

## Optimal Path Search (Uninformed Search/ Informed Search)

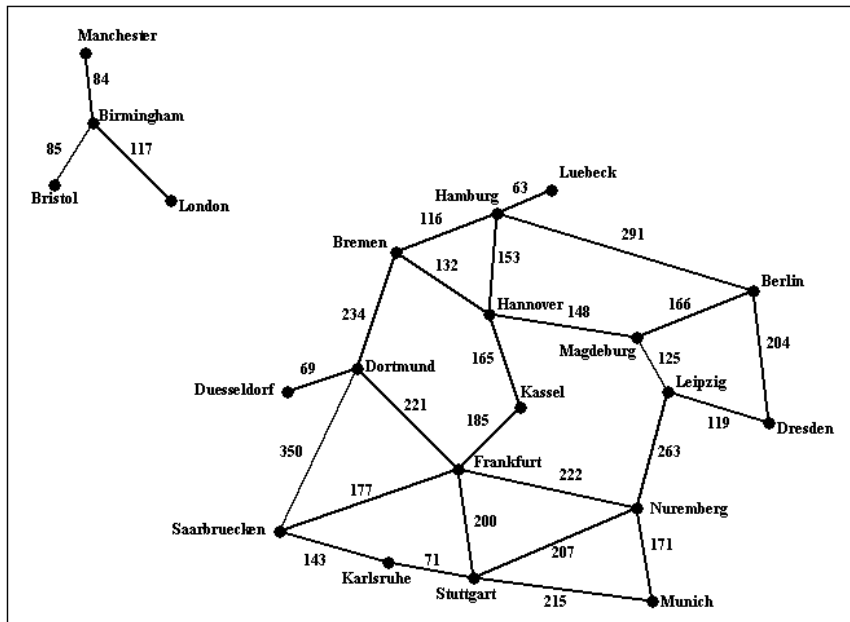


Figure 1: Visual representation of [input1.txt](#)

I have implemented a search algorithm that can find a route between any two cities. The program will take the command line arguments as follows:

***find\_route** uninformed/informed **input\_filename** **origin\_city** **destination\_city** **heuristic\_filename***

An example command line is:

```
find_route uninformed input1.txt Munich Berlin
find_route informed input1.txt Munich Berlin h_kassel.txt
```

Note that, [input1.txt](#) describes road connections between cities in some part of the world shown in Figure1. [h\\_kassel.txt](#) will give us the heuristic value for every state (assuming Kassel is the goal).