

```

2 ===== Iteration 1 =====
3 Ant 1: 1 -> 11 -> 8 -> 13 -> 5 -> 14 -> 12 -> 3 -> 2
    -> 19 -> 16 -> 10 -> 18 -> 4 -> 7 -> 6 -> 17 -> 9
    -> 15 -> 1 | Length = 5291,37
4 Ant 2: 2 -> 4 -> 18 -> 19 -> 17 -> 3 -> 12 -> 16 -> 1
    -> 6 -> 14 -> 10 -> 11 -> 5 -> 13 -> 15 -> 9 -> 8
    -> 7 -> 2 | Length = 3745,02
5 Ant 3: 3 -> 12 -> 17 -> 11 -> 10 -> 14 -> 2 -> 6 -> 4
    -> 18 -> 7 -> 13 -> 5 -> 8 -> 9 -> 19 -> 15 -> 1 ->
    16 -> 3 | Length = 4087,83
6 Ant 4: 4 -> 18 -> 11 -> 9 -> 13 -> 5 -> 17 -> 10 -> 1
    -> 19 -> 6 -> 14 -> 2 -> 7 -> 12 -> 3 -> 15 -> 8 ->
    16 -> 4 | Length = 4913,14
7 Ant 5: 5 -> 19 -> 9 -> 15 -> 10 -> 18 -> 4 -> 7 -> 2
    -> 14 -> 6 -> 11 -> 1 -> 12 -> 3 -> 8 -> 13 -> 17
    -> 16 -> 5 | Length = 4202,38
8 Ant 6: 6 -> 14 -> 2 -> 15 -> 9 -> 13 -> 5 -> 8 -> 4
    -> 18 -> 12 -> 3 -> 10 -> 11 -> 19 -> 17 -> 7 -> 1
    -> 16 -> 6 | Length = 4381,50
9 Ant 7: 7 -> 2 -> 6 -> 3 -> 12 -> 11 -> 16 -> 14 -> 10
    -> 9 -> 15 -> 8 -> 5 -> 13 -> 17 -> 19 -> 4 -> 18
    -> 1 -> 7 | Length = 4345,92
10 Ant 8: 8 -> 5 -> 13 -> 9 -> 19 -> 15 -> 2 -> 4 -> 18
    -> 7 -> 14 -> 6 -> 10 -> 17 -> 11 -> 12 -> 3 -> 1
    -> 16 -> 8 | Length = 3800,20
11 Ant 9: 9 -> 8 -> 5 -> 13 -> 17 -> 12 -> 1 -> 3 -> 2
    -> 14 -> 6 -> 4 -> 18 -> 7 -> 15 -> 10 -> 11 -> 19
    -> 16 -> 9 | Length = 4699,59
12 Ant 10: 10 -> 18 -> 4 -> 17 -> 8 -> 5 -> 13 -> 11 ->
    2 -> 19 -> 9 -> 1 -> 12 -> 3 -> 14 -> 16 -> 6 -> 7
    -> 15 -> 10 | Length = 5526,55
13 Ant 11: 11 -> 3 -> 12 -> 16 -> 18 -> 4 -> 7 -> 14 ->
    2 -> 6 -> 1 -> 17 -> 10 -> 8 -> 19 -> 5 -> 13 -> 9
    -> 15 -> 11 | Length = 3856,52
14 Ant 12: 12 -> 3 -> 18 -> 4 -> 7 -> 14 -> 6 -> 2 -> 5
    -> 13 -> 9 -> 10 -> 17 -> 8 -> 11 -> 1 -> 15 -> 16
    -> 19 -> 12 | Length = 4795,01
15 Ant 13: 13 -> 5 -> 8 -> 11 -> 18 -> 4 -> 7 -> 14 -> 2
    -> 1 -> 16 -> 3 -> 12 -> 10 -> 17 -> 19 -> 15 -> 9
    -> 6 -> 13 | Length = 4116,72
16 Ant 14: 14 -> 6 -> 17 -> 12 -> 5 -> 13 -> 9 -> 15 ->

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16 8 -> 11 -> 10 -> 4 -> 18 -> 7 -> 2 -> 1 -> 16 -> 3
    -> 19 -> 14 | Length = 4150,79
17 Ant 15: 15 -> 13 -> 5 -> 18 -> 4 -> 7 -> 11 -> 10 ->
    12 -> 3 -> 17 -> 19 -> 16 -> 14 -> 1 -> 2 -> 8 -> 9
    -> 6 -> 15 | Length = 5784,65
18 Ant 16: 16 -> 11 -> 8 -> 10 -> 3 -> 12 -> 1 -> 6 ->
    14 -> 19 -> 17 -> 2 -> 13 -> 5 -> 9 -> 15 -> 18 -> 4
    -> 7 -> 16 | Length = 4614,85
19 Ant 17: 17 -> 12 -> 3 -> 1 -> 5 -> 13 -> 4 -> 18 -> 7
    -> 14 -> 15 -> 9 -> 8 -> 11 -> 10 -> 2 -> 16 -> 6
    -> 19 -> 17 | Length = 4967,25
20 Ant 18: 18 -> 4 -> 13 -> 5 -> 8 -> 10 -> 11 -> 12 ->
    3 -> 14 -> 6 -> 2 -> 19 -> 17 -> 7 -> 16 -> 1 -> 9
    -> 15 -> 18 | Length = 4659,16
21 Ant 19: 19 -> 6 -> 14 -> 7 -> 4 -> 18 -> 5 -> 10 ->
    13 -> 9 -> 15 -> 1 -> 12 -> 3 -> 11 -> 8 -> 17 -> 16
    -> 2 -> 19 | Length = 4771,98
22 Best so far: 3745,02
23
24 ===== Iteration 2 =====
25 Ant 1: 1 -> 3 -> 12 -> 6 -> 14 -> 7 -> 4 -> 18 -> 10
    -> 5 -> 13 -> 9 -> 15 -> 19 -> 2 -> 17 -> 11 -> 8
    -> 16 -> 1 | Length = 3703,12
26 Ant 2: 2 -> 14 -> 6 -> 7 -> 18 -> 4 -> 12 -> 3 -> 16
    -> 10 -> 17 -> 5 -> 13 -> 1 -> 9 -> 15 -> 8 -> 11
    -> 19 -> 2 | Length = 4313,14
27 Ant 3: 3 -> 12 -> 6 -> 2 -> 14 -> 7 -> 4 -> 18 -> 19
    -> 16 -> 11 -> 8 -> 9 -> 15 -> 10 -> 17 -> 5 -> 13
    -> 1 -> 3 | Length = 3846,79
28 Ant 4: 4 -> 18 -> 7 -> 17 -> 10 -> 5 -> 13 -> 9 -> 8
    -> 11 -> 3 -> 12 -> 16 -> 1 -> 14 -> 6 -> 2 -> 15
    -> 19 -> 4 | Length = 3792,27
29 Ant 5: 5 -> 6 -> 14 -> 2 -> 7 -> 4 -> 18 -> 17 -> 3
    -> 12 -> 10 -> 11 -> 1 -> 16 -> 19 -> 13 -> 9 -> 15
    -> 8 -> 5 | Length = 3715,05
30 Ant 6: 6 -> 14 -> 2 -> 7 -> 4 -> 18 -> 3 -> 12 -> 10
    -> 17 -> 19 -> 9 -> 15 -> 8 -> 5 -> 13 -> 11 -> 1
    -> 16 -> 6 | Length = 3322,74
31 Ant 7: 7 -> 2 -> 6 -> 14 -> 5 -> 13 -> 17 -> 10 -> 11
    -> 9 -> 8 -> 19 -> 4 -> 18 -> 12 -> 3 -> 16 -> 1 ->
    15 -> 7 | Length = 4398,61

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32 Ant 8: 8 -> 5 -> 13 -> 9 -> 19 -> 18 -> 4 -> 7 -> 2
    -> 10 -> 17 -> 11 -> 6 -> 14 -> 16 -> 12 -> 3 -> 1
    -> 15 -> 8 | Length = 3841,16
33 Ant 9: 9 -> 8 -> 11 -> 4 -> 18 -> 10 -> 17 -> 5 -> 13
    -> 3 -> 12 -> 1 -> 16 -> 15 -> 19 -> 2 -> 6 -> 14
    -> 7 -> 9 | Length = 4267,67
34 Ant 10: 10 -> 2 -> 14 -> 7 -> 4 -> 18 -> 6 -> 3 -> 12
    -> 17 -> 13 -> 5 -> 8 -> 9 -> 15 -> 11 -> 1 -> 16
    -> 19 -> 10 | Length = 4011,40
35 Ant 11: 11 -> 18 -> 4 -> 7 -> 14 -> 6 -> 9 -> 8 -> 5
    -> 13 -> 19 -> 17 -> 12 -> 3 -> 1 -> 2 -> 10 -> 16
    -> 15 -> 11 | Length = 4348,36
36 Ant 12: 12 -> 3 -> 1 -> 17 -> 10 -> 11 -> 5 -> 13 ->
    9 -> 4 -> 18 -> 16 -> 19 -> 8 -> 7 -> 2 -> 14 -> 6
    -> 15 -> 12 | Length = 5109,69
37 Ant 13: 13 -> 5 -> 3 -> 7 -> 4 -> 18 -> 6 -> 17 -> 10
    -> 14 -> 2 -> 19 -> 9 -> 8 -> 11 -> 16 -> 1 -> 12
    -> 15 -> 13 | Length = 4570,79
38 Ant 14: 14 -> 2 -> 7 -> 12 -> 3 -> 10 -> 11 -> 8 ->
    15 -> 9 -> 13 -> 5 -> 19 -> 17 -> 18 -> 4 -> 6 -> 16
    -> 1 -> 14 | Length = 3611,00
39 Ant 15: 15 -> 16 -> 1 -> 12 -> 3 -> 5 -> 13 -> 9 ->
    19 -> 14 -> 6 -> 8 -> 18 -> 4 -> 10 -> 17 -> 2 -> 7
    -> 11 -> 15 | Length = 4663,11
40 Ant 16: 16 -> 8 -> 9 -> 13 -> 5 -> 11 -> 10 -> 4 ->
    18 -> 7 -> 2 -> 14 -> 6 -> 19 -> 15 -> 17 -> 12 -> 3
    -> 1 -> 16 | Length = 3695,47
41 Ant 17: 17 -> 10 -> 3 -> 12 -> 11 -> 8 -> 5 -> 13 ->
    9 -> 7 -> 6 -> 14 -> 2 -> 18 -> 4 -> 16 -> 1 -> 19
    -> 15 -> 17 | Length = 4367,98
42 Ant 18: 18 -> 4 -> 1 -> 12 -> 3 -> 17 -> 10 -> 11 ->
    8 -> 5 -> 13 -> 2 -> 7 -> 14 -> 6 -> 19 -> 15 -> 9
    -> 16 -> 18 | Length = 4634,50
43 Ant 19: 19 -> 12 -> 3 -> 1 -> 9 -> 8 -> 13 -> 5 -> 10
    -> 11 -> 16 -> 17 -> 18 -> 4 -> 7 -> 2 -> 6 -> 14
    -> 15 -> 19 | Length = 4474,51
44 Best so far: 3322,74
45
46 ===== Iteration 3 =====
47 Ant 1: 1 -> 14 -> 16 -> 2 -> 10 -> 17 -> 19 -> 5 ->
    13 -> 9 -> 8 -> 11 -> 3 -> 12 -> 18 -> 4 -> 7 -> 6

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47 -> 15 -> 1 | Length = 4941,35
48 Ant 2: 2 -> 14 -> 6 -> 1 -> 3 -> 12 -> 10 -> 17 -> 11
    -> 8 -> 7 -> 18 -> 4 -> 19 -> 9 -> 13 -> 5 -> 15 ->
    16 -> 2 | Length = 3717,32
49 Ant 3: 3 -> 12 -> 6 -> 14 -> 2 -> 11 -> 8 -> 5 -> 13
    -> 9 -> 15 -> 10 -> 17 -> 19 -> 7 -> 18 -> 4 -> 1
    -> 16 -> 3 | Length = 3598,42
50 Ant 4: 4 -> 18 -> 3 -> 12 -> 1 -> 16 -> 11 -> 5 -> 13
    -> 8 -> 9 -> 15 -> 19 -> 17 -> 10 -> 2 -> 14 -> 6
    -> 7 -> 4 | Length = 3396,91
51 Ant 5: 5 -> 13 -> 9 -> 15 -> 8 -> 11 -> 10 -> 17 ->
    18 -> 4 -> 7 -> 2 -> 14 -> 6 -> 12 -> 3 -> 1 -> 16
    -> 19 -> 5 | Length = 3055,15
52 Ant 6: 6 -> 15 -> 9 -> 13 -> 5 -> 8 -> 19 -> 17 -> 10
    -> 11 -> 1 -> 16 -> 3 -> 12 -> 14 -> 2 -> 7 -> 4 ->
    18 -> 6 | Length = 3677,46
53 Ant 7: 7 -> 2 -> 14 -> 6 -> 12 -> 3 -> 1 -> 11 -> 8
    -> 13 -> 5 -> 9 -> 19 -> 15 -> 18 -> 4 -> 10 -> 17
    -> 16 -> 7 | Length = 4156,22
54 Ant 8: 8 -> 6 -> 14 -> 2 -> 7 -> 4 -> 18 -> 5 -> 13
    -> 9 -> 15 -> 19 -> 17 -> 3 -> 12 -> 1 -> 16 -> 10
    -> 11 -> 8 | Length = 3616,55
55 Ant 9: 9 -> 8 -> 13 -> 5 -> 17 -> 10 -> 11 -> 7 -> 2
    -> 14 -> 6 -> 19 -> 18 -> 4 -> 12 -> 3 -> 1 -> 16
    -> 15 -> 9 | Length = 3544,65
56 Ant 10: 10 -> 12 -> 3 -> 1 -> 14 -> 2 -> 4 -> 18 -> 7
    -> 13 -> 5 -> 11 -> 8 -> 9 -> 19 -> 6 -> 17 -> 15
    -> 16 -> 10 | Length = 4496,27
57 Ant 11: 11 -> 8 -> 5 -> 13 -> 19 -> 17 -> 10 -> 2 ->
    14 -> 6 -> 12 -> 3 -> 1 -> 16 -> 15 -> 9 -> 4 -> 18
    -> 7 -> 11 | Length = 3484,91
58 Ant 12: 12 -> 3 -> 11 -> 8 -> 9 -> 13 -> 5 -> 17 ->
    10 -> 4 -> 18 -> 7 -> 2 -> 14 -> 6 -> 1 -> 16 -> 19
    -> 15 -> 12 | Length = 3682,23
59 Ant 13: 13 -> 5 -> 8 -> 9 -> 19 -> 2 -> 14 -> 7 -> 4
    -> 18 -> 17 -> 10 -> 12 -> 3 -> 11 -> 1 -> 16 -> 6
    -> 15 -> 13 | Length = 4032,98
60 Ant 14: 14 -> 6 -> 2 -> 7 -> 18 -> 4 -> 10 -> 17 ->
    11 -> 8 -> 9 -> 13 -> 5 -> 3 -> 12 -> 1 -> 16 -> 15
    -> 19 -> 14 | Length = 3642,30
61 Ant 15: 15 -> 8 -> 5 -> 13 -> 9 -> 19 -> 17 -> 10 ->

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61 11 -> 7 -> 2 -> 14 -> 6 -> 1 -> 3 -> 12 -> 18 -> 4
    -> 16 -> 15 | Length = 3739,45
62 Ant 16: 16 -> 15 -> 9 -> 13 -> 5 -> 8 -> 11 -> 10
    -> 17 -> 18 -> 4 -> 7 -> 2 -> 14 -> 6 -> 19 -> 3
    -> 12 -> 1 -> 16 | Length = 3332,14
63 Ant 17: 17 -> 19 -> 18 -> 4 -> 16 -> 1 -> 3 -> 12
    -> 7 -> 2 -> 14 -> 6 -> 5 -> 13 -> 9 -> 8 -> 11 ->
    10 -> 15 -> 17 | Length = 4009,02
64 Ant 18: 18 -> 4 -> 2 -> 7 -> 3 -> 12 -> 10 -> 11 ->
    17 -> 19 -> 9 -> 13 -> 5 -> 8 -> 15 -> 16 -> 1 -> 6
    -> 14 -> 18 | Length = 3498,97
65 Ant 19: 19 -> 17 -> 1 -> 6 -> 4 -> 18 -> 7 -> 2 ->
    14 -> 10 -> 5 -> 13 -> 9 -> 8 -> 11 -> 12 -> 3 -> 16
    -> 15 -> 19 | Length = 3945,79
66 Best so far: 3055,15
67
68 ===== Iteration 4 =====
69 Ant 1: 1 -> 16 -> 15 -> 19 -> 17 -> 10 -> 11 -> 8
    -> 5 -> 13 -> 9 -> 6 -> 14 -> 2 -> 7 -> 4 -> 18 ->
    12 -> 3 -> 1 | Length = 3520,88
70 Ant 2: 2 -> 14 -> 6 -> 17 -> 11 -> 10 -> 4 -> 18 ->
    7 -> 19 -> 9 -> 13 -> 5 -> 8 -> 15 -> 16 -> 1 -> 12
    -> 3 -> 2 | Length = 3480,56
71 Ant 3: 3 -> 12 -> 10 -> 17 -> 19 -> 9 -> 13 -> 5 ->
    8 -> 1 -> 16 -> 18 -> 4 -> 14 -> 6 -> 2 -> 11 -> 7
    -> 15 -> 3 | Length = 4770,21
72 Ant 4: 4 -> 18 -> 7 -> 2 -> 14 -> 10 -> 17 -> 5 -> 9
    -> 8 -> 15 -> 19 -> 13 -> 12 -> 3 -> 1 -> 16 -> 11
    -> 6 -> 4 | Length = 3861,84
73 Ant 5: 5 -> 13 -> 9 -> 15 -> 8 -> 11 -> 1 -> 6 -> 14
    -> 2 -> 7 -> 4 -> 18 -> 10 -> 12 -> 3 -> 16 -> 17
    -> 19 -> 5 | Length = 3337,06
74 Ant 6: 6 -> 14 -> 2 -> 7 -> 4 -> 18 -> 11 -> 10 ->
    17 -> 19 -> 13 -> 5 -> 8 -> 9 -> 15 -> 16 -> 1 -> 12
    -> 3 -> 6 | Length = 3036,31
75 Ant 7: 7 -> 2 -> 14 -> 6 -> 18 -> 4 -> 10 -> 17 ->
    19 -> 9 -> 8 -> 5 -> 13 -> 15 -> 16 -> 1 -> 3 -> 12
    -> 11 -> 7 | Length = 3462,88
76 Ant 8: 8 -> 5 -> 13 -> 9 -> 16 -> 1 -> 3 -> 12 -> 17
    -> 19 -> 4 -> 18 -> 7 -> 2 -> 14 -> 6 -> 15 -> 10
    -> 11 -> 8 | Length = 3695,16

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77 Ant 9: 9 -> 13 -> 5 -> 8 -> 11 -> 12 -> 3 -> 1 -> 6
    -> 14 -> 2 -> 7 -> 4 -> 18 -> 19 -> 10 -> 17 -> 15
    -> 16 -> 9 | Length = 3484,75
78 Ant 10: 10 -> 17 -> 19 -> 9 -> 13 -> 5 -> 8 -> 11
    -> 1 -> 16 -> 14 -> 2 -> 6 -> 7 -> 18 -> 4 -> 12
    -> 3 -> 15 -> 10 | Length = 3940,79
79 Ant 11: 11 -> 10 -> 17 -> 18 -> 4 -> 7 -> 2 -> 14
    -> 6 -> 12 -> 3 -> 1 -> 16 -> 15 -> 9 -> 8 -> 5 ->
    13 -> 19 -> 11 | Length = 2973,01
80 Ant 12: 12 -> 3 -> 1 -> 16 -> 6 -> 14 -> 2 -> 7 -> 8
    -> 13 -> 5 -> 9 -> 15 -> 19 -> 17 -> 10 -> 11 -> 4
    -> 18 -> 12 | Length = 3678,88
81 Ant 13: 13 -> 5 -> 8 -> 9 -> 15 -> 11 -> 17 -> 6 ->
    14 -> 3 -> 12 -> 10 -> 4 -> 18 -> 7 -> 2 -> 19 -> 16
    -> 1 -> 13 | Length = 4263,04
82 Ant 14: 14 -> 6 -> 17 -> 11 -> 10 -> 12 -> 3 -> 1
    -> 16 -> 15 -> 8 -> 7 -> 2 -> 18 -> 4 -> 9 -> 13
    -> 5 -> 19 -> 14 | Length = 4121,14
83 Ant 15: 15 -> 9 -> 13 -> 5 -> 8 -> 10 -> 11 -> 17
    -> 18 -> 4 -> 19 -> 2 -> 14 -> 6 -> 1 -> 3 -> 12
    -> 16 -> 7 -> 15 | Length = 4028,60
84 Ant 16: 16 -> 12 -> 3 -> 1 -> 6 -> 14 -> 2 -> 18 ->
    4 -> 7 -> 10 -> 8 -> 5 -> 13 -> 15 -> 9 -> 19 -> 17
    -> 11 -> 16 | Length = 3341,71
85 Ant 17: 17 -> 10 -> 11 -> 8 -> 5 -> 13 -> 9 -> 15
    -> 19 -> 2 -> 14 -> 6 -> 1 -> 12 -> 3 -> 16 -> 7
    -> 4 -> 18 -> 17 | Length = 3541,93
86 Ant 18: 18 -> 4 -> 7 -> 14 -> 2 -> 6 -> 12 -> 3 -> 1
    -> 16 -> 11 -> 10 -> 5 -> 13 -> 8 -> 9 -> 19 -> 17
    -> 15 -> 18 | Length = 3568,51
87 Ant 19: 19 -> 17 -> 10 -> 18 -> 4 -> 7 -> 2 -> 6 ->
    3 -> 12 -> 1 -> 16 -> 9 -> 13 -> 5 -> 8 -> 11 -> 15
    -> 14 -> 19 | Length = 4170,48
88 Best so far: 2973,01
89
90 ===== Iteration 5 =====
91 Ant 1: 1 -> 3 -> 12 -> 16 -> 11 -> 17 -> 10 -> 5 ->
    13 -> 8 -> 9 -> 19 -> 4 -> 18 -> 7 -> 2 -> 14 -> 6
    -> 15 -> 1 | Length = 3787,82
92 Ant 2: 2 -> 7 -> 4 -> 18 -> 17 -> 10 -> 11 -> 8 -> 5
    -> 13 -> 9 -> 15 -> 12 -> 3 -> 1 -> 16 -> 14 -> 6

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92  -> 19 -> 2 | Length = 3755,93
93 Ant 3: 3 -> 12 -> 10 -> 17 -> 19 -> 18 -> 4 -> 2 ->
   6 -> 14 -> 7 -> 11 -> 8 -> 5 -> 13 -> 9 -> 15 -> 1
   -> 16 -> 3 | Length = 3451,51
94 Ant 4: 4 -> 18 -> 7 -> 2 -> 14 -> 6 -> 3 -> 12 -> 1
   -> 16 -> 11 -> 8 -> 5 -> 13 -> 9 -> 15 -> 19 -> 17
   -> 10 -> 4 | Length = 3011,67
95 Ant 5: 5 -> 13 -> 9 -> 15 -> 8 -> 11 -> 10 -> 17 ->
   19 -> 4 -> 18 -> 6 -> 2 -> 14 -> 1 -> 3 -> 12 -> 7
   -> 16 -> 5 | Length = 3869,01
96 Ant 6: 6 -> 14 -> 2 -> 7 -> 4 -> 18 -> 10 -> 17 ->
   19 -> 9 -> 13 -> 5 -> 11 -> 8 -> 15 -> 16 -> 1 -> 3
   -> 12 -> 6 | Length = 3048,90
97 Ant 7: 7 -> 4 -> 18 -> 17 -> 19 -> 13 -> 5 -> 8 ->
   15 -> 16 -> 1 -> 3 -> 12 -> 14 -> 2 -> 6 -> 11 -> 10
   -> 9 -> 7 | Length = 3819,45
98 Ant 8: 8 -> 5 -> 13 -> 9 -> 15 -> 19 -> 11 -> 17 ->
   10 -> 12 -> 3 -> 2 -> 6 -> 1 -> 16 -> 18 -> 4 -> 7
   -> 14 -> 8 | Length = 4065,14
99 Ant 9: 9 -> 13 -> 5 -> 8 -> 11 -> 3 -> 12 -> 10 ->
   17 -> 19 -> 7 -> 4 -> 18 -> 6 -> 14 -> 2 -> 16 -> 1
   -> 15 -> 9 | Length = 3656,46
100 Ant 10: 10 -> 6 -> 14 -> 2 -> 7 -> 4 -> 18 -> 5 ->
   13 -> 9 -> 8 -> 12 -> 3 -> 1 -> 16 -> 11 -> 17 -> 19
   -> 15 -> 10 | Length = 3650,64
101 Ant 11: 11 -> 5 -> 13 -> 9 -> 8 -> 15 -> 17 -> 10
   -> 14 -> 2 -> 7 -> 18 -> 4 -> 12 -> 3 -> 1 -> 16
   -> 6 -> 19 -> 11 | Length = 3989,03
102 Ant 12: 12 -> 3 -> 1 -> 16 -> 11 -> 10 -> 17 -> 13
   -> 5 -> 8 -> 9 -> 15 -> 14 -> 6 -> 2 -> 7 -> 18 ->
   4 -> 19 -> 12 | Length = 3469,38
103 Ant 13: 13 -> 5 -> 8 -> 9 -> 19 -> 17 -> 10 -> 11
   -> 12 -> 3 -> 1 -> 16 -> 15 -> 6 -> 14 -> 2 -> 7
   -> 18 -> 4 -> 13 | Length = 3478,68
104 Ant 14: 14 -> 6 -> 12 -> 3 -> 1 -> 16 -> 15 -> 17
   -> 10 -> 11 -> 8 -> 5 -> 13 -> 9 -> 19 -> 2 -> 7
   -> 4 -> 18 -> 14 | Length = 3458,30
105 Ant 15: 15 -> 9 -> 13 -> 5 -> 8 -> 11 -> 3 -> 12 ->
   10 -> 17 -> 18 -> 4 -> 7 -> 2 -> 14 -> 6 -> 1 -> 16
   -> 19 -> 15 | Length = 3267,40
106 Ant 16: 16 -> 1 -> 6 -> 2 -> 14 -> 4 -> 18 -> 17 ->

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106 15 -> 5 -> 13 -> 19 -> 9 -> 8 -> 11 -> 10 -> 12 -> 3
    -> 7 -> 16 | Length = 3998,56
107 Ant 17: 17 -> 10 -> 11 -> 6 -> 14 -> 2 -> 7 -> 4 ->
    18 -> 19 -> 9 -> 13 -> 5 -> 8 -> 15 -> 16 -> 1 -> 3
    -> 12 -> 17 | Length = 3075,64
108 Ant 18: 18 -> 4 -> 7 -> 2 -> 14 -> 6 -> 3 -> 12 -> 1
    -> 16 -> 19 -> 17 -> 10 -> 11 -> 8 -> 5 -> 13 -> 9
    -> 15 -> 18 | Length = 3356,00
109 Ant 19: 19 -> 17 -> 10 -> 12 -> 3 -> 8 -> 5 -> 13
    -> 9 -> 15 -> 16 -> 1 -> 6 -> 14 -> 2 -> 18 -> 4
    -> 7 -> 11 -> 19 | Length = 3498,62
110 Best so far: 2973,01
111
112 ===== Iteration 6 =====
113 Ant 1: 1 -> 3 -> 12 -> 10 -> 17 -> 19 -> 9 -> 8 -> 5
    -> 13 -> 4 -> 18 -> 7 -> 2 -> 14 -> 6 -> 11 -> 16
    -> 15 -> 1 | Length = 3727,12
114 Ant 2: 2 -> 7 -> 4 -> 18 -> 15 -> 9 -> 8 -> 5 -> 13
    -> 19 -> 17 -> 10 -> 11 -> 12 -> 3 -> 1 -> 16 -> 14
    -> 6 -> 2 | Length = 3282,11
115 Ant 3: 3 -> 12 -> 17 -> 10 -> 11 -> 8 -> 5 -> 13 ->
    15 -> 9 -> 19 -> 4 -> 18 -> 6 -> 14 -> 2 -> 7 -> 16
    -> 1 -> 3 | Length = 3336,61
116 Ant 4: 4 -> 18 -> 17 -> 10 -> 11 -> 8 -> 5 -> 13 ->
    9 -> 15 -> 16 -> 1 -> 12 -> 3 -> 6 -> 19 -> 7 -> 2
    -> 14 -> 4 | Length = 3553,90
117 Ant 5: 5 -> 8 -> 9 -> 13 -> 17 -> 10 -> 11 -> 12 ->
    3 -> 1 -> 16 -> 15 -> 19 -> 4 -> 18 -> 7 -> 2 -> 14
    -> 6 -> 5 | Length = 3378,65
118 Ant 6: 6 -> 14 -> 2 -> 7 -> 18 -> 4 -> 19 -> 17 ->
    10 -> 11 -> 5 -> 13 -> 9 -> 8 -> 15 -> 16 -> 1 -> 3
    -> 12 -> 6 | Length = 2894,26
119 Ant 7: 7 -> 4 -> 18 -> 17 -> 10 -> 12 -> 3 -> 1 -> 6
    -> 2 -> 14 -> 15 -> 8 -> 5 -> 13 -> 9 -> 19 -> 11
    -> 16 -> 7 | Length = 4017,01
120 Ant 8: 8 -> 9 -> 13 -> 5 -> 15 -> 16 -> 1 -> 6 -> 14
    -> 2 -> 7 -> 18 -> 4 -> 19 -> 17 -> 10 -> 11 -> 12
    -> 3 -> 8 | Length = 3142,95
121 Ant 9: 9 -> 13 -> 5 -> 8 -> 11 -> 10 -> 17 -> 19 ->
    7 -> 4 -> 18 -> 2 -> 14 -> 6 -> 16 -> 1 -> 3 -> 12
    -> 15 -> 9 | Length = 3285,76

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122 Ant 10: 10 -> 17 -> 5 -> 13 -> 9 -> 8 -> 11 -> 3 ->
    12 -> 6 -> 14 -> 2 -> 7 -> 4 -> 18 -> 19 -> 15 -> 16
    -> 1 -> 10 | Length = 3269,76
123 Ant 11: 11 -> 8 -> 5 -> 13 -> 4 -> 18 -> 7 -> 2 ->
    14 -> 6 -> 3 -> 12 -> 10 -> 17 -> 19 -> 9 -> 15 ->
    16 -> 1 -> 11 | Length = 3237,77
124 Ant 12: 12 -> 3 -> 1 -> 6 -> 14 -> 2 -> 7 -> 4 -> 18
    -> 17 -> 10 -> 11 -> 8 -> 5 -> 13 -> 9 -> 15 -> 16
    -> 19 -> 12 | Length = 3443,76
125 Ant 13: 13 -> 5 -> 8 -> 9 -> 15 -> 1 -> 16 -> 11 ->
    10 -> 17 -> 19 -> 4 -> 18 -> 12 -> 3 -> 6 -> 2 -> 14
    -> 7 -> 13 | Length = 3735,77
126 Ant 14: 14 -> 6 -> 2 -> 7 -> 18 -> 4 -> 10 -> 17 ->
    19 -> 9 -> 5 -> 13 -> 8 -> 11 -> 3 -> 12 -> 1 -> 16
    -> 15 -> 14 | Length = 3561,26
127 Ant 15: 15 -> 8 -> 5 -> 13 -> 9 -> 19 -> 17 -> 10
    -> 11 -> 3 -> 12 -> 18 -> 4 -> 7 -> 2 -> 14 -> 6
    -> 1 -> 16 -> 15 | Length = 3100,14
128 Ant 16: 16 -> 1 -> 12 -> 3 -> 7 -> 4 -> 18 -> 10 ->
    17 -> 5 -> 13 -> 9 -> 19 -> 15 -> 8 -> 11 -> 6 -> 14
    -> 2 -> 16 | Length = 3733,63
129 Ant 17: 17 -> 19 -> 9 -> 13 -> 5 -> 8 -> 11 -> 10
    -> 18 -> 4 -> 2 -> 14 -> 16 -> 12 -> 3 -> 1 -> 6
    -> 15 -> 7 -> 17 | Length = 4509,44
130 Ant 18: 18 -> 4 -> 7 -> 2 -> 6 -> 14 -> 12 -> 3 -> 1
    -> 16 -> 10 -> 17 -> 19 -> 9 -> 13 -> 5 -> 8 -> 15
    -> 11 -> 18 | Length = 3295,92
131 Ant 19: 19 -> 9 -> 13 -> 5 -> 8 -> 11 -> 3 -> 12 ->
    1 -> 16 -> 15 -> 18 -> 4 -> 7 -> 2 -> 14 -> 6 -> 10
    -> 17 -> 19 | Length = 3375,67
132 Best so far: 2894,26
133
134 ===== Iteration 7 =====
135 Ant 1: 1 -> 6 -> 14 -> 2 -> 7 -> 4 -> 18 -> 19 -> 17
    -> 10 -> 5 -> 13 -> 9 -> 15 -> 8 -> 11 -> 3 -> 12
    -> 16 -> 1 | Length = 2872,79
136 Ant 2: 2 -> 7 -> 18 -> 4 -> 14 -> 6 -> 1 -> 16 -> 5
    -> 13 -> 19 -> 9 -> 8 -> 15 -> 17 -> 10 -> 12 -> 3
    -> 11 -> 2 | Length = 3715,99
137 Ant 3: 3 -> 12 -> 11 -> 8 -> 15 -> 16 -> 1 -> 6 ->
    14 -> 2 -> 7 -> 4 -> 18 -> 17 -> 10 -> 9 -> 13 -> 5

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137	-> 19 -> 3 Length = 3409,57
138	Ant 4: 4 -> 18 -> 19 -> 17 -> 13 -> 5 -> 8 -> 3 -> 12 -> 10 -> 11 -> 6 -> 14 -> 2 -> 7 -> 16 -> 1 -> 15 -> 9 -> 4 Length = 4116,13
139	Ant 5: 5 -> 13 -> 8 -> 9 -> 19 -> 12 -> 3 -> 11 -> 10 -> 17 -> 18 -> 4 -> 7 -> 2 -> 14 -> 6 -> 1 -> 16 -> 15 -> 5 Length = 3285,37
140	Ant 6: 6 -> 2 -> 14 -> 7 -> 4 -> 18 -> 17 -> 10 -> 11 -> 3 -> 12 -> 16 -> 15 -> 8 -> 5 -> 13 -> 9 -> 19 -> 1 -> 6 Length = 3528,80
141	Ant 7: 7 -> 4 -> 18 -> 19 -> 9 -> 13 -> 5 -> 8 -> 11 -> 15 -> 10 -> 17 -> 2 -> 14 -> 6 -> 3 -> 12 -> 1 -> 16 -> 7 Length = 3645,02
142	Ant 8: 8 -> 5 -> 13 -> 9 -> 15 -> 17 -> 19 -> 4 -> 18 -> 7 -> 2 -> 6 -> 14 -> 12 -> 3 -> 1 -> 16 -> 10 -> 11 -> 8 Length = 3133,94
143	Ant 9: 9 -> 8 -> 5 -> 13 -> 17 -> 10 -> 11 -> 2 -> 14 -> 6 -> 12 -> 3 -> 1 -> 16 -> 15 -> 19 -> 4 -> 18 -> 7 -> 9 Length = 3630,47
144	Ant 10: 10 -> 17 -> 5 -> 13 -> 9 -> 19 -> 2 -> 6 -> 14 -> 7 -> 18 -> 4 -> 12 -> 3 -> 1 -> 16 -> 15 -> 8 -> 11 -> 10 Length = 3342,11
145	Ant 11: 11 -> 10 -> 2 -> 7 -> 14 -> 6 -> 3 -> 1 -> 12 -> 16 -> 15 -> 9 -> 8 -> 13 -> 5 -> 17 -> 19 -> 4 -> 18 -> 11 Length = 3587,63
146	Ant 12: 12 -> 3 -> 8 -> 9 -> 13 -> 5 -> 19 -> 17 -> 10 -> 11 -> 16 -> 1 -> 6 -> 2 -> 14 -> 18 -> 4 -> 7 -> 15 -> 12 Length = 3941,94
147	Ant 13: 13 -> 5 -> 8 -> 3 -> 12 -> 11 -> 10 -> 17 -> 18 -> 4 -> 7 -> 2 -> 14 -> 6 -> 19 -> 9 -> 15 -> 16 -> 1 -> 13 Length = 3665,72
148	Ant 14: 14 -> 6 -> 2 -> 7 -> 4 -> 18 -> 5 -> 13 -> 9 -> 8 -> 15 -> 19 -> 17 -> 10 -> 11 -> 3 -> 12 -> 1 -> 16 -> 14 Length = 3345,25
149	Ant 15: 15 -> 9 -> 13 -> 5 -> 8 -> 11 -> 10 -> 17 -> 19 -> 18 -> 4 -> 7 -> 2 -> 14 -> 6 -> 3 -> 12 -> 1 -> 16 -> 15 Length = 2826,08
150	Ant 16: 16 -> 1 -> 3 -> 12 -> 6 -> 14 -> 2 -> 7 -> 18 -> 4 -> 19 -> 9 -> 13 -> 5 -> 8 -> 10 -> 11 -> 17 -> 15 -> 16 Length = 3173,05
151	Ant 17: 17 -> 10 -> 11 -> 19 -> 12 -> 3 -> 1 -> 6

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151  -> 14 -> 2 -> 7 -> 4 -> 18 -> 5 -> 13 -> 9 -> 8 ->
    15 -> 16 -> 17 | Length = 3661,89
152 Ant 18: 18 -> 4 -> 7 -> 2 -> 14 -> 6 -> 12 -> 3 -> 1
    -> 16 -> 15 -> 8 -> 5 -> 13 -> 9 -> 19 -> 17 -> 10
    -> 11 -> 18 | Length = 3031,38
153 Ant 19: 19 -> 2 -> 14 -> 6 -> 3 -> 12 -> 10 -> 17
    -> 18 -> 4 -> 7 -> 11 -> 5 -> 13 -> 9 -> 8 -> 15
    -> 16 -> 1 -> 19 | Length = 3881,37
154 Best so far: 2826,08
155
156 ===== Iteration 8 =====
157 Ant 1: 1 -> 16 -> 15 -> 9 -> 8 -> 5 -> 13 -> 19 ->
    17 -> 10 -> 11 -> 3 -> 12 -> 6 -> 14 -> 2 -> 7 -> 18
    -> 4 -> 1 | Length = 3174,79
158 Ant 2: 2 -> 14 -> 6 -> 3 -> 12 -> 1 -> 16 -> 15 -> 9
    -> 8 -> 5 -> 13 -> 19 -> 17 -> 10 -> 11 -> 7 -> 4
    -> 18 -> 2 | Length = 3185,74
159 Ant 3: 3 -> 12 -> 10 -> 17 -> 11 -> 5 -> 13 -> 9 ->
    8 -> 15 -> 16 -> 1 -> 6 -> 2 -> 14 -> 18 -> 4 -> 19
    -> 7 -> 3 | Length = 3601,50
160 Ant 4: 4 -> 18 -> 7 -> 2 -> 14 -> 6 -> 1 -> 3 -> 12
    -> 11 -> 10 -> 17 -> 19 -> 9 -> 8 -> 5 -> 13 -> 15
    -> 16 -> 4 | Length = 3389,94
161 Ant 5: 5 -> 13 -> 9 -> 19 -> 11 -> 8 -> 15 -> 6 ->
    14 -> 4 -> 18 -> 7 -> 2 -> 16 -> 1 -> 3 -> 12 -> 10
    -> 17 -> 5 | Length = 3835,49
162 Ant 6: 6 -> 14 -> 2 -> 7 -> 18 -> 4 -> 19 -> 17 ->
    10 -> 11 -> 8 -> 5 -> 13 -> 9 -> 15 -> 16 -> 1 -> 3
    -> 12 -> 6 | Length = 2776,62
163 Ant 7: 7 -> 18 -> 4 -> 12 -> 3 -> 1 -> 16 -> 15 -> 8
    -> 5 -> 13 -> 9 -> 19 -> 17 -> 10 -> 11 -> 2 -> 14
    -> 6 -> 7 | Length = 3298,83
164 Ant 8: 8 -> 15 -> 9 -> 13 -> 5 -> 17 -> 10 -> 11 ->
    3 -> 12 -> 1 -> 16 -> 14 -> 6 -> 2 -> 7 -> 4 -> 18
    -> 19 -> 8 | Length = 3097,22
165 Ant 9: 9 -> 15 -> 8 -> 5 -> 13 -> 17 -> 10 -> 11 ->
    3 -> 12 -> 1 -> 16 -> 19 -> 18 -> 4 -> 7 -> 14 -> 2
    -> 6 -> 9 | Length = 3557,77
166 Ant 10: 10 -> 17 -> 18 -> 4 -> 7 -> 2 -> 14 -> 6 ->
    1 -> 12 -> 3 -> 11 -> 8 -> 5 -> 13 -> 9 -> 19 -> 16
    -> 15 -> 10 | Length = 3584,14

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167	Ant 11:	11 -> 8 -> 13 -> 5 -> 18 -> 4 -> 7 -> 2 -> 14 -> 6 -> 3 -> 12 -> 10 -> 17 -> 19 -> 9 -> 15 -> 16 -> 1 -> 11 Length = 3260,68
168	Ant 12:	12 -> 3 -> 1 -> 16 -> 11 -> 8 -> 9 -> 19 -> 17 -> 5 -> 13 -> 15 -> 10 -> 4 -> 18 -> 7 -> 14 -> 6 -> 2 -> 12 Length = 3439,19
169	Ant 13:	13 -> 5 -> 8 -> 11 -> 10 -> 9 -> 15 -> 16 -> 3 -> 1 -> 6 -> 14 -> 2 -> 7 -> 4 -> 18 -> 17 -> 19 -> 12 -> 13 Length = 3677,18
170	Ant 14:	14 -> 6 -> 2 -> 7 -> 4 -> 18 -> 17 -> 10 -> 11 -> 8 -> 9 -> 13 -> 5 -> 19 -> 1 -> 16 -> 15 -> 12 -> 3 -> 14 Length = 3713,79
171	Ant 15:	15 -> 16 -> 1 -> 3 -> 12 -> 11 -> 10 -> 17 -> 13 -> 5 -> 8 -> 9 -> 19 -> 18 -> 4 -> 7 -> 2 -> 14 -> 6 -> 15 Length = 3336,86
172	Ant 16:	16 -> 1 -> 12 -> 3 -> 8 -> 5 -> 13 -> 9 -> 19 -> 17 -> 10 -> 11 -> 7 -> 4 -> 18 -> 6 -> 14 -> 2 -> 15 -> 16 Length = 3882,11
173	Ant 17:	17 -> 10 -> 12 -> 3 -> 2 -> 14 -> 6 -> 1 -> 16 -> 15 -> 8 -> 5 -> 13 -> 9 -> 19 -> 4 -> 18 -> 7 -> 11 -> 17 Length = 3357,80
174	Ant 18:	18 -> 4 -> 10 -> 11 -> 8 -> 5 -> 13 -> 9 -> 19 -> 17 -> 15 -> 16 -> 7 -> 2 -> 14 -> 6 -> 3 -> 12 -> 1 -> 18 Length = 4009,65
175	Ant 19:	19 -> 4 -> 18 -> 7 -> 2 -> 14 -> 6 -> 1 -> 3 -> 12 -> 11 -> 8 -> 5 -> 13 -> 9 -> 15 -> 17 -> 10 -> 16 -> 19 Length = 3423,05
176	Best so far:	2776,62