Overlaps\_2\_1 = 0 Overlaps\_2\_2 = 0 Overlaps\_2\_3 = 0 Overlaps\_3\_0 = 0 Overlaps\_3\_1 = 0 Overlaps\_3\_2 = 0 Overlaps\_3\_3 = 0 TMP\_0 = 0 not(TMP\_0) = 1 TMP\_1 = 1 not(TMP\_1) = 0 TMP\_2 = 1 not(TMP\_2) = 0 TMP\_3 = 1 not(TMP\_3) = 0 TMP\_4 = 3 TMP\_5 = 0 not(TMP\_5) = 1 TMP\_6 = 0 not(TMP\_6) = 1 TMP\_7 = 0 TMP\_8 = 1 not(TMP\_8) = 0 TMP\_9 = 1 not(TMP\_9) = 0 TMP\_10 = 2 TMP\_11 = 0 not(TMP\_11) = 1 TMP\_12 = 0 not(TMP\_12) = 1 TMP\_13 = 1 not(TMP\_13) = 0 TMP\_14 = 1 not(TMP\_14) = 0 TMP\_15 = 1 not(TMP\_15) = 0 TMP\_16 = 2 TMP\_17 = 0 not(TMP\_17) = 1 TMP\_18 = 1 not(TMP\_18) = 0 TMP\_19 = 1 not(TMP\_19) = 0 TMP\_20 = 1 not(TMP\_20) = 0 TMP\_21 = 3 TMP\_22 = 0 not(TMP\_22) = 1 TMP\_23 = 0 not(TMP\_23) = 1 TMP\_24 = 0 TMP\_25 = 1 not(TMP\_25) = 0 TMP\_26 = 1 not(TMP\_26) = 0 TMP\_27 = 2 TMP\_28 = 0 not(TMP\_28) = 1 TMP\_29 = 0 not(TMP\_29) = 1 TMP\_30 = 1 not(TMP\_30) = 0 TMP\_31 = 1 not(TMP\_31) = 0 TMP\_32 = 1 not(TMP\_32) = 0 TMP\_33 = 2 TMP\_34 = 0 not(TMP\_34) = 1 TMP\_35 = 1 not(TMP\_35) = 0 TMP\_36 = 1 not(TMP\_36) = 0 TMP\_37 = 1 not(TMP\_37) = 0 TMP\_38 = 3 TMP\_39 = 0 not(TMP\_39) = 1 TMP\_40 = 0 not(TMP\_40) = 1 TMP\_41 = 0 TMP\_42 = 1 not(TMP\_42) = 0 TMP\_43 = 1 not(TMP\_43) = 0 TMP\_44 = 2 TMP\_45 = 0 not(TMP\_45) = 1 TMP\_46 = 0 not(TMP\_46) = 1 TMP\_47 = 1 not(TMP\_47) = 0 TMP\_48 = 1 not(TMP\_48) = 0 TMP\_49 = 1 not(TMP\_49) = 0 TMP\_50 = 2 Area\_0 = 2000 Distance\_0\_Rule\_0 = 1 Distance\_1\_Rule\_0 = 2000 Area\_1 = 1000 Distance\_0\_Rule\_1 = 1 Distance\_1\_Rule\_1 = 1000 Area\_2 = 1000 Distance\_0\_Rule\_2 = 1 Distance\_1\_Rule\_2 = 1000 Area\_3 = 2000 -(Rule\_3\_LB) = -2 Distance\_0\_Rule\_3 = 1 -(Rule\_3\_LB) = 0 Distance\_1\_Rule\_3 = 2000 TMP\_51 = 6000 .

- Solution #8 found. 8 Solutions, Resolution 0.029s, 19 Nodes (664.0 n/s), 12 Backtracks, 1 Fails, 0 Restarts

Rule\_3\_LB = 2 Rule\_3\_UB = 3 Rule\_3\_LB = 0 Rule\_3\_UB = 2000 Overlaps\_0\_0 = 0 Overlaps\_0\_1 = 1 Overlaps\_0\_2 = 1 Overlaps\_0\_3 = 0 Overlaps\_1\_0 = 0 Overlaps\_1\_1 = 0 Overlaps\_1\_2 = 1 Overlaps\_1\_3 = 0 Overlaps\_2\_0 = 0 Overlaps\_2\_1 = 0 Overlaps\_2\_2 = 0 Overlaps\_2\_3 = 0 Overlaps\_3\_0 = 0 Overlaps\_3\_1 = 0 Overlaps\_3\_2 = 0 Overlaps\_3\_3 = 0 TMP\_0 = 0 not(TMP\_0) = 1 TMP\_1 = 1 not(TMP\_1) = 0 TMP\_2 = 1 not(TMP\_2) = 0 TMP\_3 = 1 not(TMP\_3) = 0 TMP\_4 = 3 TMP\_5 = 0 not(TMP\_5) = 1 TMP\_6 = 0 not(TMP\_6) = 1 TMP\_7 = 0 TMP\_8 = 1 not(TMP\_8) = 0 TMP\_9 = 1 not(TMP\_9) = 0 TMP\_10 = 2 TMP\_11 = 0 not(TMP\_11) = 1 TMP\_12 = 0 not(TMP\_12) = 1 TMP\_13 = 1 not(TMP\_13) = 0 TMP\_14 = 1 not(TMP\_14) = 0 TMP\_15 = 1 not(TMP\_15) = 0 TMP\_16 = 2 TMP\_17 = 0 not(TMP\_17) = 1 TMP\_18 = 1 not(TMP\_18) = 0 TMP\_19 = 1 not(TMP\_19) = 0 TMP\_20 = 1 not(TMP\_20) = 0 TMP\_21 = 3 TMP\_22 = 0 not(TMP\_22) = 1 TMP\_23 = 0 not(TMP\_23) = 1 TMP\_24 = 0 TMP\_25 = 1 not(TMP\_25) = 0 TMP\_26 = 1 not(TMP\_26) = 0 TMP\_27 = 2 TMP\_28 = 0 not(TMP\_28) = 1 TMP\_29 = 0 not(TMP\_29) = 1 TMP\_30 = 1 not(TMP\_30) = 0 TMP\_31 = 1 not(TMP\_31) = 0 TMP\_32 = 1 not(TMP\_32) = 0 TMP\_33 = 2 TMP\_34 = 0 not(TMP\_34) = 1 TMP\_35 = 1 not(TMP\_35) = 0 TMP\_36 = 1 not(TMP\_36) = 0 TMP\_37 = 1 not(TMP\_37) = 0 TMP\_38 = 3 TMP\_39 = 0 not(TMP\_39) = 1 TMP\_40 = 0 not(TMP\_40) = 1 TMP\_41 = 0 TMP\_42 = 1 not(TMP\_42) = 0 TMP\_43 = 1 not(TMP\_43) = 0 TMP\_44 = 2 TMP\_45 = 0 not(TMP\_45) = 1 TMP\_46 = 0 not(TMP\_46) = 1 TMP\_47 = 1 not(TMP\_47) = 0 TMP\_48 = 1 not(TMP\_48) = 0 TMP\_49 = 1 not(TMP\_49) = 0 TMP\_50 = 2 Area\_0 = 2000 Distance\_0\_Rule\_0 = 1 Distance\_1\_Rule\_0 = 2000 Area\_1 = 1000 Distance\_0\_Rule\_1 = 1 Distance\_1\_Rule\_1 = 1000 Area\_2 = 1000 Distance\_0\_Rule\_2 = 1 Distance\_1\_Rule\_2 = 1000 Area\_3 = 2000 -(Rule\_3\_LB) = -2 Distance\_0\_Rule\_3 = 1 -(Rule\_3\_LB) = 0 Distance\_1\_Rule\_3 = 2000 TMP\_51 = 6000 .

- Solution #9 found. 9 Solutions, Resolution 0.030s, 23 Nodes (776.6 n/s), 16 Backtracks, 1 Fails, 0 Restarts

Rule\_3\_LB = 2 Rule\_3\_UB = 3 Rule\_3\_LB = 0 Rule\_3\_UB = 2000 Overlaps\_0\_0 = 0 Overlaps\_0\_1 = 0 Overlaps\_0\_2 = 0 Overlaps\_0\_3 = 0 Overlaps\_1\_0 = 1 Overlaps\_1\_1 = 0 Overlaps\_1\_2 = 0 Overlaps\_1\_3 = 0 Overlaps\_2\_0 = 0 Overlaps\_2\_1 = 0 Overlaps\_2\_2 = 0 Overlaps\_2\_3 = 0 Overlaps\_3\_0 = 0 Overlaps\_3\_1 = 0 Overlaps\_3\_2 = 0 Overlaps\_3\_3 = 0 TMP\_0 = 0 not(TMP\_0) = 1 TMP\_1 = 1 not(TMP\_1) = 0 TMP\_2 = 1 not(TMP\_2) = 0 TMP\_3 = 1 not(TMP\_3) = 0 TMP\_4 = 3 TMP\_5 = 0 not(TMP\_5) = 1 TMP\_6 = 0 not(TMP\_6) = 1 TMP\_7 = 0 TMP\_8 = 1 not(TMP\_8) = 0 TMP\_9 = 1 not(TMP\_9) = 0 TMP\_10 = 2 TMP\_11 = 0 not(TMP\_11) = 1 TMP\_12 = 0 not(TMP\_12) = 1 TMP\_13 = 1 not(TMP\_13) = 0 TMP\_14 = 1 not(TMP\_14) = 0 TMP\_15 = 1 not(TMP\_15) = 0 TMP\_16 = 2 TMP\_17 = 0 not(TMP\_17) = 1 TMP\_18 = 1 not(TMP\_18) = 0 TMP\_19 = 1 not(TMP\_19) = 0 TMP\_20 = 1 not(TMP\_20) = 0 TMP\_21 = 3 TMP\_22 = 0 not(TMP\_22) = 1 TMP\_23 = 0 not(TMP\_23) = 1 TMP\_24 = 0 TMP\_25 = 1 not(TMP\_25) = 0 TMP\_26 = 1 not(TMP\_26) = 0 TMP\_27 = 2 TMP\_28 = 0 not(TMP\_28) = 1 TMP\_29 = 0 not(TMP\_29) = 1 TMP\_30 = 1 not(TMP\_30) = 0 TMP\_31 = 1 not(TMP\_31) = 0 TMP\_32 = 1 not(TMP\_32) = 0 TMP\_33 = 2 TMP\_34 = 0 not(TMP\_34) = 1 TMP\_35 = 1 not(TMP\_35) = 0 TMP\_36 = 1 not(TMP\_36) = 0 TMP\_37 = 1 not(TMP\_37) = 0 TMP\_38 = 3 TMP\_39 = 0 not(TMP\_39) = 1 TMP\_40 = 0 not(TMP\_40) = 1 TMP\_41 = 0 TMP\_42 = 1 not(TMP\_42) = 0 TMP\_43 = 1 not(TMP\_43) = 0 TMP\_44 = 2 TMP\_45 = 0 not(TMP\_45) = 1 TMP\_46 = 0 not(TMP\_46) = 1 TMP\_47 = 1 not(TMP\_47) = 0 TMP\_48 = 1 not(TMP\_48) = 0 TMP\_49 = 1 not(TMP\_49) = 0 TMP\_50 = 2 Area\_0 = 2000 Distance\_0\_Rule\_0 = 1 Distance\_1\_Rule\_0 = 2000 Area\_1 = 1000 Distance\_0\_Rule\_1 = 1 Distance\_1\_Rule\_1 = 1000 Area\_2 = 1000 Distance\_0\_Rule\_2 = 1 Distance\_1\_Rule\_2 = 1000 Area\_3 = 2000 -(Rule\_3\_LB) = -2 Distance\_0\_Rule\_3 = 1 -(Rule\_3\_LB) = 0 Distance\_1\_Rule\_3 = 2000 TMP\_51 = 6000 .

- Solution #10 found. 10 Solutions, Resolution 0.031s, 24 Nodes (773.6 n/s), 17 Backtracks, 1 Fails, 0 Restarts

Rule\_3\_LB = 2 Rule\_3\_UB = 3 Rule\_3\_LB = 0 Rule\_3\_UB = 2000 Overlaps\_0\_0 = 0 Overlaps\_0\_1 = 0 Overlaps\_0\_2 = 1 Overlaps\_0\_3 = 0 Overlaps\_1\_0 = 1 Overlaps\_1\_1 = 0 Overlaps\_1\_2 = 0 Overlaps\_1\_3 = 0 Overlaps\_2\_0 = 0 Overlaps\_2\_1 = 0 Overlaps\_2\_2 = 0 Overlaps\_2\_3 = 0 Overlaps\_3\_0 = 0 Overlaps\_3\_1 = 0 Overlaps\_3\_2 = 0 Overlaps\_3\_3 = 0 TMP\_0 = 0 not(TMP\_0) = 1 TMP\_1 = 1 not(TMP\_1) = 0 TMP\_2 = 1 not(TMP\_2) = 0 TMP\_3 = 1 not(TMP\_3) = 0 TMP\_4 = 3 TMP\_5 = 0 not(TMP\_5) = 1 TMP\_6 = 0 not(TMP\_6) = 1 TMP\_7 = 0 TMP\_8 = 1 not(TMP\_8) = 0 TMP\_9 = 1 not(TMP\_9) = 0 TMP\_10 = 2 TMP\_11 = 0 not(TMP\_11) = 1 TMP\_12 = 0 not(TMP\_12) = 1 TMP\_13 = 1 not(TMP\_13) = 0 TMP\_14 = 1 not(TMP\_14) = 0 TMP\_15 = 1 not(TMP\_15) = 0 TMP\_16 = 2 TMP\_17 = 0 not(TMP\_17) = 1 TMP\_18 = 1 not(TMP\_18) = 0 TMP\_19 = 1 not(TMP\_19) = 0 TMP\_20 = 1 not(TMP\_20) = 0 TMP\_21 = 3 TMP\_22 = 0 not(TMP\_22) = 1 TMP\_23 = 0 not(TMP\_23) = 1 TMP\_24 = 0 TMP\_25 = 1 not(TMP\_25) = 0 TMP\_26 = 1 not(TMP\_26) = 0 TMP\_27 = 2 TMP\_28 = 0 not(TMP\_28) = 1 TMP\_29 = 0 not(TMP\_29) = 1 TMP\_30 = 1 not(TMP\_30) = 0 TMP\_31 = 1 not(TMP\_31) = 0 TMP\_32 = 1 not(TMP\_32) = 0 TMP\_33 = 2 TMP\_34 = 0 not(TMP\_34) = 1 TMP\_35 = 1 not(TMP\_35) = 0 TMP\_36 = 1 not(TMP\_36) = 0 TMP\_37 = 1 not(TMP\_37) = 0 TMP\_38 = 3 TMP\_39 = 0 not(TMP\_39) = 1 TMP\_40 = 0 not(TMP\_40) = 1 TMP\_41 = 0 TMP\_42 = 1 not(TMP\_42) = 0 TMP\_43 = 1 not(TMP\_43) = 0 TMP\_44 = 2 TMP\_45 = 0 not(TMP\_45) = 1 TMP\_46 = 0 not(TMP\_46) = 1 TMP\_47 = 1 not(TMP\_47) = 0 TMP\_48 = 1 not(TMP\_48) = 0 TMP\_49 = 1 not(TMP\_49) = 0 TMP\_50 = 2 Area\_0 = 2000 Distance\_0\_Rule\_0 = 1 Distance\_1\_Rule\_0 = 2000 Area\_1 = 1000 Distance\_0\_Rule\_1 = 1 Distance\_1\_Rule\_1 = 1000 Area\_2 = 1000 Distance\_0\_Rule\_2 = 1 Distance\_1\_Rule\_2 = 1000 Area\_3 = 2000 -(Rule\_3\_LB) = -2 Distance\_0\_Rule\_3 = 1 -(Rule\_3\_LB) = 0 Distance\_1\_Rule\_3 = 2000 TMP\_51 = 6000 .

- Solution #11 found. 11 Solutions, Resolution 0.032s, 26 Nodes (807.2 n/s), 19 Backtracks, 1 Fails, 0 Restarts

Rule\_3\_LB = 2 Rule\_3\_UB = 3 Rule\_3\_LB = 0 Rule\_3\_UB = 2000 Overlaps\_0\_0 = 0 Overlaps\_0\_1 = 1 Overlaps\_0\_2 = 0 Overlaps\_0\_3 = 0 Overlaps\_1\_0 = 1 Overlaps\_1\_1 = 0 Overlaps\_1\_2 = 0 Overlaps\_1\_3 = 0 Overlaps\_2\_0 = 0 Overlaps\_2\_1 = 0 Overlaps\_2\_2 = 0 Overlaps\_2\_3 = 0 Overlaps\_3\_0 = 0 Overlaps\_3\_1 = 0 Overlaps\_3\_2 = 0 Overlaps\_3\_3 = 0 TMP\_0 = 0 not(TMP\_0) = 1 TMP\_1 = 1 not(TMP\_1) = 0 TMP\_2 = 1 not(TMP\_2) = 0 TMP\_3 = 1 not(TMP\_3) = 0 TMP\_4 = 3 TMP\_5 = 0 not(TMP\_5) = 1 TMP\_6 = 0 not(TMP\_6) = 1 TMP\_7 = 0 TMP\_8 = 1 not(TMP\_8) = 0 TMP\_9 = 1 not(TMP\_9) = 0 TMP\_10 = 2 TMP\_11 = 0 not(TMP\_11) = 1 TMP\_12 = 0 not(TMP\_12) = 1 TMP\_13 = 1 not(TMP\_13) = 0 TMP\_14 = 1 not(TMP\_14) = 0 TMP\_15 = 1 not(TMP\_15) = 0 TMP\_16 = 2 TMP\_17 = 0 not(TMP\_17) = 1 TMP\_18 = 1 not(TMP\_18) = 0 TMP\_19 = 1 not(TMP\_19) = 0 TMP\_20 = 1 not(TMP\_20) = 0 TMP\_21 = 3 TMP\_22 = 0 not(TMP\_22) = 1 TMP\_23 = 0 not(TMP\_23) = 1 TMP\_24 = 0 TMP\_25 = 1 not(TMP\_25) = 0 TMP\_26 = 1 not(TMP\_26) = 0 TMP\_27 = 2 TMP\_28 = 0 not(TMP\_28) = 1 TMP\_29 = 0 not(TMP\_29) = 1 TMP\_30 = 1 not(TMP\_30) = 0 TMP\_31 = 1 not(TMP\_31) = 0 TMP\_32 = 1 not(TMP\_32) = 0 TMP\_33 = 2 TMP\_34 = 0 not(TMP\_34) = 1 TMP\_35 = 1 not(TMP\_35) = 0 TMP\_36 = 1 not(TMP\_36) = 0 TMP\_37 = 1 not(TMP\_37) = 0 TMP\_38 = 3 TMP\_39 = 0 not(TMP\_39) = 1 TMP\_40 = 0 not(TMP\_40) = 1 TMP\_41 = 0 TMP\_42 = 1 not(TMP\_42) = 0 TMP\_43 = 1 not(TMP\_43) = 0 TMP\_44 = 2 TMP\_45 = 0 not(TMP\_45) = 1 TMP\_46 = 0 not(TMP\_46) = 1 TMP\_47 = 1 not(TMP\_47) = 0 TMP\_48 = 1 not(TMP\_48) = 0 TMP\_49 = 1 not(TMP\_49) = 0 TMP\_50 = 2 Area\_0 = 2000 Distance\_0\_Rule\_0 = 1 Distance\_1\_Rule\_0 = 2000 Area\_1 = 1000 Distance\_0\_Rule\_1 = 1 Distance\_1\_Rule\_1 = 1000 Area\_2 = 1000 Distance\_0\_Rule\_2 = 1 Distance\_1\_Rule\_2 = 1000 Area\_3 = 2000 -(Rule\_3\_LB) = -2 Distance\_0\_Rule\_3 = 1 -(Rule\_3\_LB) = 0 Distance\_1\_Rule\_3 = 2000 TMP\_51 = 6000 .

- Solution #12 found. 12 Solutions, Resolution 0.033s, 27 Nodes (817.3 n/s), 20 Backtracks, 1 Fails, 0 Restarts

Rule\_3\_LB = 2 Rule\_3\_UB = 3 Rule\_3\_LB = 0 Rule\_3\_UB = 2000 Overlaps\_0\_0 = 0 Overlaps\_0\_1 = 1 Overlaps\_0\_2 = 1 Overlaps\_0\_3 = 0 Overlaps\_1\_0 = 1 Overlaps\_1\_1 = 0 Overlaps\_1\_2 = 0 Overlaps\_1\_3 = 0 Overlaps\_2\_0 = 0 Overlaps\_2\_1 = 0 Overlaps\_2\_2 = 0 Overlaps\_2\_3 = 0 Overlaps\_3\_0 = 0 Overlaps\_3\_1 = 0 Overlaps\_3\_2 = 0 Overlaps\_3\_3 = 0 TMP\_0 = 0 not(TMP\_0) = 1 TMP\_1 = 1 not(TMP\_1) = 0 TMP\_2 = 1 not(TMP\_2) = 0 TMP\_3 = 1 not(TMP\_3) = 0 TMP\_4 = 3 TMP\_5 = 0 not(TMP\_5) = 1 TMP\_6 = 0 not(TMP\_6) = 1 TMP\_7 = 0 TMP\_8 = 1 not(TMP\_8) = 0 TMP\_9 = 1 not(TMP\_9) = 0 TMP\_10 = 2 TMP\_11 = 0 not(TMP\_11) = 1 TMP\_12 = 0 not(TMP\_12) = 1 TMP\_13 = 1 not(TMP\_13) = 0 TMP\_14 = 1 not(TMP\_14) = 0 TMP\_15 = 1 not(TMP\_15) = 0 TMP\_16 = 2 TMP\_17 = 0 not(TMP\_17) = 1 TMP\_18 = 1 not(TMP\_18) = 0 TMP\_19 = 1 not(TMP\_19) = 0 TMP\_20 = 1 not(TMP\_20) = 0 TMP\_21 = 3 TMP\_22 = 0 not(TMP\_22) = 1 TMP\_23 = 0 not(TMP\_23) = 1 TMP\_24 = 0 TMP\_25 = 1 not(TMP\_25) = 0 TMP\_26 = 1 not(TMP\_26) = 0 TMP\_27 = 2 TMP\_28 = 0 not(TMP\_28) = 1 TMP\_29 = 0 not(TMP\_29) = 1 TMP\_30 = 1 not(TMP\_30) = 0 TMP\_31 = 1 not(TMP\_31) = 0 TMP\_32 = 1 not(TMP\_32) = 0 TMP\_33 = 2 TMP\_34 = 0 not(TMP\_34) = 1 TMP\_35 = 1 not(TMP\_35) = 0 TMP\_36 = 1 not(TMP\_36) = 0 TMP\_37 = 1 not(TMP\_37) = 0 TMP\_38 = 3 TMP\_39 = 0 not(TMP\_39) = 1 TMP\_40 = 0 not(TMP\_40) = 1 TMP\_41 = 0 TMP\_42 = 1 not(TMP\_42) = 0 TMP\_43 = 1 not(TMP\_43) = 0 TMP\_44 = 2 TMP\_45 = 0 not(TMP\_45) = 1 TMP\_46 = 0 not(TMP\_46) = 1 TMP\_47 = 1 not(TMP\_47) = 0 TMP\_48 = 1 not(TMP\_48) = 0 TMP\_49 = 1 not(TMP\_49) = 0 TMP\_50 = 2 Area\_0 = 2000 Distance\_0\_Rule\_0 = 1 Distance\_1\_Rule\_0 = 2000 Area\_1 = 1000 Distance\_0\_Rule\_1 = 1 Distance\_1\_Rule\_1 = 1000 Area\_2 = 1000 Distance\_0\_Rule\_2 = 1 Distance\_1\_Rule\_2 = 1000 Area\_3 = 2000 -(Rule\_3\_LB) = -2 Distance\_0\_Rule\_3 = 1 -(Rule\_3\_LB) = 0 Distance\_1\_Rule\_3 = 2000 TMP\_51 = 6000 .

- Solution #13 found. 13 Solutions, Resolution 0.034s, 30 Nodes (884.9 n/s), 23 Backtracks, 1 Fails, 0 Restarts

Rule\_3\_LB = 2 Rule\_3\_UB = 3 Rule\_3\_LB = 0 Rule\_3\_UB = 2000 Overlaps\_0\_0 = 0 Overlaps\_0\_1 = 0 Overlaps\_0\_2 = 0 Overlaps\_0\_3 = 0 Overlaps\_1\_0 = 1 Overlaps\_1\_1 = 0 Overlaps\_1\_2 = 1 Overlaps\_1\_3 = 0 Overlaps\_2\_0 = 0 Overlaps\_2\_1 = 0 Overlaps\_2\_2 = 0 Overlaps\_2\_3 = 0 Overlaps\_3\_0 = 0 Overlaps\_3\_1 = 0 Overlaps\_3\_2 = 0 Overlaps\_3\_3 = 0 TMP\_0 = 0 not(TMP\_0) = 1 TMP\_1 = 1 not(TMP\_1) = 0 TMP\_2 = 1 not(TMP\_2) = 0 TMP\_3 = 1 not(TMP\_3) = 0 TMP\_4 = 3 TMP\_5 = 0 not(TMP\_5) = 1 TMP\_6 = 0 not(TMP\_6) = 1 TMP\_7 = 0 TMP\_8 = 1 not(TMP\_8) = 0 TMP\_9 = 1 not(TMP\_9) = 0 TMP\_10 = 2 TMP\_11 = 0 not(TMP\_11) = 1 TMP\_12 = 0 not(TMP\_12) = 1 TMP\_13 = 1 not(TMP\_13) = 0 TMP\_14 = 1 not(TMP\_14) = 0 TMP\_15 = 1 not(TMP\_15) = 0 TMP\_16 = 2 TMP\_17 = 0 not(TMP\_17) = 1 TMP\_18 = 1 not(TMP\_18) = 0 TMP\_19 = 1 not(TMP\_19) = 0 TMP\_20 = 1 not(TMP\_20) = 0 TMP\_21 = 3 TMP\_22 = 0 not(TMP\_22) = 1 TMP\_23 = 0 not(TMP\_23) = 1 TMP\_24 = 0 TMP\_25 = 1 not(TMP\_25) = 0 TMP\_26 = 1 not(TMP\_26) = 0 TMP\_27 = 2 TMP\_28 = 0 not(TMP\_28) = 1 TMP\_29 = 0 not(TMP\_29) = 1 TMP\_30 = 1 not(TMP\_30) = 0 TMP\_31 = 1 not(TMP\_31) = 0 TMP\_32 = 1 not(TMP\_32) = 0 TMP\_33 = 2 TMP\_34 = 0 not(TMP\_34) = 1 TMP\_35 = 1 not(TMP\_35) = 0 TMP\_36 = 1 not(TMP\_36) = 0 TMP\_37 = 1 not(TMP\_37) = 0 TMP\_38 = 3 TMP\_39 = 0 not(TMP\_39) = 1 TMP\_40 = 0 not(TMP\_40) = 1 TMP\_41 = 0 TMP\_42 = 1 not(TMP\_42) = 0 TMP\_43 = 1 not(TMP\_43) = 0 TMP\_44 = 2 TMP\_45 = 0 not(TMP\_45) = 1 TMP\_46 = 0 not(TMP\_46) = 1 TMP\_47 = 1 not(TMP\_47) = 0 TMP\_48 = 1 not(TMP\_48) = 0 TMP\_49 = 1 not(TMP\_49) = 0 TMP\_50 = 2 Area\_0 = 2000 Distance\_0\_Rule\_0 = 1 Distance\_1\_Rule\_0 = 2000 Area\_1 = 1000 Distance\_0\_Rule\_1 = 1 Distance\_1\_Rule\_1 = 1000 Area\_2 = 1000 Distance\_0\_Rule\_2 = 1 Distance\_1\_Rule\_2 = 1000 Area\_3 = 2000 -(Rule\_3\_LB) = -2 Distance\_0\_Rule\_3 = 1 -(Rule\_3\_LB) = 0 Distance\_1\_Rule\_3 = 2000 TMP\_51 = 6000 .

- Solution #14 found. 14 Solutions, Resolution 0.035s, 31 Nodes (886.1 n/s), 24 Backtracks, 1 Fails, 0 Restarts

Rule\_3\_LB = 2 Rule\_3\_UB = 3 Rule\_3\_LB = 0 Rule\_3\_UB = 2000 Overlaps\_0\_0 = 0 Overlaps\_0\_1 = 1 Overlaps\_0\_2 = 0 Overlaps\_0\_3 = 0 Overlaps\_1\_0 = 1 Overlaps\_1\_1 = 0 Overlaps\_1\_2 = 1 Overlaps\_1\_3 = 0 Overlaps\_2\_0 = 0 Overlaps\_2\_1 = 0 Overlaps\_2\_2 = 0 Overlaps\_2\_3 = 0 Overlaps\_3\_0 = 0 Overlaps\_3\_1 = 0 Overlaps\_3\_2 = 0 Overlaps\_3\_3 = 0 TMP\_0 = 0 not(TMP\_0) = 1 TMP\_1 = 1 not(TMP\_1) = 0 TMP\_2 = 1 not(TMP\_2) = 0 TMP\_3 = 1 not(TMP\_3) = 0 TMP\_4 = 3 TMP\_5 = 0 not(TMP\_5) = 1 TMP\_6 = 0 not(TMP\_6) = 1 TMP\_7 = 0 TMP\_8 = 1 not(TMP\_8) = 0 TMP\_9 = 1 not(TMP\_9) = 0 TMP\_10 = 2 TMP\_11 = 0 not(TMP\_11) = 1 TMP\_12 = 0 not(TMP\_12) = 1 TMP\_13 = 1 not(TMP\_13) = 0 TMP\_14 = 1 not(TMP\_14) = 0 TMP\_15 = 1 not(TMP\_15) = 0 TMP\_16 = 2 TMP\_17 = 0 not(TMP\_17) = 1 TMP\_18 = 1 not(TMP\_18) = 0 TMP\_19 = 1 not(TMP\_19) = 0 TMP\_20 = 1 not(TMP\_20) = 0 TMP\_21 = 3 TMP\_22 = 0 not(TMP\_22) = 1 TMP\_23 = 0 not(TMP\_23) = 1 TMP\_24 = 0 TMP\_25 = 1 not(TMP\_25) = 0 TMP\_26 = 1 not(TMP\_26) = 0 TMP\_27 = 2 TMP\_28 = 0 not(TMP\_28) = 1 TMP\_29 = 0 not(TMP\_29) = 1 TMP\_30 = 1 not(TMP\_30) = 0 TMP\_31 = 1 not(TMP\_31) = 0 TMP\_32 = 1 not(TMP\_32) = 0 TMP\_33 = 2 TMP\_34 = 0 not(TMP\_34) = 1 TMP\_35 = 1 not(TMP\_35) = 0 TMP\_36 = 1 not(TMP\_36) = 0 TMP\_37 = 1 not(TMP\_37) = 0 TMP\_38 = 3 TMP\_39 = 0 not(TMP\_39) = 1 TMP\_40 = 0 not(TMP\_40) = 1 TMP\_41 = 0 TMP\_42 = 1 not(TMP\_42) = 0 TMP\_43 = 1 not(TMP\_43) = 0 TMP\_44 = 2 TMP\_45 = 0 not(TMP\_45) = 1 TMP\_46 = 0 not(TMP\_46) = 1 TMP\_47 = 1 not(TMP\_47) = 0 TMP\_48 = 1 not(TMP\_48) = 0 TMP\_49 = 1 not(TMP\_49) = 0 TMP\_50 = 2 Area\_0 = 2000 Distance\_0\_Rule\_0 = 1 Distance\_1\_Rule\_0 = 2000 Area\_1 = 1000 Distance\_0\_Rule\_1 = 1 Distance\_1\_Rule\_1 = 1000 Area\_2 = 1000 Distance\_0\_Rule\_2 = 1 Distance\_1\_Rule\_2 = 1000 Area\_3 = 2000 -(Rule\_3\_LB) = -2 Distance\_0\_Rule\_3 = 1 -(Rule\_3\_LB) = 0 Distance\_1\_Rule\_3 = 2000 TMP\_51 = 6000 .

- Solution #15 found. 15 Solutions, Resolution 0.036s, 33 Nodes (916.2 n/s), 26 Backtracks, 1 Fails, 0 Restarts

Rule\_3\_LB = 2 Rule\_3\_UB = 3 Rule\_3\_LB = 0 Rule\_3\_UB = 2000 Overlaps\_0\_0 = 0 Overlaps\_0\_1 = 0 Overlaps\_0\_2 = 1 Overlaps\_0\_3 = 0 Overlaps\_1\_0 = 1 Overlaps\_1\_1 = 0 Overlaps\_1\_2 = 1 Overlaps\_1\_3 = 0 Overlaps\_2\_0 = 0 Overlaps\_2\_1 = 0 Overlaps\_2\_2 = 0 Overlaps\_2\_3 = 0 Overlaps\_3\_0 = 0 Overlaps\_3\_1 = 0 Overlaps\_3\_2 = 0 Overlaps\_3\_3 = 0 TMP\_0 = 0 not(TMP\_0) = 1 TMP\_1 = 1 not(TMP\_1) = 0 TMP\_2 = 1 not(TMP\_2) = 0 TMP\_3 = 1 not(TMP\_3) = 0 TMP\_4 = 3 TMP\_5 = 0 not(TMP\_5) = 1 TMP\_6 = 0 not(TMP\_6) = 1 TMP\_7 = 0 TMP\_8 = 1 not(TMP\_8) = 0 TMP\_9 = 1 not(TMP\_9) = 0 TMP\_10 = 2 TMP\_11 = 0 not(TMP\_11) = 1 TMP\_12 = 0 not(TMP\_12) = 1 TMP\_13 = 1 not(TMP\_13) = 0 TMP\_14 = 1 not(TMP\_14) = 0 TMP\_15 = 1 not(TMP\_15) = 0 TMP\_16 = 2 TMP\_17 = 0 not(TMP\_17) = 1 TMP\_18 = 1 not(TMP\_18) = 0 TMP\_19 = 1 not(TMP\_19) = 0 TMP\_20 = 1 not(TMP\_20) = 0 TMP\_21 = 3 TMP\_22 = 0 not(TMP\_22) = 1 TMP\_23 = 0 not(TMP\_23) = 1 TMP\_24 = 0 TMP\_25 = 1 not(TMP\_25) = 0 TMP\_26 = 1 not(TMP\_26) = 0 TMP\_27 = 2 TMP\_28 = 0 not(TMP\_28) = 1 TMP\_29 = 0 not(TMP\_29) = 1 TMP\_30 = 1 not(TMP\_30) = 0 TMP\_31 = 1 not(TMP\_31) = 0 TMP\_32 = 1 not(TMP\_32) = 0 TMP\_33 = 2 TMP\_34 = 0 not(TMP\_34) = 1 TMP\_35 = 1 not(TMP\_35) = 0 TMP\_36 = 1 not(TMP\_36) = 0 TMP\_37 = 1 not(TMP\_37) = 0 TMP\_38 = 3 TMP\_39 = 0 not(TMP\_39) = 1 TMP\_40 = 0 not(TMP\_40) = 1 TMP\_41 = 0 TMP\_42 = 1 not(TMP\_42) = 0 TMP\_43 = 1 not(TMP\_43) = 0 TMP\_44 = 2 TMP\_45 = 0 not(TMP\_45) = 1 TMP\_46 = 0 not(TMP\_46) = 1 TMP\_47 = 1 not(TMP\_47) = 0 TMP\_48 = 1 not(TMP\_48) = 0 TMP\_49 = 1 not(TMP\_49) = 0 TMP\_50 = 2 Area\_0 = 2000 Distance\_0\_Rule\_0 = 1 Distance\_1\_Rule\_0 = 2000 Area\_1 = 1000 Distance\_0\_Rule\_1 = 1 Distance\_1\_Rule\_1 = 1000 Area\_2 = 1000 Distance\_0\_Rule\_2 = 1 Distance\_1\_Rule\_2 = 1000 Area\_3 = 2000 -(Rule\_3\_LB) = -2 Distance\_0\_Rule\_3 = 1 -(Rule\_3\_LB) = 0 Distance\_1\_Rule\_3 = 2000 TMP\_51 = 6000 .

- Solution #16 found. 16 Solutions, Resolution 0.037s, 34 Nodes (915.2 n/s), 27 Backtracks, 1 Fails, 0 Restarts

Rule\_3\_LB = 2 Rule\_3\_UB = 3 Rule\_3\_LB = 0 Rule\_3\_UB = 2000 Overlaps\_0\_0 = 0 Overlaps\_0\_1 = 1 Overlaps\_0\_2 = 1 Overlaps\_0\_3 = 0 Overlaps\_1\_0 = 1 Overlaps\_1\_1 = 0 Overlaps\_1\_2 = 1 Overlaps\_1\_3 = 0 Overlaps\_2\_0 = 0 Overlaps\_2\_1 = 0 Overlaps\_2\_2 = 0 Overlaps\_2\_3 = 0 Overlaps\_3\_0 = 0 Overlaps\_3\_1 = 0 Overlaps\_3\_2 = 0 Overlaps\_3\_3 = 0 TMP\_0 = 0 not(TMP\_0) = 1 TMP\_1 = 1 not(TMP\_1) = 0 TMP\_2 = 1 not(TMP\_2) = 0 TMP\_3 = 1 not(TMP\_3) = 0 TMP\_4 = 3 TMP\_5 = 0 not(TMP\_5) = 1 TMP\_6 = 0 not(TMP\_6) = 1 TMP\_7 = 0 TMP\_8 = 1 not(TMP\_8) = 0 TMP\_9 = 1 not(TMP\_9) = 0 TMP\_10 = 2 TMP\_11 = 0 not(TMP\_11) = 1 TMP\_12 = 0 not(TMP\_12) = 1 TMP\_13 = 1 not(TMP\_13) = 0 TMP\_14 = 1 not(TMP\_14) = 0 TMP\_15 = 1 not(TMP\_15) = 0 TMP\_16 = 2 TMP\_17 = 0 not(TMP\_17) = 1 TMP\_18 = 1 not(TMP\_18) = 0 TMP\_19 = 1 not(TMP\_19) = 0 TMP\_20 = 1 not(TMP\_20) = 0 TMP\_21 = 3 TMP\_22 = 0 not(TMP\_22) = 1 TMP\_23 = 0 not(TMP\_23) = 1 TMP\_24 = 0 TMP\_25 = 1 not(TMP\_25) = 0 TMP\_26 = 1 not(TMP\_26) = 0 TMP\_27 = 2 TMP\_28 = 0 not(TMP\_28) = 1 TMP\_29 = 0 not(TMP\_29) = 1 TMP\_30 = 1 not(TMP\_30) = 0 TMP\_31 = 1 not(TMP\_31) = 0 TMP\_32 = 1 not(TMP\_32) = 0 TMP\_33 = 2 TMP\_34 = 0 not(TMP\_34) = 1 TMP\_35 = 1 not(TMP\_35) = 0 TMP\_36 = 1 not(TMP\_36) = 0 TMP\_37 = 1 not(TMP\_37) = 0 TMP\_38 = 3 TMP\_39 = 0 not(TMP\_39) = 1 TMP\_40 = 0 not(TMP\_40) = 1 TMP\_41 = 0 TMP\_42 = 1 not(TMP\_42) = 0 TMP\_43 = 1 not(TMP\_43) = 0 TMP\_44 = 2 TMP\_45 = 0 not(TMP\_45) = 1 TMP\_46 = 0 not(TMP\_46) = 1 TMP\_47 = 1 not(TMP\_47) = 0 TMP\_48 = 1 not(TMP\_48) = 0 TMP\_49 = 1 not(TMP\_49) = 0 TMP\_50 = 2 Area\_0 = 2000 Distance\_0\_Rule\_0 = 1 Distance\_1\_Rule\_0 = 2000 Area\_1 = 1000 Distance\_0\_Rule\_1 = 1 Distance\_1\_Rule\_1 = 1000 Area\_2 = 1000 Distance\_0\_Rule\_2 = 1 Distance\_1\_Rule\_2 = 1000 Area\_3 = 2000 -(Rule\_3\_LB) = -2 Distance\_0\_Rule\_3 = 1 -(Rule\_3\_LB) = 0 Distance\_1\_Rule\_3 = 2000 TMP\_51 = 6000 .

- Solution #17 found. 17 Solutions, Resolution 0.039s, 39 Nodes (1,002.0 n/s), 32 Backtracks, 1 Fails, 0 Restarts

Rule\_3\_LB = 2 Rule\_3\_UB = 3 Rule\_3\_LB = 0 Rule\_3\_UB = 2000 Overlaps\_0\_0 = 0 Overlaps\_0\_1 = 0 Overlaps\_0\_2 = 0 Overlaps\_0\_3 = 0 Overlaps\_1\_0 = 0 Overlaps\_1\_1 = 0 Overlaps\_1\_2 = 0 Overlaps\_1\_3 = 0 Overlaps\_2\_0 = 0 Overlaps\_2\_1 = 1 Overlaps\_2\_2 = 0 Overlaps\_2\_3 = 0 Overlaps\_3\_0 = 0 Overlaps\_3\_1 = 0 Overlaps\_3\_2 = 0 Overlaps\_3\_3 = 0 TMP\_0 = 0 not(TMP\_0) = 1 TMP\_1 = 1 not(TMP\_1) = 0 TMP\_2 = 1 not(TMP\_2) = 0 TMP\_3 = 1 not(TMP\_3) = 0 TMP\_4 = 3 TMP\_5 = 0 not(TMP\_5) = 1 TMP\_6 = 0 not(TMP\_6) = 1 TMP\_7 = 0 TMP\_8 = 1 not(TMP\_8) = 0 TMP\_9 = 1 not(TMP\_9) = 0 TMP\_10 = 2 TMP\_11 = 0 not(TMP\_11) = 1 TMP\_12 = 0 not(TMP\_12) = 1 TMP\_13 = 1 not(TMP\_13) = 0 TMP\_14 = 1 not(TMP\_14) = 0 TMP\_15 = 1 not(TMP\_15) = 0 TMP\_16 = 2 TMP\_17 = 0 not(TMP\_17) = 1 TMP\_18 = 1 not(TMP\_18) = 0 TMP\_19 = 1 not(TMP\_19) = 0 TMP\_20 = 1 not(TMP\_20) = 0 TMP\_21 = 3 TMP\_22 = 0 not(TMP\_22) = 1 TMP\_23 = 0 not(TMP\_23) = 1 TMP\_24 = 0 TMP\_25 = 1 not(TMP\_25) = 0 TMP\_26 = 1 not(TMP\_26) = 0 TMP\_27 = 2 TMP\_28 = 0 not(TMP\_28) = 1 TMP\_29 = 0 not(TMP\_29) = 1 TMP\_30 = 1 not(TMP\_30) = 0 TMP\_31 = 1 not(TMP\_31) = 0 TMP\_32 = 1 not(TMP\_32) = 0 TMP\_33 = 2 TMP\_34 = 0 not(TMP\_34) = 1 TMP\_35 = 1 not(TMP\_35) = 0 TMP\_36 = 1 not(TMP\_36) = 0 TMP\_37 = 1 not(TMP\_37) = 0 TMP\_38 = 3 TMP\_39 = 0 not(TMP\_39) = 1 TMP\_40 = 0 not(TMP\_40) = 1 TMP\_41 = 0 TMP\_42 = 1 not(TMP\_42) = 0 TMP\_43 = 1 not(TMP\_43) = 0 TMP\_44 = 2 TMP\_45 = 0 not(TMP\_45) = 1 TMP\_46 = 0 not(TMP\_46) = 1 TMP\_47 = 1 not(TMP\_47) = 0 TMP\_48 = 1 not(TMP\_48) = 0 TMP\_49 = 1 not(TMP\_49) = 0 TMP\_50 = 2 Area\_0 = 2000 Distance\_0\_Rule\_0 = 1 Distance\_1\_Rule\_0 = 2000 Area\_1 = 1000 Distance\_0\_Rule\_1 = 1 Distance\_1\_Rule\_1 = 1000 Area\_2 = 1000 Distance\_0\_Rule\_2 = 1 Distance\_1\_Rule\_2 = 1000 Area\_3 = 2000 -(Rule\_3\_LB) = -2 Distance\_0\_Rule\_3 = 1 -(Rule\_3\_LB) = 0 Distance\_1\_Rule\_3 = 2000 TMP\_51 = 6000 .

- Solution #18 found. 18 Solutions, Resolution 0.040s, 40 Nodes (1,004.9 n/s), 33 Backtracks, 1 Fails, 0 Restarts

Rule\_3\_LB = 2 Rule\_3\_UB = 3 Rule\_3\_LB = 0 Rule\_3\_UB = 2000 Overlaps\_0\_0 = 0 Overlaps\_0\_1 = 0 Overlaps\_0\_2 = 1 Overlaps\_0\_3 = 0 Overlaps\_1\_0 = 0 Overlaps\_1\_1 = 0 Overlaps\_1\_2 = 0 Overlaps\_1\_3 = 0 Overlaps\_2\_0 = 0 Overlaps\_2\_1 = 1 Overlaps\_2\_2 = 0 Overlaps\_2\_3 = 0 Overlaps\_3\_0 = 0 Overlaps\_3\_1 = 0 Overlaps\_3\_2 = 0 Overlaps\_3\_3 = 0 TMP\_0 = 0 not(TMP\_0) = 1 TMP\_1 = 1 not(TMP\_1) = 0 TMP\_2 = 1 not(TMP\_2) = 0 TMP\_3 = 1 not(TMP\_3) = 0 TMP\_4 = 3 TMP\_5 = 0 not(TMP\_5) = 1 TMP\_6 = 0 not(TMP\_6) = 1 TMP\_7 = 0 TMP\_8 = 1 not(TMP\_8) = 0 TMP\_9 = 1 not(TMP\_9) = 0 TMP\_10 = 2 TMP\_11 = 0 not(TMP\_11) = 1 TMP\_12 = 0 not(TMP\_12) = 1 TMP\_13 = 1 not(TMP\_13) = 0 TMP\_14 = 1 not(TMP\_14) = 0 TMP\_15 = 1 not(TMP\_15) = 0 TMP\_16 = 2 TMP\_17 = 0 not(TMP\_17) = 1 TMP\_18 = 1 not(TMP\_18) = 0 TMP\_19 = 1 not(TMP\_19) = 0 TMP\_20 = 1 not(TMP\_20) = 0 TMP\_21 = 3 TMP\_22 = 0 not(TMP\_22) = 1 TMP\_23 = 0 not(TMP\_23) = 1 TMP\_24 = 0 TMP\_25 = 1 not(TMP\_25) = 0 TMP\_26 = 1 not(TMP\_26) = 0 TMP\_27 = 2 TMP\_28 = 0 not(TMP\_28) = 1 TMP\_29 = 0 not(TMP\_29) = 1 TMP\_30 = 1 not(TMP\_30) = 0 TMP\_31 = 1 not(TMP\_31) = 0 TMP\_32 = 1 not(TMP\_32) = 0 TMP\_33 = 2 TMP\_34 = 0 not(TMP\_34) = 1 TMP\_35 = 1 not(TMP\_35) = 0 TMP\_36 = 1 not(TMP\_36) = 0 TMP\_37 = 1 not(TMP\_37) = 0 TMP\_38 = 3 TMP\_39 = 0 not(TMP\_39) = 1 TMP\_40 = 0 not(TMP\_40) = 1 TMP\_41 = 0 TMP\_42 = 1 not(TMP\_42) = 0 TMP\_43 = 1 not(TMP\_43) = 0 TMP\_44 = 2 TMP\_45 = 0 not(TMP\_45) = 1 TMP\_46 = 0 not(TMP\_46) = 1 TMP\_47 = 1 not(TMP\_47) = 0 TMP\_48 = 1 not(TMP\_48) = 0 TMP\_49 = 1 not(TMP\_49) = 0 TMP\_50 = 2 Area\_0 = 2000 Distance\_0\_Rule\_0 = 1 Distance\_1\_Rule\_0 = 2000 Area\_1 = 1000 Distance\_0\_Rule\_1 = 1 Distance\_1\_Rule\_1 = 1000 Area\_2 = 1000 Distance\_0\_Rule\_2 = 1 Distance\_1\_Rule\_2 = 1000 Area\_3 = 2000 -(Rule\_3\_LB) = -2 Distance\_0\_Rule\_3 = 1 -(Rule\_3\_LB) = 0 Distance\_1\_Rule\_3 = 2000 TMP\_51 = 6000 .

- Solution #19 found. 19 Solutions, Resolution 0.041s, 42 Nodes (1,032.3 n/s), 35 Backtracks, 1 Fails, 0 Restarts

Rule\_3\_LB = 2 Rule\_3\_UB = 3 Rule\_3\_LB = 0 Rule\_3\_UB = 2000 Overlaps\_0\_0 = 0 Overlaps\_0\_1 = 1 Overlaps\_0\_2 = 0 Overlaps\_0\_3 = 0 Overlaps\_1\_0 = 0 Overlaps\_1\_1 = 0 Overlaps\_1\_2 = 0 Overlaps\_1\_3 = 0 Overlaps\_2\_0 = 0 Overlaps\_2\_1 = 1 Overlaps\_2\_2 = 0 Overlaps\_2\_3 = 0 Overlaps\_3\_0 = 0 Overlaps\_3\_1 = 0 Overlaps\_3\_2 = 0 Overlaps\_3\_3 = 0 TMP\_0 = 0 not(TMP\_0) = 1 TMP\_1 = 1 not(TMP\_1) = 0 TMP\_2 = 1 not(TMP\_2) = 0 TMP\_3 = 1 not(TMP\_3) = 0 TMP\_4 = 3 TMP\_5 = 0 not(TMP\_5) = 1 TMP\_6 = 0 not(TMP\_6) = 1 TMP\_7 = 0 TMP\_8 = 1 not(TMP\_8) = 0 TMP\_9 = 1 not(TMP\_9) = 0 TMP\_10 = 2 TMP\_11 = 0 not(TMP\_11) = 1 TMP\_12 = 0 not(TMP\_12) = 1 TMP\_13 = 1 not(TMP\_13) = 0 TMP\_14 = 1 not(TMP\_14) = 0 TMP\_15 = 1 not(TMP\_15) = 0 TMP\_16 = 2 TMP\_17 = 0 not(TMP\_17) = 1 TMP\_18 = 1 not(TMP\_18) = 0 TMP\_19 = 1 not(TMP\_19) = 0 TMP\_20 = 1 not(TMP\_20) = 0 TMP\_21 = 3 TMP\_22 = 0 not(TMP\_22) = 1 TMP\_23 = 0 not(TMP\_23) = 1 TMP\_24 = 0 TMP\_25 = 1 not(TMP\_25) = 0 TMP\_26 = 1 not(TMP\_26) = 0 TMP\_27 = 2 TMP\_28 = 0 not(TMP\_28) = 1 TMP\_29 = 0 not(TMP\_29) = 1 TMP\_30 = 1 not(TMP\_30) = 0 TMP\_31 = 1 not(TMP\_31) = 0 TMP\_32 = 1 not(TMP\_32) = 0 TMP\_33 = 2 TMP\_34 = 0 not(TMP\_34) = 1 TMP\_35 = 1 not(TMP\_35) = 0 TMP\_36 = 1 not(TMP\_36) = 0 TMP\_37 = 1 not(TMP\_37) = 0 TMP\_38 = 3 TMP\_39 = 0 not(TMP\_39) = 1 TMP\_40 = 0 not(TMP\_40) = 1 TMP\_41 = 0 TMP\_42 = 1 not(TMP\_42) = 0 TMP\_43 = 1 not(TMP\_43) = 0 TMP\_44 = 2 TMP\_45 = 0 not(TMP\_45) = 1 TMP\_46 = 0 not(TMP\_46) = 1 TMP\_47 = 1 not(TMP\_47) = 0 TMP\_48 = 1 not(TMP\_48) = 0 TMP\_49 = 1 not(TMP\_49) = 0 TMP\_50 = 2 Area\_0 = 2000 Distance\_0\_Rule\_0 = 1 Distance\_1\_Rule\_0 = 2000 Area\_1 = 1000 Distance\_0\_Rule\_1 = 1 Distance\_1\_Rule\_1 = 1000 Area\_2 = 1000 Distance\_0\_Rule\_2 = 1 Distance\_1\_Rule\_2 = 1000 Area\_3 = 2000 -(Rule\_3\_LB) = -2 Distance\_0\_Rule\_3 = 1 -(Rule\_3\_LB) = 0 Distance\_1\_Rule\_3 = 2000 TMP\_51 = 6000 .

- Solution #20 found. 20 Solutions, Resolution 0.041s, 43 Nodes (1,039.9 n/s), 36 Backtracks, 1 Fails, 0 Restarts

Rule\_3\_LB = 2 Rule\_3\_UB = 3 Rule\_3\_LB = 0 Rule\_3\_UB = 2000 Overlaps\_0\_0 = 0 Overlaps\_0\_1 = 1 Overlaps\_0\_2 = 1 Overlaps\_0\_3 = 0 Overlaps\_1\_0 = 0 Overlaps\_1\_1 = 0 Overlaps\_1\_2 = 0 Overlaps\_1\_3 = 0 Overlaps\_2\_0 = 0 Overlaps\_2\_1 = 1 Overlaps\_2\_2 = 0 Overlaps\_2\_3 = 0 Overlaps\_3\_0 = 0 Overlaps\_3\_1 = 0 Overlaps\_3\_2 = 0 Overlaps\_3\_3 = 0 TMP\_0 = 0 not(TMP\_0) = 1 TMP\_1 = 1 not(TMP\_1) = 0 TMP\_2 = 1 not(TMP\_2) = 0 TMP\_3 = 1 not(TMP\_3) = 0 TMP\_4 = 3 TMP\_5 = 0 not(TMP\_5) = 1 TMP\_6 = 0 not(TMP\_6) = 1 TMP\_7 = 0 TMP\_8 = 1 not(TMP\_8) = 0 TMP\_9 = 1 not(TMP\_9) = 0 TMP\_10 = 2 TMP\_11 = 0 not(TMP\_11) = 1 TMP\_12 = 0 not(TMP\_12) = 1 TMP\_13 = 1 not(TMP\_13) = 0 TMP\_14 = 1 not(TMP\_14) = 0 TMP\_15 = 1 not(TMP\_15) = 0 TMP\_16 = 2 TMP\_17 = 0 not(TMP\_17) = 1 TMP\_18 = 1 not(TMP\_18) = 0 TMP\_19 = 1 not(TMP\_19) = 0 TMP\_20 = 1 not(TMP\_20) = 0 TMP\_21 = 3 TMP\_22 = 0 not(TMP\_22) = 1 TMP\_23 = 0 not(TMP\_23) = 1 TMP\_24 = 0 TMP\_25 = 1 not(TMP\_25) = 0 TMP\_26 = 1 not(TMP\_26) = 0 TMP\_27 = 2 TMP\_28 = 0 not(TMP\_28) = 1 TMP\_29 = 0 not(TMP\_29) = 1 TMP\_30 = 1 not(TMP\_30) = 0 TMP\_31 = 1 not(TMP\_31) = 0 TMP\_32 = 1 not(TMP\_32) = 0 TMP\_33 = 2 TMP\_34 = 0 not(TMP\_34) = 1 TMP\_35 = 1 not(TMP\_35) = 0 TMP\_36 = 1 not(TMP\_36) = 0 TMP\_37 = 1 not(TMP\_37) = 0 TMP\_38 = 3 TMP\_39 = 0 not(TMP\_39) = 1 TMP\_40 = 0 not(TMP\_40) = 1 TMP\_41 = 0 TMP\_42 = 1 not(TMP\_42) = 0 TMP\_43 = 1 not(TMP\_43) = 0 TMP\_44 = 2 TMP\_45 = 0 not(TMP\_45) = 1 TMP\_46 = 0 not(TMP\_46) = 1 TMP\_47 = 1 not(TMP\_47) = 0 TMP\_48 = 1 not(TMP\_48) = 0 TMP\_49 = 1 not(TMP\_49) = 0 TMP\_50 = 2 Area\_0 = 2000 Distance\_0\_Rule\_0 = 1 Distance\_1\_Rule\_0 = 2000 Area\_1 = 1000 Distance\_0\_Rule\_1 = 1 Distance\_1\_Rule\_1 = 1000 Area\_2 = 1000 Distance\_0\_Rule\_2 = 1 Distance\_1\_Rule\_2 = 1000 Area\_3 = 2000 -(Rule\_3\_LB) = -2 Distance\_0\_Rule\_3 = 1 -(Rule\_3\_LB) = 0 Distance\_1\_Rule\_3 = 2000 TMP\_51 = 6000 .

- Incomplete search - Limit reached.

Solutions: 20

Building time : 0.095s

Initialisation : 0.000s

Initial propagation : 0.013s

Resolution : 0.042s

Nodes: 43 (1,025.3 n/s)

Backtracks: 36

Fails: 1

Restarts: 0

Max depth: 7

Memory: -1mb

Variables: 146

Constraints: 133

# Check Order Modified

## Rules = 1 - Missing Rules = 1

- Solution #1 found. 1 Solutions, Resolution 0.016s, 1 Nodes (60.9 n/s), 0 Backtracks, 0 Fails, 0 Restarts

Rule\_1\_LB = 1 Rule\_1\_UB = 3 Rule\_1\_LB = 0 Rule\_1\_UB = 20 Overlaps\_0\_0 = 0 Overlaps\_0\_1 = 0 Overlaps\_1\_0 = 0 Overlaps\_1\_1 = 0 TMP\_0 = 0 not(TMP\_0) = 1 TMP\_1 = 1 not(TMP\_1) = 0 TMP\_2 = 1 not(TMP\_2) = 0 TMP\_3 = 1 not(TMP\_3) = 0 TMP\_4 = 3 TMP\_5 = 0 not(TMP\_5) = 1 TMP\_6 = 0 not(TMP\_6) = 1 TMP\_7 = 0 TMP\_8 = 1 not(TMP\_8) = 0 TMP\_9 = 1 not(TMP\_9) = 0 TMP\_10 = 2 TMP\_11 = 0 not(TMP\_11) = 1 TMP\_12 = 0 not(TMP\_12) = 1 TMP\_13 = 1 not(TMP\_13) = 0 TMP\_14 = 1 not(TMP\_14) = 0 TMP\_15 = 1 not(TMP\_15) = 0 TMP\_16 = 2 Area\_0 = 20 Distance\_0\_Rule\_0 = 1 Distance\_1\_Rule\_0 = 20 Area\_1 = 40 -(Rule\_1\_LB) = -1 Distance\_0\_Rule\_1 = 2 -(Rule\_1\_LB) = 0 Distance\_1\_Rule\_1 = 20 .

- Complete search - 1 solution found.

Solutions: 1

Building time : 0.259s

Initialisation : 0.001s

Initial propagation : 0.016s

Resolution : 0.024s

Nodes: 1 (41.7 n/s)

Backtracks: 1

Fails: 0

Restarts: 0

Max depth: 0

Memory: 0mb

Variables: 55

Constraints: 50

## Rules = 2 - Missing Rules = 2

- Solution #1 found. 1 Solutions, Resolution 0.021s, 10 Nodes (471.6 n/s), 8 Backtracks, 5 Fails, 0 Restarts

Rule\_2\_LB = 2 Rule\_2\_UB = 3 Rule\_2\_LB = 0 Rule\_2\_UB = 20 Rule\_3\_LB = 1 Rule\_3\_UB = 2 Rule\_3\_LB = 10 Rule\_3\_UB = 20 Overlaps\_0\_0 = 0 Overlaps\_0\_1 = 0 Overlaps\_0\_2 = 0 Overlaps\_0\_3 = 0 Overlaps\_1\_0 = 0 Overlaps\_1\_1 = 0 Overlaps\_1\_2 = 0 Overlaps\_1\_3 = 0 Overlaps\_2\_0 = 0 Overlaps\_2\_1 = 0 Overlaps\_2\_2 = 0 Overlaps\_2\_3 = 0 Overlaps\_3\_0 = 0 Overlaps\_3\_1 = 0 Overlaps\_3\_2 = 0 Overlaps\_3\_3 = 0 TMP\_0 = 0 not(TMP\_0) = 1 TMP\_1 = 1 not(TMP\_1) = 0 TMP\_2 = 1 not(TMP\_2) = 0 TMP\_3 = 1 not(TMP\_3) = 0 TMP\_4 = 3 TMP\_5 = 0 not(TMP\_5) = 1 TMP\_6 = 0 not(TMP\_6) = 1 TMP\_7 = 0 TMP\_8 = 1 not(TMP\_8) = 0 TMP\_9 = 1 not(TMP\_9) = 0 TMP\_10 = 2 TMP\_11 = 0 not(TMP\_11) = 1 TMP\_12 = 0 not(TMP\_12) = 1 TMP\_13 = 1 not(TMP\_13) = 0 TMP\_14 = 1 not(TMP\_14) = 0 TMP\_15 = 1 not(TMP\_15) = 0 TMP\_16 = 2 TMP\_17 = 0 not(TMP\_17) = 1 TMP\_18 = 1 not(TMP\_18) = 0 TMP\_19 = 1 not(TMP\_19) = 0 TMP\_20 = 1 not(TMP\_20) = 0 TMP\_21 = 3 TMP\_22 = 0 not(TMP\_22) = 1 TMP\_23 = 0 not(TMP\_23) = 1 TMP\_24 = 0 TMP\_25 = 1 not(TMP\_25) = 0 TMP\_26 = 1 not(TMP\_26) = 0 TMP\_27 = 2 TMP\_28 = 0 not(TMP\_28) = 1 TMP\_29 = 0 not(TMP\_29) = 1 TMP\_30 = 1 not(TMP\_30) = 0 TMP\_31 = 1 not(TMP\_31) = 0 TMP\_32 = 1 not(TMP\_32) = 0 TMP\_33 = 2 TMP\_34 = 0 not(TMP\_34) = 1 TMP\_35 = 1 not(TMP\_35) = 0 TMP\_36 = 1 not(TMP\_36) = 0 TMP\_37 = 1 not(TMP\_37) = 0 TMP\_38 = 3 TMP\_39 = 0 not(TMP\_39) = 1 TMP\_40 = 0 not(TMP\_40) = 1 TMP\_41 = 0 TMP\_42 = 1 not(TMP\_42) = 0 TMP\_43 = 1 not(TMP\_43) = 0 TMP\_44 = 2 TMP\_45 = 0 not(TMP\_45) = 1 TMP\_46 = 0 not(TMP\_46) = 1 TMP\_47 = 1 not(TMP\_47) = 0 TMP\_48 = 1 not(TMP\_48) = 0 TMP\_49 = 1 not(TMP\_49) = 0 TMP\_50 = 2 TMP\_51 = 0 not(TMP\_51) = 1 TMP\_52 = 1 not(TMP\_52) = 0 TMP\_53 = 1 not(TMP\_53) = 0 TMP\_54 = 1 not(TMP\_54) = 0 TMP\_55 = 3 TMP\_56 = 0 not(TMP\_56) = 1 TMP\_57 = 0 not(TMP\_57) = 1 TMP\_58 = 0 TMP\_59 = 1 not(TMP\_59) = 0 TMP\_60 = 1 not(TMP\_60) = 0 TMP\_61 = 2 TMP\_62 = 0 not(TMP\_62) = 1 TMP\_63 = 0 not(TMP\_63) = 1 TMP\_64 = 1 not(TMP\_64) = 0 TMP\_65 = 1 not(TMP\_65) = 0 TMP\_66 = 1 not(TMP\_66) = 0 TMP\_67 = 2 TMP\_68 = 1 not(TMP\_68) = 0 TMP\_69 = 1 not(TMP\_69) = 0 TMP\_70 = 0 not(TMP\_70) = 1 TMP\_71 = 1 not(TMP\_71) = 0 TMP\_72 = 3 TMP\_73 = 0 not(TMP\_73) = 1 TMP\_74 = 0 not(TMP\_74) = 1 TMP\_75 = 0 TMP\_76 = 1 not(TMP\_76) = 0 TMP\_77 = 1 not(TMP\_77) = 0 TMP\_78 = 2 TMP\_79 = 0 not(TMP\_79) = 1 TMP\_80 = 0 not(TMP\_80) = 1 TMP\_81 = 1 not(TMP\_81) = 0 TMP\_82 = 1 not(TMP\_82) = 0 TMP\_83 = 1 not(TMP\_83) = 0 TMP\_84 = 2 TMP\_85 = 1 not(TMP\_85) = 0 TMP\_86 = 0 not(TMP\_86) = 1 TMP\_87 = 1 not(TMP\_87) = 0 TMP\_88 = 1 not(TMP\_88) = 0 TMP\_89 = 3 TMP\_90 = 0 not(TMP\_90) = 1 TMP\_91 = 0 not(TMP\_91) = 1 TMP\_92 = 0 TMP\_93 = 1 not(TMP\_93) = 0 TMP\_94 = 1 not(TMP\_94) = 0 TMP\_95 = 2 TMP\_96 = 0 not(TMP\_96) = 1 TMP\_97 = 0 not(TMP\_97) = 1 TMP\_98 = 1 not(TMP\_98) = 0 TMP\_99 = 1 not(TMP\_99) = 0 TMP\_100 = 1 not(TMP\_100) = 0 TMP\_101 = 2 Area\_0 = 20 Distance\_0\_Rule\_0 = 1 Distance\_1\_Rule\_0 = 20 Area\_1 = 10 Distance\_0\_Rule\_1 = 1 Distance\_1\_Rule\_1 = 10 Area\_2 = 20 -(Rule\_2\_LB) = -2 Distance\_0\_Rule\_2 = 1 -(Rule\_2\_LB) = 0 Distance\_1\_Rule\_2 = 20 Area\_3 = 10 -(Rule\_3\_LB) = -1 Distance\_0\_Rule\_3 = 1 -(Rule\_3\_LB) = -10 Distance\_1\_Rule\_3 = 10 TMP\_102 = 60 .

- Solution #2 found. 2 Solutions, Resolution 0.026s, 11 Nodes (426.6 n/s), 9 Backtracks, 5 Fails, 0 Restarts

Rule\_2\_LB = 2 Rule\_2\_UB = 3 Rule\_2\_LB = 0 Rule\_2\_UB = 20 Rule\_3\_LB = 1 Rule\_3\_UB = 2 Rule\_3\_LB = 10 Rule\_3\_UB = 20 Overlaps\_0\_0 = 0 Overlaps\_0\_1 = 0 Overlaps\_0\_2 = 0 Overlaps\_0\_3 = 0 Overlaps\_1\_0 = 1 Overlaps\_1\_1 = 0 Overlaps\_1\_2 = 0 Overlaps\_1\_3 = 0 Overlaps\_2\_0 = 0 Overlaps\_2\_1 = 0 Overlaps\_2\_2 = 0 Overlaps\_2\_3 = 0 Overlaps\_3\_0 = 0 Overlaps\_3\_1 = 0 Overlaps\_3\_2 = 0 Overlaps\_3\_3 = 0 TMP\_0 = 0 not(TMP\_0) = 1 TMP\_1 = 1 not(TMP\_1) = 0 TMP\_2 = 1 not(TMP\_2) = 0 TMP\_3 = 1 not(TMP\_3) = 0 TMP\_4 = 3 TMP\_5 = 0 not(TMP\_5) = 1 TMP\_6 = 0 not(TMP\_6) = 1 TMP\_7 = 0 TMP\_8 = 1 not(TMP\_8) = 0 TMP\_9 = 1 not(TMP\_9) = 0 TMP\_10 = 2 TMP\_11 = 0 not(TMP\_11) = 1 TMP\_12 = 0 not(TMP\_12) = 1 TMP\_13 = 1 not(TMP\_13) = 0 TMP\_14 = 1 not(TMP\_14) = 0 TMP\_15 = 1 not(TMP\_15) = 0 TMP\_16 = 2 TMP\_17 = 0 not(TMP\_17) = 1 TMP\_18 = 1 not(TMP\_18) = 0 TMP\_19 = 1 not(TMP\_19) = 0 TMP\_20 = 1 not(TMP\_20) = 0 TMP\_21 = 3 TMP\_22 = 0 not(TMP\_22) = 1 TMP\_23 = 0 not(TMP\_23) = 1 TMP\_24 = 0 TMP\_25 = 1 not(TMP\_25) = 0 TMP\_26 = 1 not(TMP\_26) = 0 TMP\_27 = 2 TMP\_28 = 0 not(TMP\_28) = 1 TMP\_29 = 0 not(TMP\_29) = 1 TMP\_30 = 1 not(TMP\_30) = 0 TMP\_31 = 1 not(TMP\_31) = 0 TMP\_32 = 1 not(TMP\_32) = 0 TMP\_33 = 2 TMP\_34 = 0 not(TMP\_34) = 1 TMP\_35 = 1 not(TMP\_35) = 0 TMP\_36 = 1 not(TMP\_36) = 0 TMP\_37 = 1 not(TMP\_37) = 0 TMP\_38 = 3 TMP\_39 = 0 not(TMP\_39) = 1 TMP\_40 = 0 not(TMP\_40) = 1 TMP\_41 = 0 TMP\_42 = 1 not(TMP\_42) = 0 TMP\_43 = 1 not(TMP\_43) = 0 TMP\_44 = 2 TMP\_45 = 0 not(TMP\_45) = 1 TMP\_46 = 0 not(TMP\_46) = 1 TMP\_47 = 1 not(TMP\_47) = 0 TMP\_48 = 1 not(TMP\_48) = 0 TMP\_49 = 1 not(TMP\_49) = 0 TMP\_50 = 2 TMP\_51 = 0 not(TMP\_51) = 1 TMP\_52 = 1 not(TMP\_52) = 0 TMP\_53 = 1 not(TMP\_53) = 0 TMP\_54 = 1 not(TMP\_54) = 0 TMP\_55 = 3 TMP\_56 = 0 not(TMP\_56) = 1 TMP\_57 = 0 not(TMP\_57) = 1 TMP\_58 = 0 TMP\_59 = 1 not(TMP\_59) = 0 TMP\_60 = 1 not(TMP\_60) = 0 TMP\_61 = 2 TMP\_62 = 0 not(TMP\_62) = 1 TMP\_63 = 0 not(TMP\_63) = 1 TMP\_64 = 1 not(TMP\_64) = 0 TMP\_65 = 1 not(TMP\_65) = 0 TMP\_66 = 1 not(TMP\_66) = 0 TMP\_67 = 2 TMP\_68 = 1 not(TMP\_68) = 0 TMP\_69 = 1 not(TMP\_69) = 0 TMP\_70 = 0 not(TMP\_70) = 1 TMP\_71 = 1 not(TMP\_71) = 0 TMP\_72 = 3 TMP\_73 = 0 not(TMP\_73) = 1 TMP\_74 = 0 not(TMP\_74) = 1 TMP\_75 = 0 TMP\_76 = 1 not(TMP\_76) = 0 TMP\_77 = 1 not(TMP\_77) = 0 TMP\_78 = 2 TMP\_79 = 0 not(TMP\_79) = 1 TMP\_80 = 0 not(TMP\_80) = 1 TMP\_81 = 1 not(TMP\_81) = 0 TMP\_82 = 1 not(TMP\_82) = 0 TMP\_83 = 1 not(TMP\_83) = 0 TMP\_84 = 2 TMP\_85 = 1 not(TMP\_85) = 0 TMP\_86 = 0 not(TMP\_86) = 1 TMP\_87 = 1 not(TMP\_87) = 0 TMP\_88 = 1 not(TMP\_88) = 0 TMP\_89 = 3 TMP\_90 = 0 not(TMP\_90) = 1 TMP\_91 = 0 not(TMP\_91) = 1 TMP\_92 = 0 TMP\_93 = 1 not(TMP\_93) = 0 TMP\_94 = 1 not(TMP\_94) = 0 TMP\_95 = 2 TMP\_96 = 0 not(TMP\_96) = 1 TMP\_97 = 0 not(TMP\_97) = 1 TMP\_98 = 1 not(TMP\_98) = 0 TMP\_99 = 1 not(TMP\_99) = 0 TMP\_100 = 1 not(TMP\_100) = 0 TMP\_101 = 2 Area\_0 = 20 Distance\_0\_Rule\_0 = 1 Distance\_1\_Rule\_0 = 20 Area\_1 = 10 Distance\_0\_Rule\_1 = 1 Distance\_1\_Rule\_1 = 10 Area\_2 = 20 -(Rule\_2\_LB) = -2 Distance\_0\_Rule\_2 = 1 -(Rule\_2\_LB) = 0 Distance\_1\_Rule\_2 = 20 Area\_3 = 10 -(Rule\_3\_LB) = -1 Distance\_0\_Rule\_3 = 1 -(Rule\_3\_LB) = -10 Distance\_1\_Rule\_3 = 10 TMP\_102 = 60 .

- Solution #3 found. 3 Solutions, Resolution 0.029s, 15 Nodes (525.3 n/s), 12 Backtracks, 5 Fails, 0 Restarts

Rule\_2\_LB = 2 Rule\_2\_UB = 3 Rule\_2\_LB = 0 Rule\_2\_UB = 20 Rule\_3\_LB = 1 Rule\_3\_UB = 2 Rule\_3\_LB = 10 Rule\_3\_UB = 20 Overlaps\_0\_0 = 0 Overlaps\_0\_1 = 1 Overlaps\_0\_2 = 0 Overlaps\_0\_3 = 0 Overlaps\_1\_0 = 0 Overlaps\_1\_1 = 0 Overlaps\_1\_2 = 0 Overlaps\_1\_3 = 0 Overlaps\_2\_0 = 0 Overlaps\_2\_1 = 0 Overlaps\_2\_2 = 0 Overlaps\_2\_3 = 0 Overlaps\_3\_0 = 0 Overlaps\_3\_1 = 0 Overlaps\_3\_2 = 0 Overlaps\_3\_3 = 0 TMP\_0 = 0 not(TMP\_0) = 1 TMP\_1 = 1 not(TMP\_1) = 0 TMP\_2 = 1 not(TMP\_2) = 0 TMP\_3 = 1 not(TMP\_3) = 0 TMP\_4 = 3 TMP\_5 = 0 not(TMP\_5) = 1 TMP\_6 = 0 not(TMP\_6) = 1 TMP\_7 = 0 TMP\_8 = 1 not(TMP\_8) = 0 TMP\_9 = 1 not(TMP\_9) = 0 TMP\_10 = 2 TMP\_11 = 0 not(TMP\_11) = 1 TMP\_12 = 0 not(TMP\_12) = 1 TMP\_13 = 1 not(TMP\_13) = 0 TMP\_14 = 1 not(TMP\_14) = 0 TMP\_15 = 1 not(TMP\_15) = 0 TMP\_16 = 2 TMP\_17 = 0 not(TMP\_17) = 1 TMP\_18 = 1 not(TMP\_18) = 0 TMP\_19 = 1 not(TMP\_19) = 0 TMP\_20 = 1 not(TMP\_20) = 0 TMP\_21 = 3 TMP\_22 = 0 not(TMP\_22) = 1 TMP\_23 = 0 not(TMP\_23) = 1 TMP\_24 = 0 TMP\_25 = 1 not(TMP\_25) = 0 TMP\_26 = 1 not(TMP\_26) = 0 TMP\_27 = 2 TMP\_28 = 0 not(TMP\_28) = 1 TMP\_29 = 0 not(TMP\_29) = 1 TMP\_30 = 1 not(TMP\_30) = 0 TMP\_31 = 1 not(TMP\_31) = 0 TMP\_32 = 1 not(TMP\_32) = 0 TMP\_33 = 2 TMP\_34 = 0 not(TMP\_34) = 1 TMP\_35 = 1 not(TMP\_35) = 0 TMP\_36 = 1 not(TMP\_36) = 0 TMP\_37 = 1 not(TMP\_37) = 0 TMP\_38 = 3 TMP\_39 = 0 not(TMP\_39) = 1 TMP\_40 = 0 not(TMP\_40) = 1 TMP\_41 = 0 TMP\_42 = 1 not(TMP\_42) = 0 TMP\_43 = 1 not(TMP\_43) = 0 TMP\_44 = 2 TMP\_45 = 0 not(TMP\_45) = 1 TMP\_46 = 0 not(TMP\_46) = 1 TMP\_47 = 1 not(TMP\_47) = 0 TMP\_48 = 1 not(TMP\_48) = 0 TMP\_49 = 1 not(TMP\_49) = 0 TMP\_50 = 2 TMP\_51 = 0 not(TMP\_51) = 1 TMP\_52 = 1 not(TMP\_52) = 0 TMP\_53 = 1 not(TMP\_53) = 0 TMP\_54 = 1 not(TMP\_54) = 0 TMP\_55 = 3 TMP\_56 = 0 not(TMP\_56) = 1 TMP\_57 = 0 not(TMP\_57) = 1 TMP\_58 = 0 TMP\_59 = 1 not(TMP\_59) = 0 TMP\_60 = 1 not(TMP\_60) = 0 TMP\_61 = 2 TMP\_62 = 0 not(TMP\_62) = 1 TMP\_63 = 0 not(TMP\_63) = 1 TMP\_64 = 1 not(TMP\_64) = 0 TMP\_65 = 1 not(TMP\_65) = 0 TMP\_66 = 1 not(TMP\_66) = 0 TMP\_67 = 2 TMP\_68 = 1 not(TMP\_68) = 0 TMP\_69 = 1 not(TMP\_69) = 0 TMP\_70 = 0 not(TMP\_70) = 1 TMP\_71 = 1 not(TMP\_71) = 0 TMP\_72 = 3 TMP\_73 = 0 not(TMP\_73) = 1 TMP\_74 = 0 not(TMP\_74) = 1 TMP\_75 = 0 TMP\_76 = 1 not(TMP\_76) = 0 TMP\_77 = 1 not(TMP\_77) = 0 TMP\_78 = 2 TMP\_79 = 0 not(TMP\_79) = 1 TMP\_80 = 0 not(TMP\_80) = 1 TMP\_81 = 1 not(TMP\_81) = 0 TMP\_82 = 1 not(TMP\_82) = 0 TMP\_83 = 1 not(TMP\_83) = 0 TMP\_84 = 2 TMP\_85 = 1 not(TMP\_85) = 0 TMP\_86 = 0 not(TMP\_86) = 1 TMP\_87 = 1 not(TMP\_87) = 0 TMP\_88 = 1 not(TMP\_88) = 0 TMP\_89 = 3 TMP\_90 = 0 not(TMP\_90) = 1 TMP\_91 = 0 not(TMP\_91) = 1 TMP\_92 = 0 TMP\_93 = 1 not(TMP\_93) = 0 TMP\_94 = 1 not(TMP\_94) = 0 TMP\_95 = 2 TMP\_96 = 0 not(TMP\_96) = 1 TMP\_97 = 0 not(TMP\_97) = 1 TMP\_98 = 1 not(TMP\_98) = 0 TMP\_99 = 1 not(TMP\_99) = 0 TMP\_100 = 1 not(TMP\_100) = 0 TMP\_101 = 2 Area\_0 = 20 Distance\_0\_Rule\_0 = 1 Distance\_1\_Rule\_0 = 20 Area\_1 = 10 Distance\_0\_Rule\_1 = 1 Distance\_1\_Rule\_1 = 10 Area\_2 = 20 -(Rule\_2\_LB) = -2 Distance\_0\_Rule\_2 = 1 -(Rule\_2\_LB) = 0 Distance\_1\_Rule\_2 = 20 Area\_3 = 10 -(Rule\_3\_LB) = -1 Distance\_0\_Rule\_3 = 1 -(Rule\_3\_LB) = -10 Distance\_1\_Rule\_3 = 10 TMP\_102 = 60 .

- Solution #4 found. 4 Solutions, Resolution 0.030s, 16 Nodes (529.0 n/s), 13 Backtracks, 5 Fails, 0 Restarts

Rule\_2\_LB = 2 Rule\_2\_UB = 3 Rule\_2\_LB = 0 Rule\_2\_UB = 20 Rule\_3\_LB = 1 Rule\_3\_UB = 2 Rule\_3\_LB = 10 Rule\_3\_UB = 20 Overlaps\_0\_0 = 0 Overlaps\_0\_1 = 1 Overlaps\_0\_2 = 0 Overlaps\_0\_3 = 0 Overlaps\_1\_0 = 1 Overlaps\_1\_1 = 0 Overlaps\_1\_2 = 0 Overlaps\_1\_3 = 0 Overlaps\_2\_0 = 0 Overlaps\_2\_1 = 0 Overlaps\_2\_2 = 0 Overlaps\_2\_3 = 0 Overlaps\_3\_0 = 0 Overlaps\_3\_1 = 0 Overlaps\_3\_2 = 0 Overlaps\_3\_3 = 0 TMP\_0 = 0 not(TMP\_0) = 1 TMP\_1 = 1 not(TMP\_1) = 0 TMP\_2 = 1 not(TMP\_2) = 0 TMP\_3 = 1 not(TMP\_3) = 0 TMP\_4 = 3 TMP\_5 = 0 not(TMP\_5) = 1 TMP\_6 = 0 not(TMP\_6) = 1 TMP\_7 = 0 TMP\_8 = 1 not(TMP\_8) = 0 TMP\_9 = 1 not(TMP\_9) = 0 TMP\_10 = 2 TMP\_11 = 0 not(TMP\_11) = 1 TMP\_12 = 0 not(TMP\_12) = 1 TMP\_13 = 1 not(TMP\_13) = 0 TMP\_14 = 1 not(TMP\_14) = 0 TMP\_15 = 1 not(TMP\_15) = 0 TMP\_16 = 2 TMP\_17 = 0 not(TMP\_17) = 1 TMP\_18 = 1 not(TMP\_18) = 0 TMP\_19 = 1 not(TMP\_19) = 0 TMP\_20 = 1 not(TMP\_20) = 0 TMP\_21 = 3 TMP\_22 = 0 not(TMP\_22) = 1 TMP\_23 = 0 not(TMP\_23) = 1 TMP\_24 = 0 TMP\_25 = 1 not(TMP\_25) = 0 TMP\_26 = 1 not(TMP\_26) = 0 TMP\_27 = 2 TMP\_28 = 0 not(TMP\_28) = 1 TMP\_29 = 0 not(TMP\_29) = 1 TMP\_30 = 1 not(TMP\_30) = 0 TMP\_31 = 1 not(TMP\_31) = 0 TMP\_32 = 1 not(TMP\_32) = 0 TMP\_33 = 2 TMP\_34 = 0 not(TMP\_34) = 1 TMP\_35 = 1 not(TMP\_35) = 0 TMP\_36 = 1 not(TMP\_36) = 0 TMP\_37 = 1 not(TMP\_37) = 0 TMP\_38 = 3 TMP\_39 = 0 not(TMP\_39) = 1 TMP\_40 = 0 not(TMP\_40) = 1 TMP\_41 = 0 TMP\_42 = 1 not(TMP\_42) = 0 TMP\_43 = 1 not(TMP\_43) = 0 TMP\_44 = 2 TMP\_45 = 0 not(TMP\_45) = 1 TMP\_46 = 0 not(TMP\_46) = 1 TMP\_47 = 1 not(TMP\_47) = 0 TMP\_48 = 1 not(TMP\_48) = 0 TMP\_49 = 1 not(TMP\_49) = 0 TMP\_50 = 2 TMP\_51 = 0 not(TMP\_51) = 1 TMP\_52 = 1 not(TMP\_52) = 0 TMP\_53 = 1 not(TMP\_53) = 0 TMP\_54 = 1 not(TMP\_54) = 0 TMP\_55 = 3 TMP\_56 = 0 not(TMP\_56) = 1 TMP\_57 = 0 not(TMP\_57) = 1 TMP\_58 = 0 TMP\_59 = 1 not(TMP\_59) = 0 TMP\_60 = 1 not(TMP\_60) = 0 TMP\_61 = 2 TMP\_62 = 0 not(TMP\_62) = 1 TMP\_63 = 0 not(TMP\_63) = 1 TMP\_64 = 1 not(TMP\_64) = 0 TMP\_65 = 1 not(TMP\_65) = 0 TMP\_66 = 1 not(TMP\_66) = 0 TMP\_67 = 2 TMP\_68 = 1 not(TMP\_68) = 0 TMP\_69 = 1 not(TMP\_69) = 0 TMP\_70 = 0 not(TMP\_70) = 1 TMP\_71 = 1 not(TMP\_71) = 0 TMP\_72 = 3 TMP\_73 = 0 not(TMP\_73) = 1 TMP\_74 = 0 not(TMP\_74) = 1 TMP\_75 = 0 TMP\_76 = 1 not(TMP\_76) = 0 TMP\_77 = 1 not(TMP\_77) = 0 TMP\_78 = 2 TMP\_79 = 0 not(TMP\_79) = 1 TMP\_80 = 0 not(TMP\_80) = 1 TMP\_81 = 1 not(TMP\_81) = 0 TMP\_82 = 1 not(TMP\_82) = 0 TMP\_83 = 1 not(TMP\_83) = 0 TMP\_84 = 2 TMP\_85 = 1 not(TMP\_85) = 0 TMP\_86 = 0 not(TMP\_86) = 1 TMP\_87 = 1 not(TMP\_87) = 0 TMP\_88 = 1 not(TMP\_88) = 0 TMP\_89 = 3 TMP\_90 = 0 not(TMP\_90) = 1 TMP\_91 = 0 not(TMP\_91) = 1 TMP\_92 = 0 TMP\_93 = 1 not(TMP\_93) = 0 TMP\_94 = 1 not(TMP\_94) = 0 TMP\_95 = 2 TMP\_96 = 0 not(TMP\_96) = 1 TMP\_97 = 0 not(TMP\_97) = 1 TMP\_98 = 1 not(TMP\_98) = 0 TMP\_99 = 1 not(TMP\_99) = 0 TMP\_100 = 1 not(TMP\_100) = 0 TMP\_101 = 2 Area\_0 = 20 Distance\_0\_Rule\_0 = 1 Distance\_1\_Rule\_0 = 20 Area\_1 = 10 Distance\_0\_Rule\_1 = 1 Distance\_1\_Rule\_1 = 10 Area\_2 = 20 -(Rule\_2\_LB) = -2 Distance\_0\_Rule\_2 = 1 -(Rule\_2\_LB) = 0 Distance\_1\_Rule\_2 = 20 Area\_3 = 10 -(Rule\_3\_LB) = -1 Distance\_0\_Rule\_3 = 1 -(Rule\_3\_LB) = -10 Distance\_1\_Rule\_3 = 10 TMP\_102 = 60 .

- Solution #5 found. 5 Solutions, Resolution 0.034s, 21 Nodes (622.1 n/s), 20 Backtracks, 7 Fails, 0 Restarts

Rule\_2\_LB = 1 Rule\_2\_UB = 2 Rule\_2\_LB = 10 Rule\_2\_UB = 20 Rule\_3\_LB = 2 Rule\_3\_UB = 3 Rule\_3\_LB = 0 Rule\_3\_UB = 20 Overlaps\_0\_0 = 0 Overlaps\_0\_1 = 0 Overlaps\_0\_2 = 0 Overlaps\_0\_3 = 0 Overlaps\_1\_0 = 0 Overlaps\_1\_1 = 0 Overlaps\_1\_2 = 0 Overlaps\_1\_3 = 0 Overlaps\_2\_0 = 0 Overlaps\_2\_1 = 0 Overlaps\_2\_2 = 0 Overlaps\_2\_3 = 0 Overlaps\_3\_0 = 0 Overlaps\_3\_1 = 0 Overlaps\_3\_2 = 0 Overlaps\_3\_3 = 0 TMP\_0 = 0 not(TMP\_0) = 1 TMP\_1 = 1 not(TMP\_1) = 0 TMP\_2 = 1 not(TMP\_2) = 0 TMP\_3 = 1 not(TMP\_3) = 0 TMP\_4 = 3 TMP\_5 = 0 not(TMP\_5) = 1 TMP\_6 = 0 not(TMP\_6) = 1 TMP\_7 = 0 TMP\_8 = 1 not(TMP\_8) = 0 TMP\_9 = 1 not(TMP\_9) = 0 TMP\_10 = 2 TMP\_11 = 0 not(TMP\_11) = 1 TMP\_12 = 0 not(TMP\_12) = 1 TMP\_13 = 1 not(TMP\_13) = 0 TMP\_14 = 1 not(TMP\_14) = 0 TMP\_15 = 1 not(TMP\_15) = 0 TMP\_16 = 2 TMP\_17 = 1 not(TMP\_17) = 0 TMP\_18 = 1 not(TMP\_18) = 0 TMP\_19 = 0 not(TMP\_19) = 1 TMP\_20 = 1 not(TMP\_20) = 0 TMP\_21 = 3 TMP\_22 = 0 not(TMP\_22) = 1 TMP\_23 = 0 not(TMP\_23) = 1 TMP\_24 = 0 TMP\_25 = 1 not(TMP\_25) = 0 TMP\_26 = 1 not(TMP\_26) = 0 TMP\_27 = 2 TMP\_28 = 0 not(TMP\_28) = 1 TMP\_29 = 0 not(TMP\_29) = 1 TMP\_30 = 1 not(TMP\_30) = 0 TMP\_31 = 1 not(TMP\_31) = 0 TMP\_32 = 1 not(TMP\_32) = 0 TMP\_33 = 2 TMP\_34 = 1 not(TMP\_34) = 0 TMP\_35 = 0 not(TMP\_35) = 1 TMP\_36 = 1 not(TMP\_36) = 0 TMP\_37 = 1 not(TMP\_37) = 0 TMP\_38 = 3 TMP\_39 = 0 not(TMP\_39) = 1 TMP\_40 = 0 not(TMP\_40) = 1 TMP\_41 = 0 TMP\_42 = 1 not(TMP\_42) = 0 TMP\_43 = 1 not(TMP\_43) = 0 TMP\_44 = 2 TMP\_45 = 0 not(TMP\_45) = 1 TMP\_46 = 0 not(TMP\_46) = 1 TMP\_47 = 1 not(TMP\_47) = 0 TMP\_48 = 1 not(TMP\_48) = 0 TMP\_49 = 1 not(TMP\_49) = 0 TMP\_50 = 2 TMP\_51 = 0 not(TMP\_51) = 1 TMP\_52 = 1 not(TMP\_52) = 0 TMP\_53 = 1 not(TMP\_53) = 0 TMP\_54 = 1 not(TMP\_54) = 0 TMP\_55 = 3 TMP\_56 = 0 not(TMP\_56) = 1 TMP\_57 = 0 not(TMP\_57) = 1 TMP\_58 = 0 TMP\_59 = 1 not(TMP\_59) = 0 TMP\_60 = 1 not(TMP\_60) = 0 TMP\_61 = 2 TMP\_62 = 0 not(TMP\_62) = 1 TMP\_63 = 0 not(TMP\_63) = 1 TMP\_64 = 1 not(TMP\_64) = 0 TMP\_65 = 1 not(TMP\_65) = 0 TMP\_66 = 1 not(TMP\_66) = 0 TMP\_67 = 2 TMP\_68 = 0 not(TMP\_68) = 1 TMP\_69 = 1 not(TMP\_69) = 0 TMP\_70 = 1 not(TMP\_70) = 0 TMP\_71 = 1 not(TMP\_71) = 0 TMP\_72 = 3 TMP\_73 = 0 not(TMP\_73) = 1 TMP\_74 = 0 not(TMP\_74) = 1 TMP\_75 = 0 TMP\_76 = 1 not(TMP\_76) = 0 TMP\_77 = 1 not(TMP\_77) = 0 TMP\_78 = 2 TMP\_79 = 0 not(TMP\_79) = 1 TMP\_80 = 0 not(TMP\_80) = 1 TMP\_81 = 1 not(TMP\_81) = 0 TMP\_82 = 1 not(TMP\_82) = 0 TMP\_83 = 1 not(TMP\_83) = 0 TMP\_84 = 2 TMP\_85 = 0 not(TMP\_85) = 1 TMP\_86 = 1 not(TMP\_86) = 0 TMP\_87 = 1 not(TMP\_87) = 0 TMP\_88 = 1 not(TMP\_88) = 0 TMP\_89 = 3 TMP\_90 = 0 not(TMP\_90) = 1 TMP\_91 = 0 not(TMP\_91) = 1 TMP\_92 = 0 TMP\_93 = 1 not(TMP\_93) = 0 TMP\_94 = 1 not(TMP\_94) = 0 TMP\_95 = 2 TMP\_96 = 0 not(TMP\_96) = 1 TMP\_97 = 0 not(TMP\_97) = 1 TMP\_98 = 1 not(TMP\_98) = 0 TMP\_99 = 1 not(TMP\_99) = 0 TMP\_100 = 1 not(TMP\_100) = 0 TMP\_101 = 2 Area\_0 = 20 Distance\_0\_Rule\_0 = 1 Distance\_1\_Rule\_0 = 20 Area\_1 = 10 Distance\_0\_Rule\_1 = 1 Distance\_1\_Rule\_1 = 10 Area\_2 = 10 -(Rule\_2\_LB) = -1 Distance\_0\_Rule\_2 = 1 -(Rule\_2\_LB) = -10 Distance\_1\_Rule\_2 = 10 Area\_3 = 20 -(Rule\_3\_LB) = -2 Distance\_0\_Rule\_3 = 1 -(Rule\_3\_LB) = 0 Distance\_1\_Rule\_3 = 20 TMP\_102 = 60 .

- Solution #6 found. 6 Solutions, Resolution 0.035s, 22 Nodes (621.3 n/s), 21 Backtracks, 7 Fails, 0 Restarts

Rule\_2\_LB = 1 Rule\_2\_UB = 2 Rule\_2\_LB = 10 Rule\_2\_UB = 20 Rule\_3\_LB = 2 Rule\_3\_UB = 3 Rule\_3\_LB = 0 Rule\_3\_UB = 20 Overlaps\_0\_0 = 0 Overlaps\_0\_1 = 1 Overlaps\_0\_2 = 0 Overlaps\_0\_3 = 0 Overlaps\_1\_0 = 0 Overlaps\_1\_1 = 0 Overlaps\_1\_2 = 0 Overlaps\_1\_3 = 0 Overlaps\_2\_0 = 0 Overlaps\_2\_1 = 0 Overlaps\_2\_2 = 0 Overlaps\_2\_3 = 0 Overlaps\_3\_0 = 0 Overlaps\_3\_1 = 0 Overlaps\_3\_2 = 0 Overlaps\_3\_3 = 0 TMP\_0 = 0 not(TMP\_0) = 1 TMP\_1 = 1 not(TMP\_1) = 0 TMP\_2 = 1 not(TMP\_2) = 0 TMP\_3 = 1 not(TMP\_3) = 0 TMP\_4 = 3 TMP\_5 = 0 not(TMP\_5) = 1 TMP\_6 = 0 not(TMP\_6) = 1 TMP\_7 = 0 TMP\_8 = 1 not(TMP\_8) = 0 TMP\_9 = 1 not(TMP\_9) = 0 TMP\_10 = 2 TMP\_11 = 0 not(TMP\_11) = 1 TMP\_12 = 0 not(TMP\_12) = 1 TMP\_13 = 1 not(TMP\_13) = 0 TMP\_14 = 1 not(TMP\_14) = 0 TMP\_15 = 1 not(TMP\_15) = 0 TMP\_16 = 2 TMP\_17 = 1 not(TMP\_17) = 0 TMP\_18 = 1 not(TMP\_18) = 0 TMP\_19 = 0 not(TMP\_19) = 1 TMP\_20 = 1 not(TMP\_20) = 0 TMP\_21 = 3 TMP\_22 = 0 not(TMP\_22) = 1 TMP\_23 = 0 not(TMP\_23) = 1 TMP\_24 = 0 TMP\_25 = 1 not(TMP\_25) = 0 TMP\_26 = 1 not(TMP\_26) = 0 TMP\_27 = 2 TMP\_28 = 0 not(TMP\_28) = 1 TMP\_29 = 0 not(TMP\_29) = 1 TMP\_30 = 1 not(TMP\_30) = 0 TMP\_31 = 1 not(TMP\_31) = 0 TMP\_32 = 1 not(TMP\_32) = 0 TMP\_33 = 2 TMP\_34 = 1 not(TMP\_34) = 0 TMP\_35 = 0 not(TMP\_35) = 1 TMP\_36 = 1 not(TMP\_36) = 0 TMP\_37 = 1 not(TMP\_37) = 0 TMP\_38 = 3 TMP\_39 = 0 not(TMP\_39) = 1 TMP\_40 = 0 not(TMP\_40) = 1 TMP\_41 = 0 TMP\_42 = 1 not(TMP\_42) = 0 TMP\_43 = 1 not(TMP\_43) = 0 TMP\_44 = 2 TMP\_45 = 0 not(TMP\_45) = 1 TMP\_46 = 0 not(TMP\_46) = 1 TMP\_47 = 1 not(TMP\_47) = 0 TMP\_48 = 1 not(TMP\_48) = 0 TMP\_49 = 1 not(TMP\_49) = 0 TMP\_50 = 2 TMP\_51 = 0 not(TMP\_51) = 1 TMP\_52 = 1 not(TMP\_52) = 0 TMP\_53 = 1 not(TMP\_53) = 0 TMP\_54 = 1 not(TMP\_54) = 0 TMP\_55 = 3 TMP\_56 = 0 not(TMP\_56) = 1 TMP\_57 = 0 not(TMP\_57) = 1 TMP\_58 = 0 TMP\_59 = 1 not(TMP\_59) = 0 TMP\_60 = 1 not(TMP\_60) = 0 TMP\_61 = 2 TMP\_62 = 0 not(TMP\_62) = 1 TMP\_63 = 0 not(TMP\_63) = 1 TMP\_64 = 1 not(TMP\_64) = 0 TMP\_65 = 1 not(TMP\_65) = 0 TMP\_66 = 1 not(TMP\_66) = 0 TMP\_67 = 2 TMP\_68 = 0 not(TMP\_68) = 1 TMP\_69 = 1 not(TMP\_69) = 0 TMP\_70 = 1 not(TMP\_70) = 0 TMP\_71 = 1 not(TMP\_71) = 0 TMP\_72 = 3 TMP\_73 = 0 not(TMP\_73) = 1 TMP\_74 = 0 not(TMP\_74) = 1 TMP\_75 = 0 TMP\_76 = 1 not(TMP\_76) = 0 TMP\_77 = 1 not(TMP\_77) = 0 TMP\_78 = 2 TMP\_79 = 0 not(TMP\_79) = 1 TMP\_80 = 0 not(TMP\_80) = 1 TMP\_81 = 1 not(TMP\_81) = 0 TMP\_82 = 1 not(TMP\_82) = 0 TMP\_83 = 1 not(TMP\_83) = 0 TMP\_84 = 2 TMP\_85 = 0 not(TMP\_85) = 1 TMP\_86 = 1 not(TMP\_86) = 0 TMP\_87 = 1 not(TMP\_87) = 0 TMP\_88 = 1 not(TMP\_88) = 0 TMP\_89 = 3 TMP\_90 = 0 not(TMP\_90) = 1 TMP\_91 = 0 not(TMP\_91) = 1 TMP\_92 = 0 TMP\_93 = 1 not(TMP\_93) = 0 TMP\_94 = 1 not(TMP\_94) = 0 TMP\_95 = 2 TMP\_96 = 0 not(TMP\_96) = 1 TMP\_97 = 0 not(TMP\_97) = 1 TMP\_98 = 1 not(TMP\_98) = 0 TMP\_99 = 1 not(TMP\_99) = 0 TMP\_100 = 1 not(TMP\_100) = 0 TMP\_101 = 2 Area\_0 = 20 Distance\_0\_Rule\_0 = 1 Distance\_1\_Rule\_0 = 20 Area\_1 = 10 Distance\_0\_Rule\_1 = 1 Distance\_1\_Rule\_1 = 10 Area\_2 = 10 -(Rule\_2\_LB) = -1 Distance\_0\_Rule\_2 = 1 -(Rule\_2\_LB) = -10 Distance\_1\_Rule\_2 = 10 Area\_3 = 20 -(Rule\_3\_LB) = -2 Distance\_0\_Rule\_3 = 1 -(Rule\_3\_LB) = 0 Distance\_1\_Rule\_3 = 20 TMP\_102 = 60 .

- Solution #7 found. 7 Solutions, Resolution 0.037s, 24 Nodes (648.1 n/s), 23 Backtracks, 7 Fails, 0 Restarts

Rule\_2\_LB = 1 Rule\_2\_UB = 2 Rule\_2\_LB = 10 Rule\_2\_UB = 20 Rule\_3\_LB = 2 Rule\_3\_UB = 3 Rule\_3\_LB = 0 Rule\_3\_UB = 20 Overlaps\_0\_0 = 0 Overlaps\_0\_1 = 0 Overlaps\_0\_2 = 0 Overlaps\_0\_3 = 0 Overlaps\_1\_0 = 1 Overlaps\_1\_1 = 0 Overlaps\_1\_2 = 0 Overlaps\_1\_3 = 0 Overlaps\_2\_0 = 0 Overlaps\_2\_1 = 0 Overlaps\_2\_2 = 0 Overlaps\_2\_3 = 0 Overlaps\_3\_0 = 0 Overlaps\_3\_1 = 0 Overlaps\_3\_2 = 0 Overlaps\_3\_3 = 0 TMP\_0 = 0 not(TMP\_0) = 1 TMP\_1 = 1 not(TMP\_1) = 0 TMP\_2 = 1 not(TMP\_2) = 0 TMP\_3 = 1 not(TMP\_3) = 0 TMP\_4 = 3 TMP\_5 = 0 not(TMP\_5) = 1 TMP\_6 = 0 not(TMP\_6) = 1 TMP\_7 = 0 TMP\_8 = 1 not(TMP\_8) = 0 TMP\_9 = 1 not(TMP\_9) = 0 TMP\_10 = 2 TMP\_11 = 0 not(TMP\_11) = 1 TMP\_12 = 0 not(TMP\_12) = 1 TMP\_13 = 1 not(TMP\_13) = 0 TMP\_14 = 1 not(TMP\_14) = 0 TMP\_15 = 1 not(TMP\_15) = 0 TMP\_16 = 2 TMP\_17 = 1 not(TMP\_17) = 0 TMP\_18 = 1 not(TMP\_18) = 0 TMP\_19 = 0 not(TMP\_19) = 1 TMP\_20 = 1 not(TMP\_20) = 0 TMP\_21 = 3 TMP\_22 = 0 not(TMP\_22) = 1 TMP\_23 = 0 not(TMP\_23) = 1 TMP\_24 = 0 TMP\_25 = 1 not(TMP\_25) = 0 TMP\_26 = 1 not(TMP\_26) = 0 TMP\_27 = 2 TMP\_28 = 0 not(TMP\_28) = 1 TMP\_29 = 0 not(TMP\_29) = 1 TMP\_30 = 1 not(TMP\_30) = 0 TMP\_31 = 1 not(TMP\_31) = 0 TMP\_32 = 1 not(TMP\_32) = 0 TMP\_33 = 2 TMP\_34 = 1 not(TMP\_34) = 0 TMP\_35 = 0 not(TMP\_35) = 1 TMP\_36 = 1 not(TMP\_36) = 0 TMP\_37 = 1 not(TMP\_37) = 0 TMP\_38 = 3 TMP\_39 = 0 not(TMP\_39) = 1 TMP\_40 = 0 not(TMP\_40) = 1 TMP\_41 = 0 TMP\_42 = 1 not(TMP\_42) = 0 TMP\_43 = 1 not(TMP\_43) = 0 TMP\_44 = 2 TMP\_45 = 0 not(TMP\_45) = 1 TMP\_46 = 0 not(TMP\_46) = 1 TMP\_47 = 1 not(TMP\_47) = 0 TMP\_48 = 1 not(TMP\_48) = 0 TMP\_49 = 1 not(TMP\_49) = 0 TMP\_50 = 2 TMP\_51 = 0 not(TMP\_51) = 1 TMP\_52 = 1 not(TMP\_52) = 0 TMP\_53 = 1 not(TMP\_53) = 0 TMP\_54 = 1 not(TMP\_54) = 0 TMP\_55 = 3 TMP\_56 = 0 not(TMP\_56) = 1 TMP\_57 = 0 not(TMP\_57) = 1 TMP\_58 = 0 TMP\_59 = 1 not(TMP\_59) = 0 TMP\_60 = 1 not(TMP\_60) = 0 TMP\_61 = 2 TMP\_62 = 0 not(TMP\_62) = 1 TMP\_63 = 0 not(TMP\_63) = 1 TMP\_64 = 1 not(TMP\_64) = 0 TMP\_65 = 1 not(TMP\_65) = 0 TMP\_66 = 1 not(TMP\_66) = 0 TMP\_67 = 2 TMP\_68 = 0 not(TMP\_68) = 1 TMP\_69 = 1 not(TMP\_69) = 0 TMP\_70 = 1 not(TMP\_70) = 0 TMP\_71 = 1 not(TMP\_71) = 0 TMP\_72 = 3 TMP\_73 = 0 not(TMP\_73) = 1 TMP\_74 = 0 not(TMP\_74) = 1 TMP\_75 = 0 TMP\_76 = 1 not(TMP\_76) = 0 TMP\_77 = 1 not(TMP\_77) = 0 TMP\_78 = 2 TMP\_79 = 0 not(TMP\_79) = 1 TMP\_80 = 0 not(TMP\_80) = 1 TMP\_81 = 1 not(TMP\_81) = 0 TMP\_82 = 1 not(TMP\_82) = 0 TMP\_83 = 1 not(TMP\_83) = 0 TMP\_84 = 2 TMP\_85 = 0 not(TMP\_85) = 1 TMP\_86 = 1 not(TMP\_86) = 0 TMP\_87 = 1 not(TMP\_87) = 0 TMP\_88 = 1 not(TMP\_88) = 0 TMP\_89 = 3 TMP\_90 = 0 not(TMP\_90) = 1 TMP\_91 = 0 not(TMP\_91) = 1 TMP\_92 = 0 TMP\_93 = 1 not(TMP\_93) = 0 TMP\_94 = 1 not(TMP\_94) = 0 TMP\_95 = 2 TMP\_96 = 0 not(TMP\_96) = 1 TMP\_97 = 0 not(TMP\_97) = 1 TMP\_98 = 1 not(TMP\_98) = 0 TMP\_99 = 1 not(TMP\_99) = 0 TMP\_100 = 1 not(TMP\_100) = 0 TMP\_101 = 2 Area\_0 = 20 Distance\_0\_Rule\_0 = 1 Distance\_1\_Rule\_0 = 20 Area\_1 = 10 Distance\_0\_Rule\_1 = 1 Distance\_1\_Rule\_1 = 10 Area\_2 = 10 -(Rule\_2\_LB) = -1 Distance\_0\_Rule\_2 = 1 -(Rule\_2\_LB) = -10 Distance\_1\_Rule\_2 = 10 Area\_3 = 20 -(Rule\_3\_LB) = -2 Distance\_0\_Rule\_3 = 1 -(Rule\_3\_LB) = 0 Distance\_1\_Rule\_3 = 20 TMP\_102 = 60 .

- Solution #8 found. 8 Solutions, Resolution 0.038s, 25 Nodes (653.5 n/s), 24 Backtracks, 7 Fails, 0 Restarts

Rule\_2\_LB = 1 Rule\_2\_UB = 2 Rule\_2\_LB = 10 Rule\_2\_UB = 20 Rule\_3\_LB = 2 Rule\_3\_UB = 3 Rule\_3\_LB = 0 Rule\_3\_UB = 20 Overlaps\_0\_0 = 0 Overlaps\_0\_1 = 1 Overlaps\_0\_2 = 0 Overlaps\_0\_3 = 0 Overlaps\_1\_0 = 1 Overlaps\_1\_1 = 0 Overlaps\_1\_2 = 0 Overlaps\_1\_3 = 0 Overlaps\_2\_0 = 0 Overlaps\_2\_1 = 0 Overlaps\_2\_2 = 0 Overlaps\_2\_3 = 0 Overlaps\_3\_0 = 0 Overlaps\_3\_1 = 0 Overlaps\_3\_2 = 0 Overlaps\_3\_3 = 0 TMP\_0 = 0 not(TMP\_0) = 1 TMP\_1 = 1 not(TMP\_1) = 0 TMP\_2 = 1 not(TMP\_2) = 0 TMP\_3 = 1 not(TMP\_3) = 0 TMP\_4 = 3 TMP\_5 = 0 not(TMP\_5) = 1 TMP\_6 = 0 not(TMP\_6) = 1 TMP\_7 = 0 TMP\_8 = 1 not(TMP\_8) = 0 TMP\_9 = 1 not(TMP\_9) = 0 TMP\_10 = 2 TMP\_11 = 0 not(TMP\_11) = 1 TMP\_12 = 0 not(TMP\_12) = 1 TMP\_13 = 1 not(TMP\_13) = 0 TMP\_14 = 1 not(TMP\_14) = 0 TMP\_15 = 1 not(TMP\_15) = 0 TMP\_16 = 2 TMP\_17 = 1 not(TMP\_17) = 0 TMP\_18 = 1 not(TMP\_18) = 0 TMP\_19 = 0 not(TMP\_19) = 1 TMP\_20 = 1 not(TMP\_20) = 0 TMP\_21 = 3 TMP\_22 = 0 not(TMP\_22) = 1 TMP\_23 = 0 not(TMP\_23) = 1 TMP\_24 = 0 TMP\_25 = 1 not(TMP\_25) = 0 TMP\_26 = 1 not(TMP\_26) = 0 TMP\_27 = 2 TMP\_28 = 0 not(TMP\_28) = 1 TMP\_29 = 0 not(TMP\_29) = 1 TMP\_30 = 1 not(TMP\_30) = 0 TMP\_31 = 1 not(TMP\_31) = 0 TMP\_32 = 1 not(TMP\_32) = 0 TMP\_33 = 2 TMP\_34 = 1 not(TMP\_34) = 0 TMP\_35 = 0 not(TMP\_35) = 1 TMP\_36 = 1 not(TMP\_36) = 0 TMP\_37 = 1 not(TMP\_37) = 0 TMP\_38 = 3 TMP\_39 = 0 not(TMP\_39) = 1 TMP\_40 = 0 not(TMP\_40) = 1 TMP\_41 = 0 TMP\_42 = 1 not(TMP\_42) = 0 TMP\_43 = 1 not(TMP\_43) = 0 TMP\_44 = 2 TMP\_45 = 0 not(TMP\_45) = 1 TMP\_46 = 0 not(TMP\_46) = 1 TMP\_47 = 1 not(TMP\_47) = 0 TMP\_48 = 1 not(TMP\_48) = 0 TMP\_49 = 1 not(TMP\_49) = 0 TMP\_50 = 2 TMP\_51 = 0 not(TMP\_51) = 1 TMP\_52 = 1 not(TMP\_52) = 0 TMP\_53 = 1 not(TMP\_53) = 0 TMP\_54 = 1 not(TMP\_54) = 0 TMP\_55 = 3 TMP\_56 = 0 not(TMP\_56) = 1 TMP\_57 = 0 not(TMP\_57) = 1 TMP\_58 = 0 TMP\_59 = 1 not(TMP\_59) = 0 TMP\_60 = 1 not(TMP\_60) = 0 TMP\_61 = 2 TMP\_62 = 0 not(TMP\_62) = 1 TMP\_63 = 0 not(TMP\_63) = 1 TMP\_64 = 1 not(TMP\_64) = 0 TMP\_65 = 1 not(TMP\_65) = 0 TMP\_66 = 1 not(TMP\_66) = 0 TMP\_67 = 2 TMP\_68 = 0 not(TMP\_68) = 1 TMP\_69 = 1 not(TMP\_69) = 0 TMP\_70 = 1 not(TMP\_70) = 0 TMP\_71 = 1 not(TMP\_71) = 0 TMP\_72 = 3 TMP\_73 = 0 not(TMP\_73) = 1 TMP\_74 = 0 not(TMP\_74) = 1 TMP\_75 = 0 TMP\_76 = 1 not(TMP\_76) = 0 TMP\_77 = 1 not(TMP\_77) = 0 TMP\_78 = 2 TMP\_79 = 0 not(TMP\_79) = 1 TMP\_80 = 0 not(TMP\_80) = 1 TMP\_81 = 1 not(TMP\_81) = 0 TMP\_82 = 1 not(TMP\_82) = 0 TMP\_83 = 1 not(TMP\_83) = 0 TMP\_84 = 2 TMP\_85 = 0 not(TMP\_85) = 1 TMP\_86 = 1 not(TMP\_86) = 0 TMP\_87 = 1 not(TMP\_87) = 0 TMP\_88 = 1 not(TMP\_88) = 0 TMP\_89 = 3 TMP\_90 = 0 not(TMP\_90) = 1 TMP\_91 = 0 not(TMP\_91) = 1 TMP\_92 = 0 TMP\_93 = 1 not(TMP\_93) = 0 TMP\_94 = 1 not(TMP\_94) = 0 TMP\_95 = 2 TMP\_96 = 0 not(TMP\_96) = 1 TMP\_97 = 0 not(TMP\_97) = 1 TMP\_98 = 1 not(TMP\_98) = 0 TMP\_99 = 1 not(TMP\_99) = 0 TMP\_100 = 1 not(TMP\_100) = 0 TMP\_101 = 2 Area\_0 = 20 Distance\_0\_Rule\_0 = 1 Distance\_1\_Rule\_0 = 20 Area\_1 = 10 Distance\_0\_Rule\_1 = 1 Distance\_1\_Rule\_1 = 10 Area\_2 = 10 -(Rule\_2\_LB) = -1 Distance\_0\_Rule\_2 = 1 -(Rule\_2\_LB) = -10 Distance\_1\_Rule\_2 = 10 Area\_3 = 20 -(Rule\_3\_LB) = -2 Distance\_0\_Rule\_3 = 1 -(Rule\_3\_LB) = 0 Distance\_1\_Rule\_3 = 20 TMP\_102 = 60 .

- Solution #9 found. 9 Solutions, Resolution 0.041s, 28 Nodes (689.9 n/s), 29 Backtracks, 8 Fails, 0 Restarts

Rule\_2\_LB = 1 Rule\_2\_UB = 3 Rule\_2\_LB = 10 Rule\_2\_UB = 20 Rule\_3\_LB = 2 Rule\_3\_UB = 3 Rule\_3\_LB = 0 Rule\_3\_UB = 10 Overlaps\_0\_0 = 0 Overlaps\_0\_1 = 0 Overlaps\_0\_2 = 0 Overlaps\_0\_3 = 0 Overlaps\_1\_0 = 0 Overlaps\_1\_1 = 0 Overlaps\_1\_2 = 0 Overlaps\_1\_3 = 0 Overlaps\_2\_0 = 0 Overlaps\_2\_1 = 0 Overlaps\_2\_2 = 0 Overlaps\_2\_3 = 0 Overlaps\_3\_0 = 0 Overlaps\_3\_1 = 0 Overlaps\_3\_2 = 0 Overlaps\_3\_3 = 0 TMP\_0 = 0 not(TMP\_0) = 1 TMP\_1 = 1 not(TMP\_1) = 0 TMP\_2 = 1 not(TMP\_2) = 0 TMP\_3 = 1 not(TMP\_3) = 0 TMP\_4 = 3 TMP\_5 = 0 not(TMP\_5) = 1 TMP\_6 = 0 not(TMP\_6) = 1 TMP\_7 = 0 TMP\_8 = 1 not(TMP\_8) = 0 TMP\_9 = 1 not(TMP\_9) = 0 TMP\_10 = 2 TMP\_11 = 0 not(TMP\_11) = 1 TMP\_12 = 0 not(TMP\_12) = 1 TMP\_13 = 1 not(TMP\_13) = 0 TMP\_14 = 1 not(TMP\_14) = 0 TMP\_15 = 1 not(TMP\_15) = 0 TMP\_16 = 2 TMP\_17 = 1 not(TMP\_17) = 0 TMP\_18 = 1 not(TMP\_18) = 0 TMP\_19 = 0 not(TMP\_19) = 1 TMP\_20 = 1 not(TMP\_20) = 0 TMP\_21 = 3 TMP\_22 = 0 not(TMP\_22) = 1 TMP\_23 = 0 not(TMP\_23) = 1 TMP\_24 = 0 TMP\_25 = 1 not(TMP\_25) = 0 TMP\_26 = 1 not(TMP\_26) = 0 TMP\_27 = 2 TMP\_28 = 0 not(TMP\_28) = 1 TMP\_29 = 0 not(TMP\_29) = 1 TMP\_30 = 1 not(TMP\_30) = 0 TMP\_31 = 1 not(TMP\_31) = 0 TMP\_32 = 1 not(TMP\_32) = 0 TMP\_33 = 2 TMP\_34 = 1 not(TMP\_34) = 0 TMP\_35 = 1 not(TMP\_35) = 0 TMP\_36 = 0 not(TMP\_36) = 1 TMP\_37 = 1 not(TMP\_37) = 0 TMP\_38 = 3 TMP\_39 = 0 not(TMP\_39) = 1 TMP\_40 = 0 not(TMP\_40) = 1 TMP\_41 = 0 TMP\_42 = 1 not(TMP\_42) = 0 TMP\_43 = 1 not(TMP\_43) = 0 TMP\_44 = 2 TMP\_45 = 0 not(TMP\_45) = 1 TMP\_46 = 0 not(TMP\_46) = 1 TMP\_47 = 1 not(TMP\_47) = 0 TMP\_48 = 1 not(TMP\_48) = 0 TMP\_49 = 1 not(TMP\_49) = 0 TMP\_50 = 2 TMP\_51 = 0 not(TMP\_51) = 1 TMP\_52 = 1 not(TMP\_52) = 0 TMP\_53 = 1 not(TMP\_53) = 0 TMP\_54 = 1 not(TMP\_54) = 0 TMP\_55 = 3 TMP\_56 = 0 not(TMP\_56) = 1 TMP\_57 = 0 not(TMP\_57) = 1 TMP\_58 = 0 TMP\_59 = 1 not(TMP\_59) = 0 TMP\_60 = 1 not(TMP\_60) = 0 TMP\_61 = 2 TMP\_62 = 0 not(TMP\_62) = 1 TMP\_63 = 0 not(TMP\_63) = 1 TMP\_64 = 1 not(TMP\_64) = 0 TMP\_65 = 1 not(TMP\_65) = 0 TMP\_66 = 1 not(TMP\_66) = 0 TMP\_67 = 2 TMP\_68 = 0 not(TMP\_68) = 1 TMP\_69 = 1 not(TMP\_69) = 0 TMP\_70 = 1 not(TMP\_70) = 0 TMP\_71 = 1 not(TMP\_71) = 0 TMP\_72 = 3 TMP\_73 = 0 not(TMP\_73) = 1 TMP\_74 = 0 not(TMP\_74) = 1 TMP\_75 = 0 TMP\_76 = 1 not(TMP\_76) = 0 TMP\_77 = 1 not(TMP\_77) = 0 TMP\_78 = 2 TMP\_79 = 0 not(TMP\_79) = 1 TMP\_80 = 0 not(TMP\_80) = 1 TMP\_81 = 1 not(TMP\_81) = 0 TMP\_82 = 1 not(TMP\_82) = 0 TMP\_83 = 1 not(TMP\_83) = 0 TMP\_84 = 2 TMP\_85 = 1 not(TMP\_85) = 0 TMP\_86 = 1 not(TMP\_86) = 0 TMP\_87 = 1 not(TMP\_87) = 0 TMP\_88 = 0 not(TMP\_88) = 1 TMP\_89 = 3 TMP\_90 = 0 not(TMP\_90) = 1 TMP\_91 = 0 not(TMP\_91) = 1 TMP\_92 = 0 TMP\_93 = 1 not(TMP\_93) = 0 TMP\_94 = 1 not(TMP\_94) = 0 TMP\_95 = 2 TMP\_96 = 0 not(TMP\_96) = 1 TMP\_97 = 0 not(TMP\_97) = 1 TMP\_98 = 1 not(TMP\_98) = 0 TMP\_99 = 1 not(TMP\_99) = 0 TMP\_100 = 1 not(TMP\_100) = 0 TMP\_101 = 2 Area\_0 = 20 Distance\_0\_Rule\_0 = 1 Distance\_1\_Rule\_0 = 20 Area\_1 = 10 Distance\_0\_Rule\_1 = 1 Distance\_1\_Rule\_1 = 10 Area\_2 = 20 -(Rule\_2\_LB) = -1 Distance\_0\_Rule\_2 = 2 -(Rule\_2\_LB) = -10 Distance\_1\_Rule\_2 = 10 Area\_3 = 10 -(Rule\_3\_LB) = -2 Distance\_0\_Rule\_3 = 1 -(Rule\_3\_LB) = 0 Distance\_1\_Rule\_3 = 10 TMP\_102 = 60 .

- Solution #10 found. 10 Solutions, Resolution 0.042s, 29 Nodes (690.6 n/s), 30 Backtracks, 8 Fails, 0 Restarts

Rule\_2\_LB = 1 Rule\_2\_UB = 3 Rule\_2\_LB = 10 Rule\_2\_UB = 20 Rule\_3\_LB = 2 Rule\_3\_UB = 3 Rule\_3\_LB = 0 Rule\_3\_UB = 10 Overlaps\_0\_0 = 0 Overlaps\_0\_1 = 1 Overlaps\_0\_2 = 0 Overlaps\_0\_3 = 0 Overlaps\_1\_0 = 0 Overlaps\_1\_1 = 0 Overlaps\_1\_2 = 0 Overlaps\_1\_3 = 0 Overlaps\_2\_0 = 0 Overlaps\_2\_1 = 0 Overlaps\_2\_2 = 0 Overlaps\_2\_3 = 0 Overlaps\_3\_0 = 0 Overlaps\_3\_1 = 0 Overlaps\_3\_2 = 0 Overlaps\_3\_3 = 0 TMP\_0 = 0 not(TMP\_0) = 1 TMP\_1 = 1 not(TMP\_1) = 0 TMP\_2 = 1 not(TMP\_2) = 0 TMP\_3 = 1 not(TMP\_3) = 0 TMP\_4 = 3 TMP\_5 = 0 not(TMP\_5) = 1 TMP\_6 = 0 not(TMP\_6) = 1 TMP\_7 = 0 TMP\_8 = 1 not(TMP\_8) = 0 TMP\_9 = 1 not(TMP\_9) = 0 TMP\_10 = 2 TMP\_11 = 0 not(TMP\_11) = 1 TMP\_12 = 0 not(TMP\_12) = 1 TMP\_13 = 1 not(TMP\_13) = 0 TMP\_14 = 1 not(TMP\_14) = 0 TMP\_15 = 1 not(TMP\_15) = 0 TMP\_16 = 2 TMP\_17 = 1 not(TMP\_17) = 0 TMP\_18 = 1 not(TMP\_18) = 0 TMP\_19 = 0 not(TMP\_19) = 1 TMP\_20 = 1 not(TMP\_20) = 0 TMP\_21 = 3 TMP\_22 = 0 not(TMP\_22) = 1 TMP\_23 = 0 not(TMP\_23) = 1 TMP\_24 = 0 TMP\_25 = 1 not(TMP\_25) = 0 TMP\_26 = 1 not(TMP\_26) = 0 TMP\_27 = 2 TMP\_28 = 0 not(TMP\_28) = 1 TMP\_29 = 0 not(TMP\_29) = 1 TMP\_30 = 1 not(TMP\_30) = 0 TMP\_31 = 1 not(TMP\_31) = 0 TMP\_32 = 1 not(TMP\_32) = 0 TMP\_33 = 2 TMP\_34 = 1 not(TMP\_34) = 0 TMP\_35 = 1 not(TMP\_35) = 0 TMP\_36 = 0 not(TMP\_36) = 1 TMP\_37 = 1 not(TMP\_37) = 0 TMP\_38 = 3 TMP\_39 = 0 not(TMP\_39) = 1 TMP\_40 = 0 not(TMP\_40) = 1 TMP\_41 = 0 TMP\_42 = 1 not(TMP\_42) = 0 TMP\_43 = 1 not(TMP\_43) = 0 TMP\_44 = 2 TMP\_45 = 0 not(TMP\_45) = 1 TMP\_46 = 0 not(TMP\_46) = 1 TMP\_47 = 1 not(TMP\_47) = 0 TMP\_48 = 1 not(TMP\_48) = 0 TMP\_49 = 1 not(TMP\_49) = 0 TMP\_50 = 2 TMP\_51 = 0 not(TMP\_51) = 1 TMP\_52 = 1 not(TMP\_52) = 0 TMP\_53 = 1 not(TMP\_53) = 0 TMP\_54 = 1 not(TMP\_54) = 0 TMP\_55 = 3 TMP\_56 = 0 not(TMP\_56) = 1 TMP\_57 = 0 not(TMP\_57) = 1 TMP\_58 = 0 TMP\_59 = 1 not(TMP\_59) = 0 TMP\_60 = 1 not(TMP\_60) = 0 TMP\_61 = 2 TMP\_62 = 0 not(TMP\_62) = 1 TMP\_63 = 0 not(TMP\_63) = 1 TMP\_64 = 1 not(TMP\_64) = 0 TMP\_65 = 1 not(TMP\_65) = 0 TMP\_66 = 1 not(TMP\_66) = 0 TMP\_67 = 2 TMP\_68 = 0 not(TMP\_68) = 1 TMP\_69 = 1 not(TMP\_69) = 0 TMP\_70 = 1 not(TMP\_70) = 0 TMP\_71 = 1 not(TMP\_71) = 0 TMP\_72 = 3 TMP\_73 = 0 not(TMP\_73) = 1 TMP\_74 = 0 not(TMP\_74) = 1 TMP\_75 = 0 TMP\_76 = 1 not(TMP\_76) = 0 TMP\_77 = 1 not(TMP\_77) = 0 TMP\_78 = 2 TMP\_79 = 0 not(TMP\_79) = 1 TMP\_80 = 0 not(TMP\_80) = 1 TMP\_81 = 1 not(TMP\_81) = 0 TMP\_82 = 1 not(TMP\_82) = 0 TMP\_83 = 1 not(TMP\_83) = 0 TMP\_84 = 2 TMP\_85 = 1 not(TMP\_85) = 0 TMP\_86 = 1 not(TMP\_86) = 0 TMP\_87 = 1 not(TMP\_87) = 0 TMP\_88 = 0 not(TMP\_88) = 1 TMP\_89 = 3 TMP\_90 = 0 not(TMP\_90) = 1 TMP\_91 = 0 not(TMP\_91) = 1 TMP\_92 = 0 TMP\_93 = 1 not(TMP\_93) = 0 TMP\_94 = 1 not(TMP\_94) = 0 TMP\_95 = 2 TMP\_96 = 0 not(TMP\_96) = 1 TMP\_97 = 0 not(TMP\_97) = 1 TMP\_98 = 1 not(TMP\_98) = 0 TMP\_99 = 1 not(TMP\_99) = 0 TMP\_100 = 1 not(TMP\_100) = 0 TMP\_101 = 2 Area\_0 = 20 Distance\_0\_Rule\_0 = 1 Distance\_1\_Rule\_0 = 20 Area\_1 = 10 Distance\_0\_Rule\_1 = 1 Distance\_1\_Rule\_1 = 10 Area\_2 = 20 -(Rule\_2\_LB) = -1 Distance\_0\_Rule\_2 = 2 -(Rule\_2\_LB) = -10 Distance\_1\_Rule\_2 = 10 Area\_3 = 10 -(Rule\_3\_LB) = -2 Distance\_0\_Rule\_3 = 1 -(Rule\_3\_LB) = 0 Distance\_1\_Rule\_3 = 10 TMP\_102 = 60 .

- Solution #11 found. 11 Solutions, Resolution 0.043s, 31 Nodes (717.7 n/s), 32 Backtracks, 8 Fails, 0 Restarts

Rule\_2\_LB = 1 Rule\_2\_UB = 3 Rule\_2\_LB = 10 Rule\_2\_UB = 20 Rule\_3\_LB = 2 Rule\_3\_UB = 3 Rule\_3\_LB = 0 Rule\_3\_UB = 10 Overlaps\_0\_0 = 0 Overlaps\_0\_1 = 0 Overlaps\_0\_2 = 0 Overlaps\_0\_3 = 0 Overlaps\_1\_0 = 1 Overlaps\_1\_1 = 0 Overlaps\_1\_2 = 0 Overlaps\_1\_3 = 0 Overlaps\_2\_0 = 0 Overlaps\_2\_1 = 0 Overlaps\_2\_2 = 0 Overlaps\_2\_3 = 0 Overlaps\_3\_0 = 0 Overlaps\_3\_1 = 0 Overlaps\_3\_2 = 0 Overlaps\_3\_3 = 0 TMP\_0 = 0 not(TMP\_0) = 1 TMP\_1 = 1 not(TMP\_1) = 0 TMP\_2 = 1 not(TMP\_2) = 0 TMP\_3 = 1 not(TMP\_3) = 0 TMP\_4 = 3 TMP\_5 = 0 not(TMP\_5) = 1 TMP\_6 = 0 not(TMP\_6) = 1 TMP\_7 = 0 TMP\_8 = 1 not(TMP\_8) = 0 TMP\_9 = 1 not(TMP\_9) = 0 TMP\_10 = 2 TMP\_11 = 0 not(TMP\_11) = 1 TMP\_12 = 0 not(TMP\_12) = 1 TMP\_13 = 1 not(TMP\_13) = 0 TMP\_14 = 1 not(TMP\_14) = 0 TMP\_15 = 1 not(TMP\_15) = 0 TMP\_16 = 2 TMP\_17 = 1 not(TMP\_17) = 0 TMP\_18 = 1 not(TMP\_18) = 0 TMP\_19 = 0 not(TMP\_19) = 1 TMP\_20 = 1 not(TMP\_20) = 0 TMP\_21 = 3 TMP\_22 = 0 not(TMP\_22) = 1 TMP\_23 = 0 not(TMP\_23) = 1 TMP\_24 = 0 TMP\_25 = 1 not(TMP\_25) = 0 TMP\_26 = 1 not(TMP\_26) = 0 TMP\_27 = 2 TMP\_28 = 0 not(TMP\_28) = 1 TMP\_29 = 0 not(TMP\_29) = 1 TMP\_30 = 1 not(TMP\_30) = 0 TMP\_31 = 1 not(TMP\_31) = 0 TMP\_32 = 1 not(TMP\_32) = 0 TMP\_33 = 2 TMP\_34 = 1 not(TMP\_34) = 0 TMP\_35 = 1 not(TMP\_35) = 0 TMP\_36 = 0 not(TMP\_36) = 1 TMP\_37 = 1 not(TMP\_37) = 0 TMP\_38 = 3 TMP\_39 = 0 not(TMP\_39) = 1 TMP\_40 = 0 not(TMP\_40) = 1 TMP\_41 = 0 TMP\_42 = 1 not(TMP\_42) = 0 TMP\_43 = 1 not(TMP\_43) = 0 TMP\_44 = 2 TMP\_45 = 0 not(TMP\_45) = 1 TMP\_46 = 0 not(TMP\_46) = 1 TMP\_47 = 1 not(TMP\_47) = 0 TMP\_48 = 1 not(TMP\_48) = 0 TMP\_49 = 1 not(TMP\_49) = 0 TMP\_50 = 2 TMP\_51 = 0 not(TMP\_51) = 1 TMP\_52 = 1 not(TMP\_52) = 0 TMP\_53 = 1 not(TMP\_53) = 0 TMP\_54 = 1 not(TMP\_54) = 0 TMP\_55 = 3 TMP\_56 = 0 not(TMP\_56) = 1 TMP\_57 = 0 not(TMP\_57) = 1 TMP\_58 = 0 TMP\_59 = 1 not(TMP\_59) = 0 TMP\_60 = 1 not(TMP\_60) = 0 TMP\_61 = 2 TMP\_62 = 0 not(TMP\_62) = 1 TMP\_63 = 0 not(TMP\_63) = 1 TMP\_64 = 1 not(TMP\_64) = 0 TMP\_65 = 1 not(TMP\_65) = 0 TMP\_66 = 1 not(TMP\_66) = 0 TMP\_67 = 2 TMP\_68 = 0 not(TMP\_68) = 1 TMP\_69 = 1 not(TMP\_69) = 0 TMP\_70 = 1 not(TMP\_70) = 0 TMP\_71 = 1 not(TMP\_71) = 0 TMP\_72 = 3 TMP\_73 = 0 not(TMP\_73) = 1 TMP\_74 = 0 not(TMP\_74) = 1 TMP\_75 = 0 TMP\_76 = 1 not(TMP\_76) = 0 TMP\_77 = 1 not(TMP\_77) = 0 TMP\_78 = 2 TMP\_79 = 0 not(TMP\_79) = 1 TMP\_80 = 0 not(TMP\_80) = 1 TMP\_81 = 1 not(TMP\_81) = 0 TMP\_82 = 1 not(TMP\_82) = 0 TMP\_83 = 1 not(TMP\_83) = 0 TMP\_84 = 2 TMP\_85 = 1 not(TMP\_85) = 0 TMP\_86 = 1 not(TMP\_86) = 0 TMP\_87 = 1 not(TMP\_87) = 0 TMP\_88 = 0 not(TMP\_88) = 1 TMP\_89 = 3 TMP\_90 = 0 not(TMP\_90) = 1 TMP\_91 = 0 not(TMP\_91) = 1 TMP\_92 = 0 TMP\_93 = 1 not(TMP\_93) = 0 TMP\_94 = 1 not(TMP\_94) = 0 TMP\_95 = 2 TMP\_96 = 0 not(TMP\_96) = 1 TMP\_97 = 0 not(TMP\_97) = 1 TMP\_98 = 1 not(TMP\_98) = 0 TMP\_99 = 1 not(TMP\_99) = 0 TMP\_100 = 1 not(TMP\_100) = 0 TMP\_101 = 2 Area\_0 = 20 Distance\_0\_Rule\_0 = 1 Distance\_1\_Rule\_0 = 20 Area\_1 = 10 Distance\_0\_Rule\_1 = 1 Distance\_1\_Rule\_1 = 10 Area\_2 = 20 -(Rule\_2\_LB) = -1 Distance\_0\_Rule\_2 = 2 -(Rule\_2\_LB) = -10 Distance\_1\_Rule\_2 = 10 Area\_3 = 10 -(Rule\_3\_LB) = -2 Distance\_0\_Rule\_3 = 1 -(Rule\_3\_LB) = 0 Distance\_1\_Rule\_3 = 10 TMP\_102 = 60 .

- Solution #12 found. 12 Solutions, Resolution 0.045s, 32 Nodes (710.0 n/s), 33 Backtracks, 8 Fails, 0 Restarts

Rule\_2\_LB = 1 Rule\_2\_UB = 3 Rule\_2\_LB = 10 Rule\_2\_UB = 20 Rule\_3\_LB = 2 Rule\_3\_UB = 3 Rule\_3\_LB = 0 Rule\_3\_UB = 10 Overlaps\_0\_0 = 0 Overlaps\_0\_1 = 1 Overlaps\_0\_2 = 0 Overlaps\_0\_3 = 0 Overlaps\_1\_0 = 1 Overlaps\_1\_1 = 0 Overlaps\_1\_2 = 0 Overlaps\_1\_3 = 0 Overlaps\_2\_0 = 0 Overlaps\_2\_1 = 0 Overlaps\_2\_2 = 0 Overlaps\_2\_3 = 0 Overlaps\_3\_0 = 0 Overlaps\_3\_1 = 0 Overlaps\_3\_2 = 0 Overlaps\_3\_3 = 0 TMP\_0 = 0 not(TMP\_0) = 1 TMP\_1 = 1 not(TMP\_1) = 0 TMP\_2 = 1 not(TMP\_2) = 0 TMP\_3 = 1 not(TMP\_3) = 0 TMP\_4 = 3 TMP\_5 = 0 not(TMP\_5) = 1 TMP\_6 = 0 not(TMP\_6) = 1 TMP\_7 = 0 TMP\_8 = 1 not(TMP\_8) = 0 TMP\_9 = 1 not(TMP\_9) = 0 TMP\_10 = 2 TMP\_11 = 0 not(TMP\_11) = 1 TMP\_12 = 0 not(TMP\_12) = 1 TMP\_13 = 1 not(TMP\_13) = 0 TMP\_14 = 1 not(TMP\_14) = 0 TMP\_15 = 1 not(TMP\_15) = 0 TMP\_16 = 2 TMP\_17 = 1 not(TMP\_17) = 0 TMP\_18 = 1 not(TMP\_18) = 0 TMP\_19 = 0 not(TMP\_19) = 1 TMP\_20 = 1 not(TMP\_20) = 0 TMP\_21 = 3 TMP\_22 = 0 not(TMP\_22) = 1 TMP\_23 = 0 not(TMP\_23) = 1 TMP\_24 = 0 TMP\_25 = 1 not(TMP\_25) = 0 TMP\_26 = 1 not(TMP\_26) = 0 TMP\_27 = 2 TMP\_28 = 0 not(TMP\_28) = 1 TMP\_29 = 0 not(TMP\_29) = 1 TMP\_30 = 1 not(TMP\_30) = 0 TMP\_31 = 1 not(TMP\_31) = 0 TMP\_32 = 1 not(TMP\_32) = 0 TMP\_33 = 2 TMP\_34 = 1 not(TMP\_34) = 0 TMP\_35 = 1 not(TMP\_35) = 0 TMP\_36 = 0 not(TMP\_36) = 1 TMP\_37 = 1 not(TMP\_37) = 0 TMP\_38 = 3 TMP\_39 = 0 not(TMP\_39) = 1 TMP\_40 = 0 not(TMP\_40) = 1 TMP\_41 = 0 TMP\_42 = 1 not(TMP\_42) = 0 TMP\_43 = 1 not(TMP\_43) = 0 TMP\_44 = 2 TMP\_45 = 0 not(TMP\_45) = 1 TMP\_46 = 0 not(TMP\_46) = 1 TMP\_47 = 1 not(TMP\_47) = 0 TMP\_48 = 1 not(TMP\_48) = 0 TMP\_49 = 1 not(TMP\_49) = 0 TMP\_50 = 2 TMP\_51 = 0 not(TMP\_51) = 1 TMP\_52 = 1 not(TMP\_52) = 0 TMP\_53 = 1 not(TMP\_53) = 0 TMP\_54 = 1 not(TMP\_54) = 0 TMP\_55 = 3 TMP\_56 = 0 not(TMP\_56) = 1 TMP\_57 = 0 not(TMP\_57) = 1 TMP\_58 = 0 TMP\_59 = 1 not(TMP\_59) = 0 TMP\_60 = 1 not(TMP\_60) = 0 TMP\_61 = 2 TMP\_62 = 0 not(TMP\_62) = 1 TMP\_63 = 0 not(TMP\_63) = 1 TMP\_64 = 1 not(TMP\_64) = 0 TMP\_65 = 1 not(TMP\_65) = 0 TMP\_66 = 1 not(TMP\_66) = 0 TMP\_67 = 2 TMP\_68 = 0 not(TMP\_68) = 1 TMP\_69 = 1 not(TMP\_69) = 0 TMP\_70 = 1 not(TMP\_70) = 0 TMP\_71 = 1 not(TMP\_71) = 0 TMP\_72 = 3 TMP\_73 = 0 not(TMP\_73) = 1 TMP\_74 = 0 not(TMP\_74) = 1 TMP\_75 = 0 TMP\_76 = 1 not(TMP\_76) = 0 TMP\_77 = 1 not(TMP\_77) = 0 TMP\_78 = 2 TMP\_79 = 0 not(TMP\_79) = 1 TMP\_80 = 0 not(TMP\_80) = 1 TMP\_81 = 1 not(TMP\_81) = 0 TMP\_82 = 1 not(TMP\_82) = 0 TMP\_83 = 1 not(TMP\_83) = 0 TMP\_84 = 2 TMP\_85 = 1 not(TMP\_85) = 0 TMP\_86 = 1 not(TMP\_86) = 0 TMP\_87 = 1 not(TMP\_87) = 0 TMP\_88 = 0 not(TMP\_88) = 1 TMP\_89 = 3 TMP\_90 = 0 not(TMP\_90) = 1 TMP\_91 = 0 not(TMP\_91) = 1 TMP\_92 = 0 TMP\_93 = 1 not(TMP\_93) = 0 TMP\_94 = 1 not(TMP\_94) = 0 TMP\_95 = 2 TMP\_96 = 0 not(TMP\_96) = 1 TMP\_97 = 0 not(TMP\_97) = 1 TMP\_98 = 1 not(TMP\_98) = 0 TMP\_99 = 1 not(TMP\_99) = 0 TMP\_100 = 1 not(TMP\_100) = 0 TMP\_101 = 2 Area\_0 = 20 Distance\_0\_Rule\_0 = 1 Distance\_1\_Rule\_0 = 20 Area\_1 = 10 Distance\_0\_Rule\_1 = 1 Distance\_1\_Rule\_1 = 10 Area\_2 = 20 -(Rule\_2\_LB) = -1 Distance\_0\_Rule\_2 = 2 -(Rule\_2\_LB) = -10 Distance\_1\_Rule\_2 = 10 Area\_3 = 10 -(Rule\_3\_LB) = -2 Distance\_0\_Rule\_3 = 1 -(Rule\_3\_LB) = 0 Distance\_1\_Rule\_3 = 10 TMP\_102 = 60 .

- Solution #13 found. 13 Solutions, Resolution 0.050s, 36 Nodes (721.5 n/s), 40 Backtracks, 9 Fails, 0 Restarts

Rule\_2\_LB = 2 Rule\_2\_UB = 3 Rule\_2\_LB = 0 Rule\_2\_UB = 10 Rule\_3\_LB = 1 Rule\_3\_UB = 3 Rule\_3\_LB = 10 Rule\_3\_UB = 20 Overlaps\_0\_0 = 0 Overlaps\_0\_1 = 0 Overlaps\_0\_2 = 0 Overlaps\_0\_3 = 0 Overlaps\_1\_0 = 0 Overlaps\_1\_1 = 0 Overlaps\_1\_2 = 0 Overlaps\_1\_3 = 0 Overlaps\_2\_0 = 0 Overlaps\_2\_1 = 0 Overlaps\_2\_2 = 0 Overlaps\_2\_3 = 0 Overlaps\_3\_0 = 0 Overlaps\_3\_1 = 0 Overlaps\_3\_2 = 0 Overlaps\_3\_3 = 0 TMP\_0 = 0 not(TMP\_0) = 1 TMP\_1 = 1 not(TMP\_1) = 0 TMP\_2 = 1 not(TMP\_2) = 0 TMP\_3 = 1 not(TMP\_3) = 0 TMP\_4 = 3 TMP\_5 = 0 not(TMP\_5) = 1 TMP\_6 = 0 not(TMP\_6) = 1 TMP\_7 = 0 TMP\_8 = 1 not(TMP\_8) = 0 TMP\_9 = 1 not(TMP\_9) = 0 TMP\_10 = 2 TMP\_11 = 0 not(TMP\_11) = 1 TMP\_12 = 0 not(TMP\_12) = 1 TMP\_13 = 1 not(TMP\_13) = 0 TMP\_14 = 1 not(TMP\_14) = 0 TMP\_15 = 1 not(TMP\_15) = 0 TMP\_16 = 2 TMP\_17 = 0 not(TMP\_17) = 1 TMP\_18 = 1 not(TMP\_18) = 0 TMP\_19 = 1 not(TMP\_19) = 0 TMP\_20 = 1 not(TMP\_20) = 0 TMP\_21 = 3 TMP\_22 = 0 not(TMP\_22) = 1 TMP\_23 = 0 not(TMP\_23) = 1 TMP\_24 = 0 TMP\_25 = 1 not(TMP\_25) = 0 TMP\_26 = 1 not(TMP\_26) = 0 TMP\_27 = 2 TMP\_28 = 0 not(TMP\_28) = 1 TMP\_29 = 0 not(TMP\_29) = 1 TMP\_30 = 1 not(TMP\_30) = 0 TMP\_31 = 1 not(TMP\_31) = 0 TMP\_32 = 1 not(TMP\_32) = 0 TMP\_33 = 2 TMP\_34 = 1 not(TMP\_34) = 0 TMP\_35 = 1 not(TMP\_35) = 0 TMP\_36 = 1 not(TMP\_36) = 0 TMP\_37 = 0 not(TMP\_37) = 1 TMP\_38 = 3 TMP\_39 = 0 not(TMP\_39) = 1 TMP\_40 = 0 not(TMP\_40) = 1 TMP\_41 = 0 TMP\_42 = 1 not(TMP\_42) = 0 TMP\_43 = 1 not(TMP\_43) = 0 TMP\_44 = 2 TMP\_45 = 0 not(TMP\_45) = 1 TMP\_46 = 0 not(TMP\_46) = 1 TMP\_47 = 1 not(TMP\_47) = 0 TMP\_48 = 1 not(TMP\_48) = 0 TMP\_49 = 1 not(TMP\_49) = 0 TMP\_50 = 2 TMP\_51 = 0 not(TMP\_51) = 1 TMP\_52 = 1 not(TMP\_52) = 0 TMP\_53 = 1 not(TMP\_53) = 0 TMP\_54 = 1 not(TMP\_54) = 0 TMP\_55 = 3 TMP\_56 = 0 not(TMP\_56) = 1 TMP\_57 = 0 not(TMP\_57) = 1 TMP\_58 = 0 TMP\_59 = 1 not(TMP\_59) = 0 TMP\_60 = 1 not(TMP\_60) = 0 TMP\_61 = 2 TMP\_62 = 0 not(TMP\_62) = 1 TMP\_63 = 0 not(TMP\_63) = 1 TMP\_64 = 1 not(TMP\_64) = 0 TMP\_65 = 1 not(TMP\_65) = 0 TMP\_66 = 1 not(TMP\_66) = 0 TMP\_67 = 2 TMP\_68 = 1 not(TMP\_68) = 0 TMP\_69 = 1 not(TMP\_69) = 0 TMP\_70 = 0 not(TMP\_70) = 1 TMP\_71 = 1 not(TMP\_71) = 0 TMP\_72 = 3 TMP\_73 = 0 not(TMP\_73) = 1 TMP\_74 = 0 not(TMP\_74) = 1 TMP\_75 = 0 TMP\_76 = 1 not(TMP\_76) = 0 TMP\_77 = 1 not(TMP\_77) = 0 TMP\_78 = 2 TMP\_79 = 0 not(TMP\_79) = 1 TMP\_80 = 0 not(TMP\_80) = 1 TMP\_81 = 1 not(TMP\_81) = 0 TMP\_82 = 1 not(TMP\_82) = 0 TMP\_83 = 1 not(TMP\_83) = 0 TMP\_84 = 2 TMP\_85 = 1 not(TMP\_85) = 0 TMP\_86 = 1 not(TMP\_86) = 0 TMP\_87 = 0 not(TMP\_87) = 1 TMP\_88 = 1 not(TMP\_88) = 0 TMP\_89 = 3 TMP\_90 = 0 not(TMP\_90) = 1 TMP\_91 = 0 not(TMP\_91) = 1 TMP\_92 = 0 TMP\_93 = 1 not(TMP\_93) = 0 TMP\_94 = 1 not(TMP\_94) = 0 TMP\_95 = 2 TMP\_96 = 0 not(TMP\_96) = 1 TMP\_97 = 0 not(TMP\_97) = 1 TMP\_98 = 1 not(TMP\_98) = 0 TMP\_99 = 1 not(TMP\_99) = 0 TMP\_100 = 1 not(TMP\_100) = 0 TMP\_101 = 2 Area\_0 = 20 Distance\_0\_Rule\_0 = 1 Distance\_1\_Rule\_0 = 20 Area\_1 = 10 Distance\_0\_Rule\_1 = 1 Distance\_1\_Rule\_1 = 10 Area\_2 = 10 -(Rule\_2\_LB) = -2 Distance\_0\_Rule\_2 = 1 -(Rule\_2\_LB) = 0 Distance\_1\_Rule\_2 = 10 Area\_3 = 20 -(Rule\_3\_LB) = -1 Distance\_0\_Rule\_3 = 2 -(Rule\_3\_LB) = -10 Distance\_1\_Rule\_3 = 10 TMP\_102 = 60 .

- Solution #14 found. 14 Solutions, Resolution 0.051s, 37 Nodes (720.2 n/s), 41 Backtracks, 9 Fails, 0 Restarts

Rule\_2\_LB = 2 Rule\_2\_UB = 3 Rule\_2\_LB = 0 Rule\_2\_UB = 10 Rule\_3\_LB = 1 Rule\_3\_UB = 3 Rule\_3\_LB = 10 Rule\_3\_UB = 20 Overlaps\_0\_0 = 0 Overlaps\_0\_1 = 0 Overlaps\_0\_2 = 0 Overlaps\_0\_3 = 0 Overlaps\_1\_0 = 1 Overlaps\_1\_1 = 0 Overlaps\_1\_2 = 0 Overlaps\_1\_3 = 0 Overlaps\_2\_0 = 0 Overlaps\_2\_1 = 0 Overlaps\_2\_2 = 0 Overlaps\_2\_3 = 0 Overlaps\_3\_0 = 0 Overlaps\_3\_1 = 0 Overlaps\_3\_2 = 0 Overlaps\_3\_3 = 0 TMP\_0 = 0 not(TMP\_0) = 1 TMP\_1 = 1 not(TMP\_1) = 0 TMP\_2 = 1 not(TMP\_2) = 0 TMP\_3 = 1 not(TMP\_3) = 0 TMP\_4 = 3 TMP\_5 = 0 not(TMP\_5) = 1 TMP\_6 = 0 not(TMP\_6) = 1 TMP\_7 = 0 TMP\_8 = 1 not(TMP\_8) = 0 TMP\_9 = 1 not(TMP\_9) = 0 TMP\_10 = 2 TMP\_11 = 0 not(TMP\_11) = 1 TMP\_12 = 0 not(TMP\_12) = 1 TMP\_13 = 1 not(TMP\_13) = 0 TMP\_14 = 1 not(TMP\_14) = 0 TMP\_15 = 1 not(TMP\_15) = 0 TMP\_16 = 2 TMP\_17 = 0 not(TMP\_17) = 1 TMP\_18 = 1 not(TMP\_18) = 0 TMP\_19 = 1 not(TMP\_19) = 0 TMP\_20 = 1 not(TMP\_20) = 0 TMP\_21 = 3 TMP\_22 = 0 not(TMP\_22) = 1 TMP\_23 = 0 not(TMP\_23) = 1 TMP\_24 = 0 TMP\_25 = 1 not(TMP\_25) = 0 TMP\_26 = 1 not(TMP\_26) = 0 TMP\_27 = 2 TMP\_28 = 0 not(TMP\_28) = 1 TMP\_29 = 0 not(TMP\_29) = 1 TMP\_30 = 1 not(TMP\_30) = 0 TMP\_31 = 1 not(TMP\_31) = 0 TMP\_32 = 1 not(TMP\_32) = 0 TMP\_33 = 2 TMP\_34 = 1 not(TMP\_34) = 0 TMP\_35 = 1 not(TMP\_35) = 0 TMP\_36 = 1 not(TMP\_36) = 0 TMP\_37 = 0 not(TMP\_37) = 1 TMP\_38 = 3 TMP\_39 = 0 not(TMP\_39) = 1 TMP\_40 = 0 not(TMP\_40) = 1 TMP\_41 = 0 TMP\_42 = 1 not(TMP\_42) = 0 TMP\_43 = 1 not(TMP\_43) = 0 TMP\_44 = 2 TMP\_45 = 0 not(TMP\_45) = 1 TMP\_46 = 0 not(TMP\_46) = 1 TMP\_47 = 1 not(TMP\_47) = 0 TMP\_48 = 1 not(TMP\_48) = 0 TMP\_49 = 1 not(TMP\_49) = 0 TMP\_50 = 2 TMP\_51 = 0 not(TMP\_51) = 1 TMP\_52 = 1 not(TMP\_52) = 0 TMP\_53 = 1 not(TMP\_53) = 0 TMP\_54 = 1 not(TMP\_54) = 0 TMP\_55 = 3 TMP\_56 = 0 not(TMP\_56) = 1 TMP\_57 = 0 not(TMP\_57) = 1 TMP\_58 = 0 TMP\_59 = 1 not(TMP\_59) = 0 TMP\_60 = 1 not(TMP\_60) = 0 TMP\_61 = 2 TMP\_62 = 0 not(TMP\_62) = 1 TMP\_63 = 0 not(TMP\_63) = 1 TMP\_64 = 1 not(TMP\_64) = 0 TMP\_65 = 1 not(TMP\_65) = 0 TMP\_66 = 1 not(TMP\_66) = 0 TMP\_67 = 2 TMP\_68 = 1 not(TMP\_68) = 0 TMP\_69 = 1 not(TMP\_69) = 0 TMP\_70 = 0 not(TMP\_70) = 1 TMP\_71 = 1 not(TMP\_71) = 0 TMP\_72 = 3 TMP\_73 = 0 not(TMP\_73) = 1 TMP\_74 = 0 not(TMP\_74) = 1 TMP\_75 = 0 TMP\_76 = 1 not(TMP\_76) = 0 TMP\_77 = 1 not(TMP\_77) = 0 TMP\_78 = 2 TMP\_79 = 0 not(TMP\_79) = 1 TMP\_80 = 0 not(TMP\_80) = 1 TMP\_81 = 1 not(TMP\_81) = 0 TMP\_82 = 1 not(TMP\_82) = 0 TMP\_83 = 1 not(TMP\_83) = 0 TMP\_84 = 2 TMP\_85 = 1 not(TMP\_85) = 0 TMP\_86 = 1 not(TMP\_86) = 0 TMP\_87 = 0 not(TMP\_87) = 1 TMP\_88 = 1 not(TMP\_88) = 0 TMP\_89 = 3 TMP\_90 = 0 not(TMP\_90) = 1 TMP\_91 = 0 not(TMP\_91) = 1 TMP\_92 = 0 TMP\_93 = 1 not(TMP\_93) = 0 TMP\_94 = 1 not(TMP\_94) = 0 TMP\_95 = 2 TMP\_96 = 0 not(TMP\_96) = 1 TMP\_97 = 0 not(TMP\_97) = 1 TMP\_98 = 1 not(TMP\_98) = 0 TMP\_99 = 1 not(TMP\_99) = 0 TMP\_100 = 1 not(TMP\_100) = 0 TMP\_101 = 2 Area\_0 = 20 Distance\_0\_Rule\_0 = 1 Distance\_1\_Rule\_0 = 20 Area\_1 = 10 Distance\_0\_Rule\_1 = 1 Distance\_1\_Rule\_1 = 10 Area\_2 = 10 -(Rule\_2\_LB) = -2 Distance\_0\_Rule\_2 = 1 -(Rule\_2\_LB) = 0 Distance\_1\_Rule\_2 = 10 Area\_3 = 20 -(Rule\_3\_LB) = -1 Distance\_0\_Rule\_3 = 2 -(Rule\_3\_LB) = -10 Distance\_1\_Rule\_3 = 10 TMP\_102 = 60 .

- Solution #15 found. 15 Solutions, Resolution 0.053s, 39 Nodes (732.6 n/s), 43 Backtracks, 9 Fails, 0 Restarts

Rule\_2\_LB = 2 Rule\_2\_UB = 3 Rule\_2\_LB = 0 Rule\_2\_UB = 10 Rule\_3\_LB = 1 Rule\_3\_UB = 3 Rule\_3\_LB = 10 Rule\_3\_UB = 20 Overlaps\_0\_0 = 0 Overlaps\_0\_1 = 1 Overlaps\_0\_2 = 0 Overlaps\_0\_3 = 0 Overlaps\_1\_0 = 0 Overlaps\_1\_1 = 0 Overlaps\_1\_2 = 0 Overlaps\_1\_3 = 0 Overlaps\_2\_0 = 0 Overlaps\_2\_1 = 0 Overlaps\_2\_2 = 0 Overlaps\_2\_3 = 0 Overlaps\_3\_0 = 0 Overlaps\_3\_1 = 0 Overlaps\_3\_2 = 0 Overlaps\_3\_3 = 0 TMP\_0 = 0 not(TMP\_0) = 1 TMP\_1 = 1 not(TMP\_1) = 0 TMP\_2 = 1 not(TMP\_2) = 0 TMP\_3 = 1 not(TMP\_3) = 0 TMP\_4 = 3 TMP\_5 = 0 not(TMP\_5) = 1 TMP\_6 = 0 not(TMP\_6) = 1 TMP\_7 = 0 TMP\_8 = 1 not(TMP\_8) = 0 TMP\_9 = 1 not(TMP\_9) = 0 TMP\_10 = 2 TMP\_11 = 0 not(TMP\_11) = 1 TMP\_12 = 0 not(TMP\_12) = 1 TMP\_13 = 1 not(TMP\_13) = 0 TMP\_14 = 1 not(TMP\_14) = 0 TMP\_15 = 1 not(TMP\_15) = 0 TMP\_16 = 2 TMP\_17 = 0 not(TMP\_17) = 1 TMP\_18 = 1 not(TMP\_18) = 0 TMP\_19 = 1 not(TMP\_19) = 0 TMP\_20 = 1 not(TMP\_20) = 0 TMP\_21 = 3 TMP\_22 = 0 not(TMP\_22) = 1 TMP\_23 = 0 not(TMP\_23) = 1 TMP\_24 = 0 TMP\_25 = 1 not(TMP\_25) = 0 TMP\_26 = 1 not(TMP\_26) = 0 TMP\_27 = 2 TMP\_28 = 0 not(TMP\_28) = 1 TMP\_29 = 0 not(TMP\_29) = 1 TMP\_30 = 1 not(TMP\_30) = 0 TMP\_31 = 1 not(TMP\_31) = 0 TMP\_32 = 1 not(TMP\_32) = 0 TMP\_33 = 2 TMP\_34 = 1 not(TMP\_34) = 0 TMP\_35 = 1 not(TMP\_35) = 0 TMP\_36 = 1 not(TMP\_36) = 0 TMP\_37 = 0 not(TMP\_37) = 1 TMP\_38 = 3 TMP\_39 = 0 not(TMP\_39) = 1 TMP\_40 = 0 not(TMP\_40) = 1 TMP\_41 = 0 TMP\_42 = 1 not(TMP\_42) = 0 TMP\_43 = 1 not(TMP\_43) = 0 TMP\_44 = 2 TMP\_45 = 0 not(TMP\_45) = 1 TMP\_46 = 0 not(TMP\_46) = 1 TMP\_47 = 1 not(TMP\_47) = 0 TMP\_48 = 1 not(TMP\_48) = 0 TMP\_49 = 1 not(TMP\_49) = 0 TMP\_50 = 2 TMP\_51 = 0 not(TMP\_51) = 1 TMP\_52 = 1 not(TMP\_52) = 0 TMP\_53 = 1 not(TMP\_53) = 0 TMP\_54 = 1 not(TMP\_54) = 0 TMP\_55 = 3 TMP\_56 = 0 not(TMP\_56) = 1 TMP\_57 = 0 not(TMP\_57) = 1 TMP\_58 = 0 TMP\_59 = 1 not(TMP\_59) = 0 TMP\_60 = 1 not(TMP\_60) = 0 TMP\_61 = 2 TMP\_62 = 0 not(TMP\_62) = 1 TMP\_63 = 0 not(TMP\_63) = 1 TMP\_64 = 1 not(TMP\_64) = 0 TMP\_65 = 1 not(TMP\_65) = 0 TMP\_66 = 1 not(TMP\_66) = 0 TMP\_67 = 2 TMP\_68 = 1 not(TMP\_68) = 0 TMP\_69 = 1 not(TMP\_69) = 0 TMP\_70 = 0 not(TMP\_70) = 1 TMP\_71 = 1 not(TMP\_71) = 0 TMP\_72 = 3 TMP\_73 = 0 not(TMP\_73) = 1 TMP\_74 = 0 not(TMP\_74) = 1 TMP\_75 = 0 TMP\_76 = 1 not(TMP\_76) = 0 TMP\_77 = 1 not(TMP\_77) = 0 TMP\_78 = 2 TMP\_79 = 0 not(TMP\_79) = 1 TMP\_80 = 0 not(TMP\_80) = 1 TMP\_81 = 1 not(TMP\_81) = 0 TMP\_82 = 1 not(TMP\_82) = 0 TMP\_83 = 1 not(TMP\_83) = 0 TMP\_84 = 2 TMP\_85 = 1 not(TMP\_85) = 0 TMP\_86 = 1 not(TMP\_86) = 0 TMP\_87 = 0 not(TMP\_87) = 1 TMP\_88 = 1 not(TMP\_88) = 0 TMP\_89 = 3 TMP\_90 = 0 not(TMP\_90) = 1 TMP\_91 = 0 not(TMP\_91) = 1 TMP\_92 = 0 TMP\_93 = 1 not(TMP\_93) = 0 TMP\_94 = 1 not(TMP\_94) = 0 TMP\_95 = 2 TMP\_96 = 0 not(TMP\_96) = 1 TMP\_97 = 0 not(TMP\_97) = 1 TMP\_98 = 1 not(TMP\_98) = 0 TMP\_99 = 1 not(TMP\_99) = 0 TMP\_100 = 1 not(TMP\_100) = 0 TMP\_101 = 2 Area\_0 = 20 Distance\_0\_Rule\_0 = 1 Distance\_1\_Rule\_0 = 20 Area\_1 = 10 Distance\_0\_Rule\_1 = 1 Distance\_1\_Rule\_1 = 10 Area\_2 = 10 -(Rule\_2\_LB) = -2 Distance\_0\_Rule\_2 = 1 -(Rule\_2\_LB) = 0 Distance\_1\_Rule\_2 = 10 Area\_3 = 20 -(Rule\_3\_LB) = -1 Distance\_0\_Rule\_3 = 2 -(Rule\_3\_LB) = -10 Distance\_1\_Rule\_3 = 10 TMP\_102 = 60 .

- Solution #16 found. 16 Solutions, Resolution 0.056s, 40 Nodes (717.4 n/s), 44 Backtracks, 9 Fails, 0 Restarts

Rule\_2\_LB = 2 Rule\_2\_UB = 3 Rule\_2\_LB = 0 Rule\_2\_UB = 10 Rule\_3\_LB = 1 Rule\_3\_UB = 3 Rule\_3\_LB = 10 Rule\_3\_UB = 20 Overlaps\_0\_0 = 0 Overlaps\_0\_1 = 1 Overlaps\_0\_2 = 0 Overlaps\_0\_3 = 0 Overlaps\_1\_0 = 1 Overlaps\_1\_1 = 0 Overlaps\_1\_2 = 0 Overlaps\_1\_3 = 0 Overlaps\_2\_0 = 0 Overlaps\_2\_1 = 0 Overlaps\_2\_2 = 0 Overlaps\_2\_3 = 0 Overlaps\_3\_0 = 0 Overlaps\_3\_1 = 0 Overlaps\_3\_2 = 0 Overlaps\_3\_3 = 0 TMP\_0 = 0 not(TMP\_0) = 1 TMP\_1 = 1 not(TMP\_1) = 0 TMP\_2 = 1 not(TMP\_2) = 0 TMP\_3 = 1 not(TMP\_3) = 0 TMP\_4 = 3 TMP\_5 = 0 not(TMP\_5) = 1 TMP\_6 = 0 not(TMP\_6) = 1 TMP\_7 = 0 TMP\_8 = 1 not(TMP\_8) = 0 TMP\_9 = 1 not(TMP\_9) = 0 TMP\_10 = 2 TMP\_11 = 0 not(TMP\_11) = 1 TMP\_12 = 0 not(TMP\_12) = 1 TMP\_13 = 1 not(TMP\_13) = 0 TMP\_14 = 1 not(TMP\_14) = 0 TMP\_15 = 1 not(TMP\_15) = 0 TMP\_16 = 2 TMP\_17 = 0 not(TMP\_17) = 1 TMP\_18 = 1 not(TMP\_18) = 0 TMP\_19 = 1 not(TMP\_19) = 0 TMP\_20 = 1 not(TMP\_20) = 0 TMP\_21 = 3 TMP\_22 = 0 not(TMP\_22) = 1 TMP\_23 = 0 not(TMP\_23) = 1 TMP\_24 = 0 TMP\_25 = 1 not(TMP\_25) = 0 TMP\_26 = 1 not(TMP\_26) = 0 TMP\_27 = 2 TMP\_28 = 0 not(TMP\_28) = 1 TMP\_29 = 0 not(TMP\_29) = 1 TMP\_30 = 1 not(TMP\_30) = 0 TMP\_31 = 1 not(TMP\_31) = 0 TMP\_32 = 1 not(TMP\_32) = 0 TMP\_33 = 2 TMP\_34 = 1 not(TMP\_34) = 0 TMP\_35 = 1 not(TMP\_35) = 0 TMP\_36 = 1 not(TMP\_36) = 0 TMP\_37 = 0 not(TMP\_37) = 1 TMP\_38 = 3 TMP\_39 = 0 not(TMP\_39) = 1 TMP\_40 = 0 not(TMP\_40) = 1 TMP\_41 = 0 TMP\_42 = 1 not(TMP\_42) = 0 TMP\_43 = 1 not(TMP\_43) = 0 TMP\_44 = 2 TMP\_45 = 0 not(TMP\_45) = 1 TMP\_46 = 0 not(TMP\_46) = 1 TMP\_47 = 1 not(TMP\_47) = 0 TMP\_48 = 1 not(TMP\_48) = 0 TMP\_49 = 1 not(TMP\_49) = 0 TMP\_50 = 2 TMP\_51 = 0 not(TMP\_51) = 1 TMP\_52 = 1 not(TMP\_52) = 0 TMP\_53 = 1 not(TMP\_53) = 0 TMP\_54 = 1 not(TMP\_54) = 0 TMP\_55 = 3 TMP\_56 = 0 not(TMP\_56) = 1 TMP\_57 = 0 not(TMP\_57) = 1 TMP\_58 = 0 TMP\_59 = 1 not(TMP\_59) = 0 TMP\_60 = 1 not(TMP\_60) = 0 TMP\_61 = 2 TMP\_62 = 0 not(TMP\_62) = 1 TMP\_63 = 0 not(TMP\_63) = 1 TMP\_64 = 1 not(TMP\_64) = 0 TMP\_65 = 1 not(TMP\_65) = 0 TMP\_66 = 1 not(TMP\_66) = 0 TMP\_67 = 2 TMP\_68 = 1 not(TMP\_68) = 0 TMP\_69 = 1 not(TMP\_69) = 0 TMP\_70 = 0 not(TMP\_70) = 1 TMP\_71 = 1 not(TMP\_71) = 0 TMP\_72 = 3 TMP\_73 = 0 not(TMP\_73) = 1 TMP\_74 = 0 not(TMP\_74) = 1 TMP\_75 = 0 TMP\_76 = 1 not(TMP\_76) = 0 TMP\_77 = 1 not(TMP\_77) = 0 TMP\_78 = 2 TMP\_79 = 0 not(TMP\_79) = 1 TMP\_80 = 0 not(TMP\_80) = 1 TMP\_81 = 1 not(TMP\_81) = 0 TMP\_82 = 1 not(TMP\_82) = 0 TMP\_83 = 1 not(TMP\_83) = 0 TMP\_84 = 2 TMP\_85 = 1 not(TMP\_85) = 0 TMP\_86 = 1 not(TMP\_86) = 0 TMP\_87 = 0 not(TMP\_87) = 1 TMP\_88 = 1 not(TMP\_88) = 0 TMP\_89 = 3 TMP\_90 = 0 not(TMP\_90) = 1 TMP\_91 = 0 not(TMP\_91) = 1 TMP\_92 = 0 TMP\_93 = 1 not(TMP\_93) = 0 TMP\_94 = 1 not(TMP\_94) = 0 TMP\_95 = 2 TMP\_96 = 0 not(TMP\_96) = 1 TMP\_97 = 0 not(TMP\_97) = 1 TMP\_98 = 1 not(TMP\_98) = 0 TMP\_99 = 1 not(TMP\_99) = 0 TMP\_100 = 1 not(TMP\_100) = 0 TMP\_101 = 2 Area\_0 = 20 Distance\_0\_Rule\_0 = 1 Distance\_1\_Rule\_0 = 20 Area\_1 = 10 Distance\_0\_Rule\_1 = 1 Distance\_1\_Rule\_1 = 10 Area\_2 = 10 -(Rule\_2\_LB) = -2 Distance\_0\_Rule\_2 = 1 -(Rule\_2\_LB) = 0 Distance\_1\_Rule\_2 = 10 Area\_3 = 20 -(Rule\_3\_LB) = -1 Distance\_0\_Rule\_3 = 2 -(Rule\_3\_LB) = -10 Distance\_1\_Rule\_3 = 10 TMP\_102 = 60 .

- Complete search - 16 solution(s) found.

Solutions: 16

Building time : 0.099s

Initialisation : 0.000s

Initial propagation : 0.014s

Resolution : 0.058s

Nodes: 40 (691.7 n/s)

Backtracks: 49

Fails: 9

Restarts: 0

Max depth: 7

Memory: -3mb

Variables: 236

Constraints: 232

## Rules = 3 - Missing Rules = 1

- Solution #1 found. 1 Solutions, Resolution 0.017s, 8 Nodes (460.7 n/s), 1 Backtracks, 1 Fails, 0 Restarts

Rule\_3\_LB = 2 Rule\_3\_UB = 3 Rule\_3\_LB = 0 Rule\_3\_UB = 20 Overlaps\_0\_0 = 0 Overlaps\_0\_1 = 0 Overlaps\_0\_2 = 0 Overlaps\_0\_3 = 0 Overlaps\_1\_0 = 0 Overlaps\_1\_1 = 0 Overlaps\_1\_2 = 0 Overlaps\_1\_3 = 0 Overlaps\_2\_0 = 0 Overlaps\_2\_1 = 0 Overlaps\_2\_2 = 0 Overlaps\_2\_3 = 0 Overlaps\_3\_0 = 0 Overlaps\_3\_1 = 0 Overlaps\_3\_2 = 0 Overlaps\_3\_3 = 0 TMP\_0 = 0 not(TMP\_0) = 1 TMP\_1 = 1 not(TMP\_1) = 0 TMP\_2 = 1 not(TMP\_2) = 0 TMP\_3 = 1 not(TMP\_3) = 0 TMP\_4 = 3 TMP\_5 = 0 not(TMP\_5) = 1 TMP\_6 = 0 not(TMP\_6) = 1 TMP\_7 = 0 TMP\_8 = 1 not(TMP\_8) = 0 TMP\_9 = 1 not(TMP\_9) = 0 TMP\_10 = 2 TMP\_11 = 0 not(TMP\_11) = 1 TMP\_12 = 0 not(TMP\_12) = 1 TMP\_13 = 1 not(TMP\_13) = 0 TMP\_14 = 1 not(TMP\_14) = 0 TMP\_15 = 1 not(TMP\_15) = 0 TMP\_16 = 2 TMP\_17 = 0 not(TMP\_17) = 1 TMP\_18 = 1 not(TMP\_18) = 0 TMP\_19 = 1 not(TMP\_19) = 0 TMP\_20 = 1 not(TMP\_20) = 0 TMP\_21 = 3 TMP\_22 = 0 not(TMP\_22) = 1 TMP\_23 = 0 not(TMP\_23) = 1 TMP\_24 = 0 TMP\_25 = 1 not(TMP\_25) = 0 TMP\_26 = 1 not(TMP\_26) = 0 TMP\_27 = 2 TMP\_28 = 0 not(TMP\_28) = 1 TMP\_29 = 0 not(TMP\_29) = 1 TMP\_30 = 1 not(TMP\_30) = 0 TMP\_31 = 1 not(TMP\_31) = 0 TMP\_32 = 1 not(TMP\_32) = 0 TMP\_33 = 2 TMP\_34 = 0 not(TMP\_34) = 1 TMP\_35 = 1 not(TMP\_35) = 0 TMP\_36 = 1 not(TMP\_36) = 0 TMP\_37 = 1 not(TMP\_37) = 0 TMP\_38 = 3 TMP\_39 = 0 not(TMP\_39) = 1 TMP\_40 = 0 not(TMP\_40) = 1 TMP\_41 = 0 TMP\_42 = 1 not(TMP\_42) = 0 TMP\_43 = 1 not(TMP\_43) = 0 TMP\_44 = 2 TMP\_45 = 0 not(TMP\_45) = 1 TMP\_46 = 0 not(TMP\_46) = 1 TMP\_47 = 1 not(TMP\_47) = 0 TMP\_48 = 1 not(TMP\_48) = 0 TMP\_49 = 1 not(TMP\_49) = 0 TMP\_50 = 2 Area\_0 = 20 Distance\_0\_Rule\_0 = 1 Distance\_1\_Rule\_0 = 20 Area\_1 = 10 Distance\_0\_Rule\_1 = 1 Distance\_1\_Rule\_1 = 10 Area\_2 = 10 Distance\_0\_Rule\_2 = 1 Distance\_1\_Rule\_2 = 10 Area\_3 = 20 -(Rule\_3\_LB) = -2 Distance\_0\_Rule\_3 = 1 -(Rule\_3\_LB) = 0 Distance\_1\_Rule\_3 = 20 TMP\_51 = 60 .

- Solution #2 found. 2 Solutions, Resolution 0.021s, 9 Nodes (420.9 n/s), 2 Backtracks, 1 Fails, 0 Restarts

Rule\_3\_LB = 2 Rule\_3\_UB = 3 Rule\_3\_LB = 0 Rule\_3\_UB = 20 Overlaps\_0\_0 = 0 Overlaps\_0\_1 = 0 Overlaps\_0\_2 = 1 Overlaps\_0\_3 = 0 Overlaps\_1\_0 = 0 Overlaps\_1\_1 = 0 Overlaps\_1\_2 = 0 Overlaps\_1\_3 = 0 Overlaps\_2\_0 = 0 Overlaps\_2\_1 = 0 Overlaps\_2\_2 = 0 Overlaps\_2\_3 = 0 Overlaps\_3\_0 = 0 Overlaps\_3\_1 = 0 Overlaps\_3\_2 = 0 Overlaps\_3\_3 = 0 TMP\_0 = 0 not(TMP\_0) = 1 TMP\_1 = 1 not(TMP\_1) = 0 TMP\_2 = 1 not(TMP\_2) = 0 TMP\_3 = 1 not(TMP\_3) = 0 TMP\_4 = 3 TMP\_5 = 0 not(TMP\_5) = 1 TMP\_6 = 0 not(TMP\_6) = 1 TMP\_7 = 0 TMP\_8 = 1 not(TMP\_8) = 0 TMP\_9 = 1 not(TMP\_9) = 0 TMP\_10 = 2 TMP\_11 = 0 not(TMP\_11) = 1 TMP\_12 = 0 not(TMP\_12) = 1 TMP\_13 = 1 not(TMP\_13) = 0 TMP\_14 = 1 not(TMP\_14) = 0 TMP\_15 = 1 not(TMP\_15) = 0 TMP\_16 = 2 TMP\_17 = 0 not(TMP\_17) = 1 TMP\_18 = 1 not(TMP\_18) = 0 TMP\_19 = 1 not(TMP\_19) = 0 TMP\_20 = 1 not(TMP\_20) = 0 TMP\_21 = 3 TMP\_22 = 0 not(TMP\_22) = 1 TMP\_23 = 0 not(TMP\_23) = 1 TMP\_24 = 0 TMP\_25 = 1 not(TMP\_25) = 0 TMP\_26 = 1 not(TMP\_26) = 0 TMP\_27 = 2 TMP\_28 = 0 not(TMP\_28) = 1 TMP\_29 = 0 not(TMP\_29) = 1 TMP\_30 = 1 not(TMP\_30) = 0 TMP\_31 = 1 not(TMP\_31) = 0 TMP\_32 = 1 not(TMP\_32) = 0 TMP\_33 = 2 TMP\_34 = 0 not(TMP\_34) = 1 TMP\_35 = 1 not(TMP\_35) = 0 TMP\_36 = 1 not(TMP\_36) = 0 TMP\_37 = 1 not(TMP\_37) = 0 TMP\_38 = 3 TMP\_39 = 0 not(TMP\_39) = 1 TMP\_40 = 0 not(TMP\_40) = 1 TMP\_41 = 0 TMP\_42 = 1 not(TMP\_42) = 0 TMP\_43 = 1 not(TMP\_43) = 0 TMP\_44 = 2 TMP\_45 = 0 not(TMP\_45) = 1 TMP\_46 = 0 not(TMP\_46) = 1 TMP\_47 = 1 not(TMP\_47) = 0 TMP\_48 = 1 not(TMP\_48) = 0 TMP\_49 = 1 not(TMP\_49) = 0 TMP\_50 = 2 Area\_0 = 20 Distance\_0\_Rule\_0 = 1 Distance\_1\_Rule\_0 = 20 Area\_1 = 10 Distance\_0\_Rule\_1 = 1 Distance\_1\_Rule\_1 = 10 Area\_2 = 10 Distance\_0\_Rule\_2 = 1 Distance\_1\_Rule\_2 = 10 Area\_3 = 20 -(Rule\_3\_LB) = -2 Distance\_0\_Rule\_3 = 1 -(Rule\_3\_LB) = 0 Distance\_1\_Rule\_3 = 20 TMP\_51 = 60 .

- Solution #3 found. 3 Solutions, Resolution 0.023s, 11 Nodes (484.1 n/s), 4 Backtracks, 1 Fails, 0 Restarts

Rule\_3\_LB = 2 Rule\_3\_UB = 3 Rule\_3\_LB = 0 Rule\_3\_UB = 20 Overlaps\_0\_0 = 0 Overlaps\_0\_1 = 1 Overlaps\_0\_2 = 0 Overlaps\_0\_3 = 0 Overlaps\_1\_0 = 0 Overlaps\_1\_1 = 0 Overlaps\_1\_2 = 0 Overlaps\_1\_3 = 0 Overlaps\_2\_0 = 0 Overlaps\_2\_1 = 0 Overlaps\_2\_2 = 0 Overlaps\_2\_3 = 0 Overlaps\_3\_0 = 0 Overlaps\_3\_1 = 0 Overlaps\_3\_2 = 0 Overlaps\_3\_3 = 0 TMP\_0 = 0 not(TMP\_0) = 1 TMP\_1 = 1 not(TMP\_1) = 0 TMP\_2 = 1 not(TMP\_2) = 0 TMP\_3 = 1 not(TMP\_3) = 0 TMP\_4 = 3 TMP\_5 = 0 not(TMP\_5) = 1 TMP\_6 = 0 not(TMP\_6) = 1 TMP\_7 = 0 TMP\_8 = 1 not(TMP\_8) = 0 TMP\_9 = 1 not(TMP\_9) = 0 TMP\_10 = 2 TMP\_11 = 0 not(TMP\_11) = 1 TMP\_12 = 0 not(TMP\_12) = 1 TMP\_13 = 1 not(TMP\_13) = 0 TMP\_14 = 1 not(TMP\_14) = 0 TMP\_15 = 1 not(TMP\_15) = 0 TMP\_16 = 2 TMP\_17 = 0 not(TMP\_17) = 1 TMP\_18 = 1 not(TMP\_18) = 0 TMP\_19 = 1 not(TMP\_19) = 0 TMP\_20 = 1 not(TMP\_20) = 0 TMP\_21 = 3 TMP\_22 = 0 not(TMP\_22) = 1 TMP\_23 = 0 not(TMP\_23) = 1 TMP\_24 = 0 TMP\_25 = 1 not(TMP\_25) = 0 TMP\_26 = 1 not(TMP\_26) = 0 TMP\_27 = 2 TMP\_28 = 0 not(TMP\_28) = 1 TMP\_29 = 0 not(TMP\_29) = 1 TMP\_30 = 1 not(TMP\_30) = 0 TMP\_31 = 1 not(TMP\_31) = 0 TMP\_32 = 1 not(TMP\_32) = 0 TMP\_33 = 2 TMP\_34 = 0 not(TMP\_34) = 1 TMP\_35 = 1 not(TMP\_35) = 0 TMP\_36 = 1 not(TMP\_36) = 0 TMP\_37 = 1 not(TMP\_37) = 0 TMP\_38 = 3 TMP\_39 = 0 not(TMP\_39) = 1 TMP\_40 = 0 not(TMP\_40) = 1 TMP\_41 = 0 TMP\_42 = 1 not(TMP\_42) = 0 TMP\_43 = 1 not(TMP\_43) = 0 TMP\_44 = 2 TMP\_45 = 0 not(TMP\_45) = 1 TMP\_46 = 0 not(TMP\_46) = 1 TMP\_47 = 1 not(TMP\_47) = 0 TMP\_48 = 1 not(TMP\_48) = 0 TMP\_49 = 1 not(TMP\_49) = 0 TMP\_50 = 2 Area\_0 = 20 Distance\_0\_Rule\_0 = 1 Distance\_1\_Rule\_0 = 20 Area\_1 = 10 Distance\_0\_Rule\_1 = 1 Distance\_1\_Rule\_1 = 10 Area\_2 = 10 Distance\_0\_Rule\_2 = 1 Distance\_1\_Rule\_2 = 10 Area\_3 = 20 -(Rule\_3\_LB) = -2 Distance\_0\_Rule\_3 = 1 -(Rule\_3\_LB) = 0 Distance\_1\_Rule\_3 = 20 TMP\_51 = 60 .

- Solution #4 found. 4 Solutions, Resolution 0.024s, 12 Nodes (501.6 n/s), 5 Backtracks, 1 Fails, 0 Restarts

Rule\_3\_LB = 2 Rule\_3\_UB = 3 Rule\_3\_LB = 0 Rule\_3\_UB = 20 Overlaps\_0\_0 = 0 Overlaps\_0\_1 = 1 Overlaps\_0\_2 = 1 Overlaps\_0\_3 = 0 Overlaps\_1\_0 = 0 Overlaps\_1\_1 = 0 Overlaps\_1\_2 = 0 Overlaps\_1\_3 = 0 Overlaps\_2\_0 = 0 Overlaps\_2\_1 = 0 Overlaps\_2\_2 = 0 Overlaps\_2\_3 = 0 Overlaps\_3\_0 = 0 Overlaps\_3\_1 = 0 Overlaps\_3\_2 = 0 Overlaps\_3\_3 = 0 TMP\_0 = 0 not(TMP\_0) = 1 TMP\_1 = 1 not(TMP\_1) = 0 TMP\_2 = 1 not(TMP\_2) = 0 TMP\_3 = 1 not(TMP\_3) = 0 TMP\_4 = 3 TMP\_5 = 0 not(TMP\_5) = 1 TMP\_6 = 0 not(TMP\_6) = 1 TMP\_7 = 0 TMP\_8 = 1 not(TMP\_8) = 0 TMP\_9 = 1 not(TMP\_9) = 0 TMP\_10 = 2 TMP\_11 = 0 not(TMP\_11) = 1 TMP\_12 = 0 not(TMP\_12) = 1 TMP\_13 = 1 not(TMP\_13) = 0 TMP\_14 = 1 not(TMP\_14) = 0 TMP\_15 = 1 not(TMP\_15) = 0 TMP\_16 = 2 TMP\_17 = 0 not(TMP\_17) = 1 TMP\_18 = 1 not(TMP\_18) = 0 TMP\_19 = 1 not(TMP\_19) = 0 TMP\_20 = 1 not(TMP\_20) = 0 TMP\_21 = 3 TMP\_22 = 0 not(TMP\_22) = 1 TMP\_23 = 0 not(TMP\_23) = 1 TMP\_24 = 0 TMP\_25 = 1 not(TMP\_25) = 0 TMP\_26 = 1 not(TMP\_26) = 0 TMP\_27 = 2 TMP\_28 = 0 not(TMP\_28) = 1 TMP\_29 = 0 not(TMP\_29) = 1 TMP\_30 = 1 not(TMP\_30) = 0 TMP\_31 = 1 not(TMP\_31) = 0 TMP\_32 = 1 not(TMP\_32) = 0 TMP\_33 = 2 TMP\_34 = 0 not(TMP\_34) = 1 TMP\_35 = 1 not(TMP\_35) = 0 TMP\_36 = 1 not(TMP\_36) = 0 TMP\_37 = 1 not(TMP\_37) = 0 TMP\_38 = 3 TMP\_39 = 0 not(TMP\_39) = 1 TMP\_40 = 0 not(TMP\_40) = 1 TMP\_41 = 0 TMP\_42 = 1 not(TMP\_42) = 0 TMP\_43 = 1 not(TMP\_43) = 0 TMP\_44 = 2 TMP\_45 = 0 not(TMP\_45) = 1 TMP\_46 = 0 not(TMP\_46) = 1 TMP\_47 = 1 not(TMP\_47) = 0 TMP\_48 = 1 not(TMP\_48) = 0 TMP\_49 = 1 not(TMP\_49) = 0 TMP\_50 = 2 Area\_0 = 20 Distance\_0\_Rule\_0 = 1 Distance\_1\_Rule\_0 = 20 Area\_1 = 10 Distance\_0\_Rule\_1 = 1 Distance\_1\_Rule\_1 = 10 Area\_2 = 10 Distance\_0\_Rule\_2 = 1 Distance\_1\_Rule\_2 = 10 Area\_3 = 20 -(Rule\_3\_LB) = -2 Distance\_0\_Rule\_3 = 1 -(Rule\_3\_LB) = 0 Distance\_1\_Rule\_3 = 20 TMP\_51 = 60 .

- Solution #5 found. 5 Solutions, Resolution 0.025s, 15 Nodes (593.7 n/s), 8 Backtracks, 1 Fails, 0 Restarts

Rule\_3\_LB = 2 Rule\_3\_UB = 3 Rule\_3\_LB = 0 Rule\_3\_UB = 20 Overlaps\_0\_0 = 0 Overlaps\_0\_1 = 0 Overlaps\_0\_2 = 0 Overlaps\_0\_3 = 0 Overlaps\_1\_0 = 0 Overlaps\_1\_1 = 0 Overlaps\_1\_2 = 1 Overlaps\_1\_3 = 0 Overlaps\_2\_0 = 0 Overlaps\_2\_1 = 0 Overlaps\_2\_2 = 0 Overlaps\_2\_3 = 0 Overlaps\_3\_0 = 0 Overlaps\_3\_1 = 0 Overlaps\_3\_2 = 0 Overlaps\_3\_3 = 0 TMP\_0 = 0 not(TMP\_0) = 1 TMP\_1 = 1 not(TMP\_1) = 0 TMP\_2 = 1 not(TMP\_2) = 0 TMP\_3 = 1 not(TMP\_3) = 0 TMP\_4 = 3 TMP\_5 = 0 not(TMP\_5) = 1 TMP\_6 = 0 not(TMP\_6) = 1 TMP\_7 = 0 TMP\_8 = 1 not(TMP\_8) = 0 TMP\_9 = 1 not(TMP\_9) = 0 TMP\_10 = 2 TMP\_11 = 0 not(TMP\_11) = 1 TMP\_12 = 0 not(TMP\_12) = 1 TMP\_13 = 1 not(TMP\_13) = 0 TMP\_14 = 1 not(TMP\_14) = 0 TMP\_15 = 1 not(TMP\_15) = 0 TMP\_16 = 2 TMP\_17 = 0 not(TMP\_17) = 1 TMP\_18 = 1 not(TMP\_18) = 0 TMP\_19 = 1 not(TMP\_19) = 0 TMP\_20 = 1 not(TMP\_20) = 0 TMP\_21 = 3 TMP\_22 = 0 not(TMP\_22) = 1 TMP\_23 = 0 not(TMP\_23) = 1 TMP\_24 = 0 TMP\_25 = 1 not(TMP\_25) = 0 TMP\_26 = 1 not(TMP\_26) = 0 TMP\_27 = 2 TMP\_28 = 0 not(TMP\_28) = 1 TMP\_29 = 0 not(TMP\_29) = 1 TMP\_30 = 1 not(TMP\_30) = 0 TMP\_31 = 1 not(TMP\_31) = 0 TMP\_32 = 1 not(TMP\_32) = 0 TMP\_33 = 2 TMP\_34 = 0 not(TMP\_34) = 1 TMP\_35 = 1 not(TMP\_35) = 0 TMP\_36 = 1 not(TMP\_36) = 0 TMP\_37 = 1 not(TMP\_37) = 0 TMP\_38 = 3 TMP\_39 = 0 not(TMP\_39) = 1 TMP\_40 = 0 not(TMP\_40) = 1 TMP\_41 = 0 TMP\_42 = 1 not(TMP\_42) = 0 TMP\_43 = 1 not(TMP\_43) = 0 TMP\_44 = 2 TMP\_45 = 0 not(TMP\_45) = 1 TMP\_46 = 0 not(TMP\_46) = 1 TMP\_47 = 1 not(TMP\_47) = 0 TMP\_48 = 1 not(TMP\_48) = 0 TMP\_49 = 1 not(TMP\_49) = 0 TMP\_50 = 2 Area\_0 = 20 Distance\_0\_Rule\_0 = 1 Distance\_1\_Rule\_0 = 20 Area\_1 = 10 Distance\_0\_Rule\_1 = 1 Distance\_1\_Rule\_1 = 10 Area\_2 = 10 Distance\_0\_Rule\_2 = 1 Distance\_1\_Rule\_2 = 10 Area\_3 = 20 -(Rule\_3\_LB) = -2 Distance\_0\_Rule\_3 = 1 -(Rule\_3\_LB) = 0 Distance\_1\_Rule\_3 = 20 TMP\_51 = 60 .

- Solution #6 found. 6 Solutions, Resolution 0.026s, 16 Nodes (610.8 n/s), 9 Backtracks, 1 Fails, 0 Restarts

Rule\_3\_LB = 2 Rule\_3\_UB = 3 Rule\_3\_LB = 0 Rule\_3\_UB = 20 Overlaps\_0\_0 = 0 Overlaps\_0\_1 = 1 Overlaps\_0\_2 = 0 Overlaps\_0\_3 = 0 Overlaps\_1\_0 = 0 Overlaps\_1\_1 = 0 Overlaps\_1\_2 = 1 Overlaps\_1\_3 = 0 Overlaps\_2\_0 = 0 Overlaps\_2\_1 = 0 Overlaps\_2\_2 = 0 Overlaps\_2\_3 = 0 Overlaps\_3\_0 = 0 Overlaps\_3\_1 = 0 Overlaps\_3\_2 = 0 Overlaps\_3\_3 = 0 TMP\_0 = 0 not(TMP\_0) = 1 TMP\_1 = 1 not(TMP\_1) = 0 TMP\_2 = 1 not(TMP\_2) = 0 TMP\_3 = 1 not(TMP\_3) = 0 TMP\_4 = 3 TMP\_5 = 0 not(TMP\_5) = 1 TMP\_6 = 0 not(TMP\_6) = 1 TMP\_7 = 0 TMP\_8 = 1 not(TMP\_8) = 0 TMP\_9 = 1 not(TMP\_9) = 0 TMP\_10 = 2 TMP\_11 = 0 not(TMP\_11) = 1 TMP\_12 = 0 not(TMP\_12) = 1 TMP\_13 = 1 not(TMP\_13) = 0 TMP\_14 = 1 not(TMP\_14) = 0 TMP\_15 = 1 not(TMP\_15) = 0 TMP\_16 = 2 TMP\_17 = 0 not(TMP\_17) = 1 TMP\_18 = 1 not(TMP\_18) = 0 TMP\_19 = 1 not(TMP\_19) = 0 TMP\_20 = 1 not(TMP\_20) = 0 TMP\_21 = 3 TMP\_22 = 0 not(TMP\_22) = 1 TMP\_23 = 0 not(TMP\_23) = 1 TMP\_24 = 0 TMP\_25 = 1 not(TMP\_25) = 0 TMP\_26 = 1 not(TMP\_26) = 0 TMP\_27 = 2 TMP\_28 = 0 not(TMP\_28) = 1 TMP\_29 = 0 not(TMP\_29) = 1 TMP\_30 = 1 not(TMP\_30) = 0 TMP\_31 = 1 not(TMP\_31) = 0 TMP\_32 = 1 not(TMP\_32) = 0 TMP\_33 = 2 TMP\_34 = 0 not(TMP\_34) = 1 TMP\_35 = 1 not(TMP\_35) = 0 TMP\_36 = 1 not(TMP\_36) = 0 TMP\_37 = 1 not(TMP\_37) = 0 TMP\_38 = 3 TMP\_39 = 0 not(TMP\_39) = 1 TMP\_40 = 0 not(TMP\_40) = 1 TMP\_41 = 0 TMP\_42 = 1 not(TMP\_42) = 0 TMP\_43 = 1 not(TMP\_43) = 0 TMP\_44 = 2 TMP\_45 = 0 not(TMP\_45) = 1 TMP\_46 = 0 not(TMP\_46) = 1 TMP\_47 = 1 not(TMP\_47) = 0 TMP\_48 = 1 not(TMP\_48) = 0 TMP\_49 = 1 not(TMP\_49) = 0 TMP\_50 = 2 Area\_0 = 20 Distance\_0\_Rule\_0 = 1 Distance\_1\_Rule\_0 = 20 Area\_1 = 10 Distance\_0\_Rule\_1 = 1 Distance\_1\_Rule\_1 = 10 Area\_2 = 10 Distance\_0\_Rule\_2 = 1 Distance\_1\_Rule\_2 = 10 Area\_3 = 20 -(Rule\_3\_LB) = -2 Distance\_0\_Rule\_3 = 1 -(Rule\_3\_LB) = 0 Distance\_1\_Rule\_3 = 20 TMP\_51 = 60 .

- Solution #7 found. 7 Solutions, Resolution 0.027s, 18 Nodes (660.7 n/s), 11 Backtracks, 1 Fails, 0 Restarts

Rule\_3\_LB = 2 Rule\_3\_UB = 3 Rule\_3\_LB = 0 Rule\_3\_UB = 20 Overlaps\_0\_0 = 0 Overlaps\_0\_1 = 0 Overlaps\_0\_2 = 1 Overlaps\_0\_3 = 0 Overlaps\_1\_0 = 0 Overlaps\_1\_1 = 0 Overlaps\_1\_2 = 1 Overlaps\_1\_3 = 0 Overlaps\_2\_0 = 0 Overlaps\_2\_1 = 0 Overlaps\_2\_2 = 0 Overlaps\_2\_3 = 0 Overlaps\_3\_0 = 0 Overlaps\_3\_1 = 0 Overlaps\_3\_2 = 0 Overlaps\_3\_3 = 0 TMP\_0 = 0 not(TMP\_0) = 1 TMP\_1 = 1 not(TMP\_1) = 0 TMP\_2 = 1 not(TMP\_2) = 0 TMP\_3 = 1 not(TMP\_3) = 0 TMP\_4 = 3 TMP\_5 = 0 not(TMP\_5) = 1 TMP\_6 = 0 not(TMP\_6) = 1 TMP\_7 = 0 TMP\_8 = 1 not(TMP\_8) = 0 TMP\_9 = 1 not(TMP\_9) = 0 TMP\_10 = 2 TMP\_11 = 0 not(TMP\_11) = 1 TMP\_12 = 0 not(TMP\_12) = 1 TMP\_13 = 1 not(TMP\_13) = 0 TMP\_14 = 1 not(TMP\_14) = 0 TMP\_15 = 1 not(TMP\_15) = 0 TMP\_16 = 2 TMP\_17 = 0 not(TMP\_17) = 1 TMP\_18 = 1 not(TMP\_18) = 0 TMP\_19 = 1 not(TMP\_19) = 0 TMP\_20 = 1 not(TMP\_20) = 0 TMP\_21 = 3 TMP\_22 = 0 not(TMP\_22) = 1 TMP\_23 = 0 not(TMP\_23) = 1 TMP\_24 = 0 TMP\_25 = 1 not(TMP\_25) = 0 TMP\_26 = 1 not(TMP\_26) = 0 TMP\_27 = 2 TMP\_28 = 0 not(TMP\_28) = 1 TMP\_29 = 0 not(TMP\_29) = 1 TMP\_30 = 1 not(TMP\_30) = 0 TMP\_31 = 1 not(TMP\_31) = 0 TMP\_32 = 1 not(TMP\_32) = 0 TMP\_33 = 2 TMP\_34 = 0 not(TMP\_34) = 1 TMP\_35 = 1 not(TMP\_35) = 0 TMP\_36 = 1 not(TMP\_36) = 0 TMP\_37 = 1 not(TMP\_37) = 0 TMP\_38 = 3 TMP\_39 = 0 not(TMP\_39) = 1 TMP\_40 = 0 not(TMP\_40) = 1 TMP\_41 = 0 TMP\_42 = 1 not(TMP\_42) = 0 TMP\_43 = 1 not(TMP\_43) = 0 TMP\_44 = 2 TMP\_45 = 0 not(TMP\_45) = 1 TMP\_46 = 0 not(TMP\_46) = 1 TMP\_47 = 1 not(TMP\_47) = 0 TMP\_48 = 1 not(TMP\_48) = 0 TMP\_49 = 1 not(TMP\_49) = 0 TMP\_50 = 2 Area\_0 = 20 Distance\_0\_Rule\_0 = 1 Distance\_1\_Rule\_0 = 20 Area\_1 = 10 Distance\_0\_Rule\_1 = 1 Distance\_1\_Rule\_1 = 10 Area\_2 = 10 Distance\_0\_Rule\_2 = 1 Distance\_1\_Rule\_2 = 10 Area\_3 = 20 -(Rule\_3\_LB) = -2 Distance\_0\_Rule\_3 = 1 -(Rule\_3\_LB) = 0 Distance\_1\_Rule\_3 = 20 TMP\_51 = 60 .

- Solution #8 found. 8 Solutions, Resolution 0.028s, 19 Nodes (672.5 n/s), 12 Backtracks, 1 Fails, 0 Restarts

Rule\_3\_LB = 2 Rule\_3\_UB = 3 Rule\_3\_LB = 0 Rule\_3\_UB = 20 Overlaps\_0\_0 = 0 Overlaps\_0\_1 = 1 Overlaps\_0\_2 = 1 Overlaps\_0\_3 = 0 Overlaps\_1\_0 = 0 Overlaps\_1\_1 = 0 Overlaps\_1\_2 = 1 Overlaps\_1\_3 = 0 Overlaps\_2\_0 = 0 Overlaps\_2\_1 = 0 Overlaps\_2\_2 = 0 Overlaps\_2\_3 = 0 Overlaps\_3\_0 = 0 Overlaps\_3\_1 = 0 Overlaps\_3\_2 = 0 Overlaps\_3\_3 = 0 TMP\_0 = 0 not(TMP\_0) = 1 TMP\_1 = 1 not(TMP\_1) = 0 TMP\_2 = 1 not(TMP\_2) = 0 TMP\_3 = 1 not(TMP\_3) = 0 TMP\_4 = 3 TMP\_5 = 0 not(TMP\_5) = 1 TMP\_6 = 0 not(TMP\_6) = 1 TMP\_7 = 0 TMP\_8 = 1 not(TMP\_8) = 0 TMP\_9 = 1 not(TMP\_9) = 0 TMP\_10 = 2 TMP\_11 = 0 not(TMP\_11) = 1 TMP\_12 = 0 not(TMP\_12) = 1 TMP\_13 = 1 not(TMP\_13) = 0 TMP\_14 = 1 not(TMP\_14) = 0 TMP\_15 = 1 not(TMP\_15) = 0 TMP\_16 = 2 TMP\_17 = 0 not(TMP\_17) = 1 TMP\_18 = 1 not(TMP\_18) = 0 TMP\_19 = 1 not(TMP\_19) = 0 TMP\_20 = 1 not(TMP\_20) = 0 TMP\_21 = 3 TMP\_22 = 0 not(TMP\_22) = 1 TMP\_23 = 0 not(TMP\_23) = 1 TMP\_24 = 0 TMP\_25 = 1 not(TMP\_25) = 0 TMP\_26 = 1 not(TMP\_26) = 0 TMP\_27 = 2 TMP\_28 = 0 not(TMP\_28) = 1 TMP\_29 = 0 not(TMP\_29) = 1 TMP\_30 = 1 not(TMP\_30) = 0 TMP\_31 = 1 not(TMP\_31) = 0 TMP\_32 = 1 not(TMP\_32) = 0 TMP\_33 = 2 TMP\_34 = 0 not(TMP\_34) = 1 TMP\_35 = 1 not(TMP\_35) = 0 TMP\_36 = 1 not(TMP\_36) = 0 TMP\_37 = 1 not(TMP\_37) = 0 TMP\_38 = 3 TMP\_39 = 0 not(TMP\_39) = 1 TMP\_40 = 0 not(TMP\_40) = 1 TMP\_41 = 0 TMP\_42 = 1 not(TMP\_42) = 0 TMP\_43 = 1 not(TMP\_43) = 0 TMP\_44 = 2 TMP\_45 = 0 not(TMP\_45) = 1 TMP\_46 = 0 not(TMP\_46) = 1 TMP\_47 = 1 not(TMP\_47) = 0 TMP\_48 = 1 not(TMP\_48) = 0 TMP\_49 = 1 not(TMP\_49) = 0 TMP\_50 = 2 Area\_0 = 20 Distance\_0\_Rule\_0 = 1 Distance\_1\_Rule\_0 = 20 Area\_1 = 10 Distance\_0\_Rule\_1 = 1 Distance\_1\_Rule\_1 = 10 Area\_2 = 10 Distance\_0\_Rule\_2 = 1 Distance\_1\_Rule\_2 = 10 Area\_3 = 20 -(Rule\_3\_LB) = -2 Distance\_0\_Rule\_3 = 1 -(Rule\_3\_LB) = 0 Distance\_1\_Rule\_3 = 20 TMP\_51 = 60 .

- Solution #9 found. 9 Solutions, Resolution 0.030s, 23 Nodes (777.1 n/s), 16 Backtracks, 1 Fails, 0 Restarts

Rule\_3\_LB = 2 Rule\_3\_UB = 3 Rule\_3\_LB = 0 Rule\_3\_UB = 20 Overlaps\_0\_0 = 0 Overlaps\_0\_1 = 0 Overlaps\_0\_2 = 0 Overlaps\_0\_3 = 0 Overlaps\_1\_0 = 1 Overlaps\_1\_1 = 0 Overlaps\_1\_2 = 0 Overlaps\_1\_3 = 0 Overlaps\_2\_0 = 0 Overlaps\_2\_1 = 0 Overlaps\_2\_2 = 0 Overlaps\_2\_3 = 0 Overlaps\_3\_0 = 0 Overlaps\_3\_1 = 0 Overlaps\_3\_2 = 0 Overlaps\_3\_3 = 0 TMP\_0 = 0 not(TMP\_0) = 1 TMP\_1 = 1 not(TMP\_1) = 0 TMP\_2 = 1 not(TMP\_2) = 0 TMP\_3 = 1 not(TMP\_3) = 0 TMP\_4 = 3 TMP\_5 = 0 not(TMP\_5) = 1 TMP\_6 = 0 not(TMP\_6) = 1 TMP\_7 = 0 TMP\_8 = 1 not(TMP\_8) = 0 TMP\_9 = 1 not(TMP\_9) = 0 TMP\_10 = 2 TMP\_11 = 0 not(TMP\_11) = 1 TMP\_12 = 0 not(TMP\_12) = 1 TMP\_13 = 1 not(TMP\_13) = 0 TMP\_14 = 1 not(TMP\_14) = 0 TMP\_15 = 1 not(TMP\_15) = 0 TMP\_16 = 2 TMP\_17 = 0 not(TMP\_17) = 1 TMP\_18 = 1 not(TMP\_18) = 0 TMP\_19 = 1 not(TMP\_19) = 0 TMP\_20 = 1 not(TMP\_20) = 0 TMP\_21 = 3 TMP\_22 = 0 not(TMP\_22) = 1 TMP\_23 = 0 not(TMP\_23) = 1 TMP\_24 = 0 TMP\_25 = 1 not(TMP\_25) = 0 TMP\_26 = 1 not(TMP\_26) = 0 TMP\_27 = 2 TMP\_28 = 0 not(TMP\_28) = 1 TMP\_29 = 0 not(TMP\_29) = 1 TMP\_30 = 1 not(TMP\_30) = 0 TMP\_31 = 1 not(TMP\_31) = 0 TMP\_32 = 1 not(TMP\_32) = 0 TMP\_33 = 2 TMP\_34 = 0 not(TMP\_34) = 1 TMP\_35 = 1 not(TMP\_35) = 0 TMP\_36 = 1 not(TMP\_36) = 0 TMP\_37 = 1 not(TMP\_37) = 0 TMP\_38 = 3 TMP\_39 = 0 not(TMP\_39) = 1 TMP\_40 = 0 not(TMP\_40) = 1 TMP\_41 = 0 TMP\_42 = 1 not(TMP\_42) = 0 TMP\_43 = 1 not(TMP\_43) = 0 TMP\_44 = 2 TMP\_45 = 0 not(TMP\_45) = 1 TMP\_46 = 0 not(TMP\_46) = 1 TMP\_47 = 1 not(TMP\_47) = 0 TMP\_48 = 1 not(TMP\_48) = 0 TMP\_49 = 1 not(TMP\_49) = 0 TMP\_50 = 2 Area\_0 = 20 Distance\_0\_Rule\_0 = 1 Distance\_1\_Rule\_0 = 20 Area\_1 = 10 Distance\_0\_Rule\_1 = 1 Distance\_1\_Rule\_1 = 10 Area\_2 = 10 Distance\_0\_Rule\_2 = 1 Distance\_1\_Rule\_2 = 10 Area\_3 = 20 -(Rule\_3\_LB) = -2 Distance\_0\_Rule\_3 = 1 -(Rule\_3\_LB) = 0 Distance\_1\_Rule\_3 = 20 TMP\_51 = 60 .

- Solution #10 found. 10 Solutions, Resolution 0.031s, 24 Nodes (786.7 n/s), 17 Backtracks, 1 Fails, 0 Restarts

Rule\_3\_LB = 2 Rule\_3\_UB = 3 Rule\_3\_LB = 0 Rule\_3\_UB = 20 Overlaps\_0\_0 = 0 Overlaps\_0\_1 = 0 Overlaps\_0\_2 = 1 Overlaps\_0\_3 = 0 Overlaps\_1\_0 = 1 Overlaps\_1\_1 = 0 Overlaps\_1\_2 = 0 Overlaps\_1\_3 = 0 Overlaps\_2\_0 = 0 Overlaps\_2\_1 = 0 Overlaps\_2\_2 = 0 Overlaps\_2\_3 = 0 Overlaps\_3\_0 = 0 Overlaps\_3\_1 = 0 Overlaps\_3\_2 = 0 Overlaps\_3\_3 = 0 TMP\_0 = 0 not(TMP\_0) = 1 TMP\_1 = 1 not(TMP\_1) = 0 TMP\_2 = 1 not(TMP\_2) = 0 TMP\_3 = 1 not(TMP\_3) = 0 TMP\_4 = 3 TMP\_5 = 0 not(TMP\_5) = 1 TMP\_6 = 0 not(TMP\_6) = 1 TMP\_7 = 0 TMP\_8 = 1 not(TMP\_8) = 0 TMP\_9 = 1 not(TMP\_9) = 0 TMP\_10 = 2 TMP\_11 = 0 not(TMP\_11) = 1 TMP\_12 = 0 not(TMP\_12) = 1 TMP\_13 = 1 not(TMP\_13) = 0 TMP\_14 = 1 not(TMP\_14) = 0 TMP\_15 = 1 not(TMP\_15) = 0 TMP\_16 = 2 TMP\_17 = 0 not(TMP\_17) = 1 TMP\_18 = 1 not(TMP\_18) = 0 TMP\_19 = 1 not(TMP\_19) = 0 TMP\_20 = 1 not(TMP\_20) = 0 TMP\_21 = 3 TMP\_22 = 0 not(TMP\_22) = 1 TMP\_23 = 0 not(TMP\_23) = 1 TMP\_24 = 0 TMP\_25 = 1 not(TMP\_25) = 0 TMP\_26 = 1 not(TMP\_26) = 0 TMP\_27 = 2 TMP\_28 = 0 not(TMP\_28) = 1 TMP\_29 = 0 not(TMP\_29) = 1 TMP\_30 = 1 not(TMP\_30) = 0 TMP\_31 = 1 not(TMP\_31) = 0 TMP\_32 = 1 not(TMP\_32) = 0 TMP\_33 = 2 TMP\_34 = 0 not(TMP\_34) = 1 TMP\_35 = 1 not(TMP\_35) = 0 TMP\_36 = 1 not(TMP\_36) = 0 TMP\_37 = 1 not(TMP\_37) = 0 TMP\_38 = 3 TMP\_39 = 0 not(TMP\_39) = 1 TMP\_40 = 0 not(TMP\_40) = 1 TMP\_41 = 0 TMP\_42 = 1 not(TMP\_42) = 0 TMP\_43 = 1 not(TMP\_43) = 0 TMP\_44 = 2 TMP\_45 = 0 not(TMP\_45) = 1 TMP\_46 = 0 not(TMP\_46) = 1 TMP\_47 = 1 not(TMP\_47) = 0 TMP\_48 = 1 not(TMP\_48) = 0 TMP\_49 = 1 not(TMP\_49) = 0 TMP\_50 = 2 Area\_0 = 20 Distance\_0\_Rule\_0 = 1 Distance\_1\_Rule\_0 = 20 Area\_1 = 10 Distance\_0\_Rule\_1 = 1 Distance\_1\_Rule\_1 = 10 Area\_2 = 10 Distance\_0\_Rule\_2 = 1 Distance\_1\_Rule\_2 = 10 Area\_3 = 20 -(Rule\_3\_LB) = -2 Distance\_0\_Rule\_3 = 1 -(Rule\_3\_LB) = 0 Distance\_1\_Rule\_3 = 20 TMP\_51 = 60 .

- Solution #11 found. 11 Solutions, Resolution 0.031s, 26 Nodes (828.2 n/s), 19 Backtracks, 1 Fails, 0 Restarts

Rule\_3\_LB = 2 Rule\_3\_UB = 3 Rule\_3\_LB = 0 Rule\_3\_UB = 20 Overlaps\_0\_0 = 0 Overlaps\_0\_1 = 1 Overlaps\_0\_2 = 0 Overlaps\_0\_3 = 0 Overlaps\_1\_0 = 1 Overlaps\_1\_1 = 0 Overlaps\_1\_2 = 0 Overlaps\_1\_3 = 0 Overlaps\_2\_0 = 0 Overlaps\_2\_1 = 0 Overlaps\_2\_2 = 0 Overlaps\_2\_3 = 0 Overlaps\_3\_0 = 0 Overlaps\_3\_1 = 0 Overlaps\_3\_2 = 0 Overlaps\_3\_3 = 0 TMP\_0 = 0 not(TMP\_0) = 1 TMP\_1 = 1 not(TMP\_1) = 0 TMP\_2 = 1 not(TMP\_2) = 0 TMP\_3 = 1 not(TMP\_3) = 0 TMP\_4 = 3 TMP\_5 = 0 not(TMP\_5) = 1 TMP\_6 = 0 not(TMP\_6) = 1 TMP\_7 = 0 TMP\_8 = 1 not(TMP\_8) = 0 TMP\_9 = 1 not(TMP\_9) = 0 TMP\_10 = 2 TMP\_11 = 0 not(TMP\_11) = 1 TMP\_12 = 0 not(TMP\_12) = 1 TMP\_13 = 1 not(TMP\_13) = 0 TMP\_14 = 1 not(TMP\_14) = 0 TMP\_15 = 1 not(TMP\_15) = 0 TMP\_16 = 2 TMP\_17 = 0 not(TMP\_17) = 1 TMP\_18 = 1 not(TMP\_18) = 0 TMP\_19 = 1 not(TMP\_19) = 0 TMP\_20 = 1 not(TMP\_20) = 0 TMP\_21 = 3 TMP\_22 = 0 not(TMP\_22) = 1 TMP\_23 = 0 not(TMP\_23) = 1 TMP\_24 = 0 TMP\_25 = 1 not(TMP\_25) = 0 TMP\_26 = 1 not(TMP\_26) = 0 TMP\_27 = 2 TMP\_28 = 0 not(TMP\_28) = 1 TMP\_29 = 0 not(TMP\_29) = 1 TMP\_30 = 1 not(TMP\_30) = 0 TMP\_31 = 1 not(TMP\_31) = 0 TMP\_32 = 1 not(TMP\_32) = 0 TMP\_33 = 2 TMP\_34 = 0 not(TMP\_34) = 1 TMP\_35 = 1 not(TMP\_35) = 0 TMP\_36 = 1 not(TMP\_36) = 0 TMP\_37 = 1 not(TMP\_37) = 0 TMP\_38 = 3 TMP\_39 = 0 not(TMP\_39) = 1 TMP\_40 = 0 not(TMP\_40) = 1 TMP\_41 = 0 TMP\_42 = 1 not(TMP\_42) = 0 TMP\_43 = 1 not(TMP\_43) = 0 TMP\_44 = 2 TMP\_45 = 0 not(TMP\_45) = 1 TMP\_46 = 0 not(TMP\_46) = 1 TMP\_47 = 1 not(TMP\_47) = 0 TMP\_48 = 1 not(TMP\_48) = 0 TMP\_49 = 1 not(TMP\_49) = 0 TMP\_50 = 2 Area\_0 = 20 Distance\_0\_Rule\_0 = 1 Distance\_1\_Rule\_0 = 20 Area\_1 = 10 Distance\_0\_Rule\_1 = 1 Distance\_1\_Rule\_1 = 10 Area\_2 = 10 Distance\_0\_Rule\_2 = 1 Distance\_1\_Rule\_2 = 10 Area\_3 = 20 -(Rule\_3\_LB) = -2 Distance\_0\_Rule\_3 = 1 -(Rule\_3\_LB) = 0 Distance\_1\_Rule\_3 = 20 TMP\_51 = 60 .

- Solution #12 found. 12 Solutions, Resolution 0.032s, 27 Nodes (832.0 n/s), 20 Backtracks, 1 Fails, 0 Restarts

Rule\_3\_LB = 2 Rule\_3\_UB = 3 Rule\_3\_LB = 0 Rule\_3\_UB = 20 Overlaps\_0\_0 = 0 Overlaps\_0\_1 = 1 Overlaps\_0\_2 = 1 Overlaps\_0\_3 = 0 Overlaps\_1\_0 = 1 Overlaps\_1\_1 = 0 Overlaps\_1\_2 = 0 Overlaps\_1\_3 = 0 Overlaps\_2\_0 = 0 Overlaps\_2\_1 = 0 Overlaps\_2\_2 = 0 Overlaps\_2\_3 = 0 Overlaps\_3\_0 = 0 Overlaps\_3\_1 = 0 Overlaps\_3\_2 = 0 Overlaps\_3\_3 = 0 TMP\_0 = 0 not(TMP\_0) = 1 TMP\_1 = 1 not(TMP\_1) = 0 TMP\_2 = 1 not(TMP\_2) = 0 TMP\_3 = 1 not(TMP\_3) = 0 TMP\_4 = 3 TMP\_5 = 0 not(TMP\_5) = 1 TMP\_6 = 0 not(TMP\_6) = 1 TMP\_7 = 0 TMP\_8 = 1 not(TMP\_8) = 0 TMP\_9 = 1 not(TMP\_9) = 0 TMP\_10 = 2 TMP\_11 = 0 not(TMP\_11) = 1 TMP\_12 = 0 not(TMP\_12) = 1 TMP\_13 = 1 not(TMP\_13) = 0 TMP\_14 = 1 not(TMP\_14) = 0 TMP\_15 = 1 not(TMP\_15) = 0 TMP\_16 = 2 TMP\_17 = 0 not(TMP\_17) = 1 TMP\_18 = 1 not(TMP\_18) = 0 TMP\_19 = 1 not(TMP\_19) = 0 TMP\_20 = 1 not(TMP\_20) = 0 TMP\_21 = 3 TMP\_22 = 0 not(TMP\_22) = 1 TMP\_23 = 0 not(TMP\_23) = 1 TMP\_24 = 0 TMP\_25 = 1 not(TMP\_25) = 0 TMP\_26 = 1 not(TMP\_26) = 0 TMP\_27 = 2 TMP\_28 = 0 not(TMP\_28) = 1 TMP\_29 = 0 not(TMP\_29) = 1 TMP\_30 = 1 not(TMP\_30) = 0 TMP\_31 = 1 not(TMP\_31) = 0 TMP\_32 = 1 not(TMP\_32) = 0 TMP\_33 = 2 TMP\_34 = 0 not(TMP\_34) = 1 TMP\_35 = 1 not(TMP\_35) = 0 TMP\_36 = 1 not(TMP\_36) = 0 TMP\_37 = 1 not(TMP\_37) = 0 TMP\_38 = 3 TMP\_39 = 0 not(TMP\_39) = 1 TMP\_40 = 0 not(TMP\_40) = 1 TMP\_41 = 0 TMP\_42 = 1 not(TMP\_42) = 0 TMP\_43 = 1 not(TMP\_43) = 0 TMP\_44 = 2 TMP\_45 = 0 not(TMP\_45) = 1 TMP\_46 = 0 not(TMP\_46) = 1 TMP\_47 = 1 not(TMP\_47) = 0 TMP\_48 = 1 not(TMP\_48) = 0 TMP\_49 = 1 not(TMP\_49) = 0 TMP\_50 = 2 Area\_0 = 20 Distance\_0\_Rule\_0 = 1 Distance\_1\_Rule\_0 = 20 Area\_1 = 10 Distance\_0\_Rule\_1 = 1 Distance\_1\_Rule\_1 = 10 Area\_2 = 10 Distance\_0\_Rule\_2 = 1 Distance\_1\_Rule\_2 = 10 Area\_3 = 20 -(Rule\_3\_LB) = -2 Distance\_0\_Rule\_3 = 1 -(Rule\_3\_LB) = 0 Distance\_1\_Rule\_3 = 20 TMP\_51 = 60 .

- Solution #13 found. 13 Solutions, Resolution 0.033s, 30 Nodes (898.6 n/s), 23 Backtracks, 1 Fails, 0 Restarts

Rule\_3\_LB = 2 Rule\_3\_UB = 3 Rule\_3\_LB = 0 Rule\_3\_UB = 20 Overlaps\_0\_0 = 0 Overlaps\_0\_1 = 0 Overlaps\_0\_2 = 0 Overlaps\_0\_3 = 0 Overlaps\_1\_0 = 1 Overlaps\_1\_1 = 0 Overlaps\_1\_2 = 1 Overlaps\_1\_3 = 0 Overlaps\_2\_0 = 0 Overlaps\_2\_1 = 0 Overlaps\_2\_2 = 0 Overlaps\_2\_3 = 0 Overlaps\_3\_0 = 0 Overlaps\_3\_1 = 0 Overlaps\_3\_2 = 0 Overlaps\_3\_3 = 0 TMP\_0 = 0 not(TMP\_0) = 1 TMP\_1 = 1 not(TMP\_1) = 0 TMP\_2 = 1 not(TMP\_2) = 0 TMP\_3 = 1 not(TMP\_3) = 0 TMP\_4 = 3 TMP\_5 = 0 not(TMP\_5) = 1 TMP\_6 = 0 not(TMP\_6) = 1 TMP\_7 = 0 TMP\_8 = 1 not(TMP\_8) = 0 TMP\_9 = 1 not(TMP\_9) = 0 TMP\_10 = 2 TMP\_11 = 0 not(TMP\_11) = 1 TMP\_12 = 0 not(TMP\_12) = 1 TMP\_13 = 1 not(TMP\_13) = 0 TMP\_14 = 1 not(TMP\_14) = 0 TMP\_15 = 1 not(TMP\_15) = 0 TMP\_16 = 2 TMP\_17 = 0 not(TMP\_17) = 1 TMP\_18 = 1 not(TMP\_18) = 0 TMP\_19 = 1 not(TMP\_19) = 0 TMP\_20 = 1 not(TMP\_20) = 0 TMP\_21 = 3 TMP\_22 = 0 not(TMP\_22) = 1 TMP\_23 = 0 not(TMP\_23) = 1 TMP\_24 = 0 TMP\_25 = 1 not(TMP\_25) = 0 TMP\_26 = 1 not(TMP\_26) = 0 TMP\_27 = 2 TMP\_28 = 0 not(TMP\_28) = 1 TMP\_29 = 0 not(TMP\_29) = 1 TMP\_30 = 1 not(TMP\_30) = 0 TMP\_31 = 1 not(TMP\_31) = 0 TMP\_32 = 1 not(TMP\_32) = 0 TMP\_33 = 2 TMP\_34 = 0 not(TMP\_34) = 1 TMP\_35 = 1 not(TMP\_35) = 0 TMP\_36 = 1 not(TMP\_36) = 0 TMP\_37 = 1 not(TMP\_37) = 0 TMP\_38 = 3 TMP\_39 = 0 not(TMP\_39) = 1 TMP\_40 = 0 not(TMP\_40) = 1 TMP\_41 = 0 TMP\_42 = 1 not(TMP\_42) = 0 TMP\_43 = 1 not(TMP\_43) = 0 TMP\_44 = 2 TMP\_45 = 0 not(TMP\_45) = 1 TMP\_46 = 0 not(TMP\_46) = 1 TMP\_47 = 1 not(TMP\_47) = 0 TMP\_48 = 1 not(TMP\_48) = 0 TMP\_49 = 1 not(TMP\_49) = 0 TMP\_50 = 2 Area\_0 = 20 Distance\_0\_Rule\_0 = 1 Distance\_1\_Rule\_0 = 20 Area\_1 = 10 Distance\_0\_Rule\_1 = 1 Distance\_1\_Rule\_1 = 10 Area\_2 = 10 Distance\_0\_Rule\_2 = 1 Distance\_1\_Rule\_2 = 10 Area\_3 = 20 -(Rule\_3\_LB) = -2 Distance\_0\_Rule\_3 = 1 -(Rule\_3\_LB) = 0 Distance\_1\_Rule\_3 = 20 TMP\_51 = 60 .

- Solution #14 found. 14 Solutions, Resolution 0.034s, 31 Nodes (907.6 n/s), 24 Backtracks, 1 Fails, 0 Restarts

Rule\_3\_LB = 2 Rule\_3\_UB = 3 Rule\_3\_LB = 0 Rule\_3\_UB = 20 Overlaps\_0\_0 = 0 Overlaps\_0\_1 = 1 Overlaps\_0\_2 = 0 Overlaps\_0\_3 = 0 Overlaps\_1\_0 = 1 Overlaps\_1\_1 = 0 Overlaps\_1\_2 = 1 Overlaps\_1\_3 = 0 Overlaps\_2\_0 = 0 Overlaps\_2\_1 = 0 Overlaps\_2\_2 = 0 Overlaps\_2\_3 = 0 Overlaps\_3\_0 = 0 Overlaps\_3\_1 = 0 Overlaps\_3\_2 = 0 Overlaps\_3\_3 = 0 TMP\_0 = 0 not(TMP\_0) = 1 TMP\_1 = 1 not(TMP\_1) = 0 TMP\_2 = 1 not(TMP\_2) = 0 TMP\_3 = 1 not(TMP\_3) = 0 TMP\_4 = 3 TMP\_5 = 0 not(TMP\_5) = 1 TMP\_6 = 0 not(TMP\_6) = 1 TMP\_7 = 0 TMP\_8 = 1 not(TMP\_8) = 0 TMP\_9 = 1 not(TMP\_9) = 0 TMP\_10 = 2 TMP\_11 = 0 not(TMP\_11) = 1 TMP\_12 = 0 not(TMP\_12) = 1 TMP\_13 = 1 not(TMP\_13) = 0 TMP\_14 = 1 not(TMP\_14) = 0 TMP\_15 = 1 not(TMP\_15) = 0 TMP\_16 = 2 TMP\_17 = 0 not(TMP\_17) = 1 TMP\_18 = 1 not(TMP\_18) = 0 TMP\_19 = 1 not(TMP\_19) = 0 TMP\_20 = 1 not(TMP\_20) = 0 TMP\_21 = 3 TMP\_22 = 0 not(TMP\_22) = 1 TMP\_23 = 0 not(TMP\_23) = 1 TMP\_24 = 0 TMP\_25 = 1 not(TMP\_25) = 0 TMP\_26 = 1 not(TMP\_26) = 0 TMP\_27 = 2 TMP\_28 = 0 not(TMP\_28) = 1 TMP\_29 = 0 not(TMP\_29) = 1 TMP\_30 = 1 not(TMP\_30) = 0 TMP\_31 = 1 not(TMP\_31) = 0 TMP\_32 = 1 not(TMP\_32) = 0 TMP\_33 = 2 TMP\_34 = 0 not(TMP\_34) = 1 TMP\_35 = 1 not(TMP\_35) = 0 TMP\_36 = 1 not(TMP\_36) = 0 TMP\_37 = 1 not(TMP\_37) = 0 TMP\_38 = 3 TMP\_39 = 0 not(TMP\_39) = 1 TMP\_40 = 0 not(TMP\_40) = 1 TMP\_41 = 0 TMP\_42 = 1 not(TMP\_42) = 0 TMP\_43 = 1 not(TMP\_43) = 0 TMP\_44 = 2 TMP\_45 = 0 not(TMP\_45) = 1 TMP\_46 = 0 not(TMP\_46) = 1 TMP\_47 = 1 not(TMP\_47) = 0 TMP\_48 = 1 not(TMP\_48) = 0 TMP\_49 = 1 not(TMP\_49) = 0 TMP\_50 = 2 Area\_0 = 20 Distance\_0\_Rule\_0 = 1 Distance\_1\_Rule\_0 = 20 Area\_1 = 10 Distance\_0\_Rule\_1 = 1 Distance\_1\_Rule\_1 = 10 Area\_2 = 10 Distance\_0\_Rule\_2 = 1 Distance\_1\_Rule\_2 = 10 Area\_3 = 20 -(Rule\_3\_LB) = -2 Distance\_0\_Rule\_3 = 1 -(Rule\_3\_LB) = 0 Distance\_1\_Rule\_3 = 20 TMP\_51 = 60 .

- Solution #15 found. 15 Solutions, Resolution 0.035s, 33 Nodes (932.4 n/s), 26 Backtracks, 1 Fails, 0 Restarts

Rule\_3\_LB = 2 Rule\_3\_UB = 3 Rule\_3\_LB = 0 Rule\_3\_UB = 20 Overlaps\_0\_0 = 0 Overlaps\_0\_1 = 0 Overlaps\_0\_2 = 1 Overlaps\_0\_3 = 0 Overlaps\_1\_0 = 1 Overlaps\_1\_1 = 0 Overlaps\_1\_2 = 1 Overlaps\_1\_3 = 0 Overlaps\_2\_0 = 0 Overlaps\_2\_1 = 0 Overlaps\_2\_2 = 0 Overlaps\_2\_3 = 0 Overlaps\_3\_0 = 0 Overlaps\_3\_1 = 0 Overlaps\_3\_2 = 0 Overlaps\_3\_3 = 0 TMP\_0 = 0 not(TMP\_0) = 1 TMP\_1 = 1 not(TMP\_1) = 0 TMP\_2 = 1 not(TMP\_2) = 0 TMP\_3 = 1 not(TMP\_3) = 0 TMP\_4 = 3 TMP\_5 = 0 not(TMP\_5) = 1 TMP\_6 = 0 not(TMP\_6) = 1 TMP\_7 = 0 TMP\_8 = 1 not(TMP\_8) = 0 TMP\_9 = 1 not(TMP\_9) = 0 TMP\_10 = 2 TMP\_11 = 0 not(TMP\_11) = 1 TMP\_12 = 0 not(TMP\_12) = 1 TMP\_13 = 1 not(TMP\_13) = 0 TMP\_14 = 1 not(TMP\_14) = 0 TMP\_15 = 1 not(TMP\_15) = 0 TMP\_16 = 2 TMP\_17 = 0 not(TMP\_17) = 1 TMP\_18 = 1 not(TMP\_18) = 0 TMP\_19 = 1 not(TMP\_19) = 0 TMP\_20 = 1 not(TMP\_20) = 0 TMP\_21 = 3 TMP\_22 = 0 not(TMP\_22) = 1 TMP\_23 = 0 not(TMP\_23) = 1 TMP\_24 = 0 TMP\_25 = 1 not(TMP\_25) = 0 TMP\_26 = 1 not(TMP\_26) = 0 TMP\_27 = 2 TMP\_28 = 0 not(TMP\_28) = 1 TMP\_29 = 0 not(TMP\_29) = 1 TMP\_30 = 1 not(TMP\_30) = 0 TMP\_31 = 1 not(TMP\_31) = 0 TMP\_32 = 1 not(TMP\_32) = 0 TMP\_33 = 2 TMP\_34 = 0 not(TMP\_34) = 1 TMP\_35 = 1 not(TMP\_35) = 0 TMP\_36 = 1 not(TMP\_36) = 0 TMP\_37 = 1 not(TMP\_37) = 0 TMP\_38 = 3 TMP\_39 = 0 not(TMP\_39) = 1 TMP\_40 = 0 not(TMP\_40) = 1 TMP\_41 = 0 TMP\_42 = 1 not(TMP\_42) = 0 TMP\_43 = 1 not(TMP\_43) = 0 TMP\_44 = 2 TMP\_45 = 0 not(TMP\_45) = 1 TMP\_46 = 0 not(TMP\_46) = 1 TMP\_47 = 1 not(TMP\_47) = 0 TMP\_48 = 1 not(TMP\_48) = 0 TMP\_49 = 1 not(TMP\_49) = 0 TMP\_50 = 2 Area\_0 = 20 Distance\_0\_Rule\_0 = 1 Distance\_1\_Rule\_0 = 20 Area\_1 = 10 Distance\_0\_Rule\_1 = 1 Distance\_1\_Rule\_1 = 10 Area\_2 = 10 Distance\_0\_Rule\_2 = 1 Distance\_1\_Rule\_2 = 10 Area\_3 = 20 -(Rule\_3\_LB) = -2 Distance\_0\_Rule\_3 = 1 -(Rule\_3\_LB) = 0 Distance\_1\_Rule\_3 = 20 TMP\_51 = 60 .

- Solution #16 found. 16 Solutions, Resolution 0.037s, 34 Nodes (919.9 n/s), 27 Backtracks, 1 Fails, 0 Restarts

Rule\_3\_LB = 2 Rule\_3\_UB = 3 Rule\_3\_LB = 0 Rule\_3\_UB = 20 Overlaps\_0\_0 = 0 Overlaps\_0\_1 = 1 Overlaps\_0\_2 = 1 Overlaps\_0\_3 = 0 Overlaps\_1\_0 = 1 Overlaps\_1\_1 = 0 Overlaps\_1\_2 = 1 Overlaps\_1\_3 = 0 Overlaps\_2\_0 = 0 Overlaps\_2\_1 = 0 Overlaps\_2\_2 = 0 Overlaps\_2\_3 = 0 Overlaps\_3\_0 = 0 Overlaps\_3\_1 = 0 Overlaps\_3\_2 = 0 Overlaps\_3\_3 = 0 TMP\_0 = 0 not(TMP\_0) = 1 TMP\_1 = 1 not(TMP\_1) = 0 TMP\_2 = 1 not(TMP\_2) = 0 TMP\_3 = 1 not(TMP\_3) = 0 TMP\_4 = 3 TMP\_5 = 0 not(TMP\_5) = 1 TMP\_6 = 0 not(TMP\_6) = 1 TMP\_7 = 0 TMP\_8 = 1 not(TMP\_8) = 0 TMP\_9 = 1 not(TMP\_9) = 0 TMP\_10 = 2 TMP\_11 = 0 not(TMP\_11) = 1 TMP\_12 = 0 not(TMP\_12) = 1 TMP\_13 = 1 not(TMP\_13) = 0 TMP\_14 = 1 not(TMP\_14) = 0 TMP\_15 = 1 not(TMP\_15) = 0 TMP\_16 = 2 TMP\_17 = 0 not(TMP\_17) = 1 TMP\_18 = 1 not(TMP\_18) = 0 TMP\_19 = 1 not(TMP\_19) = 0 TMP\_20 = 1 not(TMP\_20) = 0 TMP\_21 = 3 TMP\_22 = 0 not(TMP\_22) = 1 TMP\_23 = 0 not(TMP\_23) = 1 TMP\_24 = 0 TMP\_25 = 1 not(TMP\_25) = 0 TMP\_26 = 1 not(TMP\_26) = 0 TMP\_27 = 2 TMP\_28 = 0 not(TMP\_28) = 1 TMP\_29 = 0 not(TMP\_29) = 1 TMP\_30 = 1 not(TMP\_30) = 0 TMP\_31 = 1 not(TMP\_31) = 0 TMP\_32 = 1 not(TMP\_32) = 0 TMP\_33 = 2 TMP\_34 = 0 not(TMP\_34) = 1 TMP\_35 = 1 not(TMP\_35) = 0 TMP\_36 = 1 not(TMP\_36) = 0 TMP\_37 = 1 not(TMP\_37) = 0 TMP\_38 = 3 TMP\_39 = 0 not(TMP\_39) = 1 TMP\_40 = 0 not(TMP\_40) = 1 TMP\_41 = 0 TMP\_42 = 1 not(TMP\_42) = 0 TMP\_43 = 1 not(TMP\_43) = 0 TMP\_44 = 2 TMP\_45 = 0 not(TMP\_45) = 1 TMP\_46 = 0 not(TMP\_46) = 1 TMP\_47 = 1 not(TMP\_47) = 0 TMP\_48 = 1 not(TMP\_48) = 0 TMP\_49 = 1 not(TMP\_49) = 0 TMP\_50 = 2 Area\_0 = 20 Distance\_0\_Rule\_0 = 1 Distance\_1\_Rule\_0 = 20 Area\_1 = 10 Distance\_0\_Rule\_1 = 1 Distance\_1\_Rule\_1 = 10 Area\_2 = 10 Distance\_0\_Rule\_2 = 1 Distance\_1\_Rule\_2 = 10 Area\_3 = 20 -(Rule\_3\_LB) = -2 Distance\_0\_Rule\_3 = 1 -(Rule\_3\_LB) = 0 Distance\_1\_Rule\_3 = 20 TMP\_51 = 60 .

- Solution #17 found. 17 Solutions, Resolution 0.039s, 39 Nodes (1,011.7 n/s), 32 Backtracks, 1 Fails, 0 Restarts

Rule\_3\_LB = 2 Rule\_3\_UB = 3 Rule\_3\_LB = 0 Rule\_3\_UB = 20 Overlaps\_0\_0 = 0 Overlaps\_0\_1 = 0 Overlaps\_0\_2 = 0 Overlaps\_0\_3 = 0 Overlaps\_1\_0 = 0 Overlaps\_1\_1 = 0 Overlaps\_1\_2 = 0 Overlaps\_1\_3 = 0 Overlaps\_2\_0 = 0 Overlaps\_2\_1 = 1 Overlaps\_2\_2 = 0 Overlaps\_2\_3 = 0 Overlaps\_3\_0 = 0 Overlaps\_3\_1 = 0 Overlaps\_3\_2 = 0 Overlaps\_3\_3 = 0 TMP\_0 = 0 not(TMP\_0) = 1 TMP\_1 = 1 not(TMP\_1) = 0 TMP\_2 = 1 not(TMP\_2) = 0 TMP\_3 = 1 not(TMP\_3) = 0 TMP\_4 = 3 TMP\_5 = 0 not(TMP\_5) = 1 TMP\_6 = 0 not(TMP\_6) = 1 TMP\_7 = 0 TMP\_8 = 1 not(TMP\_8) = 0 TMP\_9 = 1 not(TMP\_9) = 0 TMP\_10 = 2 TMP\_11 = 0 not(TMP\_11) = 1 TMP\_12 = 0 not(TMP\_12) = 1 TMP\_13 = 1 not(TMP\_13) = 0 TMP\_14 = 1 not(TMP\_14) = 0 TMP\_15 = 1 not(TMP\_15) = 0 TMP\_16 = 2 TMP\_17 = 0 not(TMP\_17) = 1 TMP\_18 = 1 not(TMP\_18) = 0 TMP\_19 = 1 not(TMP\_19) = 0 TMP\_20 = 1 not(TMP\_20) = 0 TMP\_21 = 3 TMP\_22 = 0 not(TMP\_22) = 1 TMP\_23 = 0 not(TMP\_23) = 1 TMP\_24 = 0 TMP\_25 = 1 not(TMP\_25) = 0 TMP\_26 = 1 not(TMP\_26) = 0 TMP\_27 = 2 TMP\_28 = 0 not(TMP\_28) = 1 TMP\_29 = 0 not(TMP\_29) = 1 TMP\_30 = 1 not(TMP\_30) = 0 TMP\_31 = 1 not(TMP\_31) = 0 TMP\_32 = 1 not(TMP\_32) = 0 TMP\_33 = 2 TMP\_34 = 0 not(TMP\_34) = 1 TMP\_35 = 1 not(TMP\_35) = 0 TMP\_36 = 1 not(TMP\_36) = 0 TMP\_37 = 1 not(TMP\_37) = 0 TMP\_38 = 3 TMP\_39 = 0 not(TMP\_39) = 1 TMP\_40 = 0 not(TMP\_40) = 1 TMP\_41 = 0 TMP\_42 = 1 not(TMP\_42) = 0 TMP\_43 = 1 not(TMP\_43) = 0 TMP\_44 = 2 TMP\_45 = 0 not(TMP\_45) = 1 TMP\_46 = 0 not(TMP\_46) = 1 TMP\_47 = 1 not(TMP\_47) = 0 TMP\_48 = 1 not(TMP\_48) = 0 TMP\_49 = 1 not(TMP\_49) = 0 TMP\_50 = 2 Area\_0 = 20 Distance\_0\_Rule\_0 = 1 Distance\_1\_Rule\_0 = 20 Area\_1 = 10 Distance\_0\_Rule\_1 = 1 Distance\_1\_Rule\_1 = 10 Area\_2 = 10 Distance\_0\_Rule\_2 = 1 Distance\_1\_Rule\_2 = 10 Area\_3 = 20 -(Rule\_3\_LB) = -2 Distance\_0\_Rule\_3 = 1 -(Rule\_3\_LB) = 0 Distance\_1\_Rule\_3 = 20 TMP\_51 = 60 .

- Solution #18 found. 18 Solutions, Resolution 0.040s, 40 Nodes (1,006.6 n/s), 33 Backtracks, 1 Fails, 0 Restarts

Rule\_3\_LB = 2 Rule\_3\_UB = 3 Rule\_3\_LB = 0 Rule\_3\_UB = 20 Overlaps\_0\_0 = 0 Overlaps\_0\_1 = 0 Overlaps\_0\_2 = 1 Overlaps\_0\_3 = 0 Overlaps\_1\_0 = 0 Overlaps\_1\_1 = 0 Overlaps\_1\_2 = 0 Overlaps\_1\_3 = 0 Overlaps\_2\_0 = 0 Overlaps\_2\_1 = 1 Overlaps\_2\_2 = 0 Overlaps\_2\_3 = 0 Overlaps\_3\_0 = 0 Overlaps\_3\_1 = 0 Overlaps\_3\_2 = 0 Overlaps\_3\_3 = 0 TMP\_0 = 0 not(TMP\_0) = 1 TMP\_1 = 1 not(TMP\_1) = 0 TMP\_2 = 1 not(TMP\_2) = 0 TMP\_3 = 1 not(TMP\_3) = 0 TMP\_4 = 3 TMP\_5 = 0 not(TMP\_5) = 1 TMP\_6 = 0 not(TMP\_6) = 1 TMP\_7 = 0 TMP\_8 = 1 not(TMP\_8) = 0 TMP\_9 = 1 not(TMP\_9) = 0 TMP\_10 = 2 TMP\_11 = 0 not(TMP\_11) = 1 TMP\_12 = 0 not(TMP\_12) = 1 TMP\_13 = 1 not(TMP\_13) = 0 TMP\_14 = 1 not(TMP\_14) = 0 TMP\_15 = 1 not(TMP\_15) = 0 TMP\_16 = 2 TMP\_17 = 0 not(TMP\_17) = 1 TMP\_18 = 1 not(TMP\_18) = 0 TMP\_19 = 1 not(TMP\_19) = 0 TMP\_20 = 1 not(TMP\_20) = 0 TMP\_21 = 3 TMP\_22 = 0 not(TMP\_22) = 1 TMP\_23 = 0 not(TMP\_23) = 1 TMP\_24 = 0 TMP\_25 = 1 not(TMP\_25) = 0 TMP\_26 = 1 not(TMP\_26) = 0 TMP\_27 = 2 TMP\_28 = 0 not(TMP\_28) = 1 TMP\_29 = 0 not(TMP\_29) = 1 TMP\_30 = 1 not(TMP\_30) = 0 TMP\_31 = 1 not(TMP\_31) = 0 TMP\_32 = 1 not(TMP\_32) = 0 TMP\_33 = 2 TMP\_34 = 0 not(TMP\_34) = 1 TMP\_35 = 1 not(TMP\_35) = 0 TMP\_36 = 1 not(TMP\_36) = 0 TMP\_37 = 1 not(TMP\_37) = 0 TMP\_38 = 3 TMP\_39 = 0 not(TMP\_39) = 1 TMP\_40 = 0 not(TMP\_40) = 1 TMP\_41 = 0 TMP\_42 = 1 not(TMP\_42) = 0 TMP\_43 = 1 not(TMP\_43) = 0 TMP\_44 = 2 TMP\_45 = 0 not(TMP\_45) = 1 TMP\_46 = 0 not(TMP\_46) = 1 TMP\_47 = 1 not(TMP\_47) = 0 TMP\_48 = 1 not(TMP\_48) = 0 TMP\_49 = 1 not(TMP\_49) = 0 TMP\_50 = 2 Area\_0 = 20 Distance\_0\_Rule\_0 = 1 Distance\_1\_Rule\_0 = 20 Area\_1 = 10 Distance\_0\_Rule\_1 = 1 Distance\_1\_Rule\_1 = 10 Area\_2 = 10 Distance\_0\_Rule\_2 = 1 Distance\_1\_Rule\_2 = 10 Area\_3 = 20 -(Rule\_3\_LB) = -2 Distance\_0\_Rule\_3 = 1 -(Rule\_3\_LB) = 0 Distance\_1\_Rule\_3 = 20 TMP\_51 = 60 .

- Solution #19 found. 19 Solutions, Resolution 0.041s, 42 Nodes (1,036.6 n/s), 35 Backtracks, 1 Fails, 0 Restarts

Rule\_3\_LB = 2 Rule\_3\_UB = 3 Rule\_3\_LB = 0 Rule\_3\_UB = 20 Overlaps\_0\_0 = 0 Overlaps\_0\_1 = 1 Overlaps\_0\_2 = 0 Overlaps\_0\_3 = 0 Overlaps\_1\_0 = 0 Overlaps\_1\_1 = 0 Overlaps\_1\_2 = 0 Overlaps\_1\_3 = 0 Overlaps\_2\_0 = 0 Overlaps\_2\_1 = 1 Overlaps\_2\_2 = 0 Overlaps\_2\_3 = 0 Overlaps\_3\_0 = 0 Overlaps\_3\_1 = 0 Overlaps\_3\_2 = 0 Overlaps\_3\_3 = 0 TMP\_0 = 0 not(TMP\_0) = 1 TMP\_1 = 1 not(TMP\_1) = 0 TMP\_2 = 1 not(TMP\_2) = 0 TMP\_3 = 1 not(TMP\_3) = 0 TMP\_4 = 3 TMP\_5 = 0 not(TMP\_5) = 1 TMP\_6 = 0 not(TMP\_6) = 1 TMP\_7 = 0 TMP\_8 = 1 not(TMP\_8) = 0 TMP\_9 = 1 not(TMP\_9) = 0 TMP\_10 = 2 TMP\_11 = 0 not(TMP\_11) = 1 TMP\_12 = 0 not(TMP\_12) = 1 TMP\_13 = 1 not(TMP\_13) = 0 TMP\_14 = 1 not(TMP\_14) = 0 TMP\_15 = 1 not(TMP\_15) = 0 TMP\_16 = 2 TMP\_17 = 0 not(TMP\_17) = 1 TMP\_18 = 1 not(TMP\_18) = 0 TMP\_19 = 1 not(TMP\_19) = 0 TMP\_20 = 1 not(TMP\_20) = 0 TMP\_21 = 3 TMP\_22 = 0 not(TMP\_22) = 1 TMP\_23 = 0 not(TMP\_23) = 1 TMP\_24 = 0 TMP\_25 = 1 not(TMP\_25) = 0 TMP\_26 = 1 not(TMP\_26) = 0 TMP\_27 = 2 TMP\_28 = 0 not(TMP\_28) = 1 TMP\_29 = 0 not(TMP\_29) = 1 TMP\_30 = 1 not(TMP\_30) = 0 TMP\_31 = 1 not(TMP\_31) = 0 TMP\_32 = 1 not(TMP\_32) = 0 TMP\_33 = 2 TMP\_34 = 0 not(TMP\_34) = 1 TMP\_35 = 1 not(TMP\_35) = 0 TMP\_36 = 1 not(TMP\_36) = 0 TMP\_37 = 1 not(TMP\_37) = 0 TMP\_38 = 3 TMP\_39 = 0 not(TMP\_39) = 1 TMP\_40 = 0 not(TMP\_40) = 1 TMP\_41 = 0 TMP\_42 = 1 not(TMP\_42) = 0 TMP\_43 = 1 not(TMP\_43) = 0 TMP\_44 = 2 TMP\_45 = 0 not(TMP\_45) = 1 TMP\_46 = 0 not(TMP\_46) = 1 TMP\_47 = 1 not(TMP\_47) = 0 TMP\_48 = 1 not(TMP\_48) = 0 TMP\_49 = 1 not(TMP\_49) = 0 TMP\_50 = 2 Area\_0 = 20 Distance\_0\_Rule\_0 = 1 Distance\_1\_Rule\_0 = 20 Area\_1 = 10 Distance\_0\_Rule\_1 = 1 Distance\_1\_Rule\_1 = 10 Area\_2 = 10 Distance\_0\_Rule\_2 = 1 Distance\_1\_Rule\_2 = 10 Area\_3 = 20 -(Rule\_3\_LB) = -2 Distance\_0\_Rule\_3 = 1 -(Rule\_3\_LB) = 0 Distance\_1\_Rule\_3 = 20 TMP\_51 = 60 .

- Solution #20 found. 20 Solutions, Resolution 0.041s, 43 Nodes (1,043.3 n/s), 36 Backtracks, 1 Fails, 0 Restarts

Rule\_3\_LB = 2 Rule\_3\_UB = 3 Rule\_3\_LB = 0 Rule\_3\_UB = 20 Overlaps\_0\_0 = 0 Overlaps\_0\_1 = 1 Overlaps\_0\_2 = 1 Overlaps\_0\_3 = 0 Overlaps\_1\_0 = 0 Overlaps\_1\_1 = 0 Overlaps\_1\_2 = 0 Overlaps\_1\_3 = 0 Overlaps\_2\_0 = 0 Overlaps\_2\_1 = 1 Overlaps\_2\_2 = 0 Overlaps\_2\_3 = 0 Overlaps\_3\_0 = 0 Overlaps\_3\_1 = 0 Overlaps\_3\_2 = 0 Overlaps\_3\_3 = 0 TMP\_0 = 0 not(TMP\_0) = 1 TMP\_1 = 1 not(TMP\_1) = 0 TMP\_2 = 1 not(TMP\_2) = 0 TMP\_3 = 1 not(TMP\_3) = 0 TMP\_4 = 3 TMP\_5 = 0 not(TMP\_5) = 1 TMP\_6 = 0 not(TMP\_6) = 1 TMP\_7 = 0 TMP\_8 = 1 not(TMP\_8) = 0 TMP\_9 = 1 not(TMP\_9) = 0 TMP\_10 = 2 TMP\_11 = 0 not(TMP\_11) = 1 TMP\_12 = 0 not(TMP\_12) = 1 TMP\_13 = 1 not(TMP\_13) = 0 TMP\_14 = 1 not(TMP\_14) = 0 TMP\_15 = 1 not(TMP\_15) = 0 TMP\_16 = 2 TMP\_17 = 0 not(TMP\_17) = 1 TMP\_18 = 1 not(TMP\_18) = 0 TMP\_19 = 1 not(TMP\_19) = 0 TMP\_20 = 1 not(TMP\_20) = 0 TMP\_21 = 3 TMP\_22 = 0 not(TMP\_22) = 1 TMP\_23 = 0 not(TMP\_23) = 1 TMP\_24 = 0 TMP\_25 = 1 not(TMP\_25) = 0 TMP\_26 = 1 not(TMP\_26) = 0 TMP\_27 = 2 TMP\_28 = 0 not(TMP\_28) = 1 TMP\_29 = 0 not(TMP\_29) = 1 TMP\_30 = 1 not(TMP\_30) = 0 TMP\_31 = 1 not(TMP\_31) = 0 TMP\_32 = 1 not(TMP\_32) = 0 TMP\_33 = 2 TMP\_34 = 0 not(TMP\_34) = 1 TMP\_35 = 1 not(TMP\_35) = 0 TMP\_36 = 1 not(TMP\_36) = 0 TMP\_37 = 1 not(TMP\_37) = 0 TMP\_38 = 3 TMP\_39 = 0 not(TMP\_39) = 1 TMP\_40 = 0 not(TMP\_40) = 1 TMP\_41 = 0 TMP\_42 = 1 not(TMP\_42) = 0 TMP\_43 = 1 not(TMP\_43) = 0 TMP\_44 = 2 TMP\_45 = 0 not(TMP\_45) = 1 TMP\_46 = 0 not(TMP\_46) = 1 TMP\_47 = 1 not(TMP\_47) = 0 TMP\_48 = 1 not(TMP\_48) = 0 TMP\_49 = 1 not(TMP\_49) = 0 TMP\_50 = 2 Area\_0 = 20 Distance\_0\_Rule\_0 = 1 Distance\_1\_Rule\_0 = 20 Area\_1 = 10 Distance\_0\_Rule\_1 = 1 Distance\_1\_Rule\_1 = 10 Area\_2 = 10 Distance\_0\_Rule\_2 = 1 Distance\_1\_Rule\_2 = 10 Area\_3 = 20 -(Rule\_3\_LB) = -2 Distance\_0\_Rule\_3 = 1 -(Rule\_3\_LB) = 0 Distance\_1\_Rule\_3 = 20 TMP\_51 = 60 .

- Incomplete search - Limit reached.

Solutions: 20

Building time : 0.090s

Initialisation : 0.000s

Initial propagation : 0.014s

Resolution : 0.042s

Nodes: 43 (1,026.7 n/s)

Backtracks: 36

Fails: 1

Restarts: 0

Max depth: 7

Memory: -2mb

Variables: 146

Constraints: 133