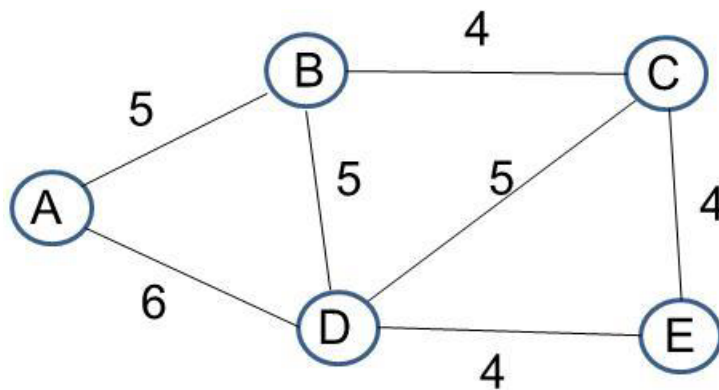


Lab 10: Graph and Balance Tree

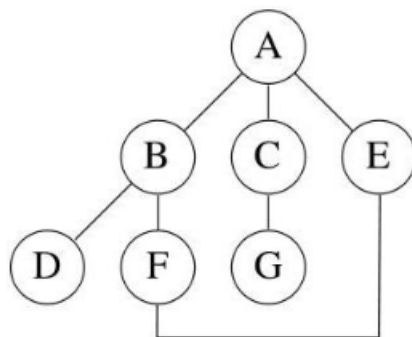
Due: 12/7

For this lab you can write (or type) your answers. Make sure your answers are clear and readable.

- 1) For the following graph use Dijkstra algorithm to find the shortest path for each vertex.



- 2) Draw the DFS and BFS for the following graph. The starting vertex is vertex 'A'.



- 3) Create a red_black tree for the following values:
3,2,1,4,5,6,7,16,15,14,13,12,11,10,8,9
Show all the steps.
- 4) After building the red_black tree, remove the 15 and show the tree.
- 5) Remove 7 and show tree after remove.