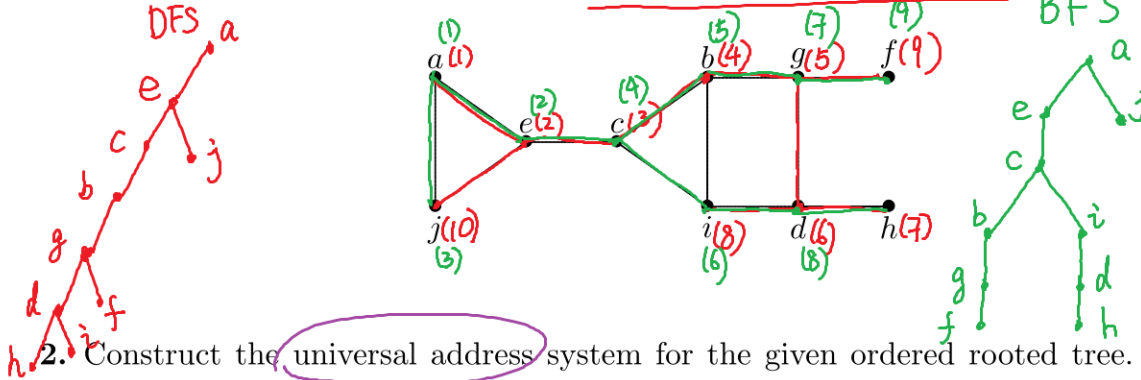
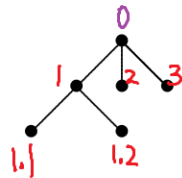


CS1231 ADDITIONAL TUTORIAL QUESTIONS

1. Find a spanning by (i) depth first search (ii) breadth first search using the alphabetical ordering. For (i) order the vertices by the DFS ordering. a e c b g d h i f j

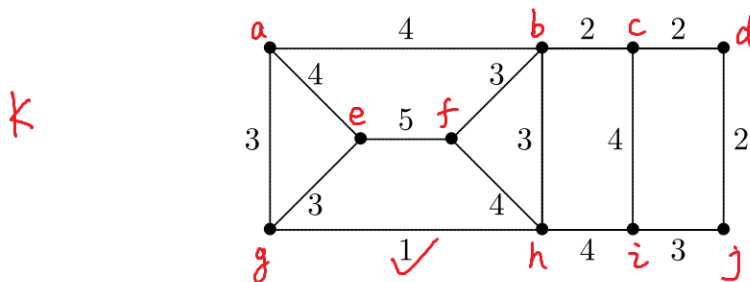
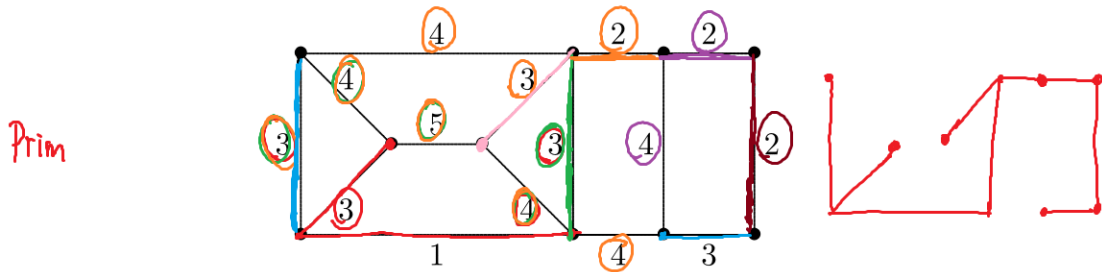


2. Construct the universal address system for the given ordered rooted tree. Then use this to order its vertices using the lexicographic order of their labels.



$$0 < 1 < 1.1 < 1.2 < 2 < 3 < 3.1 < 3.2 < 3.2.1 < 3.2.2 < 3.3$$

- 3.** Find a minimum spanning in the following graph.



order gh bc cd dj ag ge fb bh ij ab ae ci
weight=1 weight=2 weight=3 weight=4
a b c d ef
weight=5

