Design and Analysis of Algorithms
5.2 Greedy Algorithms

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5.2.2

Suppose we find a minimum spanning tree T in a graph.

Suppose we then add 1 to the weight of every edge in the graph.

Is T still a minimum spanning tree? Why or why not?

Yes T is still a minimum spanning tree because adding 1 to the weight will not

1. create cycles

2. change the ordering of the edge weights