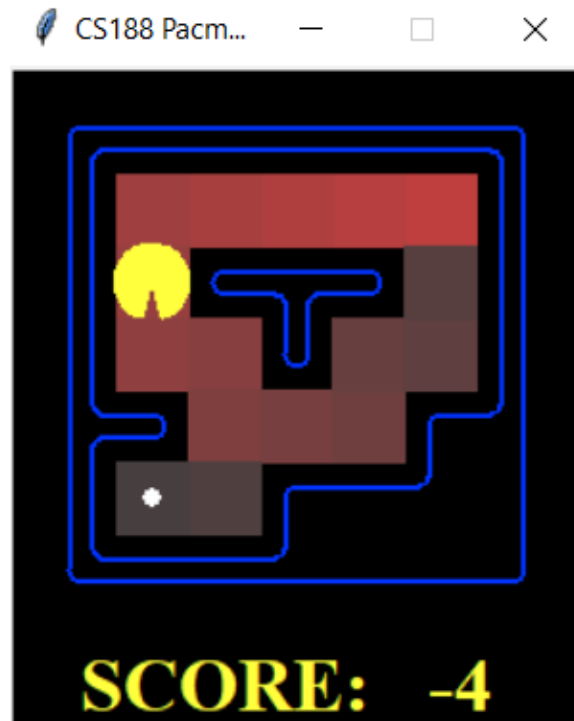# Project output

Professor : Dr.AliShakiba
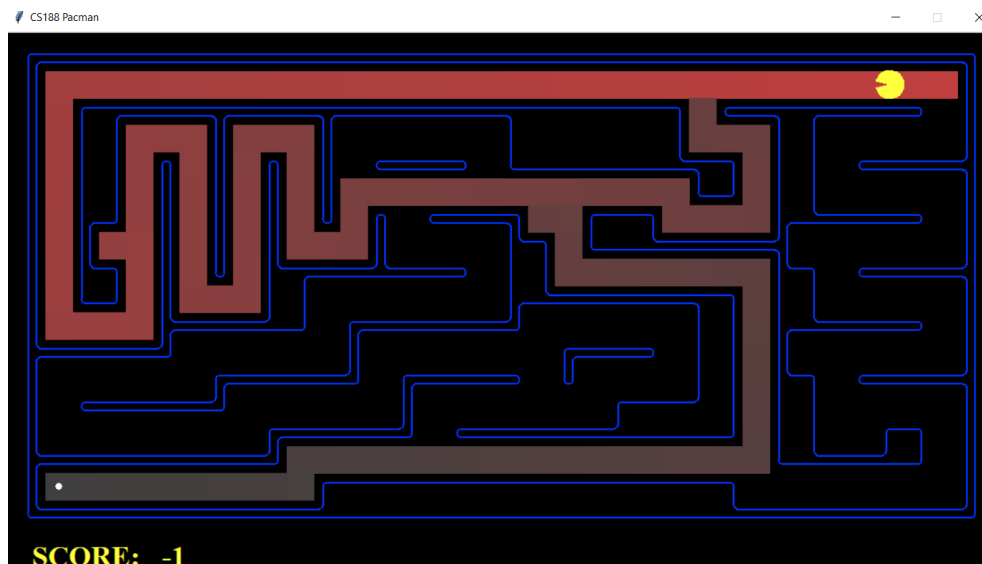
By : Maryam Mohammadabadi

Question 1 (3 points): Finding a Fixed Food Dot using Depth First Search
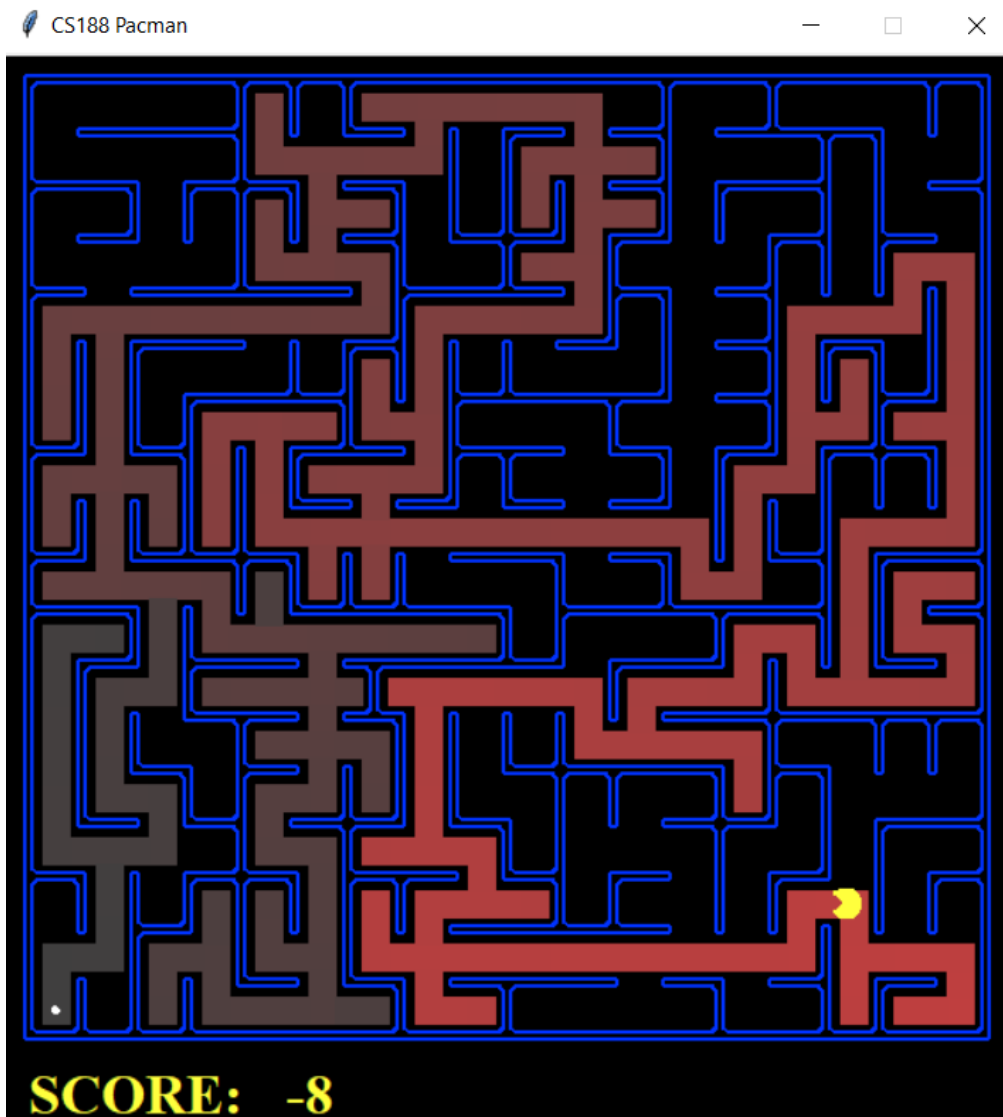
```
python pacman.py -l tinyMaze -p SearchAgent
```



```
python pacman.py -l mediumMaze -p SearchAgent
```
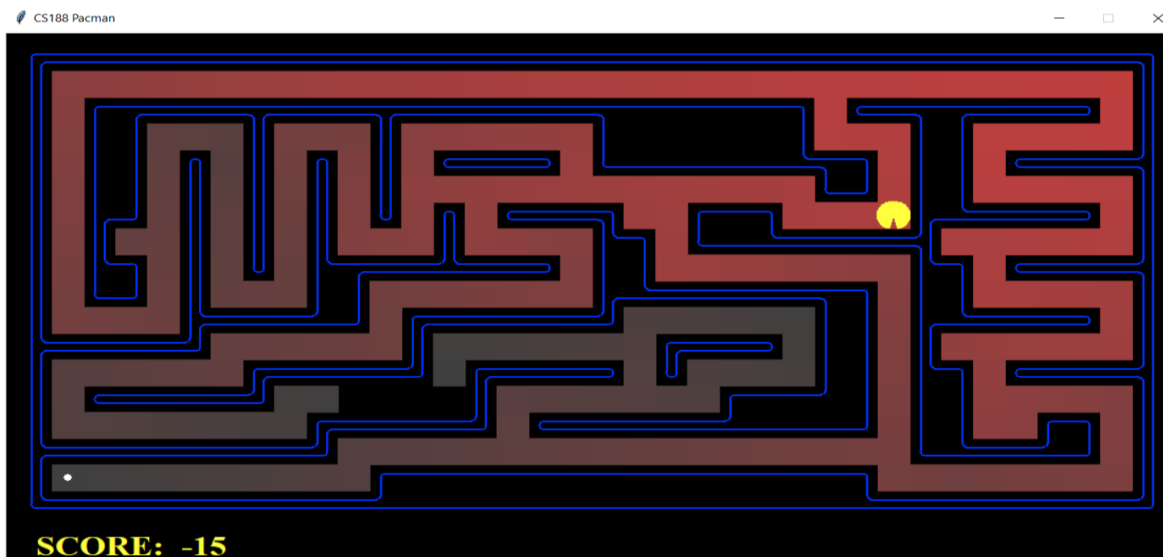
```
python pacman.py -l bigMaze -z .5 -p SearchAgent
```
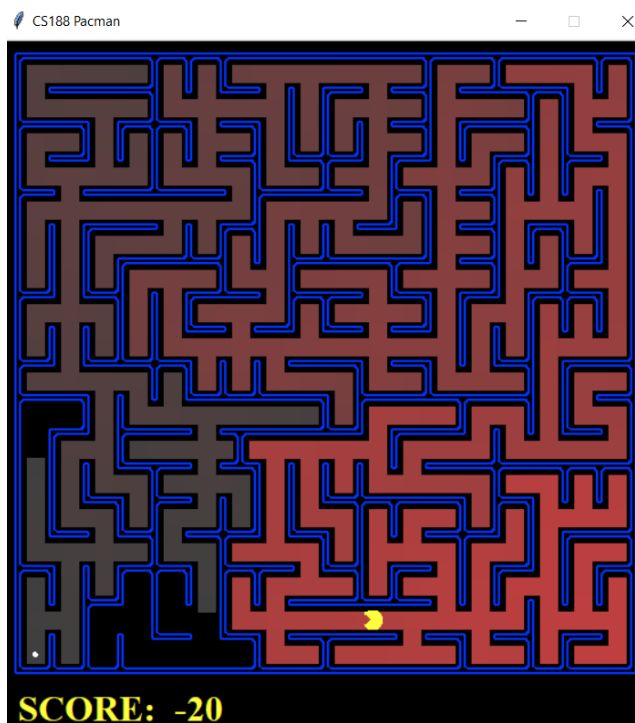
Question 2 (3 points): Breadth First Search

```
python pacman.py -l mediumMaze -p SearchAgent -a fn=bfs
```
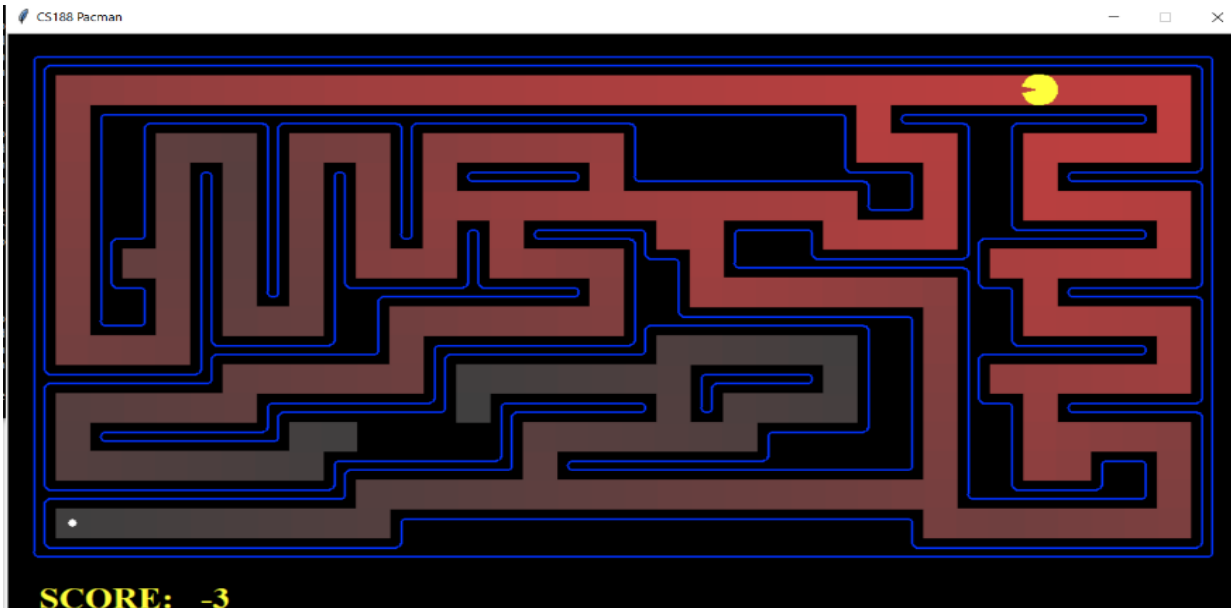

SCORE: -15

```
python pacman.py -l bigMaze -p SearchAgent -a fn=bfs -z .5
```
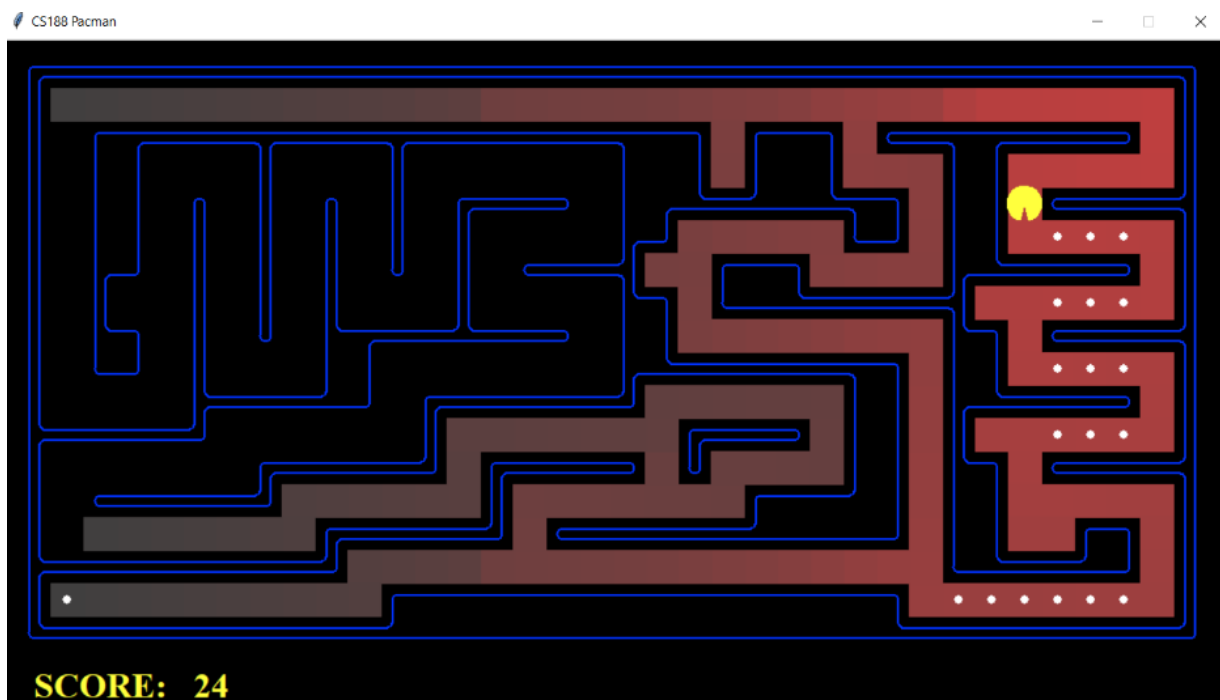

SCORE: -20

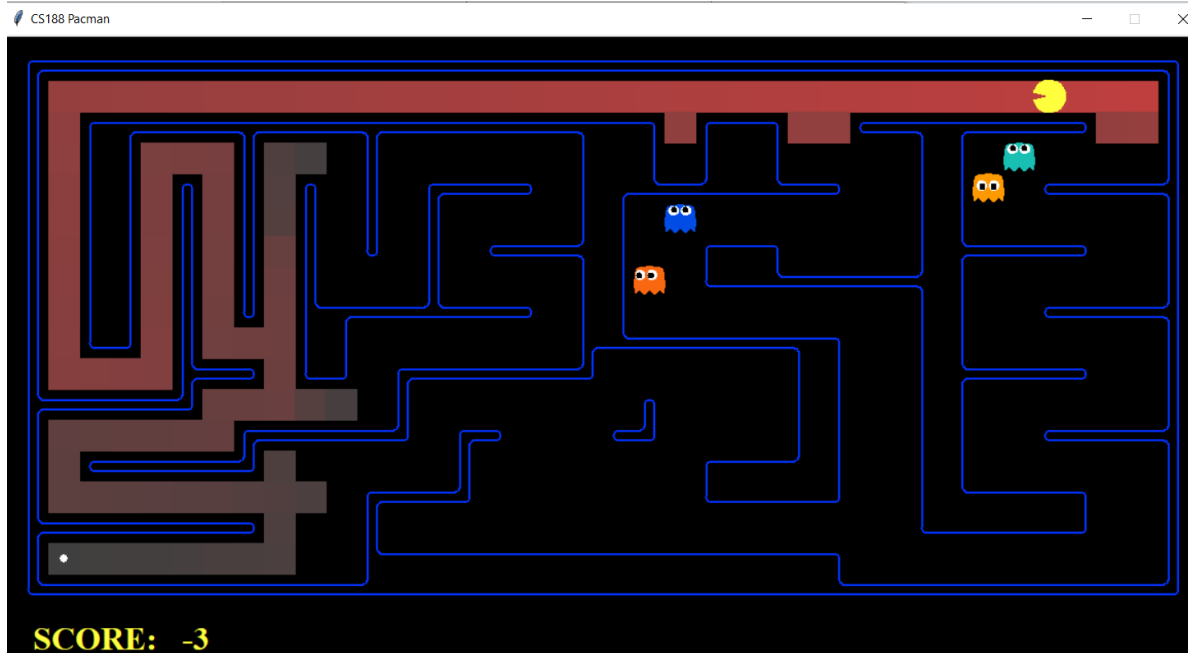# Question 3 (3 points): Varying the Cost Function

```
python pacman.py -l mediumMaze -p SearchAgent -a fn=ucs
```



```
python pacman.py -l mediumDottedMaze -p StayEastSearchAgent
```
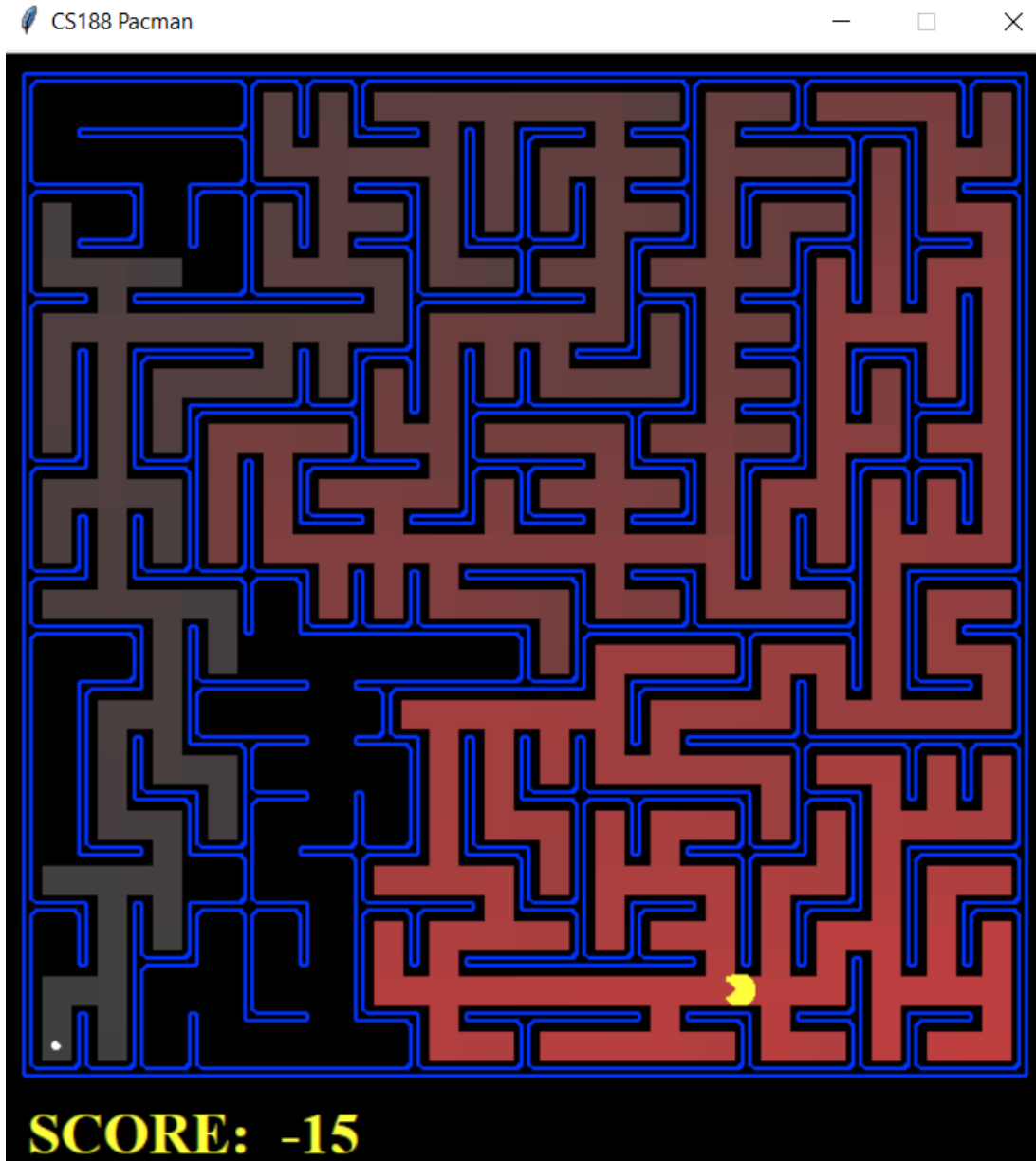
```
python pacman.py -l mediumScaryMaze -p StayWestSearchAgent
```

Question 4 (3 points): A* search

```
python pacman.py -l bigMaze -z .5 -p SearchAgent -a fn=astar,heuristic=manhattanHeuristic
```


مریم محمدابادی پور

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