

1) Print Name N times.

```
void print_name(n) {
```

```
    if (n >= 0) {
```

```
        return  
        print("Swamini")
```

```
        return print_name(n-1);
```

```
}
```

```
main() {
```

```
    print_name(3);
```

```
}
```

Recursion tree.

```
print_name(3);  
└─ print_name(2);  
    └─ print_name(1);  
        └─ print_name(0);
```

print_name(3)

2) if (3 >= 0) ~~X~~ False

3) print → "Swamini"

S
t
a
c

4) $pn^m = \text{rev}(3-1);$ } k
↓

print_name(2)

2) if (2 >= 0) X False

3) print → "Swarna"

4) $pn^m = \text{rev}(2-1);$

s
t
a
c
k
2

print_name(1)

2) if (1 >= 0) X False

3) print → "Swarna"

4) $pn^m = \text{rev}(3-1);$

s
t
a
c
k
3

TC → $O(N)$
SC → $O(N)$

