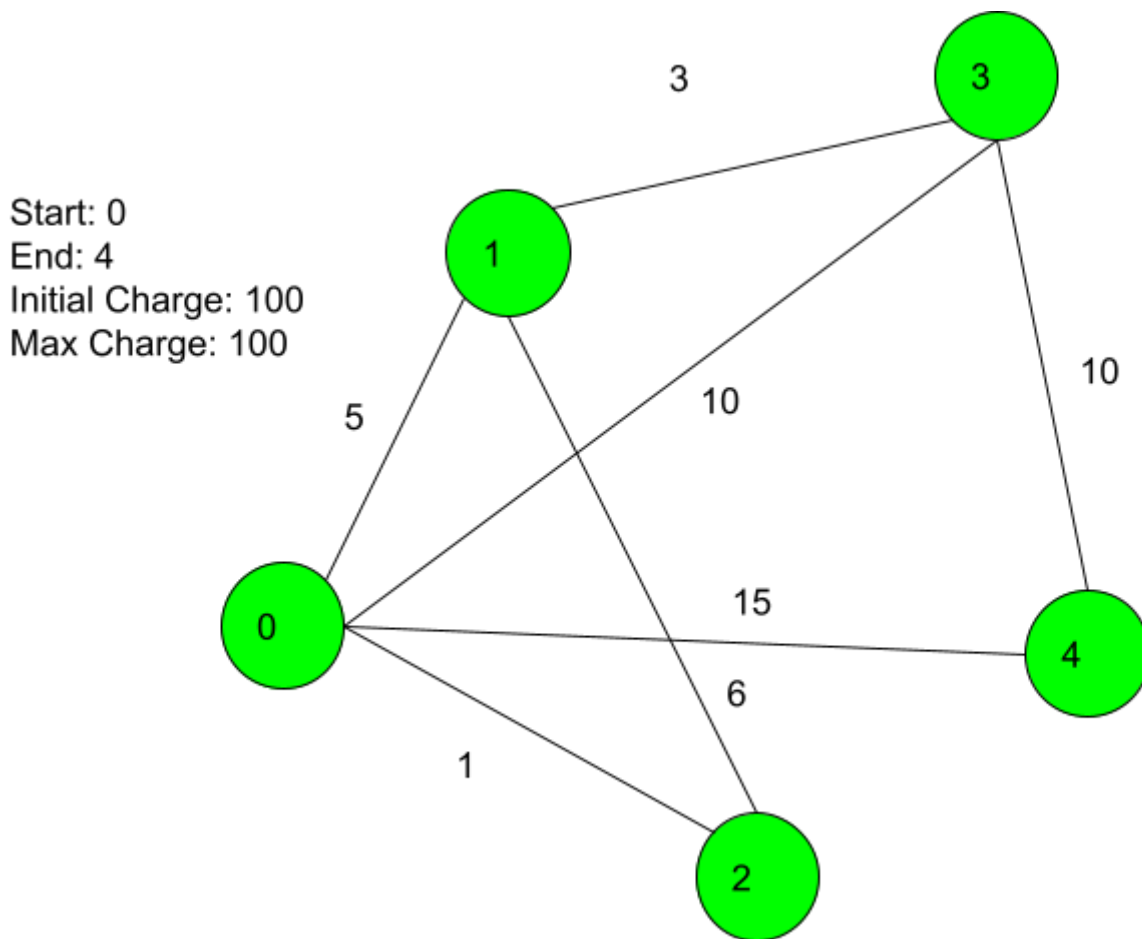


Aidan Murphree

Test 1: When the algorithm is given a graph of all chargers, it simply finds the shortest path.

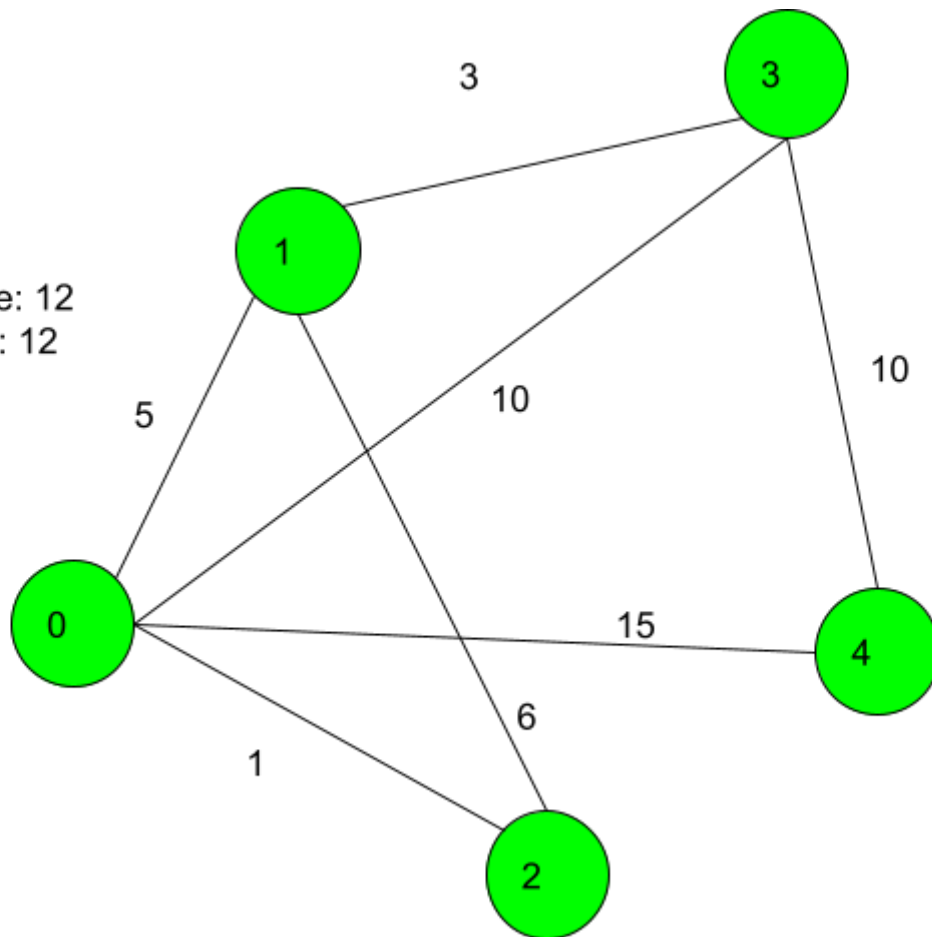


Expected Output:

Verify Path: 1
15: 0 4

Test 2: Doesn't take the shortest path if the range isn't high enough

Start: 0
End: 4
Initial Charge: 12
Max Charge: 12

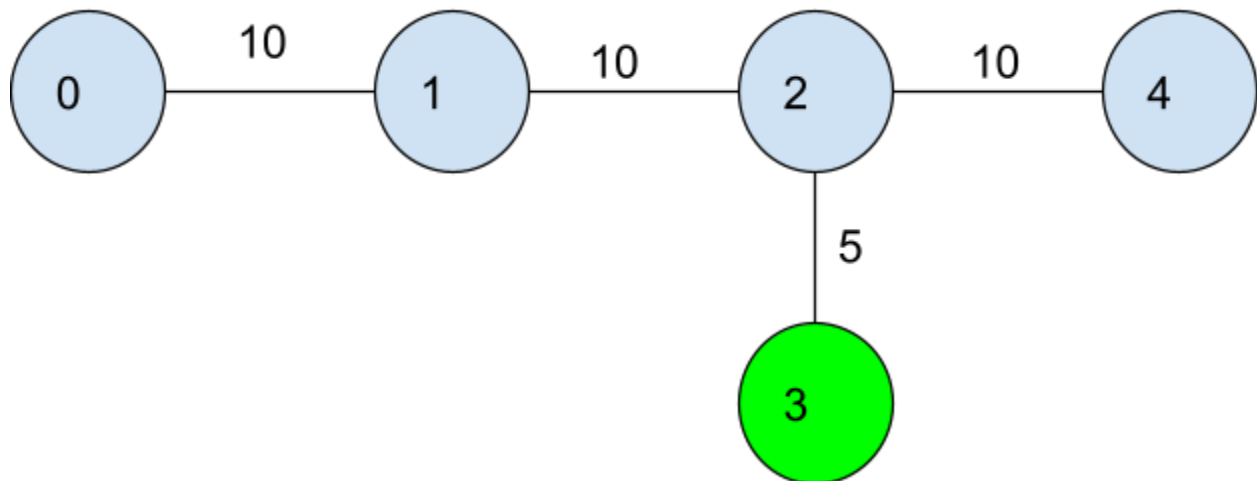


Expected Output:

Verify Path: 1
18: 0 1 3 4

Test 3: Can double back if need be to refill charge

Start: 0
End: 4
Initial Charge: 25
Max Charge: 25



Expected Output:

Verify Path: 1
40: 0 1 3 2 4

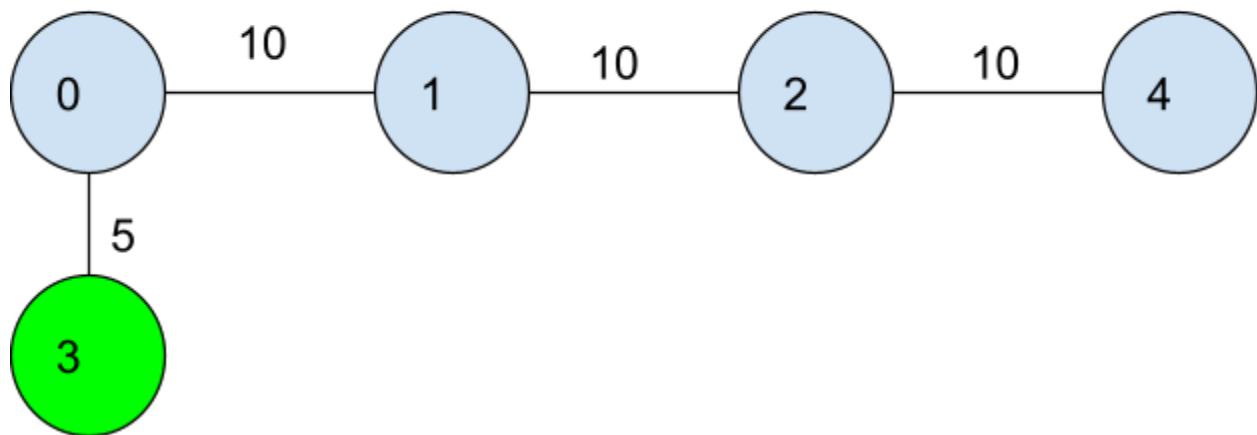
Test 4: Will go to a charger first if initial charge isn't enough to get there

Start: 0

End: 4

Initial Charge: 10

Max Charge: 40

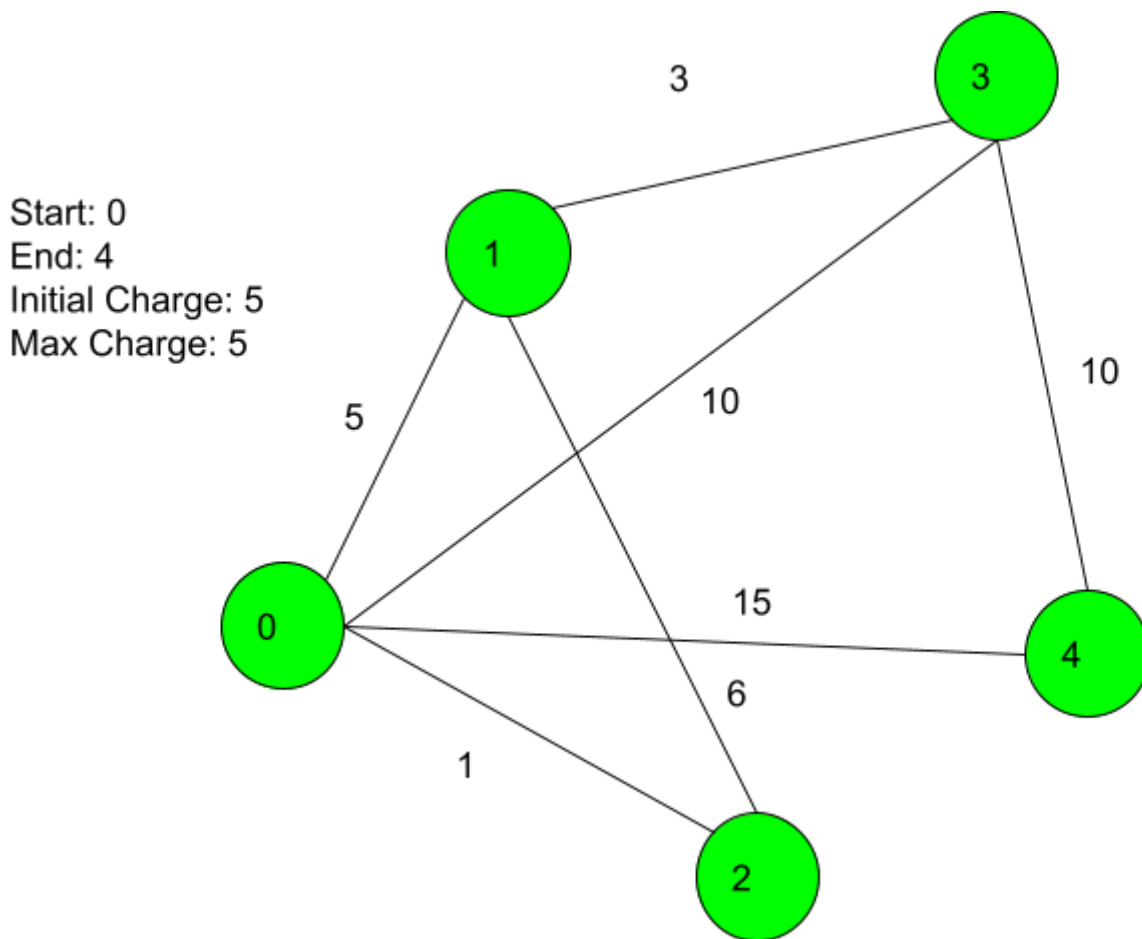


Expected Output:

Verify Path: 1

40: 0 3 0 1 2 4

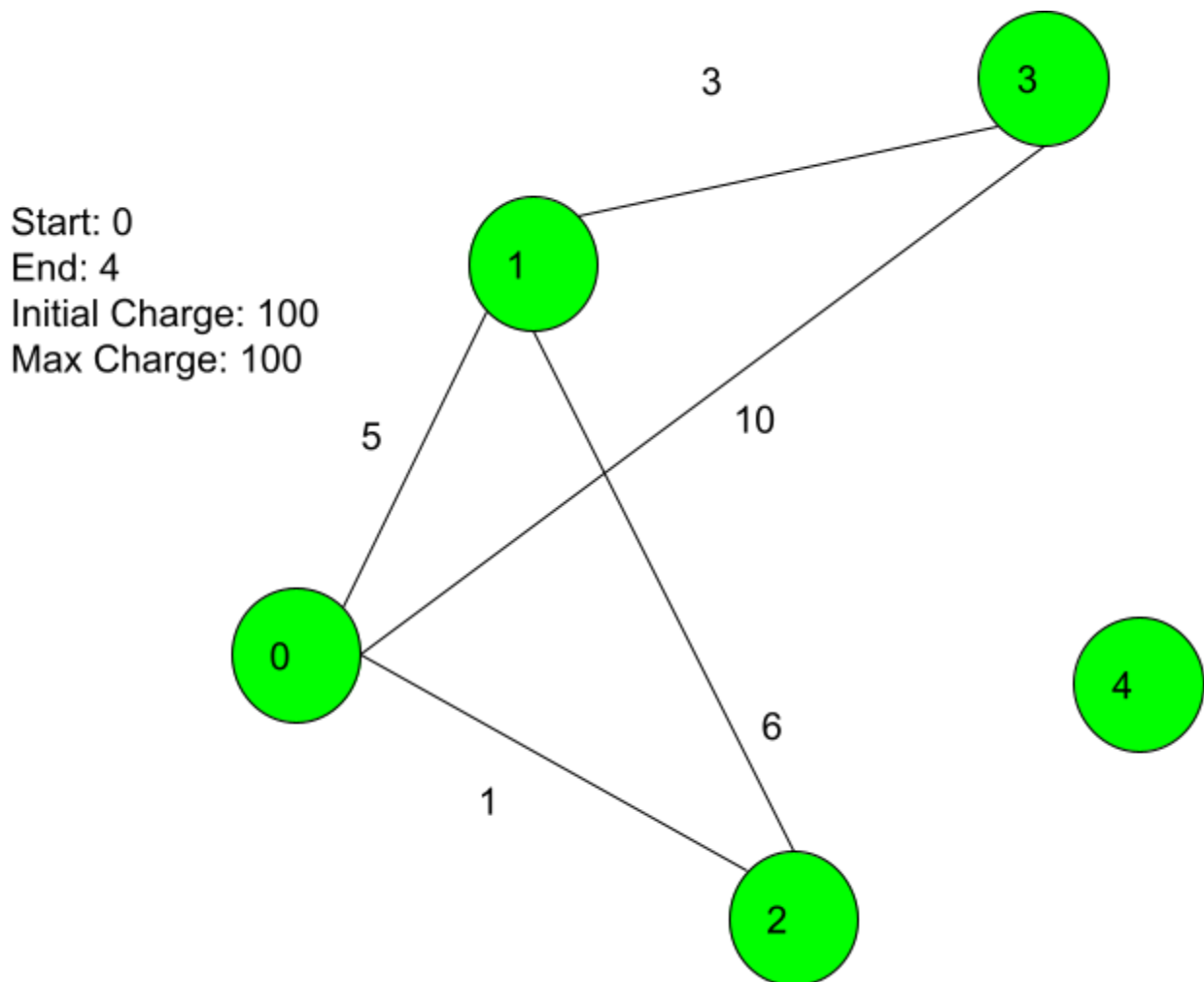
Test 5: It fails if the max charge isn't enough for some leg of the path.



Expected Output:

No suitable path from 0 to 4 exists

Test 6: It fails if the end point isn't connected at all.



Expected Output:

No suitable path from 0 to 4 exists