Recursion Concepts & Qns

Video 2

"मैं, DSA की शपथ लेता हूँ कि मैं जो पढ़ाऊंगा बहोत अच्छे से पढ़ाऊंगा।"

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Motivation (भाषण)

⊙तुम्हे पता होना चाहिए की अगर तुम एक बार ठान लोगे, तो तुम्हे कोई रोक नही पाएगा।

⊙ Winner may not be the one who is talented but definitely the one who is hard working.

Recursion Leap Of Faith

Call recursion & have faith on it...

(•) It will do your work.

(•) Assume that the recursion you called will do the job.

Example :-

⊙ Factorial of n.

$n = 5$

$5 * 4 * 3 * 2 * 1$

$5 * 4!$

$n = 0! = 1$

$n = 1! = 1$

```
int factorial (int n) {
    if( n <= 1) {          // Base Case
        return 1;
    }
    return 5 * factorial(n-1);
}
```

(4 * 3 * 2 * 1)

(*) Print a string in reverse. Str = "abc"

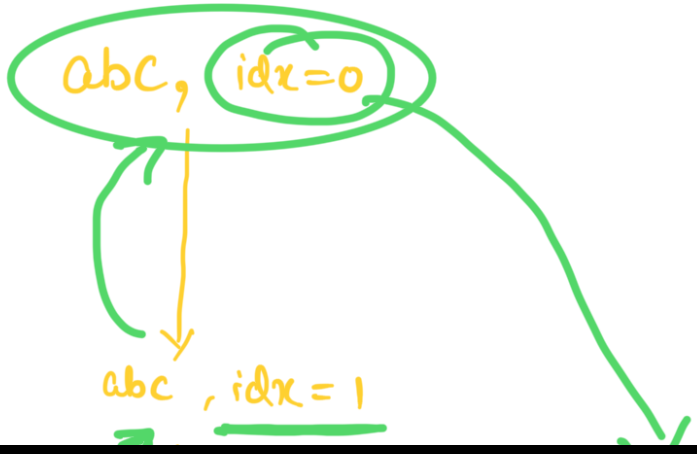
"cba"

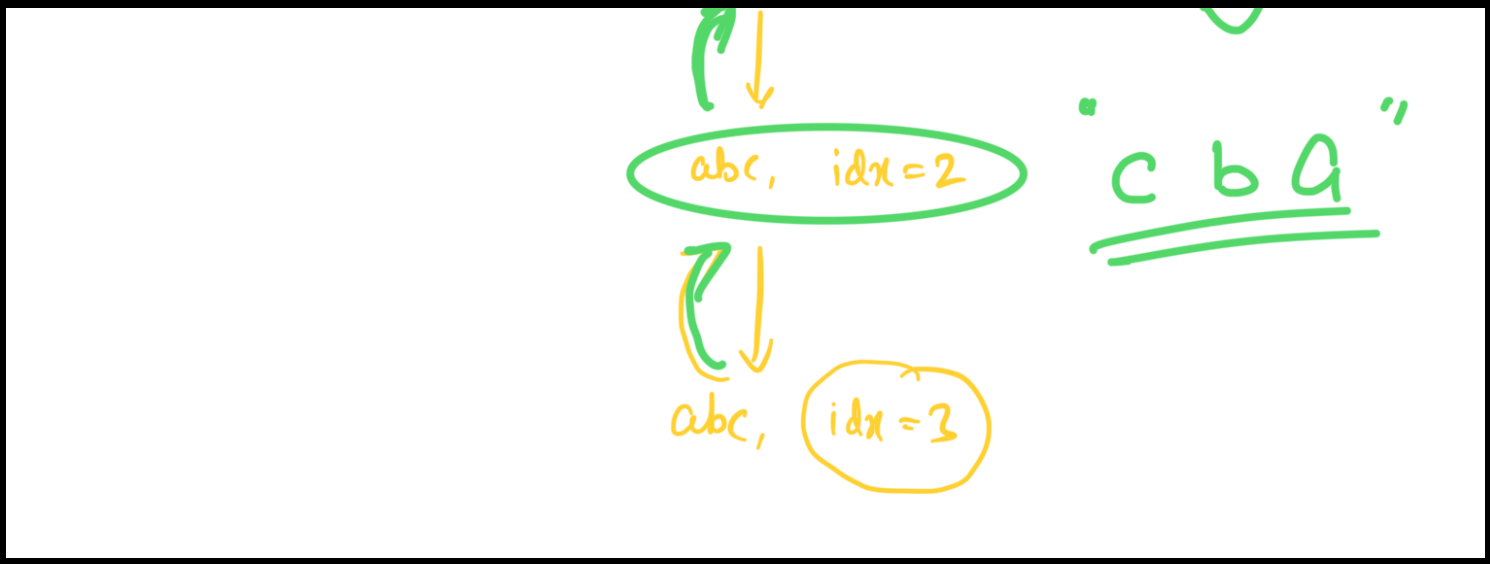
```
void print(string str) {
    // code here
    Solve(str, 0);
}
```


```
void Solve(str, idx) {
    Base // if(idx >= str.length()) {
             return;
         }

    Solve(str, idx+1);

    cout << str[idx] << end;
}
```




abc, idx=2
"cba"
abc, idx=3