## Annesh raupped

Doriginal Revenue of the Rod coutting problems is ine. from the notes we know know to man (Potro-i)

there of is defined as price of the revenue.

Pseudo code for it

CUT-ROD(P,n)

il 0=0

return o

9-2-00

-for = 1 +0 n

Yetern q

But in problem given that each cut has a fixed cost i.e. C and the price p; Due to the extra cost, whenever each cut happend the cost will be added and revenue will be affected. Including the extra

cost into the revenue calculation.
The new cost rod-cutting le calculated as

 $r_n = max(max(p_i+r_{n-i}-C), p_n)$ 

 $\gamma_n = \max(P_1 + R_{n-1} - C) \cdot (P_2 + \sigma_{n-2} - C) \cdot (P_{n-1} + \sigma_{n-1} - C) \cdot P_n$ 

New pseudo code for above equation 1. CUT-ROD(Pinic) 2. let x [0.1...n] 3. 8[0]=0 for i=1 to n price = P(i) for j=1 to i=1 price = max(price (P[i]+r[i-i]-c)) rci) = price. 9. setyon ofn) In the 1st line we are passing cost along with Pand n In 2º line we one declaring the revenue En 3ª line assigning oto r[0] since it is 0 In the we are passing looping from 1 to max length i.e. 1. En 5th use & 6th use are taking man price for max length since we are not contains for the lost value in the we are calculating the man value of assigning its to revenue array in 85 line

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Example - Activity (3) statting Time (51) finishing Time (71) Duration In the above example two sets are compaitable. i.e. 5213 and 522,33 from the above sets the derived solution would be (i.e. activity of reast dur -ation from among the above) is (5313) But the according to the maximum-size set et i.e. 8\$200 [522,3] which is optimal solution m ST FT minimum value 3 5 9 aptenal solution