Algorithms and Data Structures 1 - Assignment 3

Aral Cimcim, k11720457

Artificial Intelligence, JKU Linz

May 2, 2024

1. Maze Algorithm

```
   -1012345678910
 -1 ###########
  0 # #  # ##  #
  1 # # #  # # #
  2 ## #  # #  #
  3 #  # #  # ##
  4 # # ## # # #
  5 #  #  # S..#
  6 ## ## ## .##
  7 # ##  ## #.#
  8 # # #  # #.#
  9 #  # #  # .#
 10 ###########
```

Depth	Curr. Position	Obstacle / visited?	Neighbour positions
0	(5,7)	N	(5,8), (6,8), (6,7), (6,6), (5,6), (4,6), (4,7), (4,8)
1	(5,8)	N	(5,9), (6,9), (6,8), (6,7), (5,7), (4,7), (4,8), (4,9)
2	(5,9)	N	(5,10), (6,10), (6,9), (6,8), (5,8), (4,8), (4,9), (4,10)
2	(5,10)	Y	-
2	(6,10)	Y	-
2	(6,9)	Y	-
2	(6,8)	N	(6,9), (7,9), (7,8), (7,7), (6,7), (5,7), (5,8), (5,9)
2	(6,9)	Y	-