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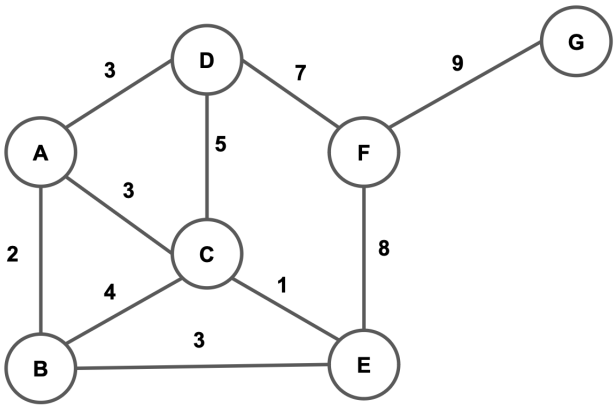
Kruskal Algorithm

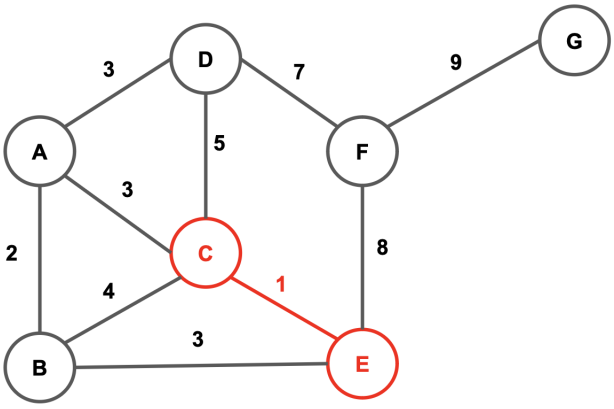
Minimum Spanning Tree (MST)

A minimum spanning tree (MST) is a subset of the edges of a connected, undirected graph that connects all the vertices with the most negligible possible total weight of the edges.

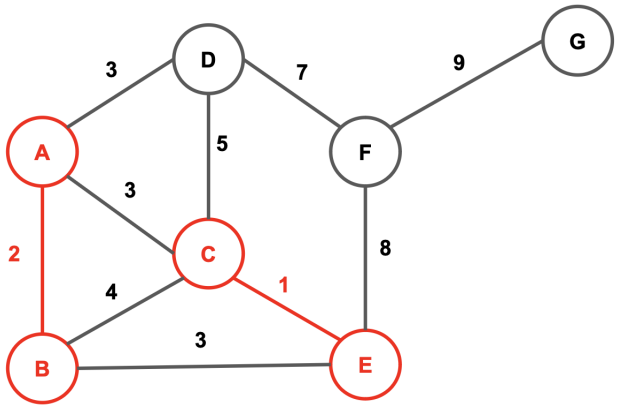
Step 0: We have a graph with the corresponding values to the edges.



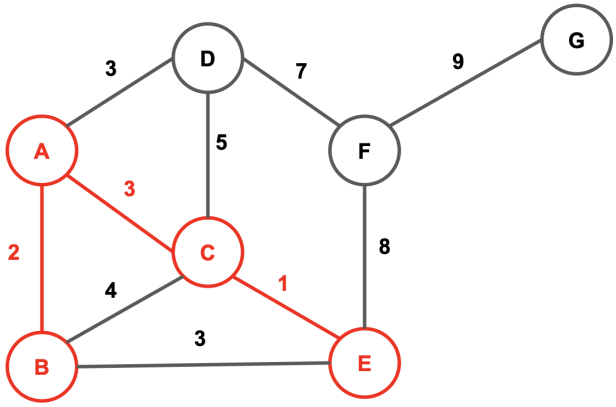
Step 1: We choose the edge with the minimum value which don't create a cycle.



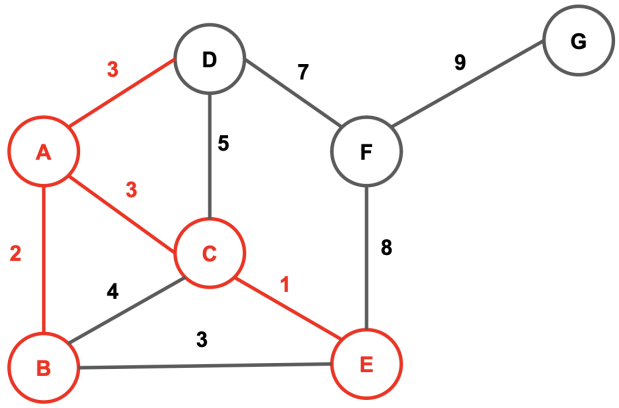
Step 2: We choose the edge with the minimum value which don't create a cycle.



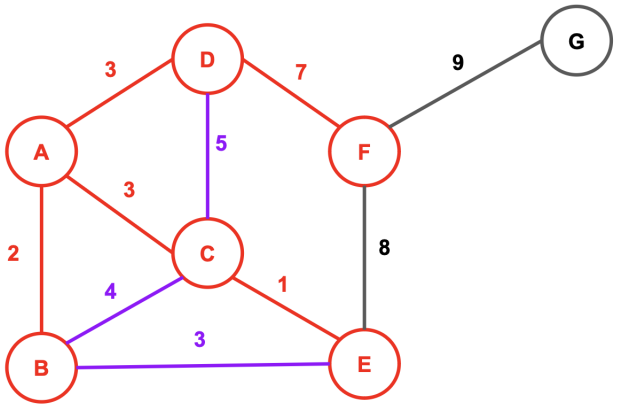
Step 3: We choose the edge with the minimum value which don't create a cycle.



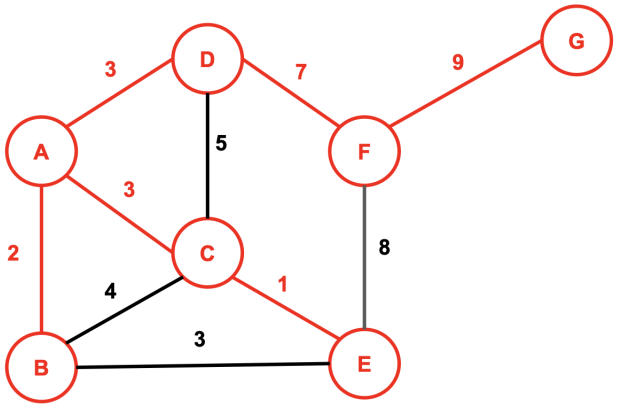
Step 4: We choose the edge with the minimum value which don't create a cycle.



Step 5: We choose the edge with the minimum value which don't create a cycle.



Step 6: We choose the edge with the minimum value which don't create a cycle.



Step 7: We finally have the minimum spanning tree.