Original Map

0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

Added in new antGroup 0

A1 trails count: 91 A2 trails count: 281 A3 trails count: 263 A4 trails count: 131 A5 trails count: 497 A6 trails count: 127 A7 trails count: 99 A8 trails count: 105 A9 trails count: 187 A10 trails count: 165

Ant Trail Min Size is: 91 Found at Ant1

Best Ant has size: 91, and has a path of:

0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

Added in new antGroup 1

A1 trails count: 177 A2 trails count: 69 A3 trails count: 77 A4 trails count: 137 A5 trails count: 441 A6 trails count: 217 A7 trails count: 125 A8 trails count: 243 A9 trails count: 185 A10 trails count: 369

Ant Trail Min Size is: 69 Found at Ant12

Best Ant has size: 69, and has a path of:

0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

Added in new antGroup 2

A1 trails count: 307 A2 trails count: 153 A3 trails count: 115 A4 trails count: 1003 A5 trails count: 569 A6 trails count: 467 A7 trails count: 409 A8 trails count: 365 A9 trails count: 111 A10 trails count: 89

Ant Trail Min Size is: 69 Found at Ant12

Best Ant has size: 69, and has a path of:

0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

Added in new antGroup 3

A1 trails count: 523 A2 trails count: 139 A3 trails count: 299 A4 trails count: 97 A5 trails count: 161 A6 trails count: 305 A7 trails count: 603 A8 trails count: 1143 A9 trails count: 561 A10 trails count: 3399

Ant Trail Min Size is: 69 Found at Ant12

Best Ant has size: 69, and has a path of:

0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

Added in new antGroup 4

A1 trails count: 4277 A2 trails count: 3347 A3 trails count: 1373 A4 trails count: 1411 A5 trails count: 533 A6 trails count: 1771 A7 trails count: 3171 A8 trails count: 1531 A9 trails count: 6255 A10 trails count: 3303

Ant Trail Min Size is: 69 Found at Ant12

Best Ant has size: 69, and has a path of:

0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

Added in new antGroup 5

A1 trails count: 3365 A2 trails count: 8813 A3 trails count: 3197 A4 trails count: 1321 A5 trails count: 1555 A6 trails count: 2307 A7 trails count: 4405 A8 trails count: 4411 A9 trails count: 3437 A10 trails count: 1037

Ant Trail Min Size is: 69 Found at Ant12

Best Ant has size: 69, and has a path of:

0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

Added in new antGroup 6

A1 trails count: 785 A2 trails count: 689 A3 trails count: 9857 A4 trails count: 2083 A5 trails count: 2557 A6 trails count: 2807 A7 trails count: 3329 A8 trails count: 10811 A9 trails count: 4023 A10 trails count: 2071

Ant Trail Min Size is: 69 Found at Ant12

Best Ant has size: 69, and has a path of:

0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

Added in new antGroup 7

A1 trails count: 1089 A2 trails count: 529 A3 trails count: 1495 A4 trails count: 1309 A5 trails count: 1815 A6 trails count: 423 A7 trails count: 1339 A8 trails count: 2175 A9 trails count: 8973 A10 trails count: 1473

Ant Trail Min Size is: 69 Found at Ant12

Best Ant has size: 69, and has a path of:

0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

Added in new antGroup 8

A1 trails count: 3439 A2 trails count: 625 A3 trails count: 5023 A4 trails count: 1303 A5 trails count: 3499 A6 trails count: 2027 A7 trails count: 4903 A8 trails count: 5779 A9 trails count: 11409 A10 trails count: 3155

Ant Trail Min Size is: 69 Found at Ant12

Best Ant has size: 69, and has a path of:

0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

Added in new antGroup 9

A1 trails count: 1301 A2 trails count: 4807 A3 trails count: 3675 A4 trails count: 6855 A5 trails count: 6491 A6 trails count: 801 A7 trails count: 4743 A8 trails count: 9329 A9 trails count: 3377 A10 trails count: 5861

Ant Trail Min Size is: 69 Found at Ant12

Best Ant has size: 69, and has a path of:

0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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