Test 5 20x20

Original Map

s 0 0 0 0 0 0 0 1 0 0 0 0 0 0 0 0 0 1 0

0 1 1 0 0 0 0 1 0 0 0 1 1 0 0 0 0 1 0 0

0 0 1 0 1 0 0 0 0 0 0 0 0 1 0 0 0 0 0 0

0 0 1 0 1 0 0 0 0 0 0 0 1 0 1 0 0 0 0 0

0 0 1 0 0 0 1 1 0 0 0 0 1 0 0 0 0 1 0 0

0 0 0 0 0 0 1 0 0 0 0 0 0 0 0 0 1 0 0 0

0 1 1 0 0 0 1 0 0 0 0 1 0 0 0 0 1 0 0 0

0 0 0 1 0 0 0 0 0 1 0 0 0 1 0 0 0 0 0 0

0 0 0 1 0 0 0 1 1 0 1 0 0 1 0 0 0 1 0 0

0 0 1 0 0 1 0 1 1 0 0 0 1 0 0 1 0 0 1 0

0 0 0 0 0 0 0 0 1 0 0 0 0 0 0 0 0 0 1 0

0 1 1 0 0 0 1 1 1 0 0 1 1 0 0 0 0 1 0 0

0 0 1 0 1 0 0 0 0 0 0 0 0 1 0 0 0 0 0 0

0 0 1 0 1 0 0 0 0 0 1 0 1 0 0 0 0 0 0 0

0 0 0 0 0 0 1 1 0 0 0 0 0 0 0 0 1 1 0 0

0 0 0 0 0 0 1 0 0 1 0 0 0 0 0 0 1 0 0 0

0 1 1 0 0 0 1 0 0 0 0 1 1 0 0 0 1 0 0 0

0 0 0 1 0 0 0 0 0 0 0 0 0 1 0 0 0 0 0 0

0 0 0 1 0 0 0 1 1 0 1 0 0 1 0 0 0 1 1 0

0 0 1 0 0 1 0 0 1 0 0 0 1 0 0 1 0 e 1 0

Added in new antGroup 0

A1 trails count: 58 A2 trails count: 56 A3 trails count: 42 A4 trails count: 86 A5 trails count: 40 A6 trails count: 44 A7 trails count: 90 A8 trails count: 52 A9 trails count: 46 A10 trails count: 58

Ant Trail Min Size is: 40 Found at Ant5

Best Ant has size: 40, and has a path of:

s 0 0 0 0 0 0 0 1 0 0 0 0 0 0 0 0 0 1 0

x 1 1 0 0 0 0 1 0 0 0 1 1 0 0 0 0 1 0 0

x 0 1 0 1 0 0 0 0 0 0 0 0 1 0 0 0 0 0 0

x x 1 0 1 0 0 0 0 0 0 0 1 0 1 0 0 0 0 0

0 x 1 0 0 0 1 1 0 0 0 0 1 0 0 0 0 1 0 0

0 x x x 0 0 1 0 0 0 0 0 0 0 0 0 1 0 0 0

0 1 1 x x x 1 0 0 0 0 1 0 0 0 0 1 0 0 0

0 0 0 1 0 x 0 0 0 1 0 0 0 1 0 0 0 0 0 0

0 0 0 1 0 x x 1 1 0 1 0 0 1 0 0 0 1 0 0

0 0 1 0 0 1 x 1 1 0 0 0 1 0 0 1 0 0 1 0

0 0 0 0 0 x x x 1 0 0 0 0 0 0 0 0 0 1 0

0 1 1 0 0 x 1 1 1 0 0 1 1 0 0 0 0 1 0 0

0 0 1 0 1 x x x x x 0 0 0 1 0 0 0 0 0 0

0 0 1 0 1 0 0 0 0 x 1 0 1 0 0 0 0 0 0 0

0 0 0 0 0 0 1 1 0 x x x x 0 0 0 1 1 0 0

0 0 0 0 0 0 1 0 0 1 0 0 x x 0 0 1 0 0 0

0 1 1 0 0 0 1 0 0 0 0 1 1 x x 0 1 0 0 0

0 0 0 1 0 0 0 0 0 0 0 0 0 1 x 0 0 0 0 0

0 0 0 1 0 0 0 1 1 0 1 0 0 1 x x x 1 1 0

0 0 1 0 0 1 0 0 1 0 0 0 1 0 0 1 x e 1 0

Added in new antGroup 1

A1 trails count: 42 A2 trails count: 40 A3 trails count: 42 A4 trails count: 52 A5 trails count: 46 A6 trails count: 40 A7 trails count: 50 A8 trails count: 40 A9 trails count: 42 A10 trails count: 340

Ant Trail Min Size is: 40 Found at Ant5

Best Ant has size: 40, and has a path of:

s 0 0 0 0 0 0 0 1 0 0 0 0 0 0 0 0 0 1 0

x 1 1 0 0 0 0 1 0 0 0 1 1 0 0 0 0 1 0 0

x 0 1 0 1 0 0 0 0 0 0 0 0 1 0 0 0 0 0 0

x x 1 0 1 0 0 0 0 0 0 0 1 0 1 0 0 0 0 0

0 x 1 0 0 0 1 1 0 0 0 0 1 0 0 0 0 1 0 0

0 x x x 0 0 1 0 0 0 0 0 0 0 0 0 1 0 0 0

0 1 1 x x x 1 0 0 0 0 1 0 0 0 0 1 0 0 0

0 0 0 1 0 x 0 0 0 1 0 0 0 1 0 0 0 0 0 0

0 0 0 1 0 x x 1 1 0 1 0 0 1 0 0 0 1 0 0

0 0 1 0 0 1 x 1 1 0 0 0 1 0 0 1 0 0 1 0

0 0 0 0 0 x x x 1 0 0 0 0 0 0 0 0 0 1 0

0 1 1 0 0 x 1 1 1 0 0 1 1 0 0 0 0 1 0 0

0 0 1 0 1 x x x x x 0 0 0 1 0 0 0 0 0 0

0 0 1 0 1 0 0 0 0 x 1 0 1 0 0 0 0 0 0 0

0 0 0 0 0 0 1 1 0 x x x x 0 0 0 1 1 0 0

0 0 0 0 0 0 1 0 0 1 0 0 x x 0 0 1 0 0 0

0 1 1 0 0 0 1 0 0 0 0 1 1 x x 0 1 0 0 0

0 0 0 1 0 0 0 0 0 0 0 0 0 1 x 0 0 0 0 0

0 0 0 1 0 0 0 1 1 0 1 0 0 1 x x x 1 1 0

0 0 1 0 0 1 0 0 1 0 0 0 1 0 0 1 x e 1 0

Added in new antGroup 2

A1 trails count: 82 A2 trails count: 62 A3 trails count: 42 A4 trails count: 178 A5 trails count: 60 A6 trails count: 54 A7 trails count: 44 A8 trails count: 40 A9 trails count: 114 A10 trails count: 58

Ant Trail Min Size is: 40 Found at Ant5

Best Ant has size: 40, and has a path of:

s 0 0 0 0 0 0 0 1 0 0 0 0 0 0 0 0 0 1 0

x 1 1 0 0 0 0 1 0 0 0 1 1 0 0 0 0 1 0 0

x 0 1 0 1 0 0 0 0 0 0 0 0 1 0 0 0 0 0 0

x x 1 0 1 0 0 0 0 0 0 0 1 0 1 0 0 0 0 0

0 x 1 0 0 0 1 1 0 0 0 0 1 0 0 0 0 1 0 0

0 x x x 0 0 1 0 0 0 0 0 0 0 0 0 1 0 0 0

0 1 1 x x x 1 0 0 0 0 1 0 0 0 0 1 0 0 0

0 0 0 1 0 x 0 0 0 1 0 0 0 1 0 0 0 0 0 0

0 0 0 1 0 x x 1 1 0 1 0 0 1 0 0 0 1 0 0

0 0 1 0 0 1 x 1 1 0 0 0 1 0 0 1 0 0 1 0

0 0 0 0 0 x x x 1 0 0 0 0 0 0 0 0 0 1 0

0 1 1 0 0 x 1 1 1 0 0 1 1 0 0 0 0 1 0 0

0 0 1 0 1 x x x x x 0 0 0 1 0 0 0 0 0 0

0 0 1 0 1 0 0 0 0 x 1 0 1 0 0 0 0 0 0 0

0 0 0 0 0 0 1 1 0 x x x x 0 0 0 1 1 0 0

0 0 0 0 0 0 1 0 0 1 0 0 x x 0 0 1 0 0 0

0 1 1 0 0 0 1 0 0 0 0 1 1 x x 0 1 0 0 0

0 0 0 1 0 0 0 0 0 0 0 0 0 1 x 0 0 0 0 0

0 0 0 1 0 0 0 1 1 0 1 0 0 1 x x x 1 1 0

0 0 1 0 0 1 0 0 1 0 0 0 1 0 0 1 x e 1 0

Added in new antGroup 3

A1 trails count: 78 A2 trails count: 76 A3 trails count: 58 A4 trails count: 42 A5 trails count: 50 A6 trails count: 140 A7 trails count: 108 A8 trails count: 52 A9 trails count: 40 A10 trails count: 42

Ant Trail Min Size is: 40 Found at Ant5

Best Ant has size: 40, and has a path of:

s 0 0 0 0 0 0 0 1 0 0 0 0 0 0 0 0 0 1 0

x 1 1 0 0 0 0 1 0 0 0 1 1 0 0 0 0 1 0 0

x 0 1 0 1 0 0 0 0 0 0 0 0 1 0 0 0 0 0 0

x x 1 0 1 0 0 0 0 0 0 0 1 0 1 0 0 0 0 0

0 x 1 0 0 0 1 1 0 0 0 0 1 0 0 0 0 1 0 0

0 x x x 0 0 1 0 0 0 0 0 0 0 0 0 1 0 0 0

0 1 1 x x x 1 0 0 0 0 1 0 0 0 0 1 0 0 0

0 0 0 1 0 x 0 0 0 1 0 0 0 1 0 0 0 0 0 0

0 0 0 1 0 x x 1 1 0 1 0 0 1 0 0 0 1 0 0

0 0 1 0 0 1 x 1 1 0 0 0 1 0 0 1 0 0 1 0

0 0 0 0 0 x x x 1 0 0 0 0 0 0 0 0 0 1 0

0 1 1 0 0 x 1 1 1 0 0 1 1 0 0 0 0 1 0 0

0 0 1 0 1 x x x x x 0 0 0 1 0 0 0 0 0 0

0 0 1 0 1 0 0 0 0 x 1 0 1 0 0 0 0 0 0 0

0 0 0 0 0 0 1 1 0 x x x x 0 0 0 1 1 0 0

0 0 0 0 0 0 1 0 0 1 0 0 x x 0 0 1 0 0 0

0 1 1 0 0 0 1 0 0 0 0 1 1 x x 0 1 0 0 0

0 0 0 1 0 0 0 0 0 0 0 0 0 1 x 0 0 0 0 0

0 0 0 1 0 0 0 1 1 0 1 0 0 1 x x x 1 1 0

0 0 1 0 0 1 0 0 1 0 0 0 1 0 0 1 x e 1 0

Added in new antGroup 4

A1 trails count: 44 A2 trails count: 42 A3 trails count: 48 A4 trails count: 64 A5 trails count: 406 A6 trails count: 234 A7 trails count: 168 A8 trails count: 400 A9 trails count: 84 A10 trails count: 86

Ant Trail Min Size is: 40 Found at Ant5

Best Ant has size: 40, and has a path of:

s 0 0 0 0 0 0 0 1 0 0 0 0 0 0 0 0 0 1 0

x 1 1 0 0 0 0 1 0 0 0 1 1 0 0 0 0 1 0 0

x 0 1 0 1 0 0 0 0 0 0 0 0 1 0 0 0 0 0 0

x x 1 0 1 0 0 0 0 0 0 0 1 0 1 0 0 0 0 0

0 x 1 0 0 0 1 1 0 0 0 0 1 0 0 0 0 1 0 0

0 x x x 0 0 1 0 0 0 0 0 0 0 0 0 1 0 0 0

0 1 1 x x x 1 0 0 0 0 1 0 0 0 0 1 0 0 0

0 0 0 1 0 x 0 0 0 1 0 0 0 1 0 0 0 0 0 0

0 0 0 1 0 x x 1 1 0 1 0 0 1 0 0 0 1 0 0

0 0 1 0 0 1 x 1 1 0 0 0 1 0 0 1 0 0 1 0

0 0 0 0 0 x x x 1 0 0 0 0 0 0 0 0 0 1 0

0 1 1 0 0 x 1 1 1 0 0 1 1 0 0 0 0 1 0 0

0 0 1 0 1 x x x x x 0 0 0 1 0 0 0 0 0 0

0 0 1 0 1 0 0 0 0 x 1 0 1 0 0 0 0 0 0 0

0 0 0 0 0 0 1 1 0 x x x x 0 0 0 1 1 0 0

0 0 0 0 0 0 1 0 0 1 0 0 x x 0 0 1 0 0 0

0 1 1 0 0 0 1 0 0 0 0 1 1 x x 0 1 0 0 0

0 0 0 1 0 0 0 0 0 0 0 0 0 1 x 0 0 0 0 0

0 0 0 1 0 0 0 1 1 0 1 0 0 1 x x x 1 1 0

0 0 1 0 0 1 0 0 1 0 0 0 1 0 0 1 x e 1 0

Added in new antGroup 5

A1 trails count: 44 A2 trails count: 104 A3 trails count: 38 A4 trails count: 42 A5 trails count: 52 A6 trails count: 58 A7 trails count: 40 A8 trails count: 38 A9 trails count: 158 A10 trails count: 104

Ant Trail Min Size is: 38 Found at Ant53

Best Ant has size: 38, and has a path of:

s 0 0 0 0 0 0 0 1 0 0 0 0 0 0 0 0 0 1 0

x 1 1 0 0 0 0 1 0 0 0 1 1 0 0 0 0 1 0 0

x 0 1 0 1 0 0 0 0 0 0 0 0 1 0 0 0 0 0 0

x x 1 0 1 0 0 0 0 0 0 0 1 0 1 0 0 0 0 0

0 x 1 0 0 0 1 1 0 0 0 0 1 0 0 0 0 1 0 0

0 x x x 0 0 1 0 0 0 0 0 0 0 0 0 1 0 0 0

0 1 1 x x x 1 0 0 0 0 1 0 0 0 0 1 0 0 0

0 0 0 1 0 x 0 0 0 1 0 0 0 1 0 0 0 0 0 0

0 0 0 1 0 x x 1 1 0 1 0 0 1 0 0 0 1 0 0

0 0 1 0 0 1 x 1 1 0 0 0 1 0 0 1 0 0 1 0

0 0 0 0 0 x x 0 1 0 0 0 0 0 0 0 0 0 1 0

0 1 1 0 0 x 1 1 1 0 0 1 1 0 0 0 0 1 0 0

0 0 1 0 1 x x 0 0 0 0 0 0 1 0 0 0 0 0 0

0 0 1 0 1 0 x x x x 1 0 1 0 0 0 0 0 0 0

0 0 0 0 0 0 1 1 0 x x 0 0 0 0 0 1 1 0 0

0 0 0 0 0 0 1 0 0 1 x x x x 0 0 1 0 0 0

0 1 1 0 0 0 1 0 0 0 0 1 1 x x x 1 0 0 0

0 0 0 1 0 0 0 0 0 0 0 0 0 1 0 x 0 0 0 0

0 0 0 1 0 0 0 1 1 0 1 0 0 1 0 x x 1 1 0

0 0 1 0 0 1 0 0 1 0 0 0 1 0 0 1 x e 1 0

Added in new antGroup 6

A1 trails count: 58 A2 trails count: 94 A3 trails count: 50 A4 trails count: 40 A5 trails count: 40 A6 trails count: 48 A7 trails count: 38 A8 trails count: 60 A9 trails count: 48 A10 trails count: 40

Ant Trail Min Size is: 38 Found at Ant53

Best Ant has size: 38, and has a path of:

s 0 0 0 0 0 0 0 1 0 0 0 0 0 0 0 0 0 1 0

x 1 1 0 0 0 0 1 0 0 0 1 1 0 0 0 0 1 0 0

x 0 1 0 1 0 0 0 0 0 0 0 0 1 0 0 0 0 0 0

x x 1 0 1 0 0 0 0 0 0 0 1 0 1 0 0 0 0 0

0 x 1 0 0 0 1 1 0 0 0 0 1 0 0 0 0 1 0 0

0 x x x 0 0 1 0 0 0 0 0 0 0 0 0 1 0 0 0

0 1 1 x x x 1 0 0 0 0 1 0 0 0 0 1 0 0 0

0 0 0 1 0 x 0 0 0 1 0 0 0 1 0 0 0 0 0 0

0 0 0 1 0 x x 1 1 0 1 0 0 1 0 0 0 1 0 0

0 0 1 0 0 1 x 1 1 0 0 0 1 0 0 1 0 0 1 0

0 0 0 0 0 x x 0 1 0 0 0 0 0 0 0 0 0 1 0

0 1 1 0 0 x 1 1 1 0 0 1 1 0 0 0 0 1 0 0

0 0 1 0 1 x x 0 0 0 0 0 0 1 0 0 0 0 0 0

0 0 1 0 1 0 x x x x 1 0 1 0 0 0 0 0 0 0

0 0 0 0 0 0 1 1 0 x x 0 0 0 0 0 1 1 0 0

0 0 0 0 0 0 1 0 0 1 x x x x 0 0 1 0 0 0

0 1 1 0 0 0 1 0 0 0 0 1 1 x x x 1 0 0 0

0 0 0 1 0 0 0 0 0 0 0 0 0 1 0 x 0 0 0 0

0 0 0 1 0 0 0 1 1 0 1 0 0 1 0 x x 1 1 0

0 0 1 0 0 1 0 0 1 0 0 0 1 0 0 1 x e 1 0

Added in new antGroup 7

A1 trails count: 58 A2 trails count: 42 A3 trails count: 2764 A4 trails count: 440 A5 trails count: 638 A6 trails count: 696 A7 trails count: 408 A8 trails count: 936 A9 trails count: 222 A10 trails count: 262

Ant Trail Min Size is: 38 Found at Ant53

Best Ant has size: 38, and has a path of:

s 0 0 0 0 0 0 0 1 0 0 0 0 0 0 0 0 0 1 0

x 1 1 0 0 0 0 1 0 0 0 1 1 0 0 0 0 1 0 0

x 0 1 0 1 0 0 0 0 0 0 0 0 1 0 0 0 0 0 0

x x 1 0 1 0 0 0 0 0 0 0 1 0 1 0 0 0 0 0

0 x 1 0 0 0 1 1 0 0 0 0 1 0 0 0 0 1 0 0

0 x x x 0 0 1 0 0 0 0 0 0 0 0 0 1 0 0 0

0 1 1 x x x 1 0 0 0 0 1 0 0 0 0 1 0 0 0

0 0 0 1 0 x 0 0 0 1 0 0 0 1 0 0 0 0 0 0

0 0 0 1 0 x x 1 1 0 1 0 0 1 0 0 0 1 0 0

0 0 1 0 0 1 x 1 1 0 0 0 1 0 0 1 0 0 1 0

0 0 0 0 0 x x 0 1 0 0 0 0 0 0 0 0 0 1 0

0 1 1 0 0 x 1 1 1 0 0 1 1 0 0 0 0 1 0 0

0 0 1 0 1 x x 0 0 0 0 0 0 1 0 0 0 0 0 0

0 0 1 0 1 0 x x x x 1 0 1 0 0 0 0 0 0 0

0 0 0 0 0 0 1 1 0 x x 0 0 0 0 0 1 1 0 0

0 0 0 0 0 0 1 0 0 1 x x x x 0 0 1 0 0 0

0 1 1 0 0 0 1 0 0 0 0 1 1 x x x 1 0 0 0

0 0 0 1 0 0 0 0 0 0 0 0 0 1 0 x 0 0 0 0

0 0 0 1 0 0 0 1 1 0 1 0 0 1 0 x x 1 1 0

0 0 1 0 0 1 0 0 1 0 0 0 1 0 0 1 x e 1 0

Added in new antGroup 8

A1 trails count: 810 A2 trails count: 722 A3 trails count: 4772 A4 trails count: 358 A5 trails count: 2496 A6 trails count: 2110 A7 trails count: 816 A8 trails count: 2496 A9 trails count: 478 A10 trails count: 2632

Ant Trail Min Size is: 38 Found at Ant53

Best Ant has size: 38, and has a path of:

s 0 0 0 0 0 0 0 1 0 0 0 0 0 0 0 0 0 1 0

x 1 1 0 0 0 0 1 0 0 0 1 1 0 0 0 0 1 0 0

x 0 1 0 1 0 0 0 0 0 0 0 0 1 0 0 0 0 0 0

x x 1 0 1 0 0 0 0 0 0 0 1 0 1 0 0 0 0 0

0 x 1 0 0 0 1 1 0 0 0 0 1 0 0 0 0 1 0 0

0 x x x 0 0 1 0 0 0 0 0 0 0 0 0 1 0 0 0

0 1 1 x x x 1 0 0 0 0 1 0 0 0 0 1 0 0 0

0 0 0 1 0 x 0 0 0 1 0 0 0 1 0 0 0 0 0 0

0 0 0 1 0 x x 1 1 0 1 0 0 1 0 0 0 1 0 0

0 0 1 0 0 1 x 1 1 0 0 0 1 0 0 1 0 0 1 0

0 0 0 0 0 x x 0 1 0 0 0 0 0 0 0 0 0 1 0

0 1 1 0 0 x 1 1 1 0 0 1 1 0 0 0 0 1 0 0

0 0 1 0 1 x x 0 0 0 0 0 0 1 0 0 0 0 0 0

0 0 1 0 1 0 x x x x 1 0 1 0 0 0 0 0 0 0

0 0 0 0 0 0 1 1 0 x x 0 0 0 0 0 1 1 0 0

0 0 0 0 0 0 1 0 0 1 x x x x 0 0 1 0 0 0

0 1 1 0 0 0 1 0 0 0 0 1 1 x x x 1 0 0 0

0 0 0 1 0 0 0 0 0 0 0 0 0 1 0 x 0 0 0 0

0 0 0 1 0 0 0 1 1 0 1 0 0 1 0 x x 1 1 0

0 0 1 0 0 1 0 0 1 0 0 0 1 0 0 1 x e 1 0

Added in new antGroup 9

A1 trails count: 2486 A2 trails count: 1654 A3 trails count: 412 A4 trails count: 680 A5 trails count: 2726 A6 trails count: 590 A7 trails count: 382 A8 trails count: 444 A9 trails count: 566 A10 trails count: 430

Ant Trail Min Size is: 38 Found at Ant53

Best Ant has size: 38, and has a path of:

s 0 0 0 0 0 0 0 1 0 0 0 0 0 0 0 0 0 1 0

x 1 1 0 0 0 0 1 0 0 0 1 1 0 0 0 0 1 0 0

x 0 1 0 1 0 0 0 0 0 0 0 0 1 0 0 0 0 0 0

x x 1 0 1 0 0 0 0 0 0 0 1 0 1 0 0 0 0 0

0 x 1 0 0 0 1 1 0 0 0 0 1 0 0 0 0 1 0 0

0 x x x 0 0 1 0 0 0 0 0 0 0 0 0 1 0 0 0

0 1 1 x x x 1 0 0 0 0 1 0 0 0 0 1 0 0 0

0 0 0 1 0 x 0 0 0 1 0 0 0 1 0 0 0 0 0 0

0 0 0 1 0 x x 1 1 0 1 0 0 1 0 0 0 1 0 0

0 0 1 0 0 1 x 1 1 0 0 0 1 0 0 1 0 0 1 0

0 0 0 0 0 x x 0 1 0 0 0 0 0 0 0 0 0 1 0

0 1 1 0 0 x 1 1 1 0 0 1 1 0 0 0 0 1 0 0

0 0 1 0 1 x x 0 0 0 0 0 0 1 0 0 0 0 0 0

0 0 1 0 1 0 x x x x 1 0 1 0 0 0 0 0 0 0

0 0 0 0 0 0 1 1 0 x x 0 0 0 0 0 1 1 0 0

0 0 0 0 0 0 1 0 0 1 x x x x 0 0 1 0 0 0

0 1 1 0 0 0 1 0 0 0 0 1 1 x x x 1 0 0 0

0 0 0 1 0 0 0 0 0 0 0 0 0 1 0 x 0 0 0 0

0 0 0 1 0 0 0 1 1 0 1 0 0 1 0 x x 1 1 0

0 0 1 0 0 1 0 0 1 0 0 0 1 0 0 1 x e 1 0