SET-II

1Q) Given an array of integers, print the length of the largest increasing subsequence.

ex: I = [1, 2, 1, 5]

ans = 3

(1, 2, 5) no need to print sequence.

* I = [0, 8, 4, 12, 2, 10, 6, 14, 1, 9, 5, 13, 3, 11, 7, 15]

Ans - 6

(0, 2, 6, 9, 13, 15) or

(0, 4, 6, 9, 11, 15) or

(0, 4, 6, 9, 13, 15)

2Q) Given a set of meetings with their starting and end times given, allocate a meeting room with highest number of meetings using greedy method.

Ex:

M1	5	9	
M2	1	2	✓
	3	4	✓
	6	6	
	5	7	✓
	8	9	✓

4 meetings can be scheduled without overlapping.

O/P = 4

32) You are given 'n' which is the no: of steps to go up. You are able to take 1 or 2 steps each time. Determine the no: of ways you can reach your destination.

Ex: n = 3

O/P ⇒ 3

1 1 1

1 2

2 1

n = 4

o/p = 5 .

(1 1 1 1)

(2 1 1)

(1 2 1

(1 1 2)

(2 2)