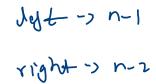
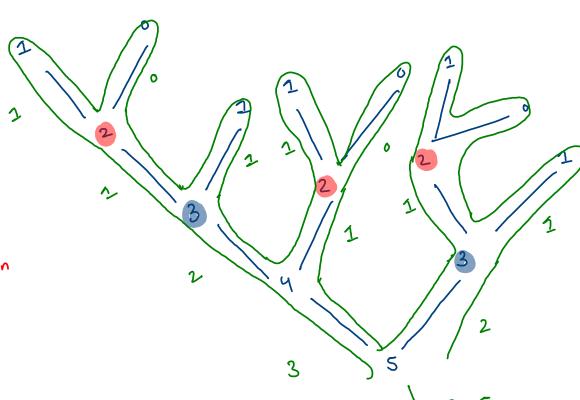
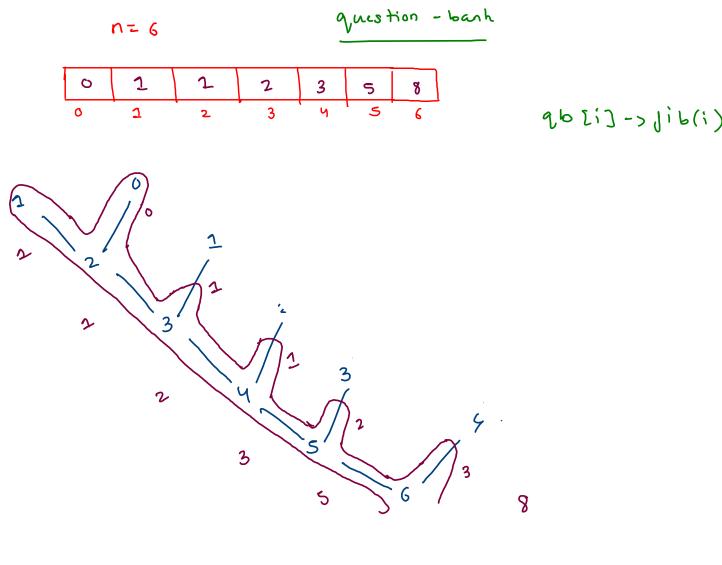
```
public static int fib(int n) {
    if(n == 0 || n == 1) {
        | return n;
    }
    int fibn = fib(n-1) + fib(n-2);
    return fibn;
}
```

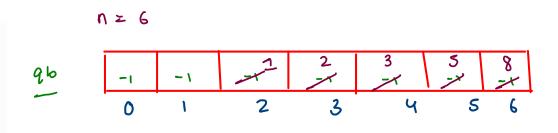


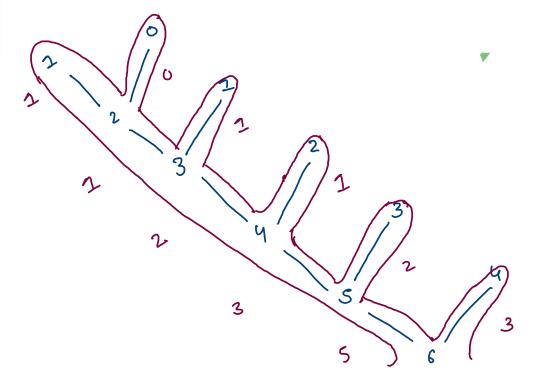






```
public static int fib(int n,int[]qb) {
    if(n == 0 || n == 1) {
        | return n;
    }
    if(qb[n] != -1) {
        | return qb[n];
    }
    int fibn = fib(n-1,qb) + fib(n-2,qb);
    qb[n] = fibn;
    return fibn;
}
```





monoisation

11. tabulation

(ii) create storage

(iii) assign meaning

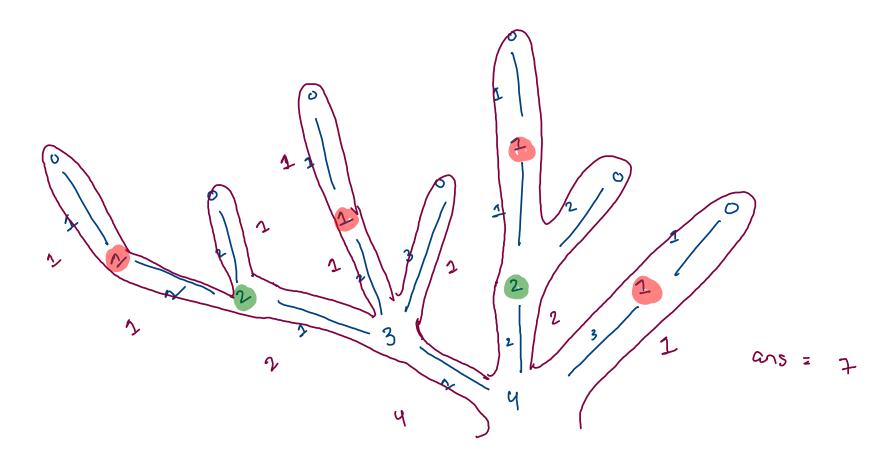
(iii) travel and solve

from smallest problem

to dayest

dp

de [1] -> fib(1)



```
public static int climbStairs_mem(int n,int[]qb) {
    if(n == 0) {
        return 1;
    }

    if(qb[n] != -1) {
        return qb[n];
    }

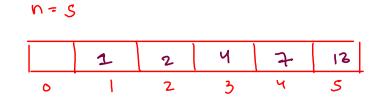
    int ways = 0;

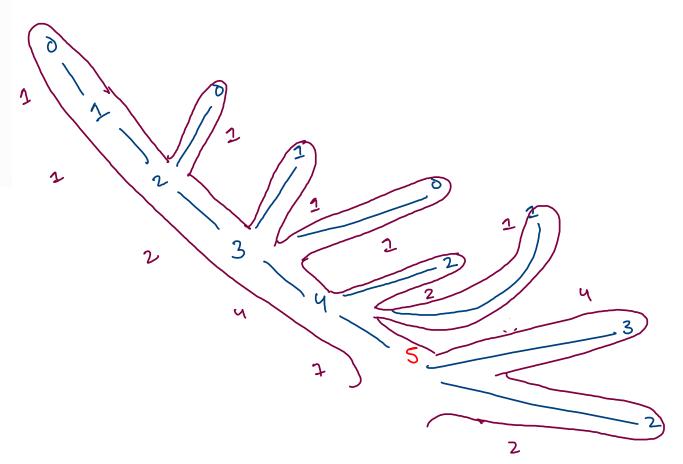
    if(n-1 >= 0) {
        ways += climbStairs_mem(n-1,qb);
    }

    if(n-2 >= 0) {
        ways += climbStairs_mem(n-2,qb);
    }

    if(n-3 >= 0) {
        ways += climbStairs_mem(n-3,qb);
    }

    qb[n] = ways;
    return ways;
```





tabulations (i) create storage

(ii) assign meaning to sturage

N= 5

(iii) trand at solve

dp[i]z dp[i-1]+ dp[i-2] + dp[i-3]. de (i) -) i to o