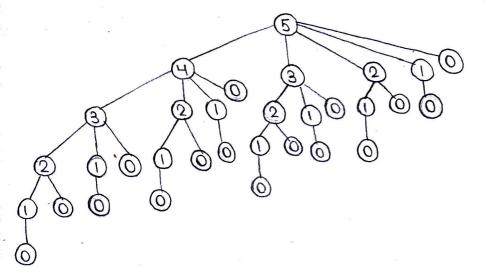
Mehak Channi

Rod Cutting

a) Recursion tree for a rod of length 5



b) Counter example for the "greedy" strategy

Density = P: /i

15150

of rod of

For a rod of length 4

length	1	2	3	4
buice	١	20	33	36
density	١	10	11	9

A cod of length 3 is first cut for a price of 33, which has the maximum density.

We are now left with a rod of length 1 with price of 1 but the total price of the rod is 34.

Therefore, the optimal solution is to cut the rod into two pieces of length 2, which will yield 40 dollars.