B551 - Assignment 1

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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, Rimnicu Vilcea, 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, Rimnicu Vilcea, 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]:
```