Class 17

Sunday, December 20, 2020 10:08 PM

result = 1;

$n!$ $\quad$ $i = 1 \ldots n$

result = result x i

$n! = n \times (n-1)!$

$f(n) = n \times f(n-1)$

1// $n!$

getF(5)

$\rightarrow 5 \times$ getF(4)

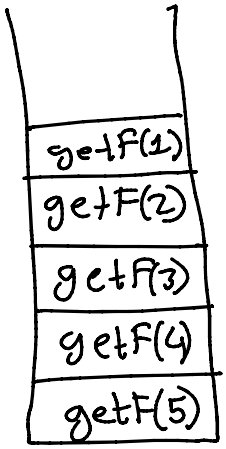
$\rightarrow 4 \times$ getF(3)

$\rightarrow 3 \times$ getF(2)

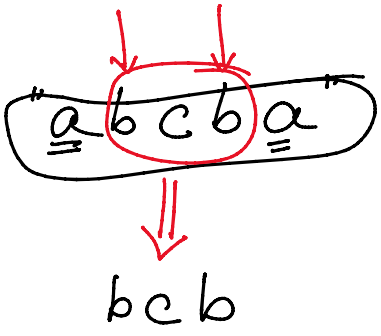
$2 \times$ getF(1)

$\downarrow$

1



2//



f(0, 4)

$\downarrow$

f(1, 3)

f(L, R)

$\uparrow \uparrow$

f(0, 4)

f(0,4) → f(1,3) → f(2,2)

L,R

f(L,R) $\quad$ a b x y x y x y x b a

```
f(L,R)
{
    if (L>=R) return true;
    if(s[L]==s[R]) return f(L+1,R-1);
    return false;
}
```

a b x y x y x y x b a

a a

$f(0,1) \rightarrow f(1,0)$

a * * * * * z

$X_0 = 423$

$X_1 = 3$

$X_2 = 1$

$X_3 = 1$

$X_2 = X_3$

$X_{i-1} = X_i$

$X_0 = 42$

$X_1 = 2$

$X_2 = 1$

$X_3 = 1$

1000000

10 → 1000000 → 7 → 1 → 1

$2^x \cdot 3^y \cdot 5^z$

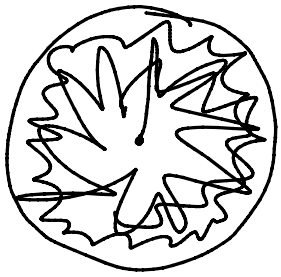
$2^1 \cdot 3^5 \cdot 5^3$

100 m m

64 ~ 1T 19

$2^{100} \cdot 3^{m} \cdot 5^{m}$

$2^{64} \approx 10^{19}$



→ 1500th

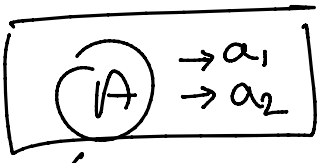
```
int x = 1234;
double y;
y = x;
```

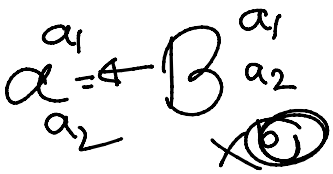
1234

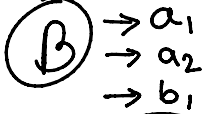
1234.00

```
double y = 123.45
int x;
x = (int) y;
```

int x = (int) 123.44 = 123







A a = new B()

B()