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Final Exam

Question 9.20

9.20 Give an algorithm to find a maximum spanning tree. Is this harder than finding a minimum spanning tree?

Since the minimum spanning tree algorithm works for negative edge costs, just replace all cost with their negative and use the algorithm for minimum spanning tree.

We will start with a function that has |V| = n

maxSpanTree(V,E)

{

// set T to contain only vertices. It contains no edges

// Arrange the edges in descending cost

for(int i = 1, i <= n-1, i++)

{

Select the next biggest coats;

if (connects to edges together)

add the edge to T;

}

}