## CSE 221 FALL 2017 LAB-01

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sec : 02,

## 2) N-th Fibonacci Number:

# Implementation -1

It is a recurrisive algorithm.

$$2^{0}+2^{1}+2^{2}+2^{3$$

# Implementation -2

": Q(n)

we can see that implementation 1 in time complexity with  $0(2^{n})$  and implementation 2 is with o(n). So, implementation 2 is better than implementation to

## 1) Matrix Multiplication:

Here we have 3 nested loops and each loop itercate from 0 to n-1, that means in times.

.: time complexity: o(n3)