

Taguri Ananya

Assignment #2

002757903

Zerind = 0

- Oradea = 71, Arad = 75
Zerind (0)

Oradea (71) Arad (75)

Oradea (71)

- Sibiu = 71 + 151 = 222

Zerind (0)

Oradea (71)

Arad (75)

Sibiu (222)

Arad (75)

Sibiu = 75 + 140 = 215

- Timisoara = 75 + 118 = 193

Zerind (0)

Oradea (71)

Arad (75)

Sibiu (222)

Timisoara (193)

Sibiu (215)

Timisoara (193)

- Lugoj = 193 + 111 = 304

Zerind (0)

Oradea (71)

Arad (75)

Sibiu (222)

Timisoara (193)

Sibiu (215)

Lugoj (304)

Sibiu (215) from Arad

- Rimnicu Vilcea = 215 + 80 = 295
Fagaras = 215 + 49 = 314

Zerind (0)

Oradea (71)

Arad (75)

Sibiu (222)

Timisoara (193)

Sibiu (215)

Rimnicu Vilcea (295)

Fagaras (314)

Rimnicu Vilcea (295)

- Pitesti = 295 + 97 = 392
Craiova = 295 + 146 = 441

Zerind (0)

Oradea (71)

Arad (75)

Sibiu (222)

Timisoara (193)

Sibiu (215)

Lugoj (304)

Rimnicu Vilcea (295)

Fagaras (314)

Pitesti (392)

Craiova (441)

Uniform Cost Search in order

1. Zerind (0)

2. Oradea (71)

3. Arad (75)

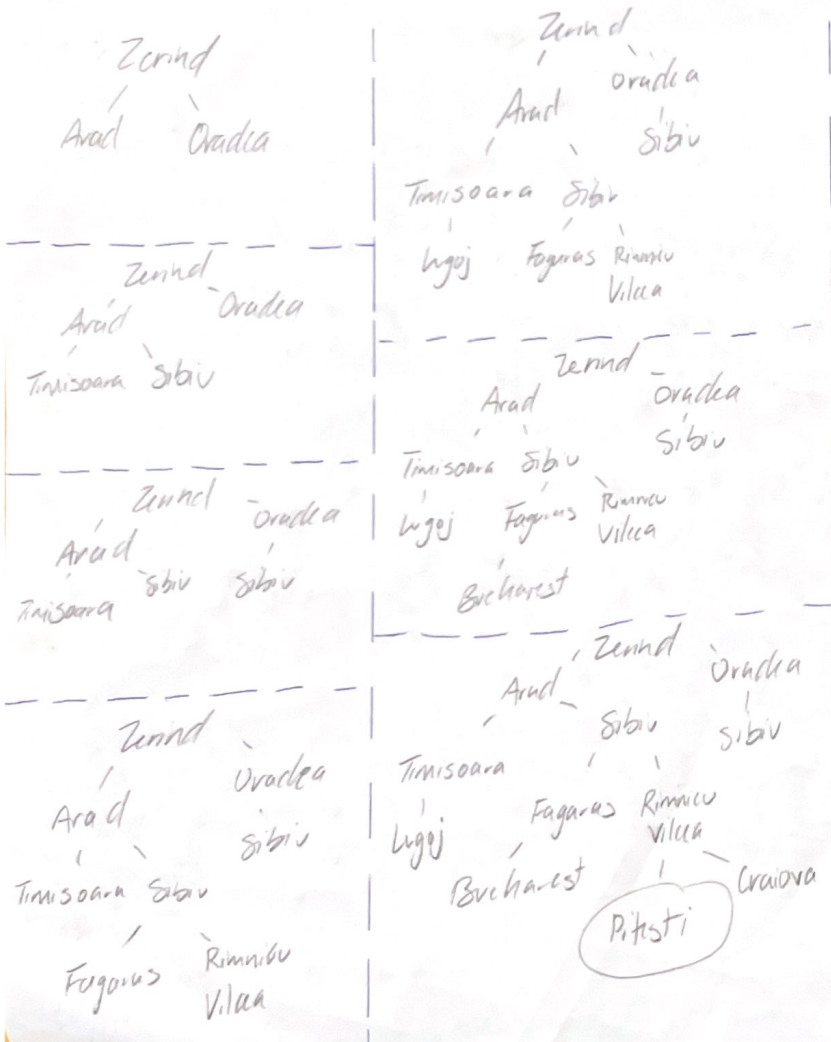
4. Timisoara (193)

5. Sibiu from Arad (215)

6. Rimnicu Vilcea (295)

7. Pitesti (392)

Bonus: Breadth First Search



Breadth First Search is performed because the straight distance from Zerind to Pitesti is unknown. The tree is expanded as determined by the queue to reach Pitesti.