

Test Cases Documentation

1. Test Case 1: Graph13()

Maze Configuration

Here the maze of the Graph below:

	A	B	C	D	E
1		1	2	3	4
2	1	S	B		C
3	2	D	E	F	G
4	3	H			I
5	4	J	K	T	L

Shortest Path

The shortest path found by the A* algorithm is: S -> D -> H -> J -> K -> T Length of the path: 17

2. Test Case 2: simple_test_case_with_solution()

Maze Configuration

Here the maze of the Graph below:

	1	2	3
1	S		T
2	A		E
3	B	C	D

Shortest Path

The shortest path found by the A* algorithm is: S -> A -> B -> C -> D -> E -> T Length of the path: 9

3. Test Case 2: simple_test_case_without_solution()

Maze Configuration

Here the maze of the Graph below:

	1	2	3
1	S		T
2	A		
3	B	C	D

Shortest Path

The shortest path found by the A* algorithm is: No Path Length of the path: 0