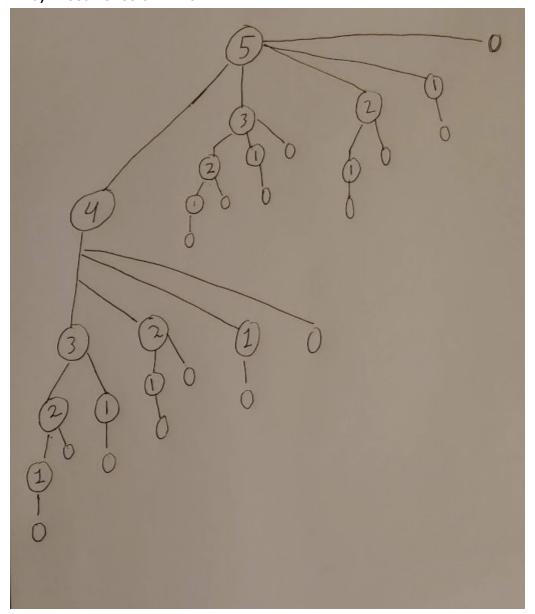
a) Recurrence on n = 5



b) 15-2

A greedy counterexample:

Suppose we had a rod of length 6 And p1 = 2, p2 = 15, p3 = 34, p4 = 36

A greedy solution would take rod p3 as it is the most dense, and follow it with rod p2 totaling to 36 + 15 = 51, however ideally it would have chosen

P3 twice which is 36 * 2 = 72, a solution which would only be arrived through a dynamic programming approach.