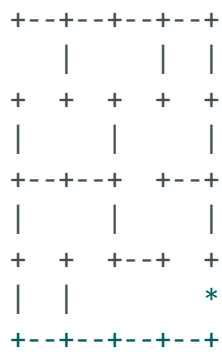
CS 312: Artificial Intelligence Laboratory

Task 1: Test Cases

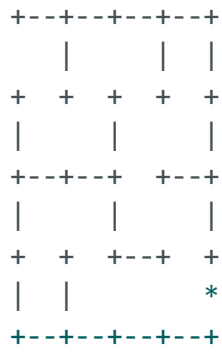
Sample Input 1 (BFS):
0



Sample Output 1:

```
42
24
0--+--+--+--+
00 |0000 |  |
+0 +0 +0 +  +
|0000 |0    |
+--+--+0 +--+
|     |0000 |
+  +  +--+0 +
|  |      000
+--+--+--+--+
```

Sample Input 2 (DFS):
1



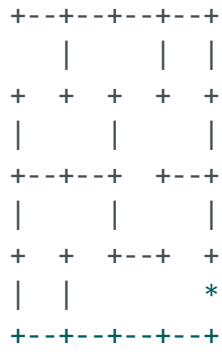
Sample Output 2:

```
24
24
0--+--+--+--+
00 |0000 |  |
+0 +0 +0 +  +
|0000 |0    |
+--+--+0 +--+
|     |0000 |
+  +  +--+0 +
|  |      000
+--+--+--+--+
```

Sample Output 2 (Alternate)

```
46
26
0--+--+--+--+
000| 0000|  |
+ 0+ 0+ 0+  +
| 0000|00   |
+--+--+0 +--+
|     |00000|
+  +  +--+ 0+
|  |       00
+--+--+--+--+
```

Sample Input 3 (DFID):
2



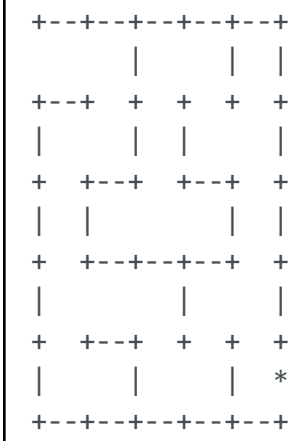
Sample Output 3:

```
621
24
0--+--+--+--+
00 |0000 |  |
+0 +0 +0 +  +
|0000 |0    |
+--+--+0 +--+
|     |0000 |
+  +  +--+0 +
|  |      000
+--+--+--+--+
```

Sample Output 3 (Alternate)

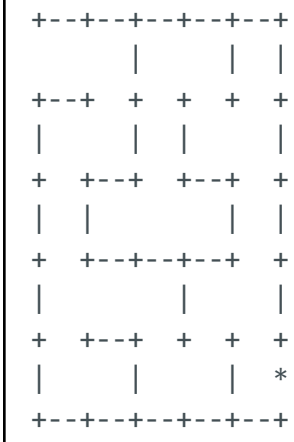
```
862
24
0--+--+--+--+
000| 0000|  |
+ 0+ 0+ 0+  +
| 0000| 0   |
+--+--+ 0+--+
|     | 0000|
+  +  +--+ 0+
|  |       00
+--+--+--+--+
```

Sample Input 4 (BFS):
0



Sample Output 4:
59
33

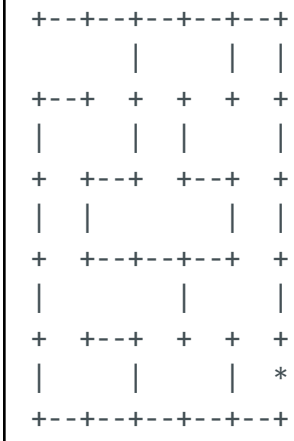
Sample Input 5 (DFS):
1



Sample Output 5:
41
33

Sample Output 5 (Alternate)
82
37

Sample Input 6 (DFID):
2



Sample Output 6:
1358
33

Sample Output 6 (Alternate)
2172
33

To test your solutions, you can generate more mazes from here. (Put the type of maze as text.)

Note: For submission, use this preference order for adding neighbors:
DOWN > UP > RIGHT > LEFT.

Deadline: 11:59 PM 13 Jan 2020

For Reference :

State-space search: https://youtu.be/52nI2IPyOu8
BFS and DFS: https://youtu.be/TMLyKcBtHuo
DFID: https://youtu.be/xIEe0yK1VL4