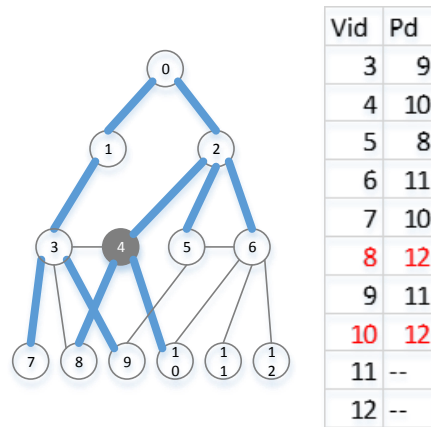
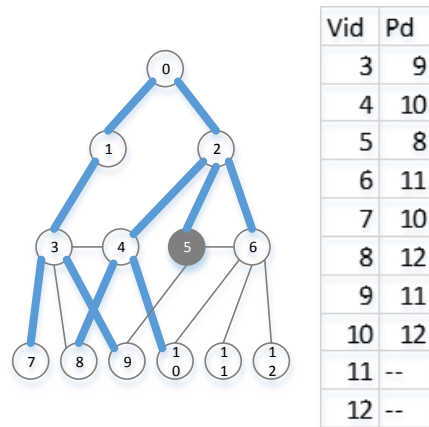


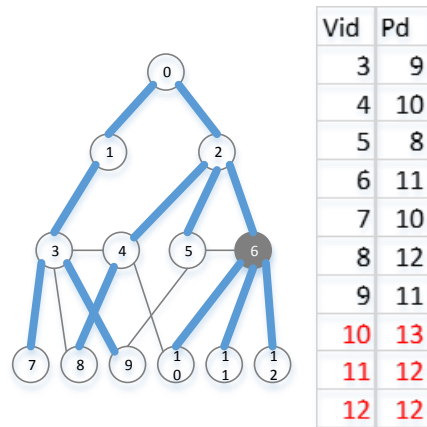
(a) Traversing 3: 7, 8, 9 stores the shortest path as they have been reached for first time.



(b) Traversing 4: 8 updates the label for larger path degree. 10 stores shortest path as it's been reached for first time.



(c) Traversing 5: 9 does not update its label since the path degree of shortest path through 5 is smaller.



(b) Traversing 6: 10 updates the label for larger path degree. 11, 12 stores shortest path for first time.