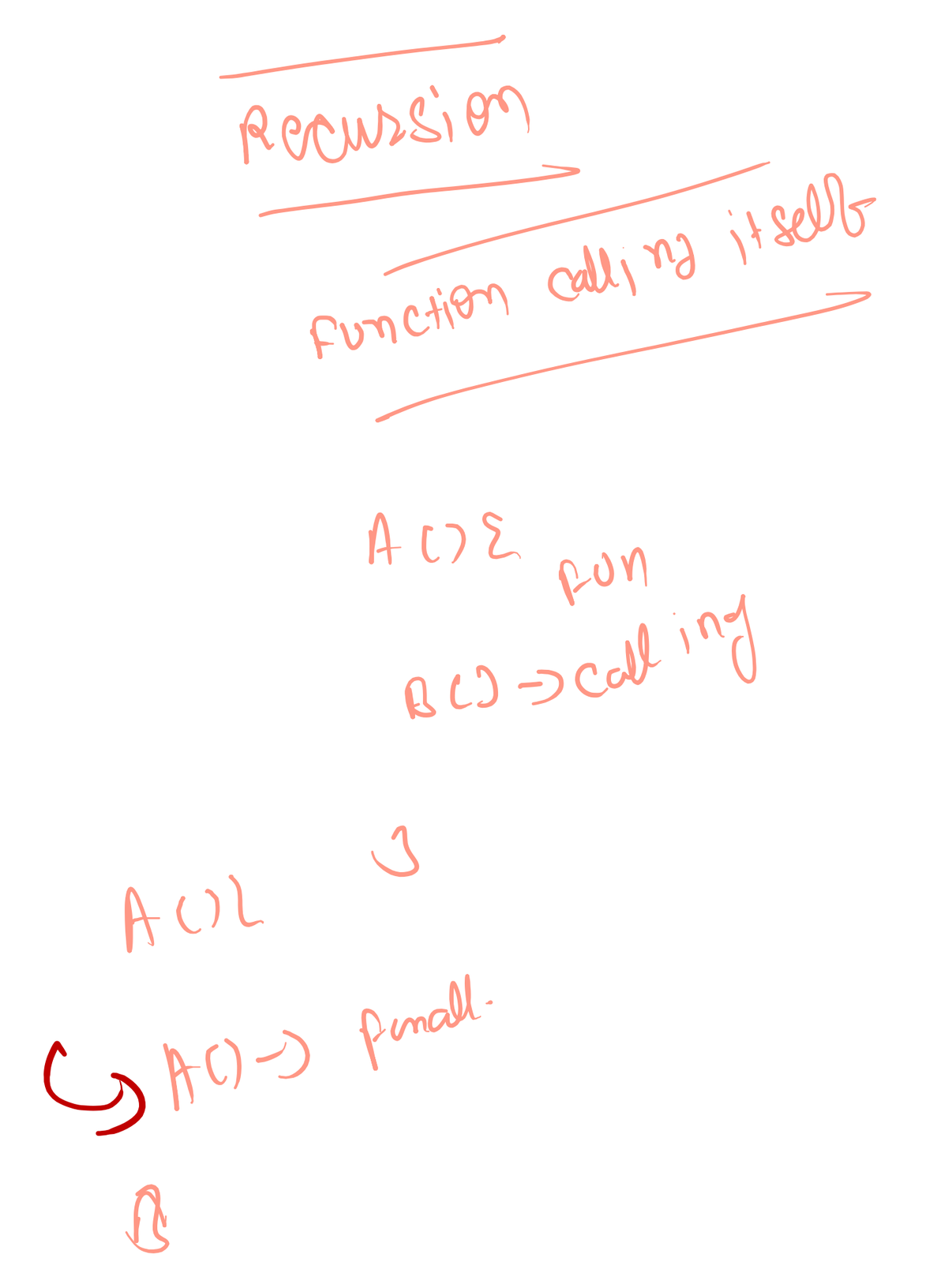
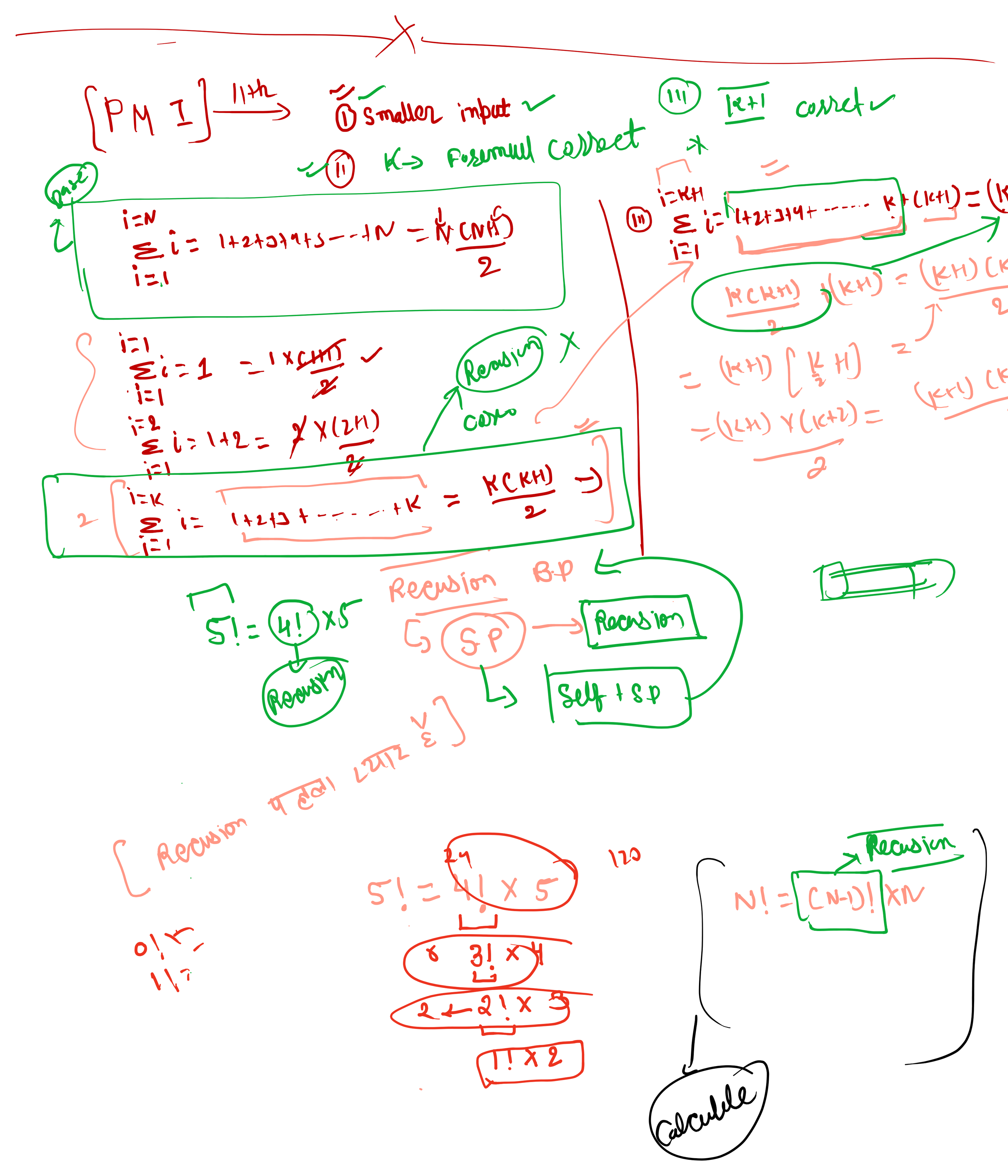
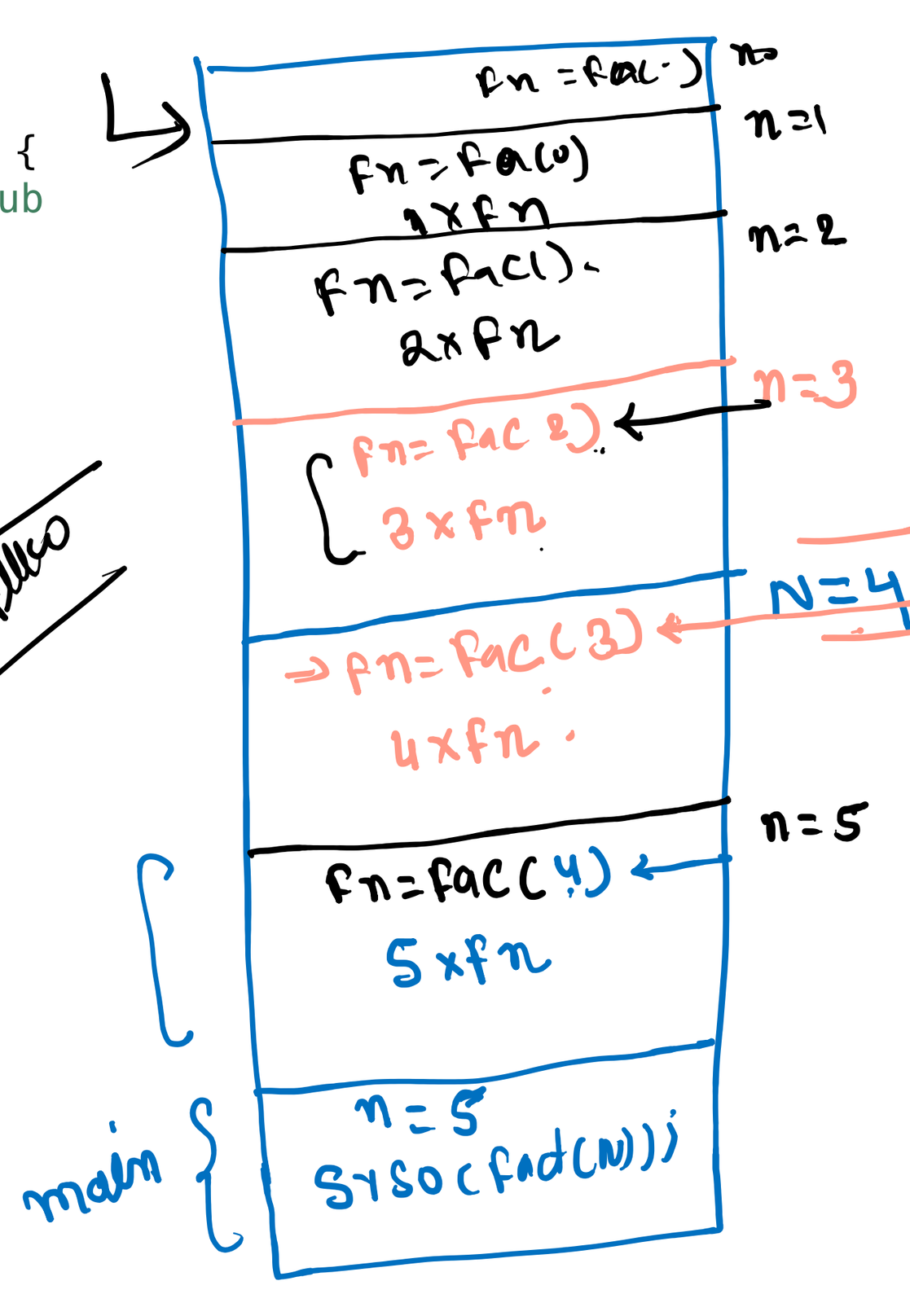
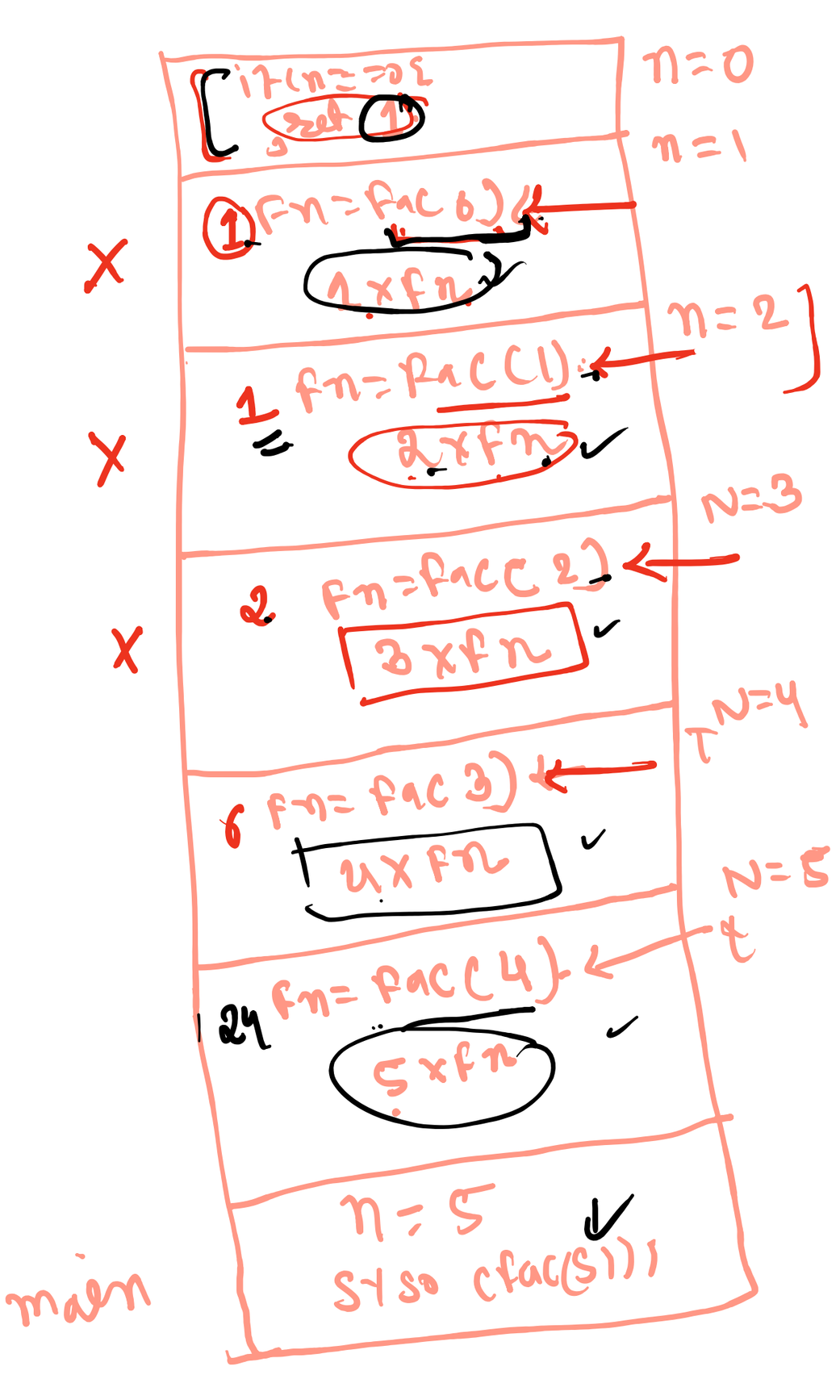


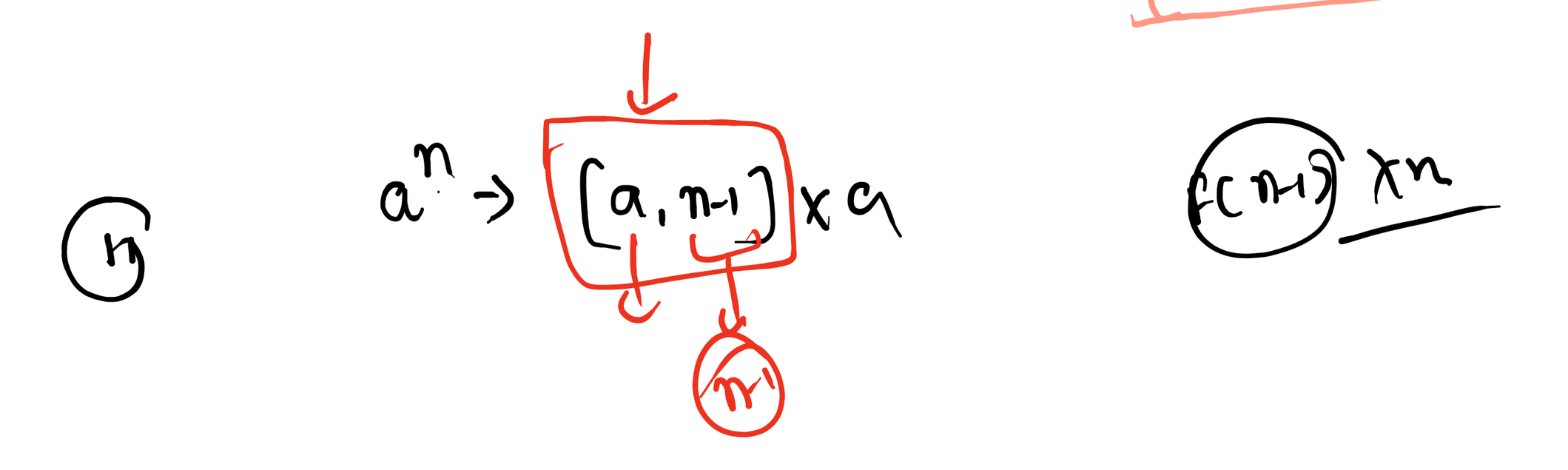


```java
public static void main(String[] args) {
        // TODOAuto-generated method stub
        intn= 5;
        System.out.println(fac(n));

    }

    public static int fac(int n) {

        intfn= fac(n- 1);// sp
        return n * fn;// self work + sp

    }
```

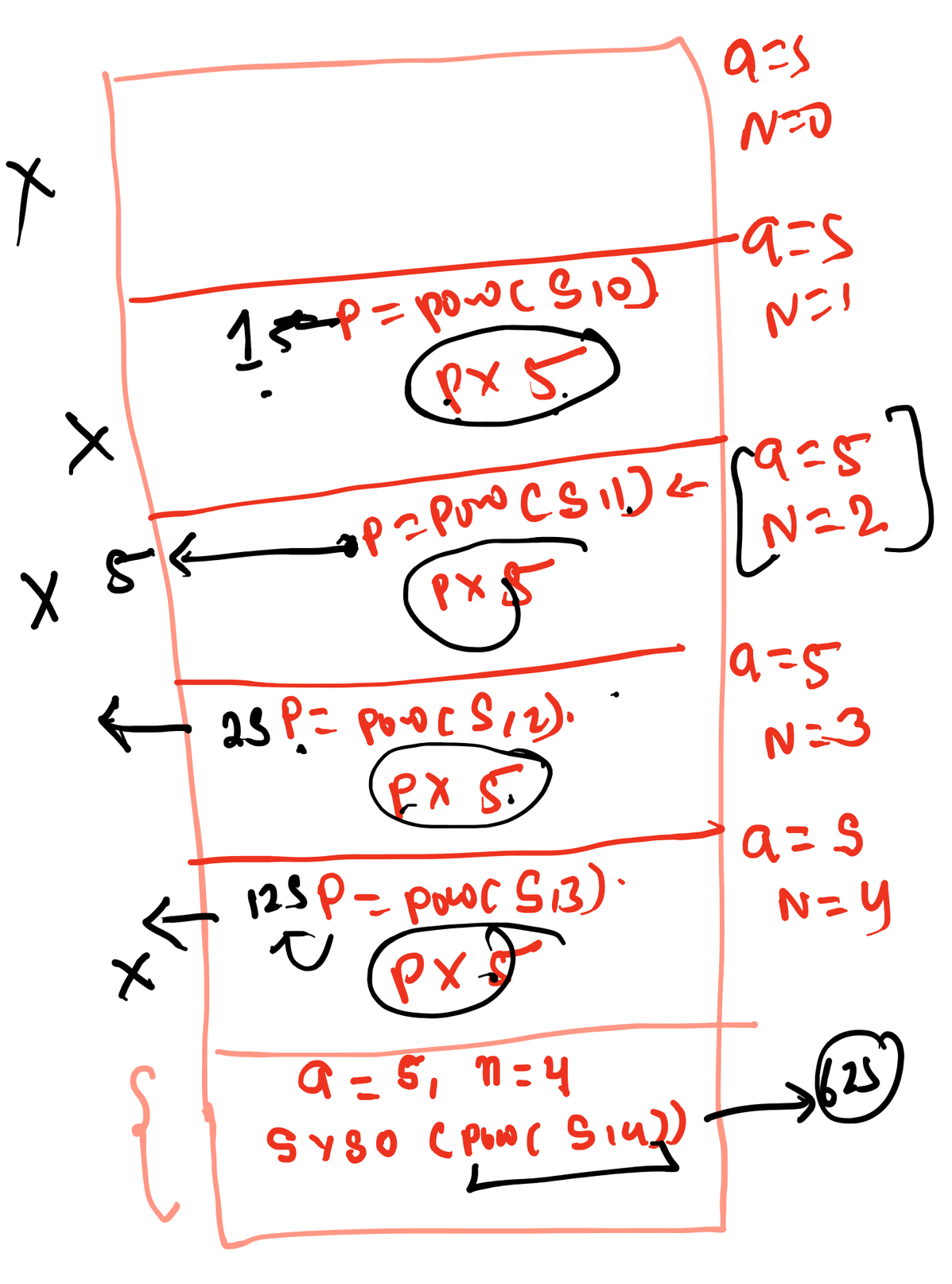


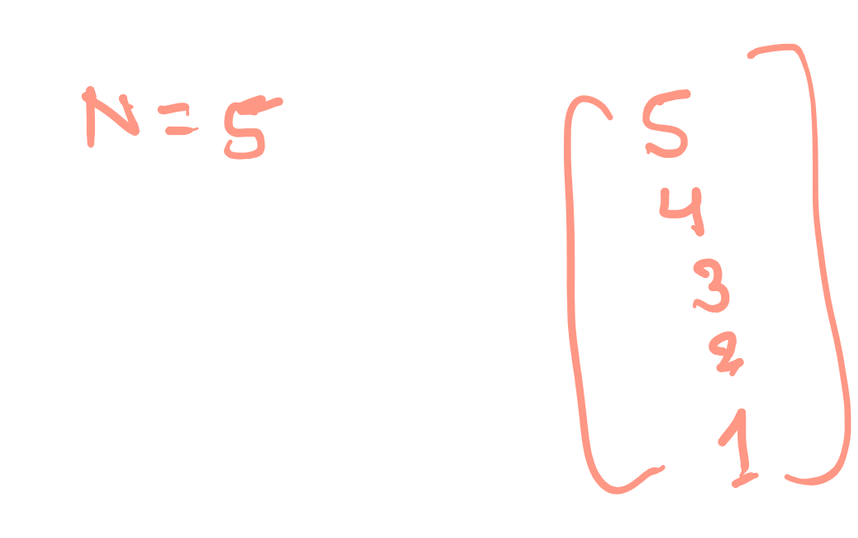
```java
public static void main(String[] args) {
    // TODOAuto-generated method stub
    intn= 5;
    System.out.println(fac(n));

}

public static int fac(int n) {
    // base case
    if(n== 0) {
        return1;
    }

    intfn= fac(n- 1);// sp
    return n * fn;// self work + sp

}
```



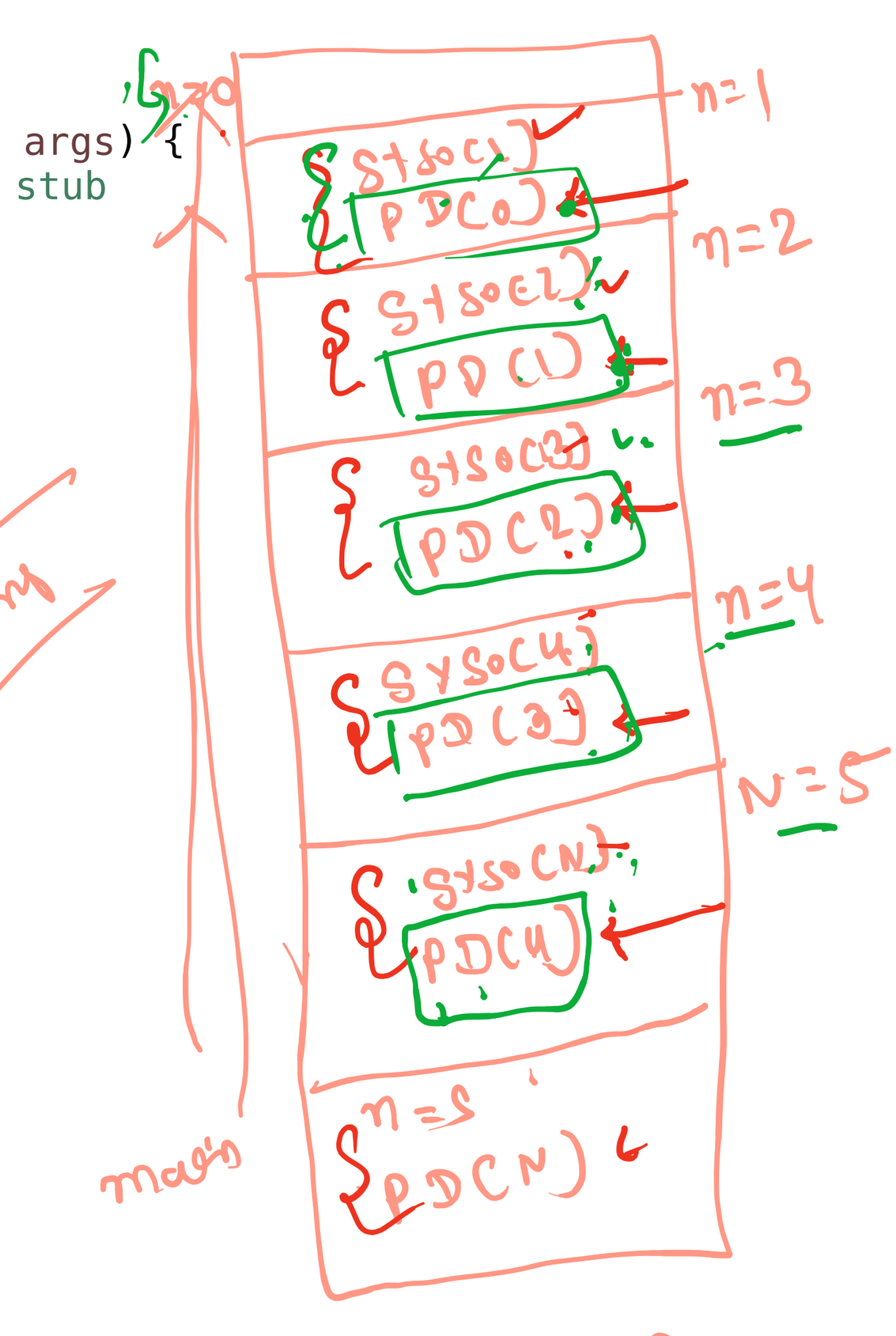


```java
public static void main(String[] args) {
        // TODOAuto-generated method stub
        inta= 5;
        intn= 4;
        System.out.println(pow(a, n));

    }

    public static int pow(int a, int n) {
        if(n== 0) {
            return1;
        }
        intp= pow(a, n- 1);
        returnp* a;

    }
```

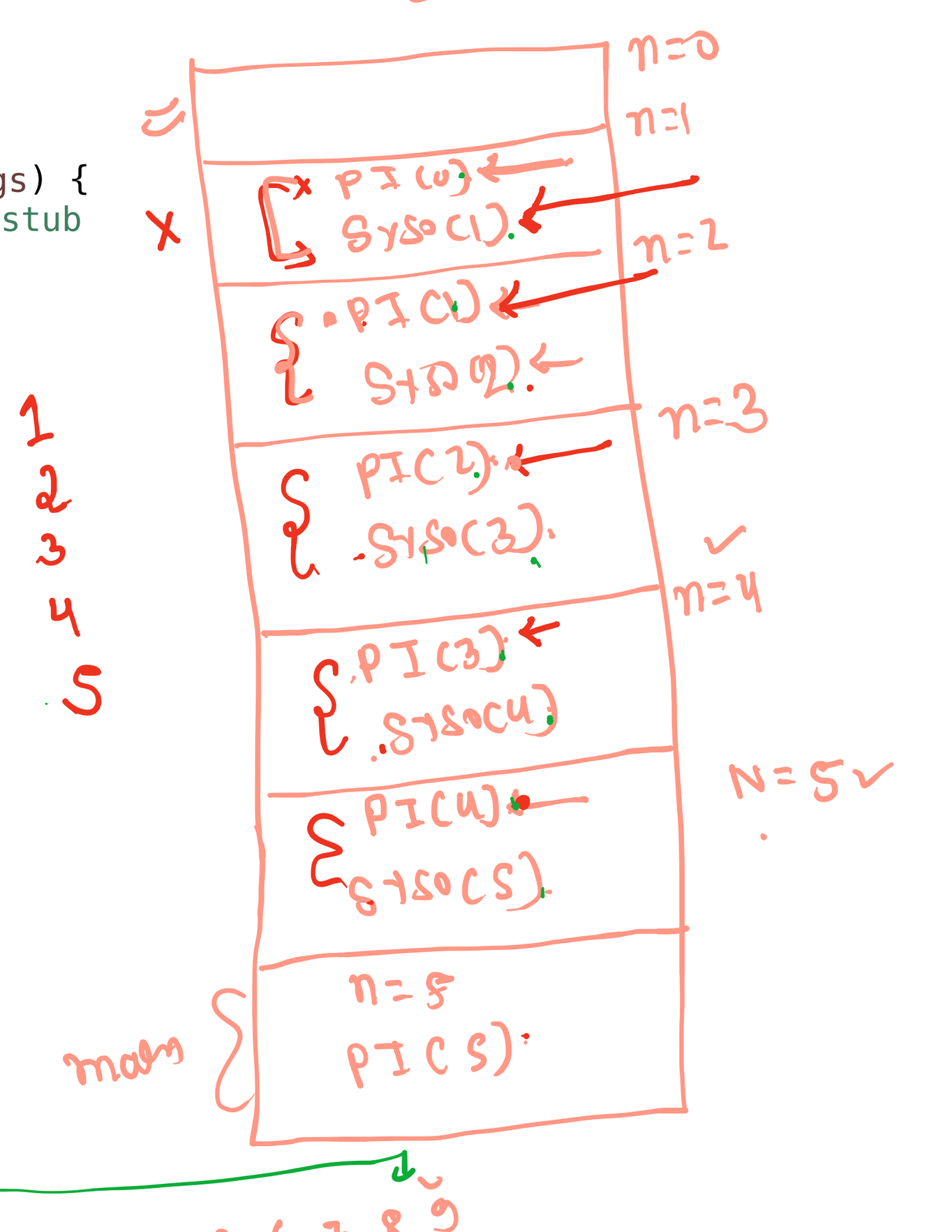


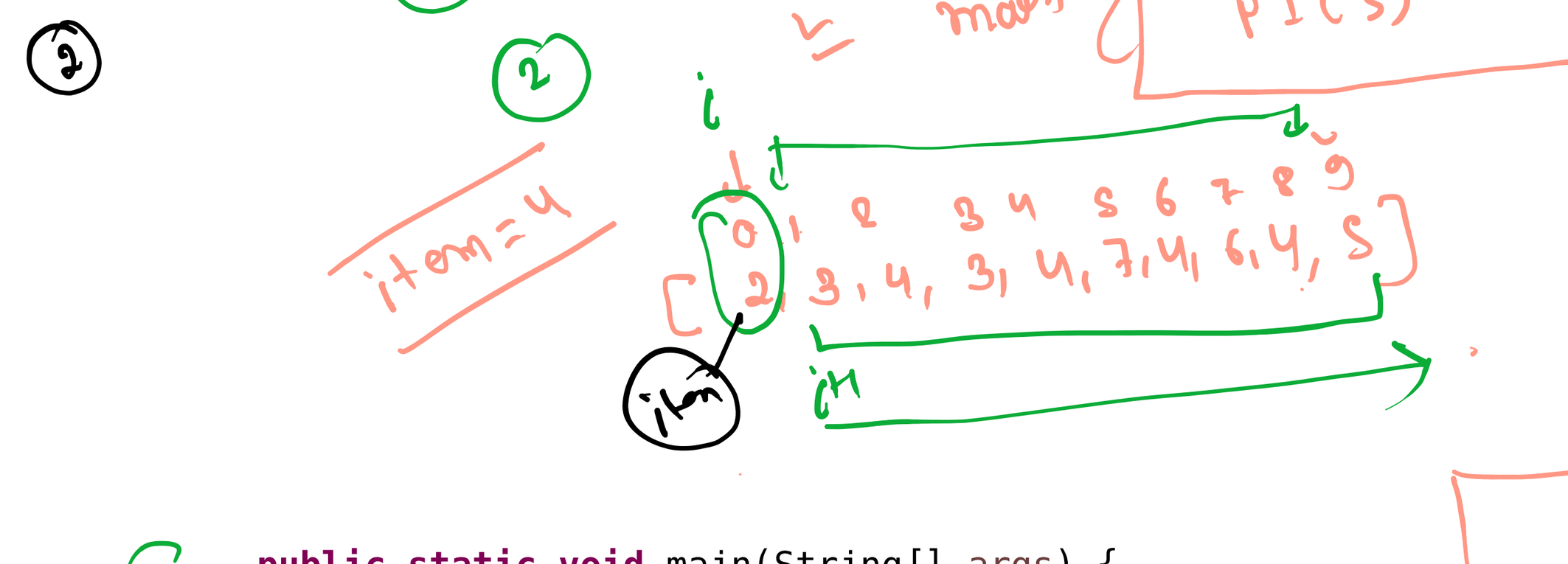


```java
public static void main(String[] args) {
        // TODOAuto-generated method stub
        intn= 5;
        PD(n);

    }

    public static void PD(int n) {
        if(n== 0) {
            return;
        }
        System.out.println(n);
        PD(n- 1);
    }

}
```

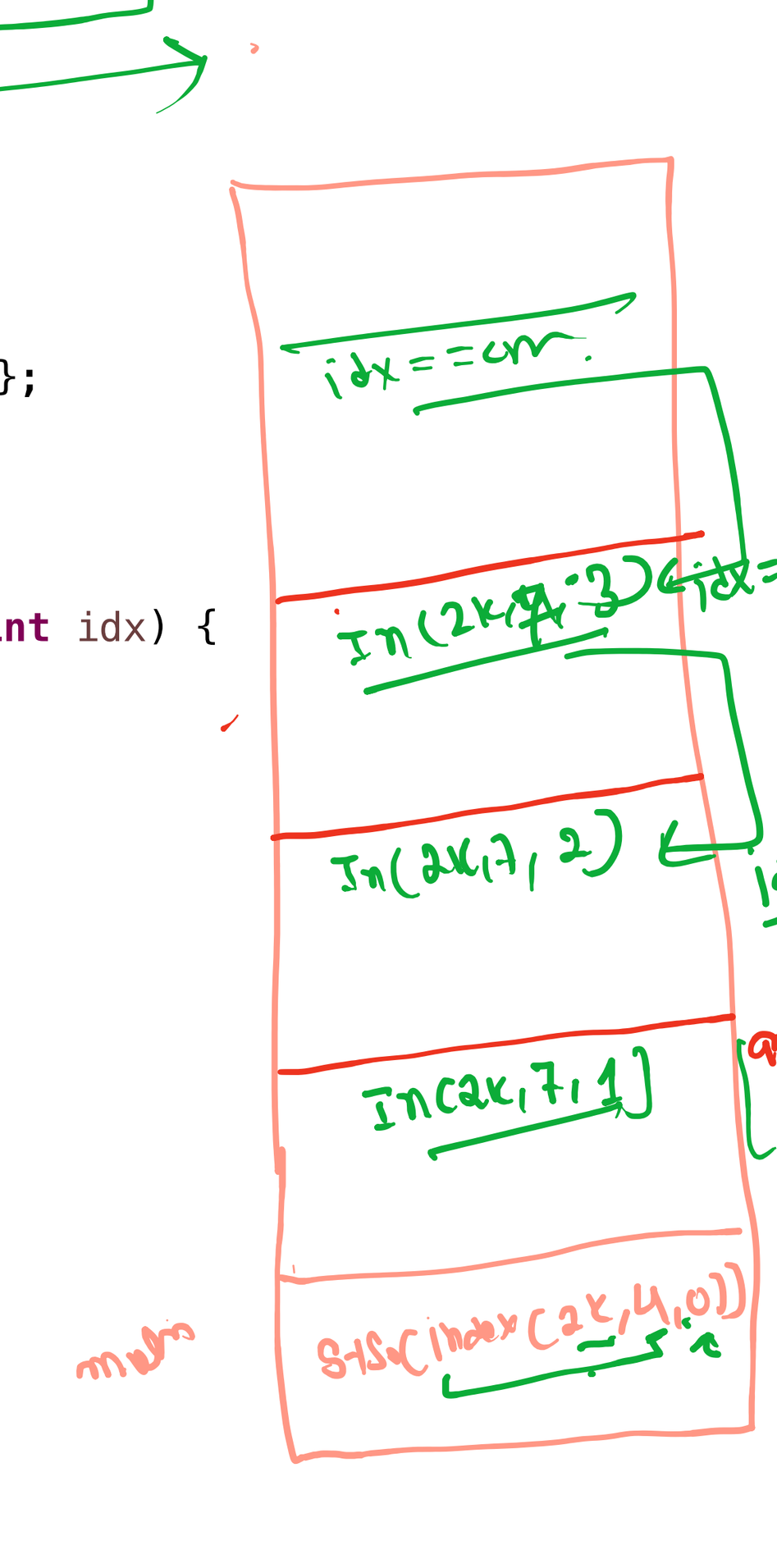


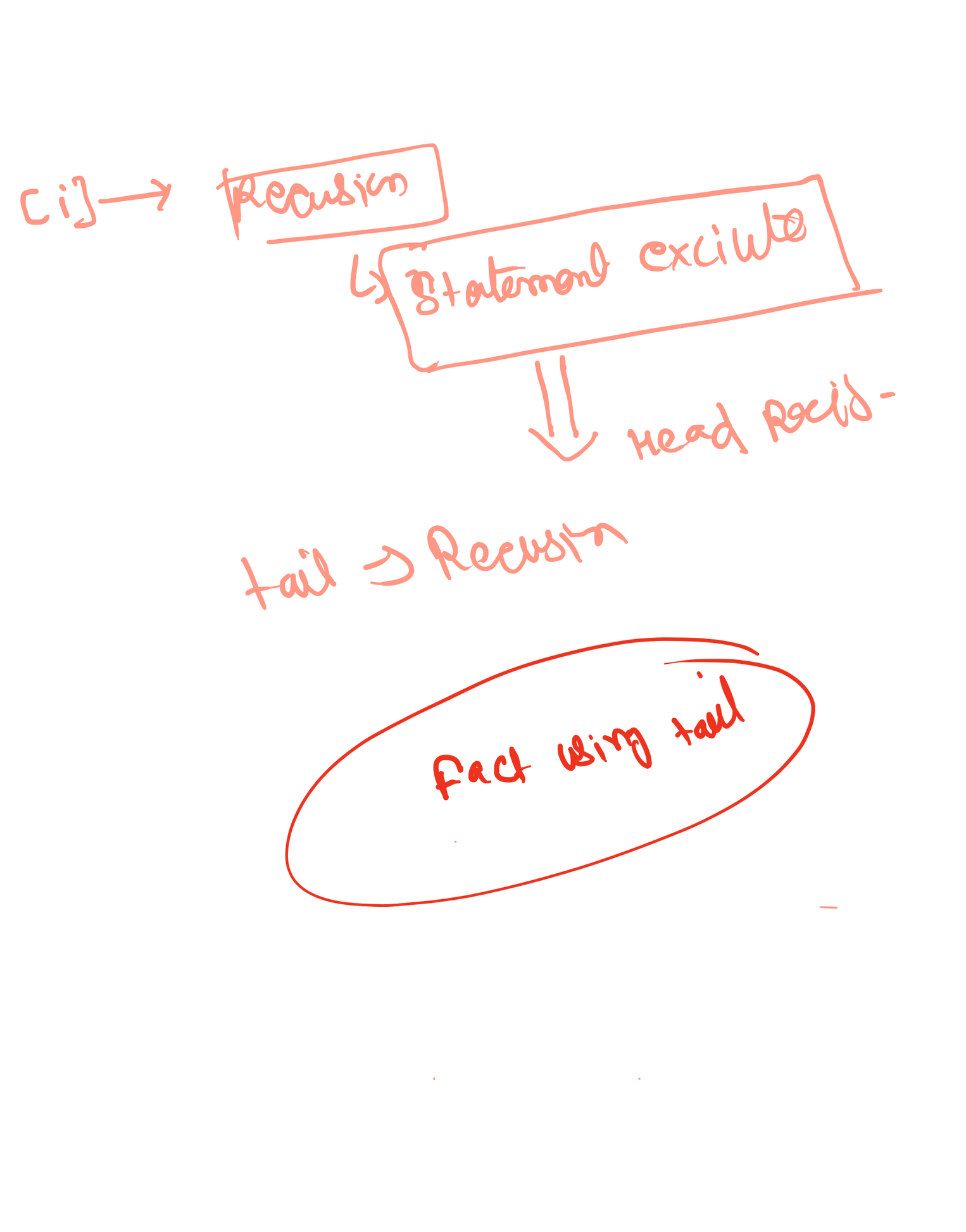
```java
public class Print_Inc {

    publicstaticvoidmain(String[] args) {
        // TODOAuto-generated method stub
        intn= 5;
        PI(n);

    }

    public static void PI(int n) {
        if(n== 0) {
            return;
        }

        PI(n- 1);
        System.out.println(n);
    return;
    }

}
```





```java
public static void main(String[] args) {
        // TODOAuto-generated method stub
        int[] arr= { 1, 2, 5, 4, 3, 4, 7, 4, 3, 6 };
        intitem= 4;
        System.out.println(Index(arr, item, 0));

    }

    public static int Index(int[] arr, int item, int idx) {

        if(arr[idx] == item) {
            return idx;
        }
        returnIndex(arr, item, idx+ 1);

    }
```





```java
public static void main(String[] args) {
        // TODOAuto-generated method stub
        intn= 5;
        System.out.println(fac(n, 1));

    }

    public static int fac(int n, int ans) {

        returnfac(n- 1, ans* n);

    }

}
```