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CSE 321 Homework 5
Report

1) In my algorithm, I iterate to the given array and create possible subsets in a recursion. In any iteration, if the occured subset yet (from the elements before the iterated element) gives zero from the sum of its elements, then I print it out.

2) In the algorithm that I implemented, I move up by selecting the list occured yet, whose sum of its elements is smaller, from the bottom.. And I keep moving like that from the bottom to the top, till I find the list that sum of its elements is minimum.

$6 < 8$ $6 < 9$ $6 < 9$
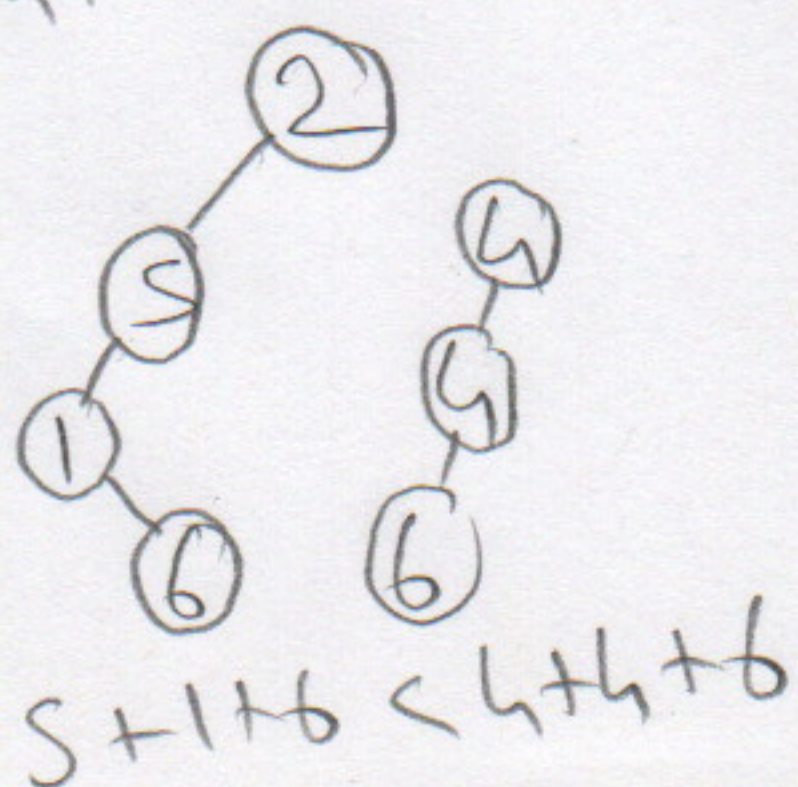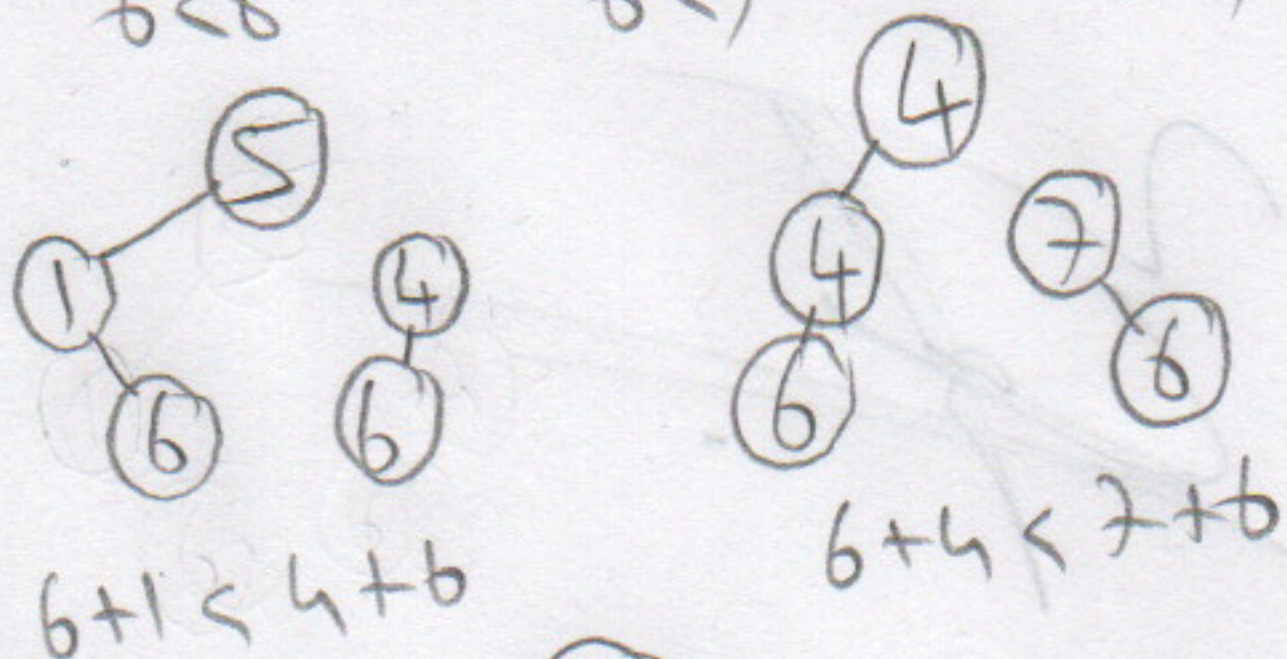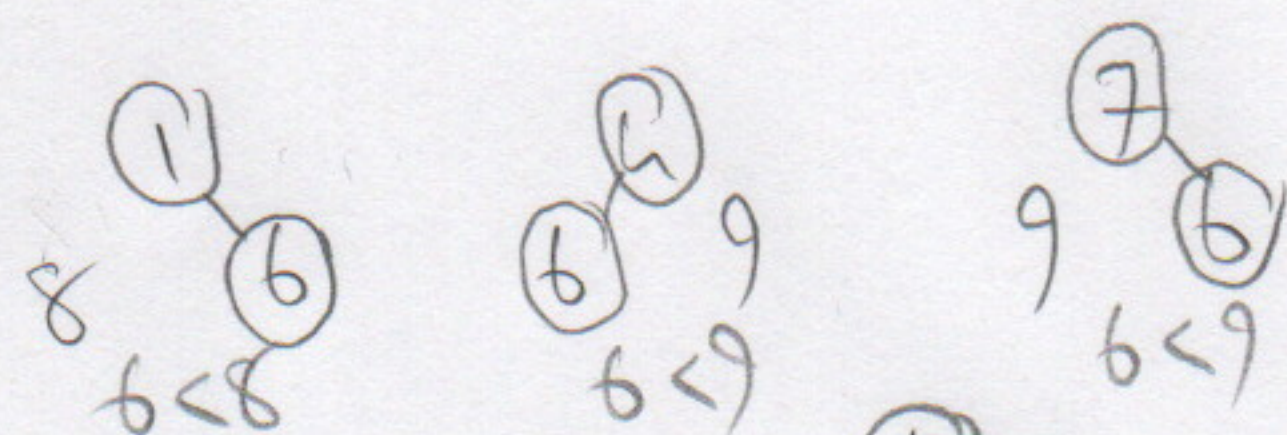
Then the minimized apex is;

$6 + 1 < 4 + 6$ $6 + 4 < 7 + 6$

$5 + 1 + 6 < 4 + 4 + 6$
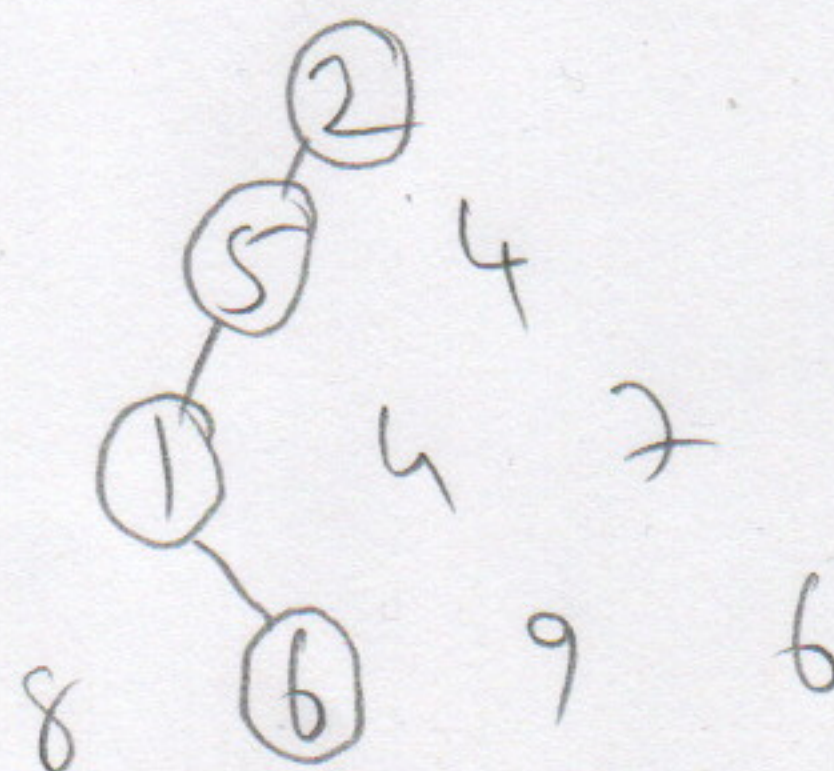
3) In the algorithm, I add each item to the bag dynamically. While adding one item to the bag, I check the current value for each weight interval, and I compare it with the value that the item added, and switch if it will get more value. And I keep doing these operation till the weight interval gets the weight limit, so that I can put more than one from the same item. Then I do the same for each given item. Finally, we can get the maximum value for the given weight limit.