Name: Priya Gupta

Assignment: hw4 Part - 2

15. 1.2))

let take a rod of length n= 6

and prices, p1 = 0, p2 = 1, p3 = 5, p4 = 8, p5 = 2

according to the greedy aloo t will take the height part first which is the p4.

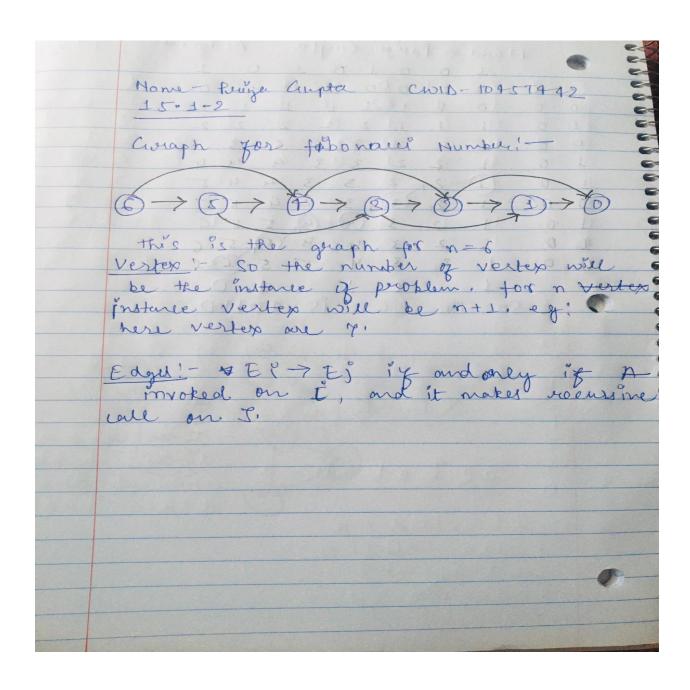
Now pi/i = 8/6 ratio. Now the left height is 6-4 = 2

So, for the left 2 greedy will take p2. So the total profit is 8+1=9

But the better solution is to take p3 + p3 = 6

And profit is 5+5 = 10

15 .1-5)) draw the subproblem graph for Fibonacci number.



15.4-1)) determine the LCS of <1,0,0,1,0,1,0,1> and <0,1,0,1,1,0,1,1,0>

	Name-Prinze Coupta Assignment-04 (Part 100101
	0 0 0 0 0 0 0 0
0	0 0 1 1 1 1 1 1
1	0 1 1 1 2 2 2 2 2
0	0 1 2 2 2 3 3 3 3
1	0 1 2 2 3 3 4 4 4
	0 0 2 2 2 3 3 4 4 5
0	0 1 2 3 3 4 4 5 5
	0 1 2 3 4 9 5 5 6
1	0 1 2 3 4 4 5 5 6
	0 2 4 5 5 656
0	1 10
	1 0 1 10/110.
(6)	So the CCS