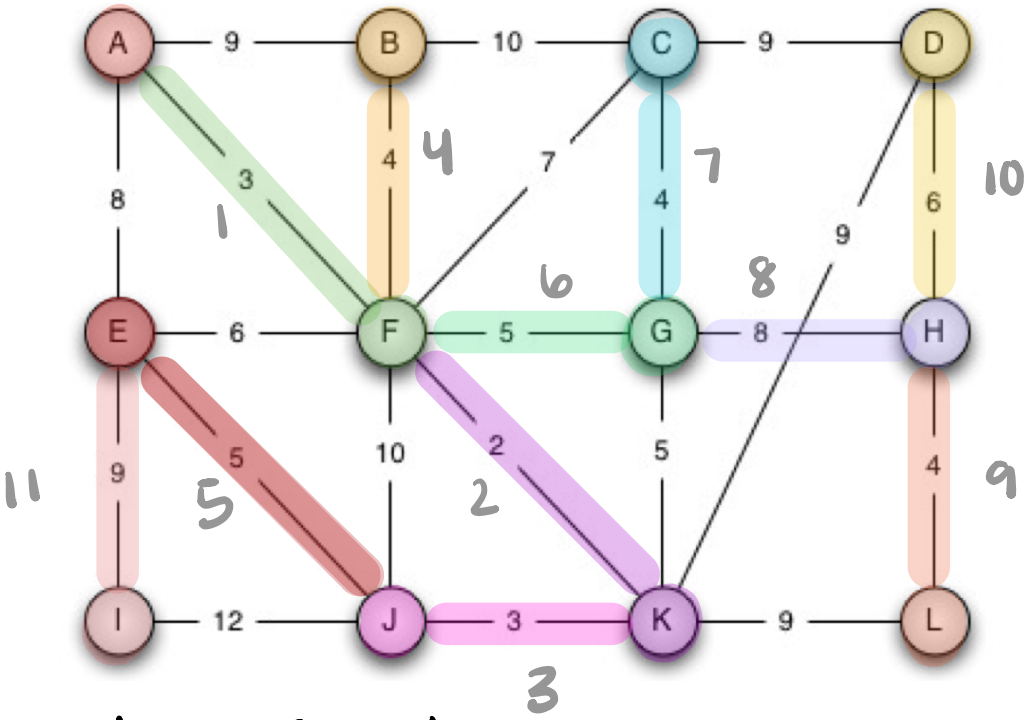
Prims start with vertex or order 1 (beg.) then pick shortest length attached to any previous vertex and does not form a cycle.



visited	
A	C
F	H
K	L
J	D
B	I
E	
G	

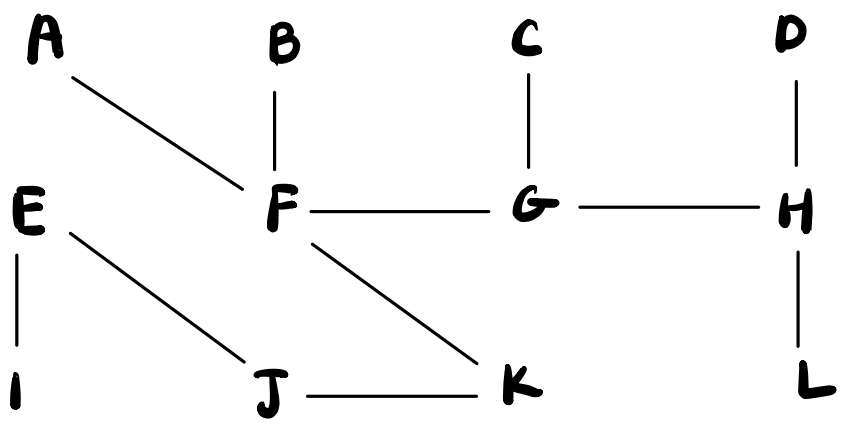
$O(e \log v)$

Order of edges:

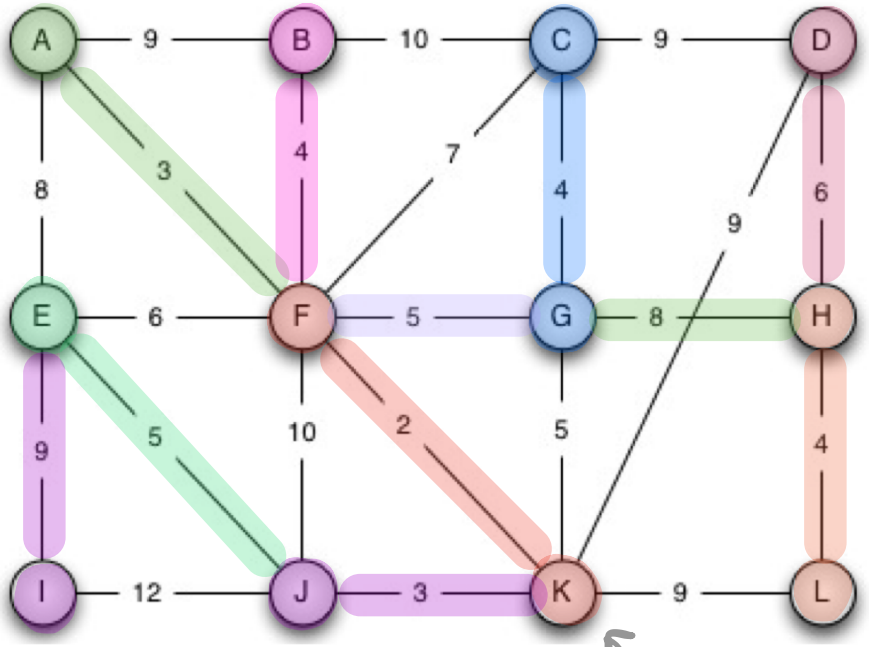
(A, F), (F, K), (K, J), (F, B), (E, J)

(F, G), (C, G), (G, H), (L, H), (D, H), (E, I)

Final graph:



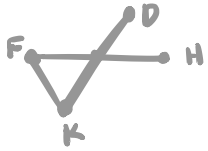
Kruskal's pick the smallest edge while not creating a cycle



visited edges	
F, K	E, J
A, F	F, G
J, K	D, H
B, F	G, H
C, G	E, I
H, L	

$O(e \log v)$

would have formed a cycle!



Note: if all edges are unique then there is only one MST.

another MST algo is Boruvkal but we will not be tested on this.