\\* Extended1 \*\

Minimize

OBJ: 52 inbound\_('DC\_1',\_'plant\_1') + 105 inbound\_('DC\_1',\_'plant\_2')

+ 123 inbound\_('DC\_1',\_'plant\_3') + 97 inbound\_('DC\_2',\_'plant\_1')

+ 64 inbound\_('DC\_2',\_'plant\_2') + 73 inbound\_('DC\_2',\_'plant\_3')

+ 108 inbound\_('DC\_3',\_'plant\_1') + 76 inbound\_('DC\_3',\_'plant\_2')

+ 106 inbound\_('DC\_3',\_'plant\_3') + 113 inbound\_('DC\_4',\_'plant\_1')

+ 142 inbound\_('DC\_4',\_'plant\_2') + 133 inbound\_('DC\_4',\_'plant\_3')

+ 73 inbound\_('DC\_5',\_'plant\_1') + 78 inbound\_('DC\_5',\_'plant\_2')

+ 76 inbound\_('DC\_5',\_'plant\_3') + 125 inbound\_('DC\_6',\_'plant\_1')

+ 100 inbound\_('DC\_6',\_'plant\_2') + 141 inbound\_('DC\_6',\_'plant\_3')

+ 87 inbound\_('DC\_7',\_'plant\_1') + 106 inbound\_('DC\_7',\_'plant\_2')

+ 110 inbound\_('DC\_7',\_'plant\_3') + 63 inbound\_('DC\_8',\_'plant\_1')

+ 114 inbound\_('DC\_8',\_'plant\_2') + 86 inbound\_('DC\_8',\_'plant\_3')

+ 121 inbound\_('DC\_9',\_'plant\_1') + 99 inbound\_('DC\_9',\_'plant\_2')

+ 131 inbound\_('DC\_9',\_'plant\_3') + 20000 open\_dc\_DC\_1 + 22000 open\_dc\_DC\_2

+ 40000 open\_dc\_DC\_3 + 50000 open\_dc\_DC\_4 + 60000 open\_dc\_DC\_5

+ 12000 open\_dc\_DC\_6 + 18000 open\_dc\_DC\_7 + 70000 open\_dc\_DC\_8

+ 65000 open\_dc\_DC\_9 + 40000 open\_p\_plant\_1 + 60000 open\_p\_plant\_2

+ 50000 open\_p\_plant\_3 + 98 outbound\_('DC\_1',\_'Shop\_1')

+ 71 outbound\_('DC\_1',\_'Shop\_10') + 71 outbound\_('DC\_1',\_'Shop\_11')

+ 41 outbound\_('DC\_1',\_'Shop\_12') + 103 outbound\_('DC\_1',\_'Shop\_3')

+ 117 outbound\_('DC\_1',\_'Shop\_4') + 94 outbound\_('DC\_1',\_'Shop\_5')

+ 116 outbound\_('DC\_1',\_'Shop\_6') + 75 outbound\_('DC\_1',\_'Shop\_7')

+ 104 outbound\_('DC\_1',\_'Shop\_8') + 103 outbound\_('DC\_1',\_'Shop\_9')

+ 67 outbound\_('DC\_1',\_'shop\_2') + 109 outbound\_('DC\_2',\_'Shop\_1')

+ 98 outbound\_('DC\_2',\_'Shop\_10') + 44 outbound\_('DC\_2',\_'Shop\_11')

+ 43 outbound\_('DC\_2',\_'Shop\_12') + 114 outbound\_('DC\_2',\_'Shop\_3')

+ 50 outbound\_('DC\_2',\_'Shop\_4') + 64 outbound\_('DC\_2',\_'Shop\_5')

+ 53 outbound\_('DC\_2',\_'Shop\_6') + 46 outbound\_('DC\_2',\_'Shop\_7')

+ 62 outbound\_('DC\_2',\_'Shop\_8') + 50 outbound\_('DC\_2',\_'Shop\_9')

+ 85 outbound\_('DC\_2',\_'shop\_2') + 57 outbound\_('DC\_3',\_'Shop\_1')

+ 62 outbound\_('DC\_3',\_'Shop\_10') + 43 outbound\_('DC\_3',\_'Shop\_11')

+ 118 outbound\_('DC\_3',\_'Shop\_12') + 57 outbound\_('DC\_3',\_'Shop\_3')

+ 119 outbound\_('DC\_3',\_'Shop\_4') + 53 outbound\_('DC\_3',\_'Shop\_5')

+ 63 outbound\_('DC\_3',\_'Shop\_6') + 106 outbound\_('DC\_3',\_'Shop\_7')

+ 74 outbound\_('DC\_3',\_'Shop\_8') + 75 outbound\_('DC\_3',\_'Shop\_9')

+ 116 outbound\_('DC\_3',\_'shop\_2') + 113 outbound\_('DC\_4',\_'Shop\_1')

+ 70 outbound\_('DC\_4',\_'Shop\_10') + 67 outbound\_('DC\_4',\_'Shop\_11')

+ 52 outbound\_('DC\_4',\_'Shop\_12') + 92 outbound\_('DC\_4',\_'Shop\_3')

+ 80 outbound\_('DC\_4',\_'Shop\_4') + 56 outbound\_('DC\_4',\_'Shop\_5')

+ 77 outbound\_('DC\_4',\_'Shop\_6') + 55 outbound\_('DC\_4',\_'Shop\_7')

+ 80 outbound\_('DC\_4',\_'Shop\_8') + 92 outbound\_('DC\_4',\_'Shop\_9')

+ 57 outbound\_('DC\_4',\_'shop\_2') + 84 outbound\_('DC\_5',\_'Shop\_1')

+ 67 outbound\_('DC\_5',\_'Shop\_10') + 89 outbound\_('DC\_5',\_'Shop\_11')

+ 102 outbound\_('DC\_5',\_'Shop\_12') + 91 outbound\_('DC\_5',\_'Shop\_3')

+ 77 outbound\_('DC\_5',\_'Shop\_4') + 98 outbound\_('DC\_5',\_'Shop\_5')

+ 85 outbound\_('DC\_5',\_'Shop\_6') + 46 outbound\_('DC\_5',\_'Shop\_7')

+ 58 outbound\_('DC\_5',\_'Shop\_8') + 112 outbound\_('DC\_5',\_'Shop\_9')

+ 73 outbound\_('DC\_5',\_'shop\_2') + 101 outbound\_('DC\_6',\_'Shop\_1')

+ 111 outbound\_('DC\_6',\_'Shop\_10') + 49 outbound\_('DC\_6',\_'Shop\_11')

+ 46 outbound\_('DC\_6',\_'Shop\_12') + 85 outbound\_('DC\_6',\_'Shop\_3')

+ 92 outbound\_('DC\_6',\_'Shop\_4') + 43 outbound\_('DC\_6',\_'Shop\_5')

+ 96 outbound\_('DC\_6',\_'Shop\_6') + 64 outbound\_('DC\_6',\_'Shop\_7')

+ 73 outbound\_('DC\_6',\_'Shop\_8') + 55 outbound\_('DC\_6',\_'Shop\_9')

+ 69 outbound\_('DC\_6',\_'shop\_2') + 109 outbound\_('DC\_7',\_'Shop\_1')

+ 48 outbound\_('DC\_7',\_'Shop\_10') + 75 outbound\_('DC\_7',\_'Shop\_11')

+ 112 outbound\_('DC\_7',\_'Shop\_12') + 55 outbound\_('DC\_7',\_'Shop\_3')

+ 56 outbound\_('DC\_7',\_'Shop\_4') + 54 outbound\_('DC\_7',\_'Shop\_5')

+ 82 outbound\_('DC\_7',\_'Shop\_6') + 60 outbound\_('DC\_7',\_'Shop\_7')

+ 63 outbound\_('DC\_7',\_'Shop\_8') + 111 outbound\_('DC\_7',\_'Shop\_9')

+ 112 outbound\_('DC\_7',\_'shop\_2') + 118 outbound\_('DC\_8',\_'Shop\_1')

+ 40 outbound\_('DC\_8',\_'Shop\_10') + 115 outbound\_('DC\_8',\_'Shop\_11')

+ 66 outbound\_('DC\_8',\_'Shop\_12') + 56 outbound\_('DC\_8',\_'Shop\_3')

+ 117 outbound\_('DC\_8',\_'Shop\_4') + 55 outbound\_('DC\_8',\_'Shop\_5')

+ 54 outbound\_('DC\_8',\_'Shop\_6') + 71 outbound\_('DC\_8',\_'Shop\_7')

+ 108 outbound\_('DC\_8',\_'Shop\_8') + 93 outbound\_('DC\_8',\_'Shop\_9')

+ 116 outbound\_('DC\_8',\_'shop\_2') + 92 outbound\_('DC\_9',\_'Shop\_1')

+ 116 outbound\_('DC\_9',\_'Shop\_10') + 70 outbound\_('DC\_9',\_'Shop\_11')

+ 68 outbound\_('DC\_9',\_'Shop\_12') + 51 outbound\_('DC\_9',\_'Shop\_3')

+ 59 outbound\_('DC\_9',\_'Shop\_4') + 58 outbound\_('DC\_9',\_'Shop\_5')

+ 115 outbound\_('DC\_9',\_'Shop\_6') + 70 outbound\_('DC\_9',\_'Shop\_7')

+ 86 outbound\_('DC\_9',\_'Shop\_8') + 109 outbound\_('DC\_9',\_'Shop\_9')

+ 111 outbound\_('DC\_9',\_'shop\_2')

Subject To

\_C1: outbound\_('DC\_1',\_'Shop\_1') + outbound\_('DC\_2',\_'Shop\_1')

+ outbound\_('DC\_3',\_'Shop\_1') + outbound\_('DC\_4',\_'Shop\_1')

+ outbound\_('DC\_5',\_'Shop\_1') + outbound\_('DC\_6',\_'Shop\_1')

+ outbound\_('DC\_7',\_'Shop\_1') + outbound\_('DC\_8',\_'Shop\_1')

+ outbound\_('DC\_9',\_'Shop\_1') >= 881

\_C10: outbound\_('DC\_1',\_'Shop\_10') + outbound\_('DC\_2',\_'Shop\_10')

+ outbound\_('DC\_3',\_'Shop\_10') + outbound\_('DC\_4',\_'Shop\_10')

+ outbound\_('DC\_5',\_'Shop\_10') + outbound\_('DC\_6',\_'Shop\_10')

+ outbound\_('DC\_7',\_'Shop\_10') + outbound\_('DC\_8',\_'Shop\_10')

+ outbound\_('DC\_9',\_'Shop\_10') >= 683

\_C11: outbound\_('DC\_1',\_'Shop\_11') + outbound\_('DC\_2',\_'Shop\_11')

+ outbound\_('DC\_3',\_'Shop\_11') + outbound\_('DC\_4',\_'Shop\_11')

+ outbound\_('DC\_5',\_'Shop\_11') + outbound\_('DC\_6',\_'Shop\_11')

+ outbound\_('DC\_7',\_'Shop\_11') + outbound\_('DC\_8',\_'Shop\_11')

+ outbound\_('DC\_9',\_'Shop\_11') >= 623

\_C12: outbound\_('DC\_1',\_'Shop\_12') + outbound\_('DC\_2',\_'Shop\_12')

+ outbound\_('DC\_3',\_'Shop\_12') + outbound\_('DC\_4',\_'Shop\_12')

+ outbound\_('DC\_5',\_'Shop\_12') + outbound\_('DC\_6',\_'Shop\_12')

+ outbound\_('DC\_7',\_'Shop\_12') + outbound\_('DC\_8',\_'Shop\_12')

+ outbound\_('DC\_9',\_'Shop\_12') >= 648

\_C13: inbound\_('DC\_1',\_'plant\_1') + inbound\_('DC\_2',\_'plant\_1')

+ inbound\_('DC\_3',\_'plant\_1') + inbound\_('DC\_4',\_'plant\_1')

+ inbound\_('DC\_5',\_'plant\_1') + inbound\_('DC\_6',\_'plant\_1')

+ inbound\_('DC\_7',\_'plant\_1') + inbound\_('DC\_8',\_'plant\_1')

+ inbound\_('DC\_9',\_'plant\_1') - 3000 open\_p\_plant\_1 <= 0

\_C14: inbound\_('DC\_1',\_'plant\_2') + inbound\_('DC\_2',\_'plant\_2')

+ inbound\_('DC\_3',\_'plant\_2') + inbound\_('DC\_4',\_'plant\_2')

+ inbound\_('DC\_5',\_'plant\_2') + inbound\_('DC\_6',\_'plant\_2')

+ inbound\_('DC\_7',\_'plant\_2') + inbound\_('DC\_8',\_'plant\_2')

+ inbound\_('DC\_9',\_'plant\_2') - 5000 open\_p\_plant\_2 <= 0

\_C15: inbound\_('DC\_1',\_'plant\_3') + inbound\_('DC\_2',\_'plant\_3')

+ inbound\_('DC\_3',\_'plant\_3') + inbound\_('DC\_4',\_'plant\_3')

+ inbound\_('DC\_5',\_'plant\_3') + inbound\_('DC\_6',\_'plant\_3')

+ inbound\_('DC\_7',\_'plant\_3') + inbound\_('DC\_8',\_'plant\_3')

+ inbound\_('DC\_9',\_'plant\_3') - 4000 open\_p\_plant\_3 <= 0

\_C16: inbound\_('DC\_1',\_'plant\_1') + inbound\_('DC\_1',\_'plant\_2')

+ inbound\_('DC\_1',\_'plant\_3') - 10000 open\_dc\_DC\_1 <= 0

\_C17: inbound\_('DC\_2',\_'plant\_1') + inbound\_('DC\_2',\_'plant\_2')

+ inbound\_('DC\_2',\_'plant\_3') - 10000 open\_dc\_DC\_2 <= 0

\_C18: inbound\_('DC\_3',\_'plant\_1') + inbound\_('DC\_3',\_'plant\_2')

+ inbound\_('DC\_3',\_'plant\_3') - 10000 open\_dc\_DC\_3 <= 0

\_C19: inbound\_('DC\_4',\_'plant\_1') + inbound\_('DC\_4',\_'plant\_2')

+ inbound\_('DC\_4',\_'plant\_3') - 10000 open\_dc\_DC\_4 <= 0

\_C2: outbound\_('DC\_1',\_'shop\_2') + outbound\_('DC\_2',\_'shop\_2')

+ outbound\_('DC\_3',\_'shop\_2') + outbound\_('DC\_4',\_'shop\_2')

+ outbound\_('DC\_5',\_'shop\_2') + outbound\_('DC\_6',\_'shop\_2')

+ outbound\_('DC\_7',\_'shop\_2') + outbound\_('DC\_8',\_'shop\_2')

+ outbound\_('DC\_9',\_'shop\_2') >= 806

\_C20: inbound\_('DC\_5',\_'plant\_1') + inbound\_('DC\_5',\_'plant\_2')

+ inbound\_('DC\_5',\_'plant\_3') - 10000 open\_dc\_DC\_5 <= 0

\_C21: inbound\_('DC\_6',\_'plant\_1') + inbound\_('DC\_6',\_'plant\_2')

+ inbound\_('DC\_6',\_'plant\_3') - 10000 open\_dc\_DC\_6 <= 0

\_C22: inbound\_('DC\_7',\_'plant\_1') + inbound\_('DC\_7',\_'plant\_2')

+ inbound\_('DC\_7',\_'plant\_3') - 10000 open\_dc\_DC\_7 <= 0

\_C23: inbound\_('DC\_8',\_'plant\_1') + inbound\_('DC\_8',\_'plant\_2')

+ inbound\_('DC\_8',\_'plant\_3') - 10000 open\_dc\_DC\_8 <= 0

\_C24: inbound\_('DC\_9',\_'plant\_1') + inbound\_('DC\_9',\_'plant\_2')

+ inbound\_('DC\_9',\_'plant\_3') - 10000 open\_dc\_DC\_9 <= 0

\_C25: inbound\_('DC\_1',\_'plant\_1') + inbound\_('DC\_1',\_'plant\_2')

+ inbound\_('DC\_1',\_'plant\_3') - outbound\_('DC\_1',\_'Shop\_1')

- outbound\_('DC\_1',\_'Shop\_10') - outbound\_('DC\_1',\_'Shop\_11')

- outbound\_('DC\_1',\_'Shop\_12') - outbound\_('DC\_1',\_'Shop\_3')

- outbound\_('DC\_1',\_'Shop\_4') - outbound\_('DC\_1',\_'Shop\_5')

- outbound\_('DC\_1',\_'Shop\_6') - outbound\_('DC\_1',\_'Shop\_7')

- outbound\_('DC\_1',\_'Shop\_8') - outbound\_('DC\_1',\_'Shop\_9')

- outbound\_('DC\_1',\_'shop\_2') = 0

\_C26: inbound\_('DC\_2',\_'plant\_1') + inbound\_('DC\_2',\_'plant\_2')

+ inbound\_('DC\_2',\_'plant\_3') - outbound\_('DC\_2',\_'Shop\_1')

- outbound\_('DC\_2',\_'Shop\_10') - outbound\_('DC\_2',\_'Shop\_11')

- outbound\_('DC\_2',\_'Shop\_12') - outbound\_('DC\_2',\_'Shop\_3')

- outbound\_('DC\_2',\_'Shop\_4') - outbound\_('DC\_2',\_'Shop\_5')

- outbound\_('DC\_2',\_'Shop\_6') - outbound\_('DC\_2',\_'Shop\_7')

- outbound\_('DC\_2',\_'Shop\_8') - outbound\_('DC\_2',\_'Shop\_9')

- outbound\_('DC\_2',\_'shop\_2') = 0

\_C27: inbound\_('DC\_3',\_'plant\_1') + inbound\_('DC\_3',\_'plant\_2')

+ inbound\_('DC\_3',\_'plant\_3') - outbound\_('DC\_3',\_'Shop\_1')

- outbound\_('DC\_3',\_'Shop\_10') - outbound\_('DC\_3',\_'Shop\_11')

- outbound\_('DC\_3',\_'Shop\_12') - outbound\_('DC\_3',\_'Shop\_3')

- outbound\_('DC\_3',\_'Shop\_4') - outbound\_('DC\_3',\_'Shop\_5')

- outbound\_('DC\_3',\_'Shop\_6') - outbound\_('DC\_3',\_'Shop\_7')

- outbound\_('DC\_3',\_'Shop\_8') - outbound\_('DC\_3',\_'Shop\_9')

- outbound\_('DC\_3',\_'shop\_2') = 0

\_C28: inbound\_('DC\_4',\_'plant\_1') + inbound\_('DC\_4',\_'plant\_2')

+ inbound\_('DC\_4',\_'plant\_3') - outbound\_('DC\_4',\_'Shop\_1')

- outbound\_('DC\_4',\_'Shop\_10') - outbound\_('DC\_4',\_'Shop\_11')

- outbound\_('DC\_4',\_'Shop\_12') - outbound\_('DC\_4',\_'Shop\_3')

- outbound\_('DC\_4',\_'Shop\_4') - outbound\_('DC\_4',\_'Shop\_5')

- outbound\_('DC\_4',\_'Shop\_6') - outbound\_('DC\_4',\_'Shop\_7')

- outbound\_('DC\_4',\_'Shop\_8') - outbound\_('DC\_4',\_'Shop\_9')

- outbound\_('DC\_4',\_'shop\_2') = 0

\_C29: inbound\_('DC\_5',\_'plant\_1') + inbound\_('DC\_5',\_'plant\_2')

+ inbound\_('DC\_5',\_'plant\_3') - outbound\_('DC\_5',\_'Shop\_1')

- outbound\_('DC\_5',\_'Shop\_10') - outbound\_('DC\_5',\_'Shop\_11')

- outbound\_('DC\_5',\_'Shop\_12') - outbound\_('DC\_5',\_'Shop\_3')

- outbound\_('DC\_5',\_'Shop\_4') - outbound\_('DC\_5',\_'Shop\_5')

- outbound\_('DC\_5',\_'Shop\_6') - outbound\_('DC\_5',\_'Shop\_7')

- outbound\_('DC\_5',\_'Shop\_8') - outbound\_('DC\_5',\_'Shop\_9')

- outbound\_('DC\_5',\_'shop\_2') = 0

\_C3: outbound\_('DC\_1',\_'Shop\_3') + outbound\_('DC\_2',\_'Shop\_3')

+ outbound\_('DC\_3',\_'Shop\_3') + outbound\_('DC\_4',\_'Shop\_3')

+ outbound\_('DC\_5',\_'Shop\_3') + outbound\_('DC\_6',\_'Shop\_3')

+ outbound\_('DC\_7',\_'Shop\_3') + outbound\_('DC\_8',\_'Shop\_3')

+ outbound\_('DC\_9',\_'Shop\_3') >= 704

\_C30: inbound\_('DC\_6',\_'plant\_1') + inbound\_('DC\_6',\_'plant\_2')

+ inbound\_('DC\_6',\_'plant\_3') - outbound\_('DC\_6',\_'Shop\_1')

- outbound\_('DC\_6',\_'Shop\_10') - outbound\_('DC\_6',\_'Shop\_11')

- outbound\_('DC\_6',\_'Shop\_12') - outbound\_('DC\_6',\_'Shop\_3')

- outbound\_('DC\_6',\_'Shop\_4') - outbound\_('DC\_6',\_'Shop\_5')

- outbound\_('DC\_6',\_'Shop\_6') - outbound\_('DC\_6',\_'Shop\_7')

- outbound\_('DC\_6',\_'Shop\_8') - outbound\_('DC\_6',\_'Shop\_9')

- outbound\_('DC\_6',\_'shop\_2') = 0

\_C31: inbound\_('DC\_7',\_'plant\_1') + inbound\_('DC\_7',\_'plant\_2')

+ inbound\_('DC\_7',\_'plant\_3') - outbound\_('DC\_7',\_'Shop\_1')

- outbound\_('DC\_7',\_'Shop\_10') - outbound\_('DC\_7',\_'Shop\_11')

- outbound\_('DC\_7',\_'Shop\_12') - outbound\_('DC\_7',\_'Shop\_3')

- outbound\_('DC\_7',\_'Shop\_4') - outbound\_('DC\_7',\_'Shop\_5')

- outbound\_('DC\_7',\_'Shop\_6') - outbound\_('DC\_7',\_'Shop\_7')

- outbound\_('DC\_7',\_'Shop\_8') - outbound\_('DC\_7',\_'Shop\_9')

- outbound\_('DC\_7',\_'shop\_2') = 0

\_C32: inbound\_('DC\_8',\_'plant\_1') + inbound\_('DC\_8',\_'plant\_2')

+ inbound\_('DC\_8',\_'plant\_3') - outbound\_('DC\_8',\_'Shop\_1')

- outbound\_('DC\_8',\_'Shop\_10') - outbound\_('DC\_8',\_'Shop\_11')

- outbound\_('DC\_8',\_'Shop\_12') - outbound\_('DC\_8',\_'Shop\_3')

- outbound\_('DC\_8',\_'Shop\_4') - outbound\_('DC\_8',\_'Shop\_5')

- outbound\_('DC\_8',\_'Shop\_6') - outbound\_('DC\_8',\_'Shop\_7')

- outbound\_('DC\_8',\_'Shop\_8') - outbound\_('DC\_8',\_'Shop\_9')

- outbound\_('DC\_8',\_'shop\_2') = 0

\_C33: inbound\_('DC\_9',\_'plant\_1') + inbound\_('DC\_9',\_'plant\_2')

+ inbound\_('DC\_9',\_'plant\_3') - outbound\_('DC\_9',\_'Shop\_1')

- outbound\_('DC\_9',\_'Shop\_10') - outbound\_('DC\_9',\_'Shop\_11')

- outbound\_('DC\_9',\_'Shop\_12') - outbound\_('DC\_9',\_'Shop\_3')

- outbound\_('DC\_9',\_'Shop\_4') - outbound\_('DC\_9',\_'Shop\_5')

- outbound\_('DC\_9',\_'Shop\_6') - outbound\_('DC\_9',\_'Shop\_7')

- outbound\_('DC\_9',\_'Shop\_8') - outbound\_('DC\_9',\_'Shop\_9')

- outbound\_('DC\_9',\_'shop\_2') = 0

\_C34: open\_dc\_DC\_1 + open\_dc\_DC\_2 + open\_dc\_DC\_3 + open\_dc\_DC\_4 + open\_dc\_DC\_5

+ open\_dc\_DC\_6 + open\_dc\_DC\_7 + open\_dc\_DC\_8 + open\_dc\_DC\_9 >= 1

\_C35: open\_dc\_DC\_1 + open\_dc\_DC\_2 + open\_dc\_DC\_3 + open\_dc\_DC\_4 + open\_dc\_DC\_5

+ open\_dc\_DC\_6 + open\_dc\_DC\_7 + open\_dc\_DC\_8 + open\_dc\_DC\_9 <= 9

\_C36: open\_p\_plant\_1 + open\_p\_plant\_2 + open\_p\_plant\_3 >= 1

\_C37: open\_p\_plant\_1 + open\_p\_plant\_2 + open\_p\_plant\_3 <= 3

\_C38: 0.000117247039512 outbound\_('DC\_1',\_'Shop\_10')

+ 0.000117247039512 outbound\_('DC\_1',\_'Shop\_11')

+ 0.000117247039512 outbound\_('DC\_1',\_'Shop\_12')

+ 0.000117247039512 outbound\_('DC\_1',\_'Shop\_7')

+ 0.000117247039512 outbound\_('DC\_1',\_'shop\_2')

+ 0.000117247039512 outbound\_('DC\_2',\_'Shop\_11')

+ 0.000117247039512 outbound\_('DC\_2',\_'Shop\_12')

+ 0.000117247039512 outbound\_('DC\_2',\_'Shop\_4')

+ 0.000117247039512 outbound\_('DC\_2',\_'Shop\_5')

+ 0.000117247039512 outbound\_('DC\_2',\_'Shop\_6')

+ 0.000117247039512 outbound\_('DC\_2',\_'Shop\_7')

+ 0.000117247039512 outbound\_('DC\_2',\_'Shop\_8')

+ 0.000117247039512 outbound\_('DC\_2',\_'Shop\_9')

+ 0.000117247039512 outbound\_('DC\_3',\_'Shop\_1')

+ 0.000117247039512 outbound\_('DC\_3',\_'Shop\_10')

+ 0.000117247039512 outbound\_('DC\_3',\_'Shop\_11')

+ 0.000117247039512 outbound\_('DC\_3',\_'Shop\_3')

+ 0.000117247039512 outbound\_('DC\_3',\_'Shop\_5')

+ 0.000117247039512 outbound\_('DC\_3',\_'Shop\_6')

+ 0.000117247039512 outbound\_('DC\_3',\_'Shop\_8')

+ 0.000117247039512 outbound\_('DC\_3',\_'Shop\_9')

+ 0.000117247039512 outbound\_('DC\_4',\_'Shop\_10')

+ 0.000117247039512 outbound\_('DC\_4',\_'Shop\_11')

+ 0.000117247039512 outbound\_('DC\_4',\_'Shop\_12')

+ 0.000117247039512 outbound\_('DC\_4',\_'Shop\_4')

+ 0.000117247039512 outbound\_('DC\_4',\_'Shop\_5')

+ 0.000117247039512 outbound\_('DC\_4',\_'Shop\_6')

+ 0.000117247039512 outbound\_('DC\_4',\_'Shop\_7')

+ 0.000117247039512 outbound\_('DC\_4',\_'Shop\_8')

+ 0.000117247039512 outbound\_('DC\_4',\_'shop\_2')

+ 0.000117247039512 outbound\_('DC\_5',\_'Shop\_10')

+ 0.000117247039512 outbound\_('DC\_5',\_'Shop\_4')

+ 0.000117247039512 outbound\_('DC\_5',\_'Shop\_7')

+ 0.000117247039512 outbound\_('DC\_5',\_'Shop\_8')

+ 0.000117247039512 outbound\_('DC\_5',\_'shop\_2')

+ 0.000117247039512 outbound\_('DC\_6',\_'Shop\_11')

+ 0.000117247039512 outbound\_('DC\_6',\_'Shop\_12')

+ 0.000117247039512 outbound\_('DC\_6',\_'Shop\_5')

+ 0.000117247039512 outbound\_('DC\_6',\_'Shop\_7')

+ 0.000117247039512 outbound\_('DC\_6',\_'Shop\_8')

+ 0.000117247039512 outbound\_('DC\_6',\_'Shop\_9')

+ 0.000117247039512 outbound\_('DC\_6',\_'shop\_2')

+ 0.000117247039512 outbound\_('DC\_7',\_'Shop\_10')

+ 0.000117247039512 outbound\_('DC\_7',\_'Shop\_11')

+ 0.000117247039512 outbound\_('DC\_7',\_'Shop\_3')

+ 0.000117247039512 outbound\_('DC\_7',\_'Shop\_4')

+ 0.000117247039512 outbound\_('DC\_7',\_'Shop\_5')

+ 0.000117247039512 outbound\_('DC\_7',\_'Shop\_7')

+ 0.000117247039512 outbound\_('DC\_7',\_'Shop\_8')

+ 0.000117247039512 outbound\_('DC\_8',\_'Shop\_10')

+ 0.000117247039512 outbound\_('DC\_8',\_'Shop\_12')

+ 0.000117247039512 outbound\_('DC\_8',\_'Shop\_3')

+ 0.000117247039512 outbound\_('DC\_8',\_'Shop\_5')

+ 0.000117247039512 outbound\_('DC\_8',\_'Shop\_6')

+ 0.000117247039512 outbound\_('DC\_8',\_'Shop\_7')

+ 0.000117247039512 outbound\_('DC\_9',\_'Shop\_11')

+ 0.000117247039512 outbound\_('DC\_9',\_'Shop\_12')

+ 0.000117247039512 outbound\_('DC\_9',\_'Shop\_3')

+ 0.000117247039512 outbound\_('DC\_9',\_'Shop\_4')

+ 0.000117247039512 outbound\_('DC\_9',\_'Shop\_5')

+ 0.000117247039512 outbound\_('DC\_9',\_'Shop\_7') >= 0.95

\_C4: outbound\_('DC\_1',\_'Shop\_4') + outbound\_('DC\_2',\_'Shop\_4')

+ outbound\_('DC\_3',\_'Shop\_4') + outbound\_('DC\_4',\_'Shop\_4')

+ outbound\_('DC\_5',\_'Shop\_4') + outbound\_('DC\_6',\_'Shop\_4')

+ outbound\_('DC\_7',\_'Shop\_4') + outbound\_('DC\_8',\_'Shop\_4')

+ outbound\_('DC\_9',\_'Shop\_4') >= 767

\_C5: outbound\_('DC\_1',\_'Shop\_5') + outbound\_('DC\_2',\_'Shop\_5')

+ outbound\_('DC\_3',\_'Shop\_5') + outbound\_('DC\_4',\_'Shop\_5')

+ outbound\_('DC\_5',\_'Shop\_5') + outbound\_('DC\_6',\_'Shop\_5')

+ outbound\_('DC\_7',\_'Shop\_5') + outbound\_('DC\_8',\_'Shop\_5')

+ outbound\_('DC\_9',\_'Shop\_5') >= 575

\_C6: outbound\_('DC\_1',\_'Shop\_6') + outbound\_('DC\_2',\_'Shop\_6')

+ outbound\_('DC\_3',\_'Shop\_6') + outbound\_('DC\_4',\_'Shop\_6')

+ outbound\_('DC\_5',\_'Shop\_6') + outbound\_('DC\_6',\_'Shop\_6')

+ outbound\_('DC\_7',\_'Shop\_6') + outbound\_('DC\_8',\_'Shop\_6')

+ outbound\_('DC\_9',\_'Shop\_6') >= 741

\_C7: outbound\_('DC\_1',\_'Shop\_7') + outbound\_('DC\_2',\_'Shop\_7')

+ outbound\_('DC\_3',\_'Shop\_7') + outbound\_('DC\_4',\_'Shop\_7')

+ outbound\_('DC\_5',\_'Shop\_7') + outbound\_('DC\_6',\_'Shop\_7')

+ outbound\_('DC\_7',\_'Shop\_7') + outbound\_('DC\_8',\_'Shop\_7')

+ outbound\_('DC\_9',\_'Shop\_7') >= 593

\_C8: outbound\_('DC\_1',\_'Shop\_8') + outbound\_('DC\_2',\_'Shop\_8')

+ outbound\_('DC\_3',\_'Shop\_8') + outbound\_('DC\_4',\_'Shop\_8')

+ outbound\_('DC\_5',\_'Shop\_8') + outbound\_('DC\_6',\_'Shop\_8')

+ outbound\_('DC\_7',\_'Shop\_8') + outbound\_('DC\_8',\_'Shop\_8')

+ outbound\_('DC\_9',\_'Shop\_8') >= 708

\_C9: outbound\_('DC\_1',\_'Shop\_9') + outbound\_('DC\_2',\_'Shop\_9')

+ outbound\_('DC\_3',\_'Shop\_9') + outbound\_('DC\_4',\_'Shop\_9')

+ outbound\_('DC\_5',\_'Shop\_9') + outbound\_('DC\_6',\_'Shop\_9')

+ outbound\_('DC\_7',\_'Shop\_9') + outbound\_('DC\_8',\_'Shop\_9')

+ outbound\_('DC\_9',\_'Shop\_9') >= 800

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open\_dc\_DC\_2

open\_dc\_DC\_3

open\_dc\_DC\_4

open\_dc\_DC\_5

open\_dc\_DC\_6

open\_dc\_DC\_7

open\_dc\_DC\_8

open\_dc\_DC\_9

open\_p\_plant\_1

open\_p\_plant\_2

open\_p\_plant\_3

End