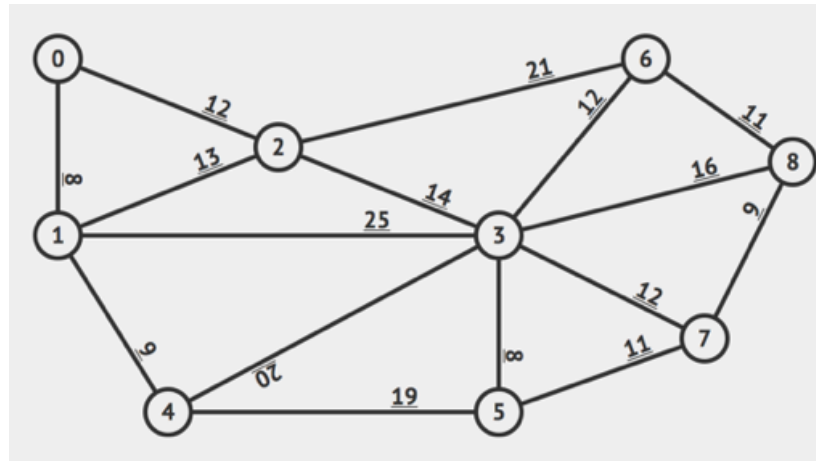


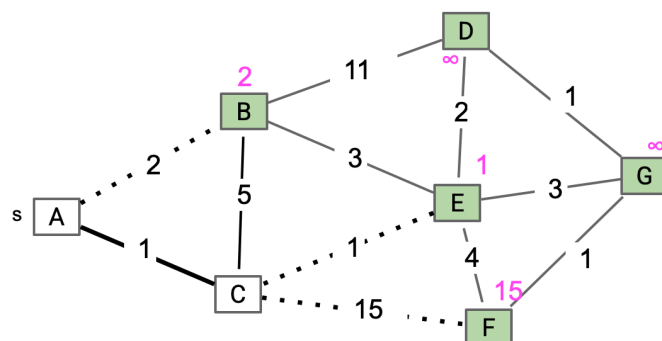
## CS62: Spring 2025 | Lecture #24 (MSTs) worksheet | Jingyi Li

- Starting at node 0, run Prim's algorithm to find the MST.



- We just relaxed C's edges. Show distTo, edgeTo, and fringe after the next relaxation.

Node	distTo	edgeTo
<b>A</b>		-
B	2	A
<b>C</b>		<b>A</b>
D	∞	-
E	1	C
F	15	C
G	∞	-



Fringe: [(E: 1), (B: 2), (F: 15), (D: ∞), (G: ∞)]

3. Run Kruskal's to find the MST on this graph. What do you notice about this answer vs Q1's answer?

Edge	Weight
0-1	8
3-5	8
1-4	9
7-8	9
5-7	11
6-8	11
0-2	12
3-6	12
3-7	12
1-2	13
2-3	14
3-8	16
4-5	19
4-3	20
2-6	21
1-3	25

