

# B551 - Assignment 1

Ambrose Bonnaire-Sergeant (0003410123)

January 25, 2016

## 1 Usage

To run, execute the following command. Maven2 must be installed to build the project.

```
ambrose@ambrose-VirtualBox:~/Projects/B551/assignment1$ ./run.sh
```

Then enter the filename containing your graph. See **romania.txt** for an example input.

Enter filename for graph:

romania.txt

Then you can query the graph using query triples. The results of the search show up on the next line.

Enter query (eg. 'Arad Bucharest DFS') [DFS/BFS/IDS]:

Arad Bucharest DFS

[Arad, Zerind, Oradea, Sibiu, RimnicuVilcea, Pitesti, Bucharest], 575

See the next section for example queries.

## 2 Example execution

```
ambrose@ambrose-VirtualBox:~/Projects/B551/assignment1$ ./run.sh
```

Enter filename for graph:

romania.txt

Enter query (eg. 'Arad Bucharest DFS') [DFS/BFS/IDS]:

Arad Bucharest DFS

[Arad, Zerind, Oradea, Sibiu, RimnicuVilcea, Pitesti, Bucharest], 575

Enter query (eg. 'Arad Bucharest DFS') [DFS/BFS/IDS]:

Arad Bucharest BFS

[Arad, Sibiu, Fagaras, Bucharest], 450

Enter query (eg. 'Arad Bucharest DFS') [DFS/BFS/IDS]:

Arad Bucharest IDS

[Arad, Sibiu, Fagaras, Bucharest], 450

Enter query (eg. 'Arad Bucharest DFS') [DFS/BFS/IDS]:

Sibiu Eforie DFS

[Sibiu, RimnicuVilcea, Pitesti, Bucharest, Urziceni, Hirsova, Eforie], 547

Enter query (eg. 'Arad Bucharest DFS') [DFS/BFS/IDS]:

Sibiu Eforie BFS

[Sibiu, Fagaras, Bucharest, Urziceni, Hirsova, Eforie], 579

Enter query (eg. 'Arad Bucharest DFS') [DFS/BFS/IDS]:  
Sibiu Eforie IDS  
[Sibiu, Fagaras, Bucharest, Urziceni, Hirsova, Eforie], 579

Enter query (eg. 'Arad Bucharest DFS') [DFS/BFS/IDS]:  
Drobeta Fagaras DFS  
[Drobeta, Mehadia, Lugoj, Timisoara, Arad, Zerind, Oradea, Sibiu, Fagaras], 770

Enter query (eg. 'Arad Bucharest DFS') [DFS/BFS/IDS]:  
Drobeta Fagaras BFS  
[Drobeta, Craiova, Pitesti, Bucharest, Fagaras], 570

Enter query (eg. 'Arad Bucharest DFS') [DFS/BFS/IDS]:  
Drobeta Fagaras IDS  
[Drobeta, Craiova, Pitesti, Bucharest, Fagaras], 570

Enter query (eg. 'Arad Bucharest DFS') [DFS/BFS/IDS]: