Small Maze:

The Depth First Search from (1, 1) to (20, 8)

DFS

The Breadth First Search from (1, 1) to (20, 8)

BFS

The Dijkstra Search Using WestCost from (1, 1) to (20, 8)
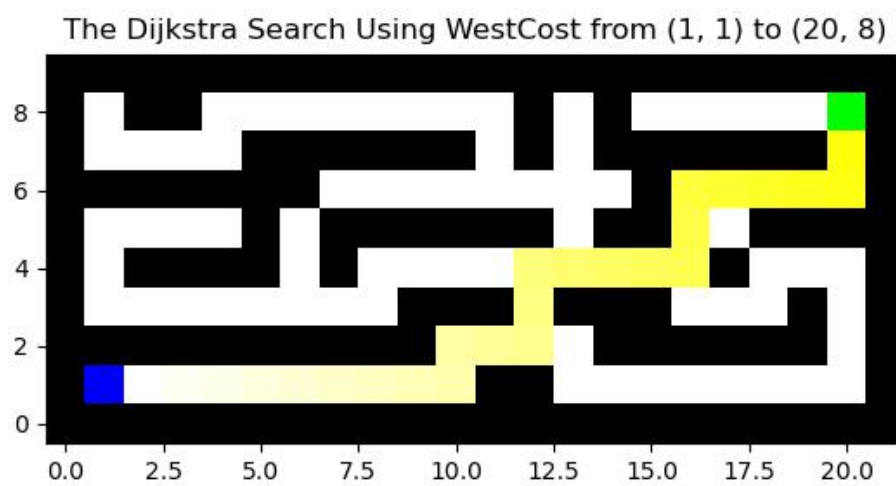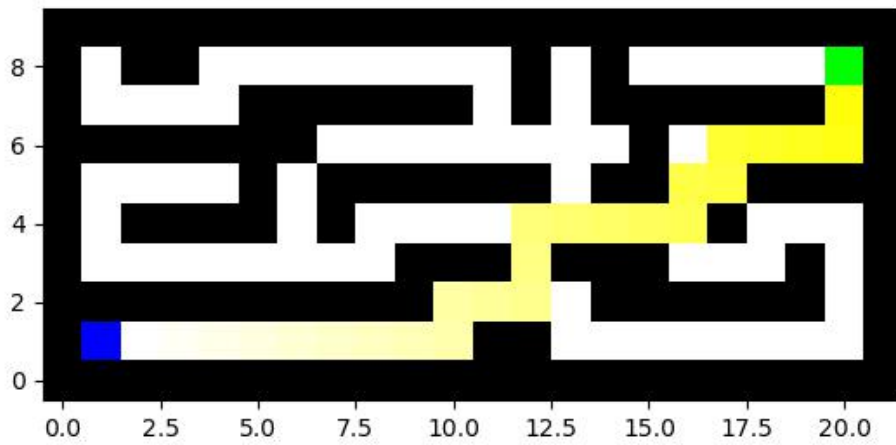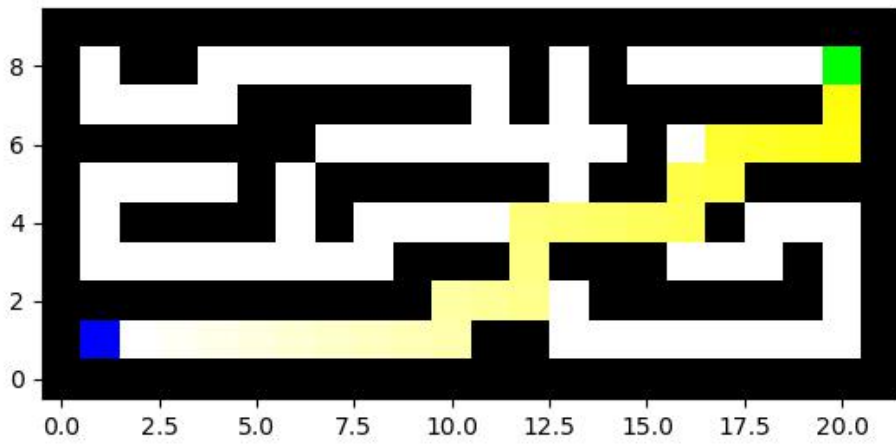

DFS using West Cost

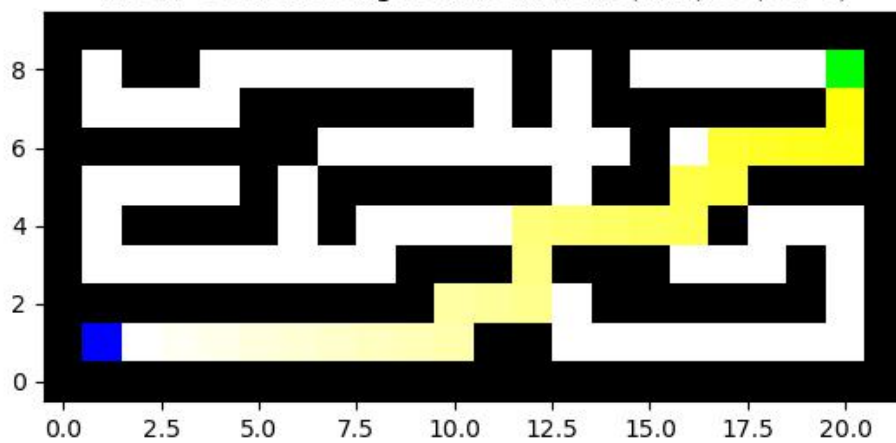The Dijkstra Search Using EastCost from (1, 1) to (20, 8)

DFS Using East Cost

The A* Search Using Manhattan from (1, 1) to (20, 8)

A* Manhattan

The A* Search Using Euclidean from (1, 1) to (20, 8)

A* Euclidean

Comment:

The Depth First Search from (1, 1) to (20, 8), the total cost of this path is 26, and the number of

visited nodes is 89.

The Breadth First Search from (1, 1) to (20, 8), the total cost of this path is 26, and the number of visited nodes is 75.
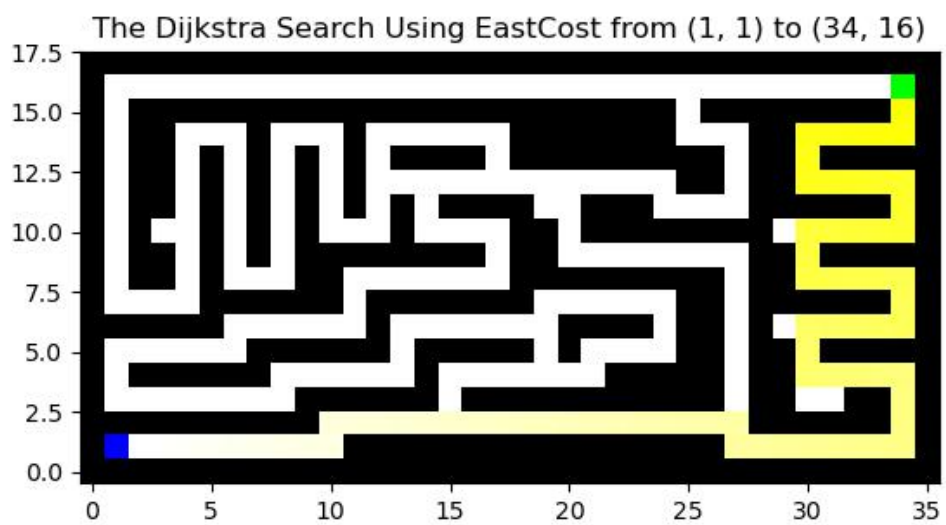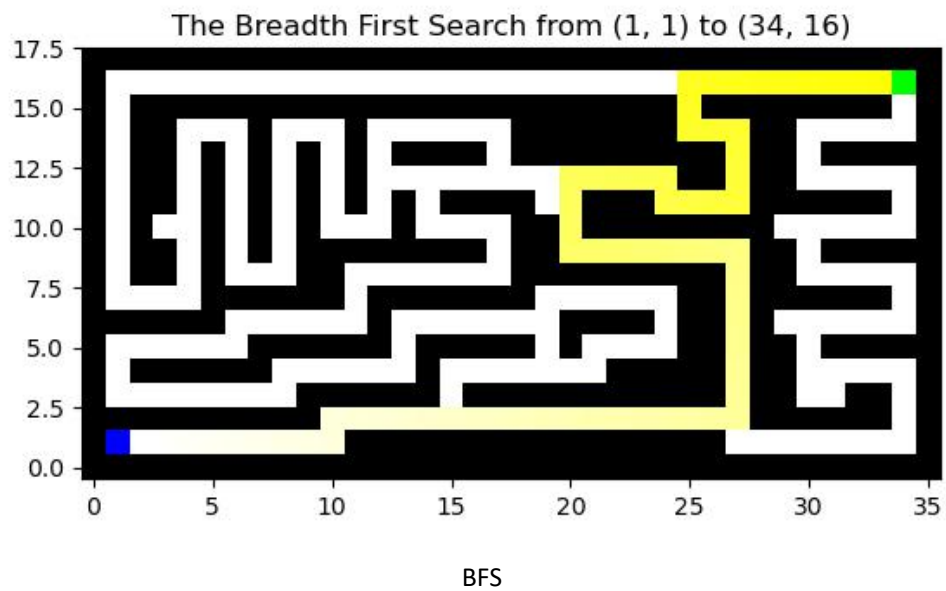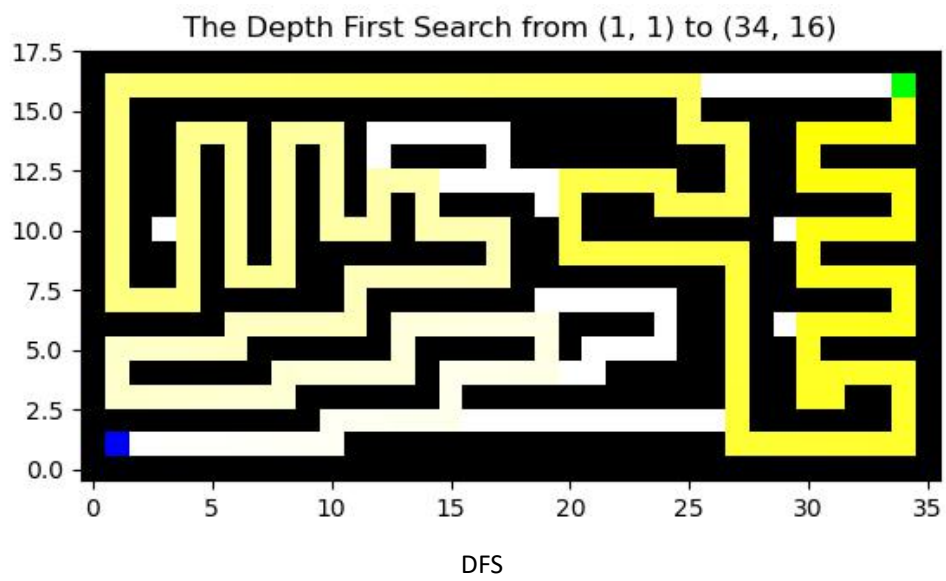
The Dijkstra Search Using WestCost from (1, 1) to (20, 8), the total cost of this path is 4569, and the number of visited nodes is 89.

The Dijkstra Search Using EastCost from (1, 1) to (20, 8), the total cost of this path is 2796, and the number of visited nodes is 53.
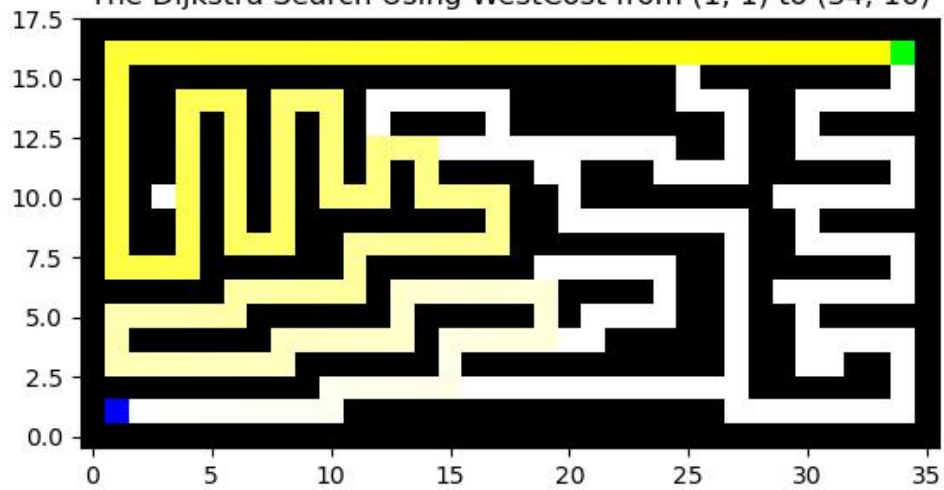
The A* Search Using Manhattan from (1, 1) to (20, 8), the total cost of this path is 26, and the number of visited nodes is 33.

The A* Search Using Euclidean from (1, 1) to (20, 8), the total cost of this path is 26, and the number of visited nodes is 33.

Mid Maze:

The Depth First Search from (1, 1) to (34, 16)

DFS

The Breadth First Search from (1, 1) to (34, 16)

BFS

The Dijkstra Search Using EastCost from (1, 1) to (34, 16)

The Dijkstra Search Using WestCost from (1, 1) to (34, 16)

Dijkstra Using West Cost

The A* Search Using Euclidean from (1, 1) to (34, 16)

A* Using Euclidean

The A* Search Using Manhattan from (1, 1) to (34, 16)

A* Using Manhattan

Comment:

The Depth First Search from (1, 1) to (34, 16), the total cost of this path is 224, and the number of visited nodes is 240.

The Breadth First Search from (1, 1) to (34, 16), the total cost of this path is 68, and the number of visited nodes is 223.

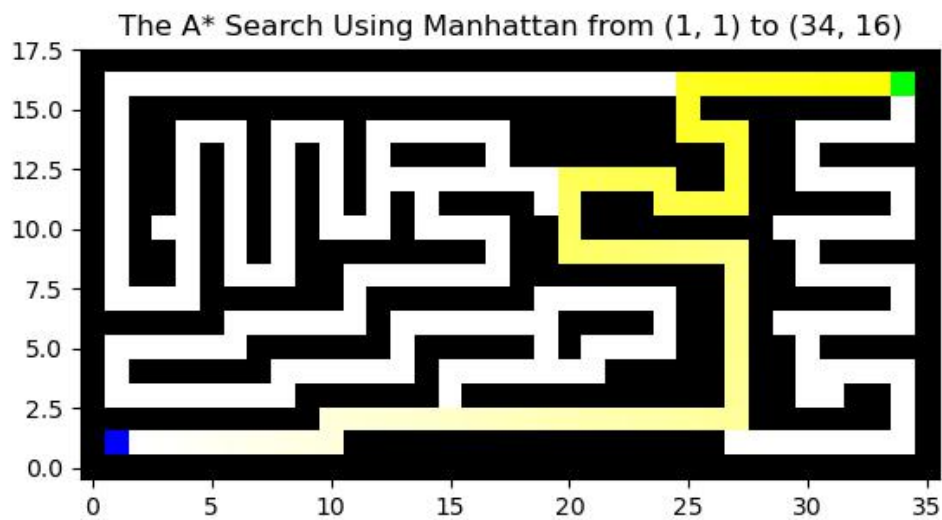The Dijkstra Search Using WestCost from (1, 1) to (34, 16), the total cost of this path is 25875, and the number of visited nodes is 247.
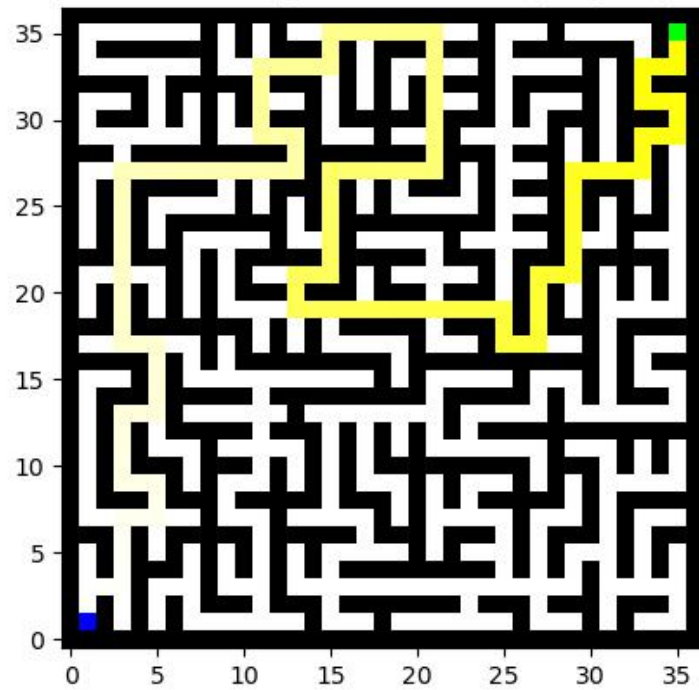
The Dijkstra Search Using EastCost from (1, 1) to (34, 16), the total cost of this path is 13629, and the number of visited nodes is 105.

The A* Search Using Manhattan from (1, 1) to (34, 16), the total cost of this path is 68, and the number of visited nodes is 74.

The A* Search Using Euclidean from (1, 1) to (34, 16), the total cost of this path is 68, and the number of visited nodes is 74.
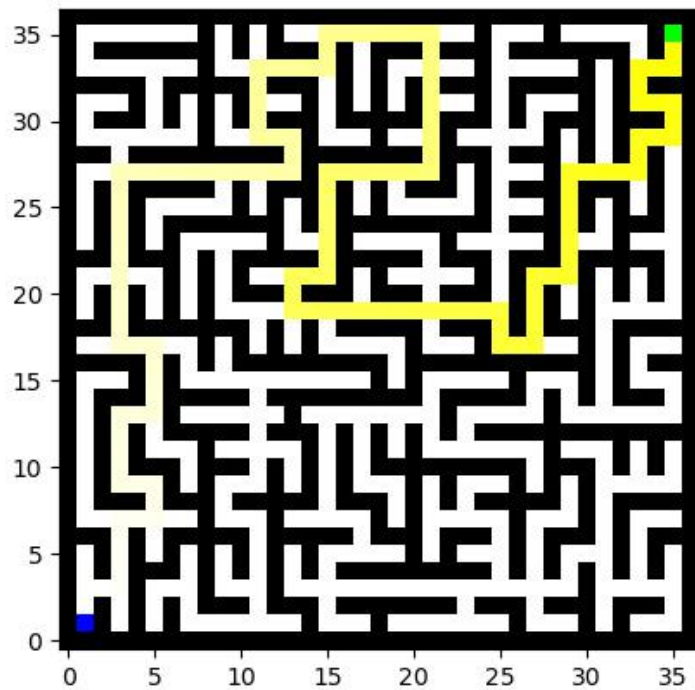
Big Maze:

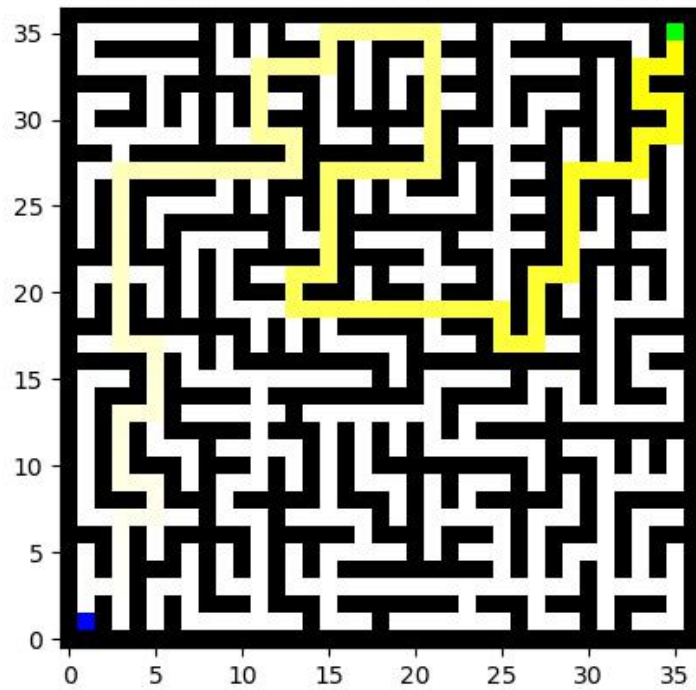The A* Search Using Euclidean from (1, 1) to (35, 35)

A* Using Euclidean

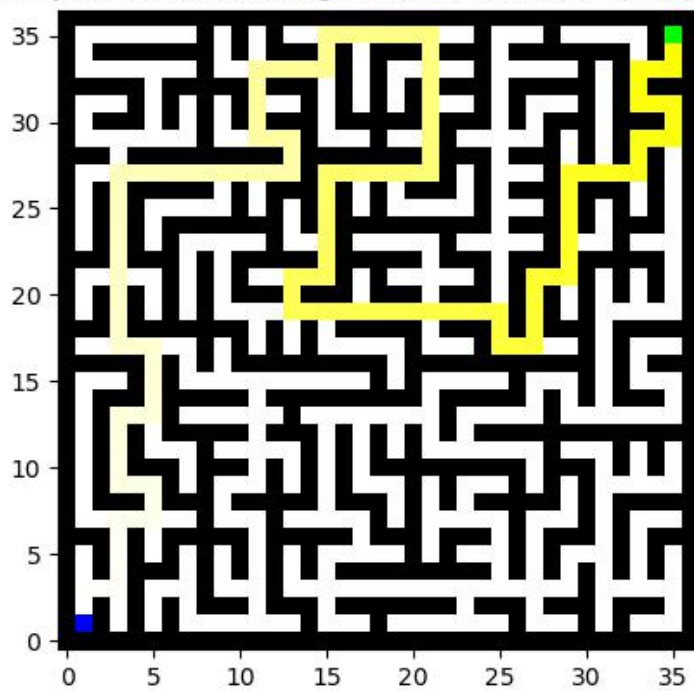The A* Search Using Manhattan from (1, 1) to (35, 35)

A* Using Manhattan

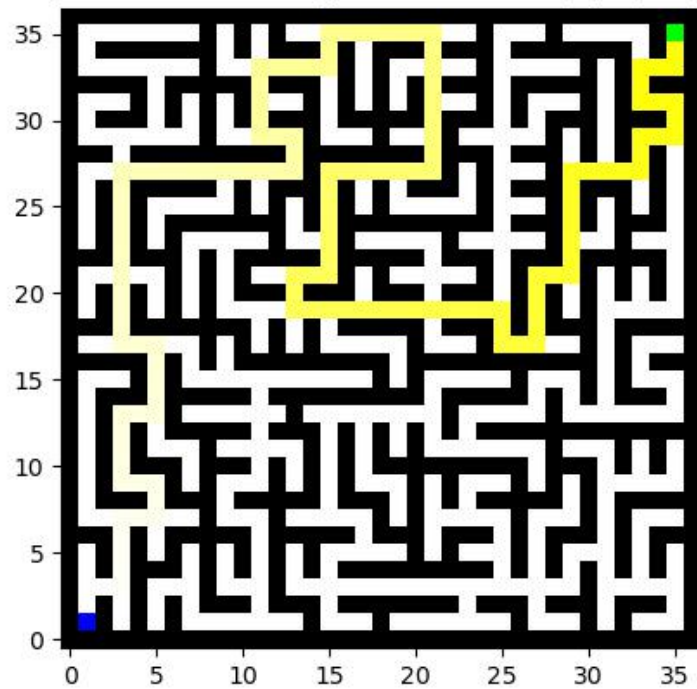The Breadth First Search from (1, 1) to (35, 35)

BFS

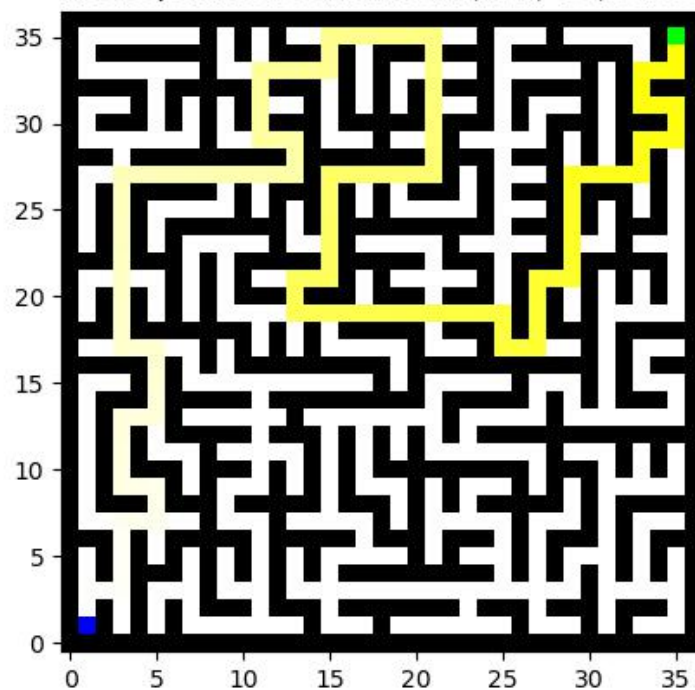The Dijkstra Search Using EastCost from (1, 1) to (35, 35)

Dijkstra Using East Cost

The Dijkstra Search Using WestCost from (1, 1) to (35, 35)

Dijkstra Using West Cost

The Depth First Search from (1, 1) to (35, 35)

DFS

Comment:

The Depth First Search from (1, 1) to (35, 35), the total cost of this path is 136, and the number of visited nodes is 504.

The Breadth First Search from (1, 1) to (35, 35), the total cost of this path is 136, and the number of visited nodes is 452.

The Dijkstra Search Using WestCost from (1, 1) to (35, 35), the total cost of this path is 50227, and the number of visited nodes is 455.

The Dijkstra Search Using EastCost from (1, 1) to (35, 35), the total cost of this path is 68731, and the number of visited nodes is 429.

The A* Search Using Manhattan from (1, 1) to (35, 35), the total cost of this path is 136, and the number of visited nodes is 299.

The A* Search Using Euclidean from (1, 1) to (35, 35), the total cost of this path is 136, and the number of visited nodes is 310.