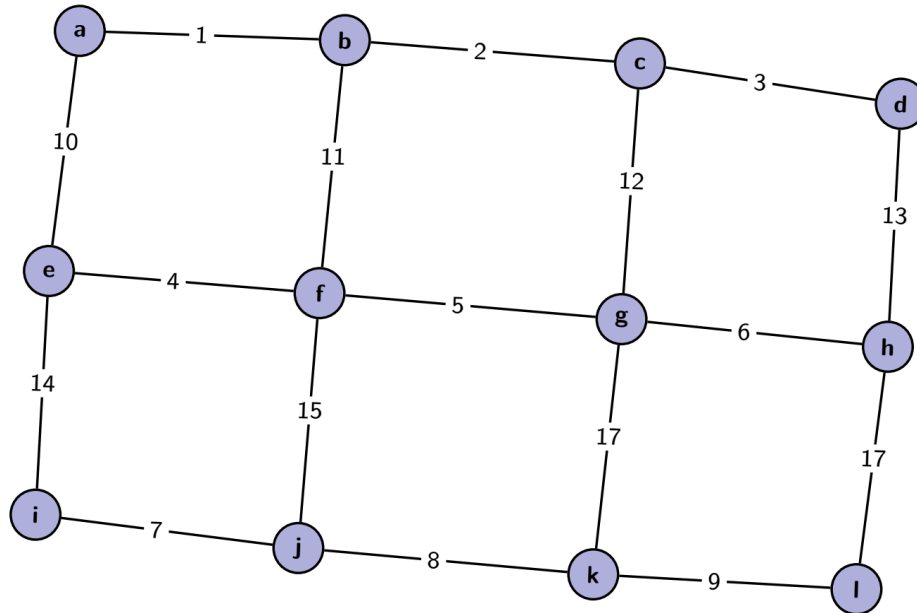


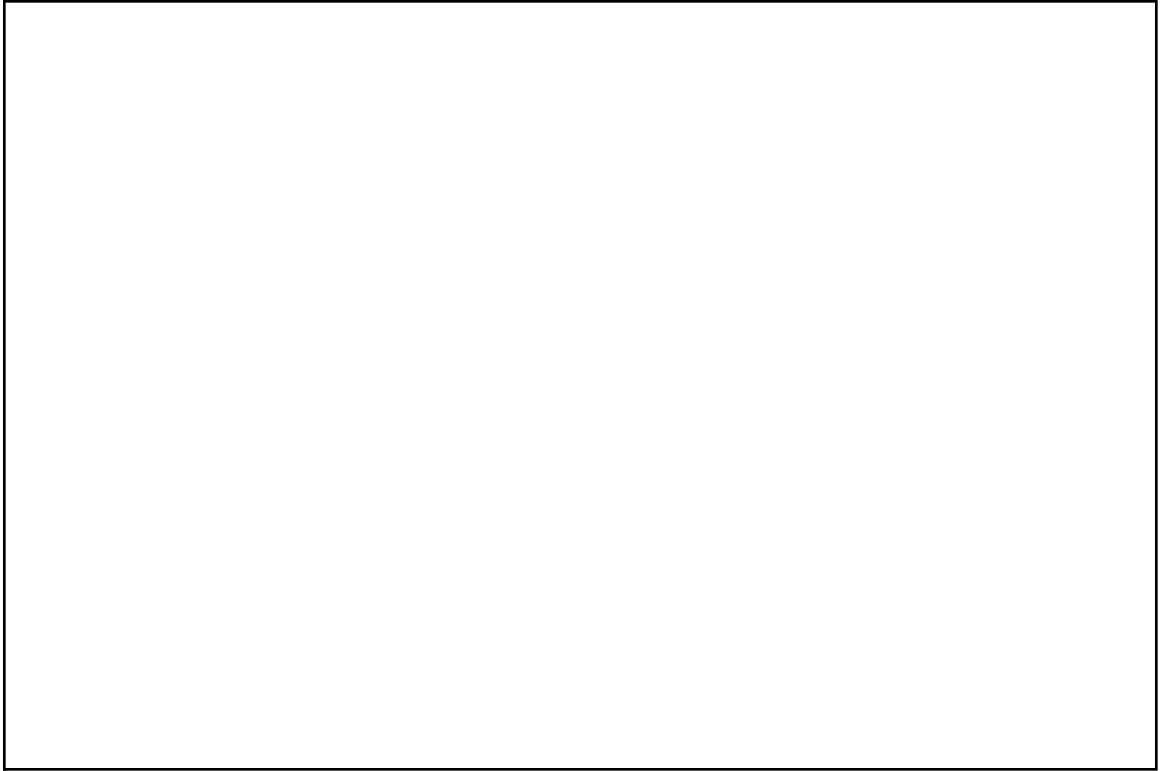
Section 9: Graphs

1. LMNST!

Consider the following graph:



- a) Find an MST of this graph using both of the two algorithms we've discussed in lecture. Make sure you say which algorithm you're using and show your work.



Vertex	Known	Cost of Edge
a		
b		
c		
d		
e		
f		
g		
h		
i		
j		
k		
l		

- b) Using just the graph, how can you determine if it's possible that there are multiple MSTs of the graph? Does this graph have multiple MSTs?

- c) What is the asymptotic runtime of the algorithms that you used to compute the MSTs?