

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

```

Result of: Pass 1
1 1 . 2 . . 3 . 4 .
. 1 . 2 2 . 3 . 4 .
. 1 . . 2 . 3 . 4 .
1 1 . . 2 . 3 . 4 4
1 . 1 1 . . 3 . 4 .
. . . . 1 1 1 1 1 .
. . 5 . . . . 1 . 1
6 5 5 5 . . 1 . 1 .
5 . 5 . 5 1 1 1 . .
. . . . . 1 . 1 . .

Equivalency Table after: Pass 1 (indexing starts from 1)
0 1 2 3 4 5 6
1 1 1 1 1 1 5

Result of: Pass 2
1 1 . 1 . . 1 . 1 .
. 1 . 1 1 . 1 . 1 .
. 1 . . 1 . 1 . 1 .
1 1 . . 1 . 1 . 1 1
1 . 1 1 . . 1 . 1 .
. . . . 1 1 1 1 1 .
. . 1 . . . . 1 . 1
1 1 1 1 . . 1 . 1 .
5 . 5 . 1 1 1 1 . .
. . . . . 1 . 1 . .

Equivalency Table after: Pass 2 (indexing starts from 1)
1 2 3 4 5 6
1 1 1 1 1 1

Equivalency Table after: EQ Table Management (indexing starts from 1)
1 2 3 4 5 6
1 1 1 1 1 1

Result of: Pass 3
1 1 . 1 . . 1 . 1 .
. 1 . 1 1 . 1 . 1 .
. 1 . . 1 . 1 . 1 .
1 1 . . 1 . 1 . 1 1
1 . 1 1 . . 1 . 1 .
. . . . 1 1 1 1 1 .
. . 1 . . . . 1 . 1
1 1 1 1 . . 1 . 1 .
1 . 1 . 1 1 1 1 . .
. . . . . 1 . 1 . .

Equivalency Table after: Pass 3 (indexing starts from 1)
1 2 3 4 5 6
1 1 1 1 1 1

Number of Connected Components: 1

```

```

Result of: Pass 1
1 1 . 2 . . 3 . 4 .
. 1 . 2 2 . 3 . 4 .
. 1 . . 2 . 3 . 4 .
5 1 . . 2 . 3 . 4 4
5 . 6 6 . . 3 . 4 .
. . . . 7 7 3 3 3 .
. . 8 . . . . 3 . 9
10 10 8 8 . . 11 . 12 .
10 . 8 . 13 13 11 11 . .
. . . . . 13 . 11 . .

Equivalency Table after: Pass 1 (indexing starts from 1)
1 2 3 4 5 6 7 8 9 10 11 12 13
1 2 3 3 1 6 3 8 9 8 11 12 11

Result of: Pass 2
1 1 . 2 . . 3 . 3 .
. 1 . 2 2 . 3 . 3 .
. 1 . . 2 . 3 . 3 .
1 1 . . 2 . 3 . 3 4
5 . 6 6 . . 3 . 3 .
. . . . 3 3 3 3 3 .
. . 8 . . . . 3 . 9
8 8 8 8 . . 11 . 12 .
10 . 8 . 11 11 11 11 . .
. . . . . 13 . 11 . .

Equivalency Table after: Pass 2 (indexing starts from 1)
1 2 3 4 5 6 7 8 9 10 11 12 13
1 2 3 3 1 6 3 8 9 8 11 12 11

Equivalency Table after: EQ Table Management (indexing starts from 1)
1 2 3 4 5 6 7 8 9 10 11 12 13
1 2 3 3 1 4 3 5 6 5 7 8 7

Result of: Pass 3
1 1 . 2 . . 3 . 3 .
. 1 . 2 2 . 3 . 3 .
. 1 . . 2 . 3 . 3 .
1 1 . . 2 . 3 . 3 3
1 . 4 4 . . 3 . 3 .
. . . . 3 3 3 3 3 .
. . 5 . . . . 3 . 6
5 5 5 5 . . 7 . 8 .
5 . 5 . 7 7 7 7 . .
. . . . . 7 . 7 . .

Equivalency Table after: Pass 3 (indexing starts from 1)
1 2 3 4 5 6 7 8 9 10 11 12 13
1 2 3 3 1 4 3 5 6 5 7 8 7

Number of Connected Components: 8

```

10	10	0	1
1	1	.	1
.	1	.	1
.	1	.	.
1	1	.	.
1	.	1	1
.	.	1	1
.	1	.	.
1	1	1	1
1	.	1	.
.	.	.	.
.	.	.	.

10	10	0	1
1			
1			
47			
0	0		
9	9		

1	1	1	1	1	1	1	1	1
1	1	.	1	1	.	1	.	1
1	1	.	.	1	.	1	.	1
1	1	.	.	1	.	1	.	1
1	.	1	1	.	.	1	.	1
1	.	.	1	1	1	1	1	1
1	.	1	.	.	.	1	.	1
1	1	1	1	.	.	1	.	1
1	.	1	.	1	1	1	1	.
1	1	1	1	1	1	1	1	1

10	10	0	8						
1	1	.	2	.	.	3	.	3	.
.	1	.	2	2	.	3	.	3	.
.	1	.	.	2	.	3	.	3	.
1	1	.	.	2	.	3	.	3	3
1	.	4	4	.	.	3	.	3	.
.	.	.	.	3	3	3	3	3	.
.	.	5	3	.	6
5	5	5	5	.	.	7	.	8	.
5	.	5	.	7	7	7	7	.	.
10	7	.	7	.

10	10	0	8
8			
1			
7			
0	0		
4	1		
2			
5			
0	3		
3	4		
3			
17			
0	4		
6	9		
4			
2			
4	2		
4	3		
5			
7			
6	0		
8	3		
6			
1			
6	9		
6	9		
7			
7			
7	4		
9	7		
8			
1			
7	8		
7	8		

A 10x10 grid of numbers from 1 to 9. The grid is as follows:

1	1	.	2	3	3	3	3	3	3
1	1	.	2	3	.	3	.	3	3
1	1	.	2	3	.	3	.	3	3
1	1	.	2	3	.	3	.	3	3
1	1	4	4	3	.	3	.	3	3
.	.	.	.	3	3	3	3	3	3
5	5	5	5	3	3	3	3	3	6
5	5	5	5	7	7	7	7	8	.
5	5	5	5	7	7	7	7	.	.
.	.	.	.	7	7	7	7	.	.

Red arrows indicate a path starting from the bottom-left corner (row 10, column 1) and moving towards the top-right corner (row 1, column 10). The path consists of the following cells: (10,1), (9,1), (8,1), (7,1), (6,1), (5,1), (4,1), (3,1), (2,1), (1,10).