

# EECS 233 HW10

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GitHub: <https://github.com/bp0017/CWRUEECS233/tree/master/HW10>

## 1

```
C:\Users\Ben\Documents\EECS233\CWRUEECS233\HW10>java WeightedGraph
The path { 1 2 3 } is 7.0 units.
The path { 0 2 3 } is not valid
```

## 2

The Big-O runtime of a method that finds the length of a path is  $O(N)$ , because it has two, non-nested for loops. Each loops through the data structure a maximum of  $N$  times, which results in an  $O(N)$  time complexity, where  $N$  is the number of edges that connect the first and last point.