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
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 0++++ 00000	
Sample Input 5 (DFS): 1 ++++	Sample Output 5: 41 33 0++++ 00000 ++0 + + + + + 000 + 0++ ++ + 0 + 0+++ + 000000 0000 + ++0 +0 +0 + 0000 0000 ++++	Sample Output 5 (Alternate) 82 37 0++++ 000000
Sample Input 6 (DFID): 2 +++++	Sample Output 6: 1358 33 0++++ 00000	Sample Output 6 (Alternate) 2172 33 0++++ 00000

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: 11:55 PM, 15 Jan 2021

For Reference:

State-space search: https://youtu.be/52nl2IPyOu8
BFS and DFS: https://youtu.be/TMLyKcBtHuo

DFID: https://youtu.be/xlEe0yK1VL4