

Solution of Assignment # 2  
Artificial Intelligence  
Spring 2011

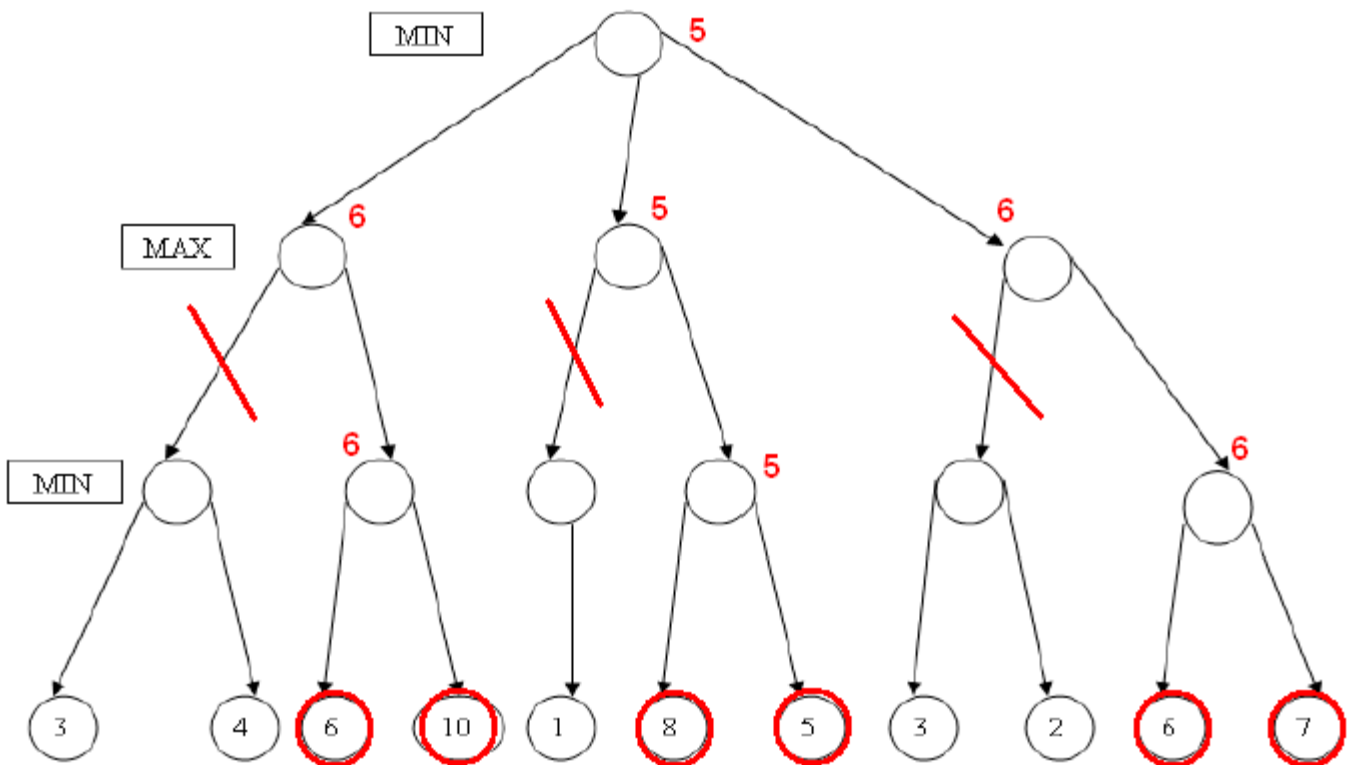
**Question # 1 Solution:**

DFS is better to be used when we are sure that our goal lies deeper into the last level of the tree and not on the top levels of the tree. It is because it will save our time. Instead of wandering on the top levels of the tree we will dive deeper into the tree and perhaps may find our solution/goal node earlier as compared to BFS and progressive deepening.

**Question # 2 solution:**

BFS is better in this case because in this case if we will use DFS or Progressive deepening then there is a chance that we may miss out our solution/goal node because DFS or Progressive deepening do not explore each and every node of the tree.

**Question # 3 solution:**



Question # 4 solution:

