

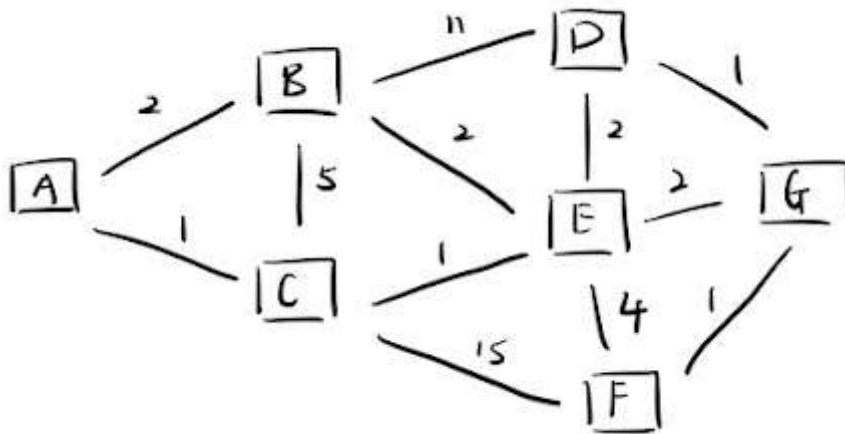
Which of the following are true statements about Prim's and Dijkstra's Algorithm?

* 2 points

- ☐ Prim's algorithm finds the MST and Dijkstra's Algorithm finds the SPT.
- ☐ Both Prim's and Dijkstra's Algorithm use a priority queue for the fringe, and the priority for each vertex is the weight of the edge that leads to that vertex.
- ☐ Dijkstra's algorithm visits vertices in order of distance from the source.
- ☐ Prim's algorithm visits vertices in order of distance from the MST under construction.

What is the order of the edges added into the MST according to **Prim's Algorithm** with "A" being the start vertex? Assuming we break ties alphabetically (ex: **AB** will come before **AC**).

* 2 points

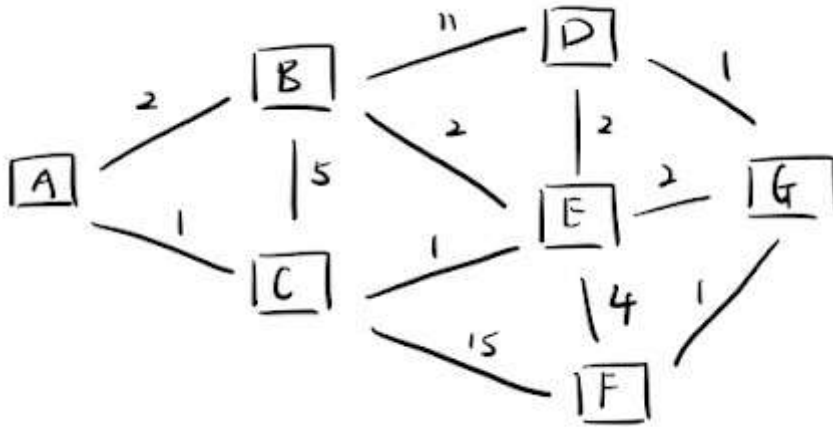


- ☐ AC, CE, DG, FG, AB, BE
- ☐ AC, CE, DG, FG, AB, DE
- ☐ AC, CE, AB, DE, DG, FG
- ☐ AB, AC, CE, DE, DG, FG



What is the order of the edges added into the MST according to the **Kruskal's Algorithm**? Assuming for each edge notation, we always write the alphabetically earlier letter first, and we break ties alphabetically (ex: **AB** will come before **AC**).

* 3 points



- ☐ AC, CE, DG, FG, AB, BE
- ☐ AC, CE, DG, FG, AB, DE
- ☐ AC, CE, AB, DE, DG, FG
- ☐ AB, AC, CE, DE, DG, FG

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