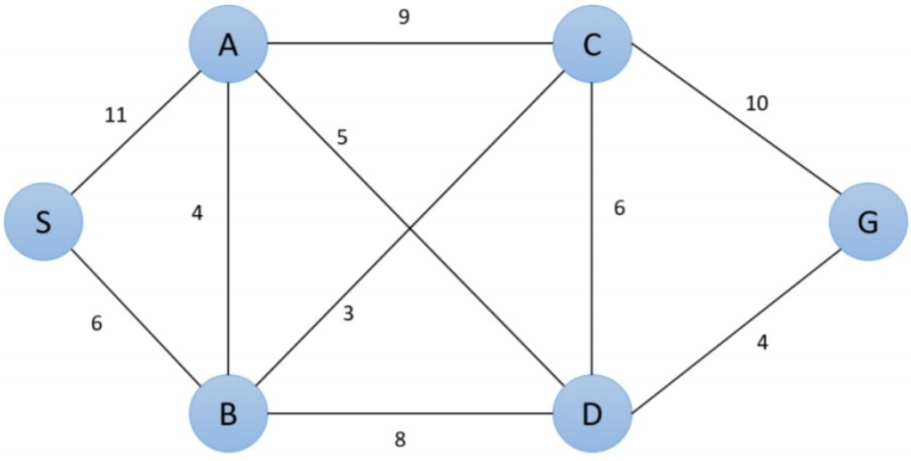
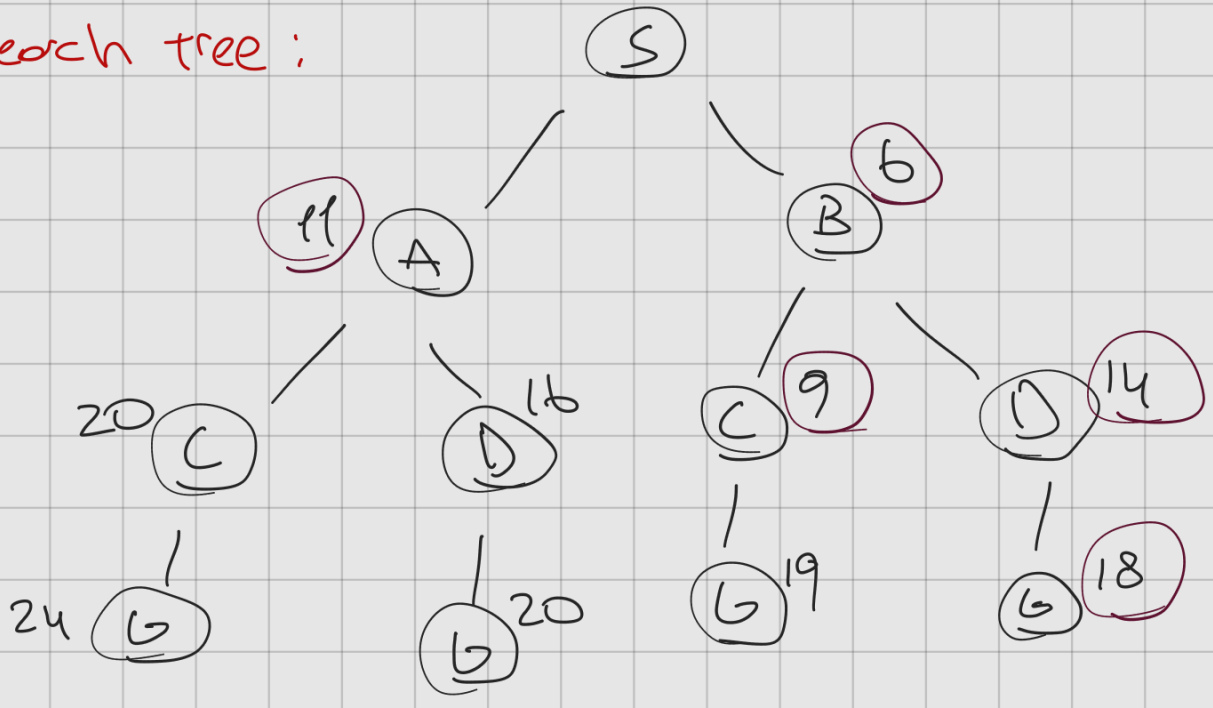
Suppose that the following graph is constructed for your search problem;



Let S be initial state/node and G be goal state/node. Apply Uniform Cost Search to this graph. Construct search tree, and show each step on the tree. (No implementation is expected for this question)

visited Nodes = S → B → C → A → D → G

search tree :