# Project:

In this project I have developed Breadth First Search, Depth First Search, Uniform Cost Search, and Recursive Depth First Search in a given map. Please see the project details for more description.

## Output:

**BFS**

Map1:

Cost: 1013.0, Path: NNNNEEESSSWWSW

MAP 2:

Cost: 12037.0, Path: NNNNNNEEEEESSSSSSWWWWW

MAP 3:

Cost: 13003.0,Path: EESSSSSSNNNNNNWW

**DFS**

MAP 1

Cost: 1062.0,Path: NNNNEEEEESSSSWNNNWNEESSSSWNNWSSWNNNNWSSSNNNEEEESSSSWNNNWSSSWWW

MAP 2

Cost: 28352.0,Path: NNNNNNEEEEESSSSNNNNWSSSSSESWWNNNNNNWSSSWNNNWSSSSEESSWNWS

MAP 3

Cost: 32412.0,Path: EESWNWSSWNNWSSSEEENESSSSNNNNNNWSSSSSSWNNNNNN

**UCS**

MAP 1

Cost: 14.0,Path: NEENENWWNWSSSS

MAP 2

Cost: 1578.0,Path: NNNNEESSSSEENNENNNNSSSWSSSWWNNNNWWSSSS

MAP 3:

Cost: 8610.0,Path: EESSSWSSSEWNNNENNNWW

RECURSIVE DFS

MAP 1

Path: NNNNEESESSWWSW, Cost: 1013.0

MAP 2

Cost: 28352.0,Path: NNNNNNEEEEESSSSNNNNWSSSSSESWWNNNNNNWSSSWNNNWSSSSEESSWNWS

MAP 3

Cost: 32412.0,Path: EESWNWSSWNNWSSSEEENESSSSNNNNNNWSSSSSSWNNNNNN