```
16
17  Input2：
18  1 3
19  2 5
20  1 7
21  5 6
22  6 0
23
24  Output2：
25  0 2 5 6
26  1 3 7
```

13. Maze

Given a 10 by 10 maze with one entrance and one exit, find the way to the exit (8,8) from the entrance (1,1). There is a border (represented by 1s) around the maze. There are only four moving directions: right > down > left > up. You must use a stack to store the moving path. Input is a 10 by 10 maze with a border. Output must be the moving path that consists of steps separate by ",".

Test Case

Please test your program with Input, and then check the answers with Output.

Listing 13: Maze

```
1   Input：
2   1111111111
3   1011000011
4   1000011111
5   1011111111
6   1000111111
7   1110111111
8   1110111111
9   1110111111
10  1110000001
11  1111111111
12  Output：
13  (1,1),(1,2),(2,2),(3,2),(4,2),(4,1),(5,1),(6,1),(7,1),(6,1),(5,1),(4,1),(4,2),(3,2),
    (2,2),(1,2),(1,3),(1,4),(2,4),(3,4),(3,5),(3,6),(3,7),(3,8),(4,8),(5,8),(6,8),(7,8),
    (8,8)
```