Test 3 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: 42 A2 trails count: 40 A3 trails count: 48 A4 trails count: 42 A5 trails count: 60 A6 trails count: 38 A7 trails count: 48 A8 trails count: 38 A9 trails count: 152 A10 trails count: 64

Ant Trail Min Size is: 38 Found at Ant6

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

s x x x 0 0 0 0 1 0 0 0 0 0 0 0 0 0 1 0

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

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

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

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

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

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

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

A1 trails count: 174 A2 trails count: 44 A3 trails count: 56 A4 trails count: 54 A5 trails count: 64 A6 trails count: 64 A7 trails count: 44 A8 trails count: 40 A9 trails count: 36 A10 trails count: 40

Ant Trail Min Size is: 36 Found at Ant19

Best Ant has size: 36, 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 x 1 0 1 0 0 0 0 0 0 0 0 1 0 0 0 0 0 0

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

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

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

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

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

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

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

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

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

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

0 1 1 0 0 0 1 0 0 0 0 1 1 0 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 2

A1 trails count: 38 A2 trails count: 258 A3 trails count: 40 A4 trails count: 46 A5 trails count: 42 A6 trails count: 120 A7 trails count: 42 A8 trails count: 112 A9 trails count: 38 A10 trails count: 44

Ant Trail Min Size is: 36 Found at Ant19

Best Ant has size: 36, 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 x 1 0 1 0 0 0 0 0 0 0 0 1 0 0 0 0 0 0

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

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

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

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

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

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

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

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

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

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

0 1 1 0 0 0 1 0 0 0 0 1 1 0 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 3

A1 trails count: 60 A2 trails count: 40 A3 trails count: 40 A4 trails count: 58 A5 trails count: 40 A6 trails count: 38 A7 trails count: 54 A8 trails count: 244 A9 trails count: 50 A10 trails count: 108

Ant Trail Min Size is: 36 Found at Ant19

Best Ant has size: 36, 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 x 1 0 1 0 0 0 0 0 0 0 0 1 0 0 0 0 0 0

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

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

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

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

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

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

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

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

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

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

0 1 1 0 0 0 1 0 0 0 0 1 1 0 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 4

A1 trails count: 54 A2 trails count: 46 A3 trails count: 44 A4 trails count: 100 A5 trails count: 46 A6 trails count: 56 A7 trails count: 50 A8 trails count: 44 A9 trails count: 54 A10 trails count: 62

Ant Trail Min Size is: 36 Found at Ant19

Best Ant has size: 36, 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 x 1 0 1 0 0 0 0 0 0 0 0 1 0 0 0 0 0 0

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

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

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

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

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

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

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

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

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

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

0 1 1 0 0 0 1 0 0 0 0 1 1 0 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 5

A1 trails count: 130 A2 trails count: 40 A3 trails count: 50 A4 trails count: 46 A5 trails count: 3168 A6 trails count: 508 A7 trails count: 214 A8 trails count: 170 A9 trails count: 1022 A10 trails count: 1874

Ant Trail Min Size is: 36 Found at Ant19

Best Ant has size: 36, 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 x 1 0 1 0 0 0 0 0 0 0 0 1 0 0 0 0 0 0

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

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

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

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

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

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

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

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

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

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

0 1 1 0 0 0 1 0 0 0 0 1 1 0 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: 512 A2 trails count: 282 A3 trails count: 272 A4 trails count: 622 A5 trails count: 264 A6 trails count: 488 A7 trails count: 260 A8 trails count: 304 A9 trails count: 168 A10 trails count: 168

Ant Trail Min Size is: 36 Found at Ant19

Best Ant has size: 36, 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 x 1 0 1 0 0 0 0 0 0 0 0 1 0 0 0 0 0 0

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

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

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

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

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

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

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

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

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

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

0 1 1 0 0 0 1 0 0 0 0 1 1 0 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: 328 A2 trails count: 262 A3 trails count: 1280 A4 trails count: 204 A5 trails count: 154 A6 trails count: 214 A7 trails count: 704 A8 trails count: 712 A9 trails count: 138 A10 trails count: 398

Ant Trail Min Size is: 36 Found at Ant19

Best Ant has size: 36, 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 x 1 0 1 0 0 0 0 0 0 0 0 1 0 0 0 0 0 0

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

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

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

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

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

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

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

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

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

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

0 1 1 0 0 0 1 0 0 0 0 1 1 0 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: 120 A2 trails count: 674 A3 trails count: 180 A4 trails count: 214 A5 trails count: 1106 A6 trails count: 622 A7 trails count: 96 A8 trails count: 232 A9 trails count: 266 A10 trails count: 168

Ant Trail Min Size is: 36 Found at Ant19

Best Ant has size: 36, 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 x 1 0 1 0 0 0 0 0 0 0 0 1 0 0 0 0 0 0

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

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

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

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

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

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

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

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

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

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

0 1 1 0 0 0 1 0 0 0 0 1 1 0 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: 92 A2 trails count: 184 A3 trails count: 588 A4 trails count: 366 A5 trails count: 412 A6 trails count: 358 A7 trails count: 728 A8 trails count: 340 A9 trails count: 926 A10 trails count: 412

Ant Trail Min Size is: 36 Found at Ant19

Best Ant has size: 36, 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 x 1 0 1 0 0 0 0 0 0 0 0 1 0 0 0 0 0 0

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

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

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

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

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

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

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

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

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

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

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