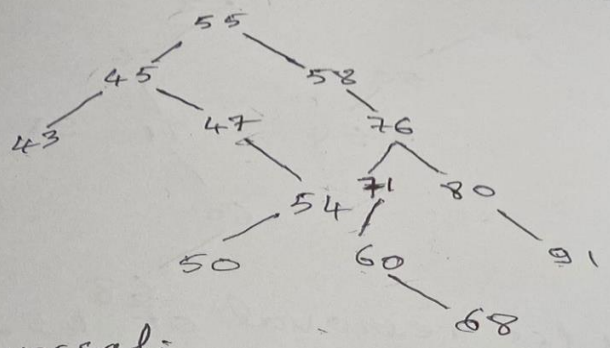
Assignment#9

a) create a binary tree for the given set of nodes:
55, 45, 47, 43, 54, 58, 76, 71, 50, 60, 68, 80, 91

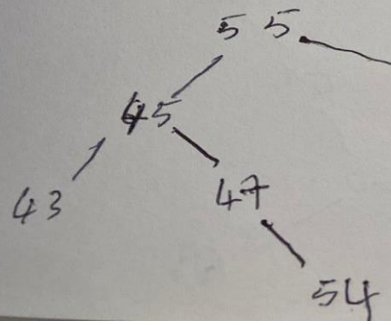


b) In Order Traversal:
43 45 47 50 54 55 58 60 68 71 76 80 91

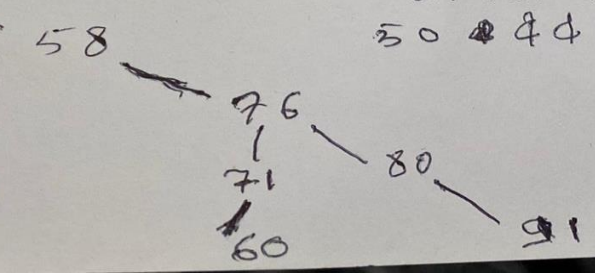
c) Pre Order Traversal:
55 45 43 47 54 50 58 76 71 60 68 80 91

d) Post Order Traversal:
43 50 54 47 45 68 60 71 91 80 76 58 55

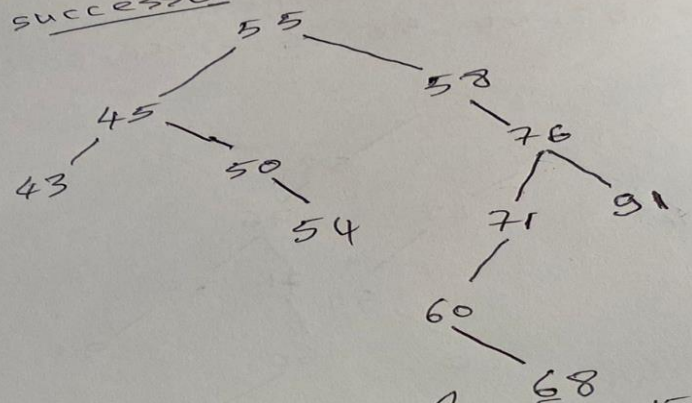
the successor: of 76 is 80
" " of 47 is 50



Tree after removing 50 & 68



g) Tree after removal
I use successor



h) Tree after removal of 45 and 76

remove 45 : (50) successor is the right child of del node (45) so this is case 3b;
remove 76: (91) is a successor of 76 so its right child so this is case (3a) and this right child has no left and no right