24 March 2022 18:49

## "Those who can't remember their past, are condemned to repeat it

dp lec 1 L1

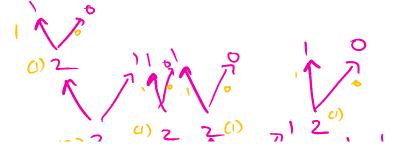


## Q1 Nth fibonacci Number

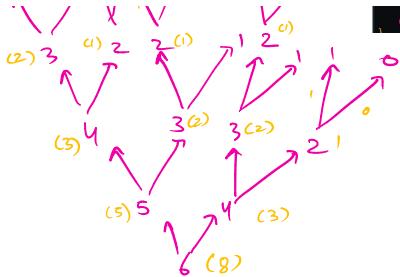
Using Recursion

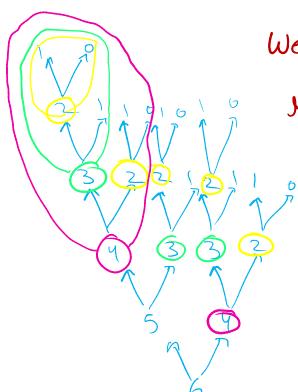
② faith 
$$f(n-1) \rightarrow (N-1)^{th}$$
 fibonacci Number  $f(n-2) \rightarrow (N-2)^{th}$  fibonacci Number

3 Meeting Expectation from faith
$$f(n) = f(n-1) + f(n-2)$$



```
public static int fib(int n) {
    if(n == 0 || n == 1) {
        return n;
    }
    return fib(n-1) + fib(n-2);
}
```





We have a lot of superifive calls in this recursion tree.