

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.

3

```
C:\Users\bp001\Documents\EECS223\HW10>java GraphDemo
```

```
v0  v1  v4  v3  v5  v6
```