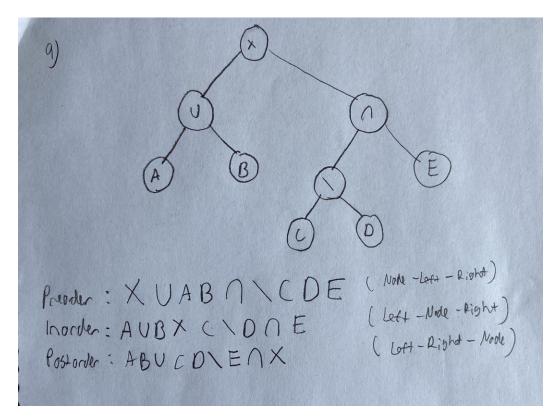
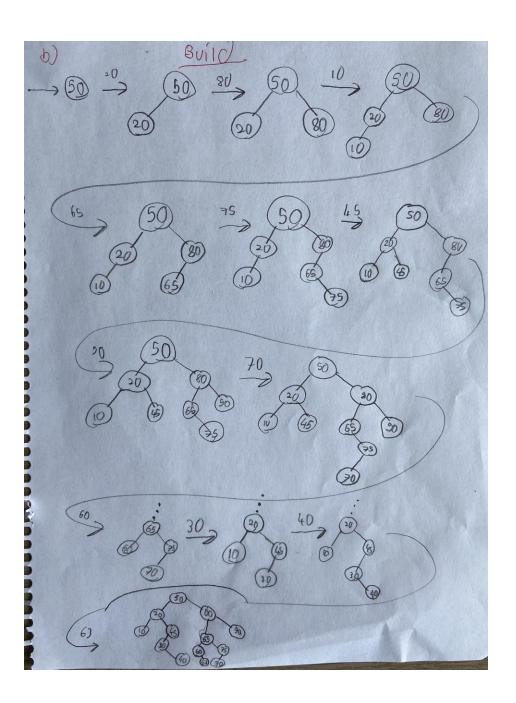
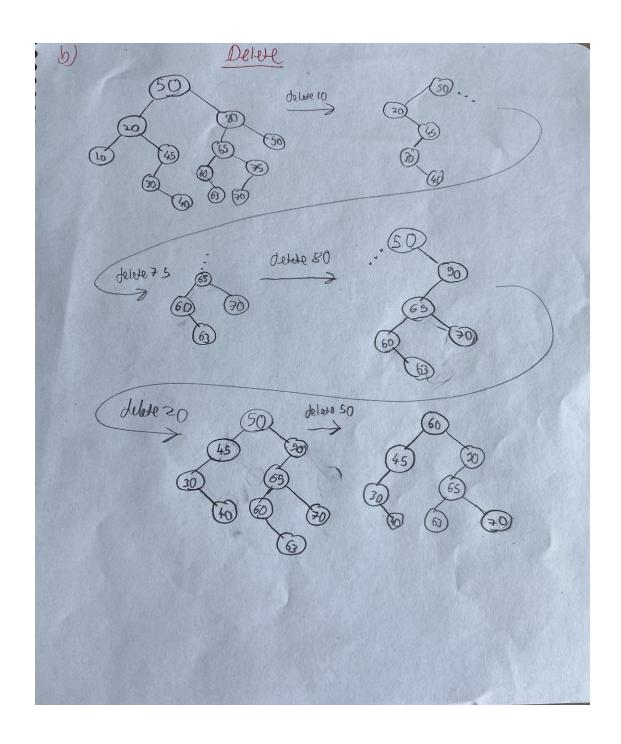
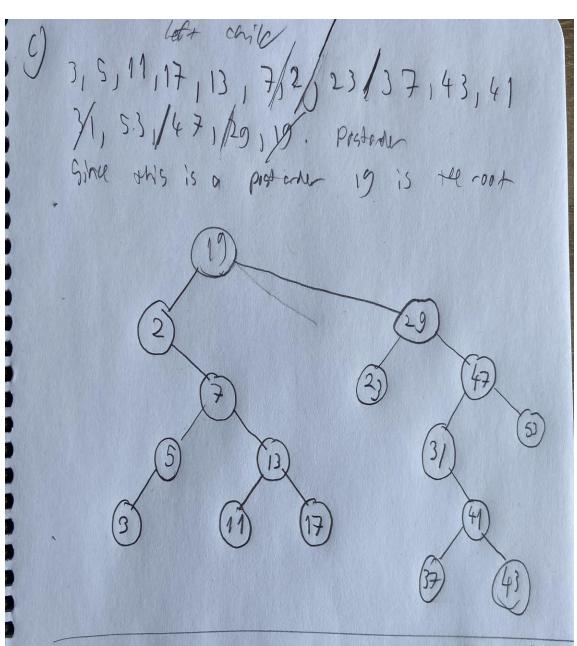
CS202-HW2(Utku Kurtulmus-21903025)(Sec1)

Question 1



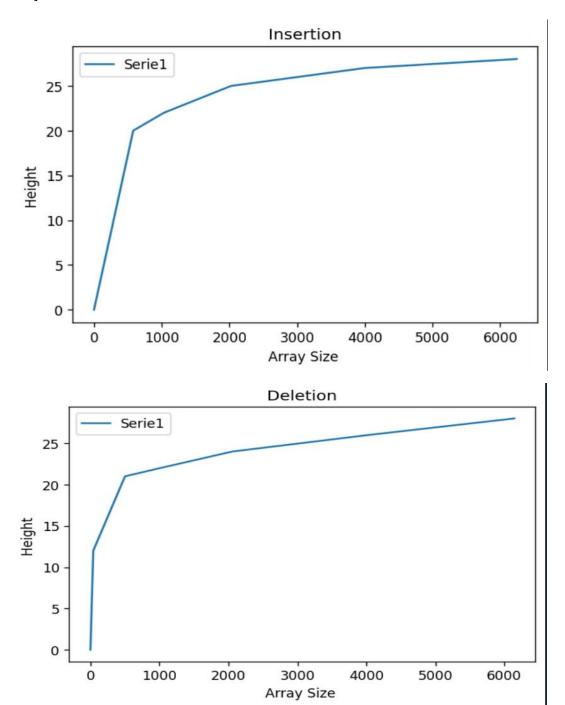






Preorder: 19, 2, 7, 5, 3, 13, 11, 17, 29, 23, 47, 31, 41, 37, 43, 53

Question 3



<u>Comments on plots</u>: I didn't include results of other executions since they are almost perfectly identical and on graph they overlap and it's not a good idea to put them together on graph. And I think this homework was really useful for us to understand the behavior of a binary search tree. We knew that in the worst case (sorted) binary search tree, the height is n (number of elements) and in best and average cases height is approximately log(n). We can see this relation on the plots. Moreover, in timing analysis there are various types of parameters that can change the result, but in height analysis we see almost perfectly identical results on different environments, and the theoretical and experimental results match.