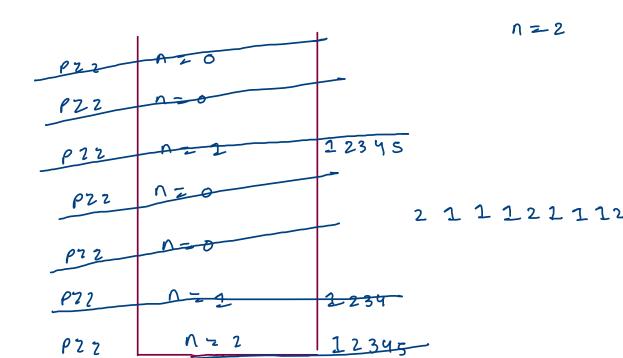
Jaith

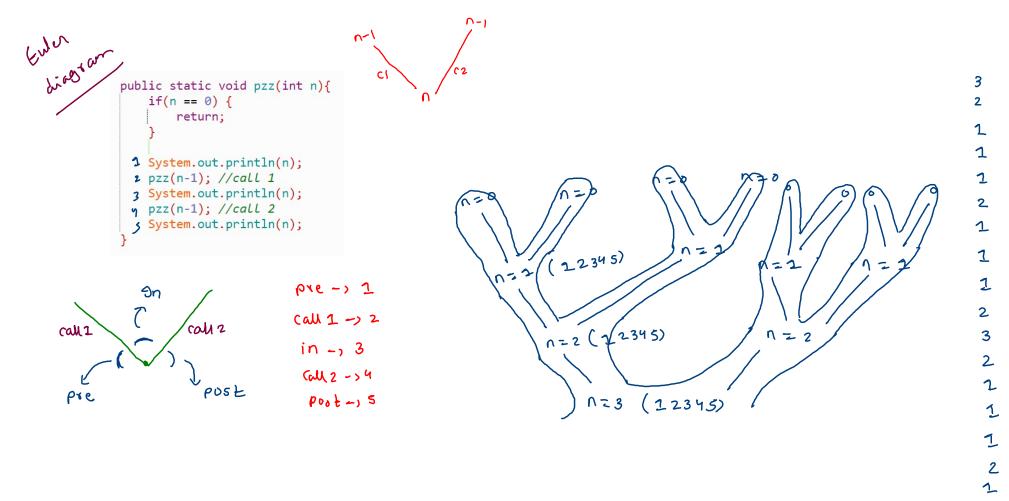
Input2 -> 3 Output3 -> 3 2 1 1 1 2 1 1 1 2 3 2 1 1 1 2 1 1 1 2 3

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

2 System.out.println(n);
2 pzz(n-1); //call 1
3 System.out.println(n);
4 pzz(n-1); //call 2
5 System.out.println(n);
}
```

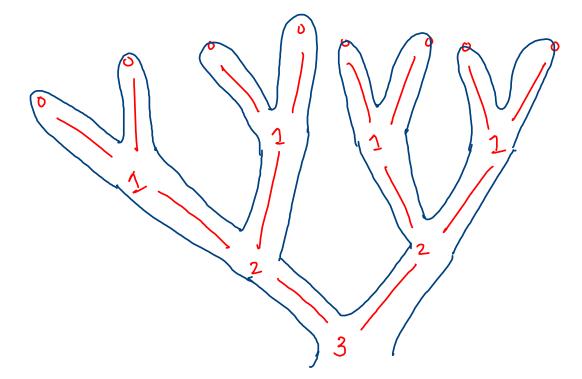




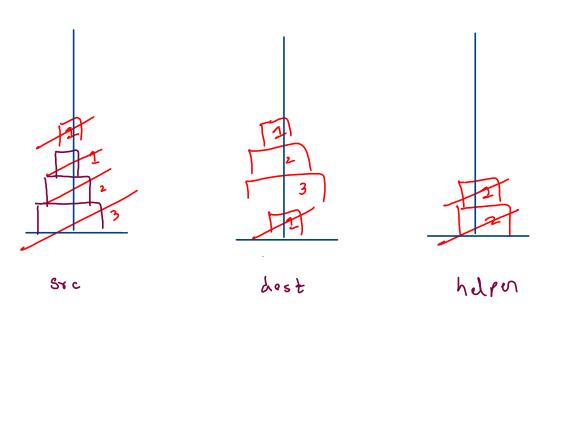


```
public static void pzz(int n){
    if(n == 0) {
        return;
    }

    System.out.println(n);
    pzz(n-1); //call 1
    System.out.println(n);
    pzz(n-1); //call 2
    System.out.println(n);
}
```







move 2 from src to dest

move 2 from src to happen

move I from dest to happen

move 3 from src to dest

move 2 from helper to sec move 2 from helper to dest move 1 from Src to best

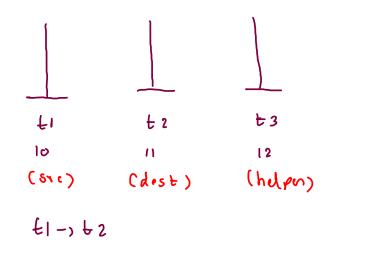
2 [10 -> 11] disk no. SY C dost hdron (i) faith -> transfor 10 11 12 (n-1) dishs from t 3 41 F 2 sxc to helpen. (ii) sell work-, move nin problem-, transju n diste from dish from syc to dest src to dest (iii) faith -> transfer (n-1) dishs from holper Remio to diest. problem or -, transjer some dishs from sub problem any source to any dest

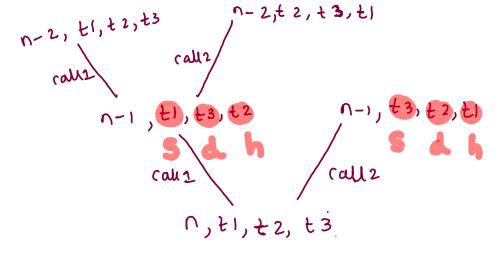
```
public static void toh(int n, int t1id, int t2id, int t3id){
    if(n == 0) {
        return;
    }

    //move n-1 disks from t1->t3
    toh(n-1,t1id,t3id,t2id);

    //move nth disk from t1->t2
    System.out.println(n + "[" + t1id +" -> " + t2id + "]");

    //move n-1 disks from t3->t2
    toh(n-1,t3id,t2id,t1id);
```

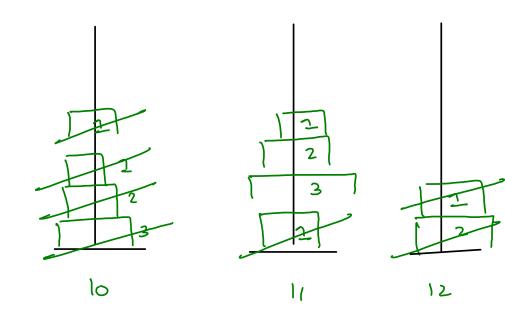




```
public static void toh(int n, int t1id, int t2id, int t3id){
   if(n == 0) {
      return;
   //move n-1 disks from t1->t3
   toh(n-1,t1id,t3id,t2id);
   //move nth disk from t1->t2
   System.out.println(n + "[" + t1id +" -> " + t2id + "]");
   //move n-1 disks from t3->t2
   toh(n-1,t3id,t2id,t1id);
                                                                                 1,11,12/10
                                                               10/11/12
                           1 [10-117
                            2 [10-)12]
                                                                          2, 10, 12,11
                            1 [11-1127
                             3 [10 -> 11]
                n-1, t3, t2, t1
                                                                                             3, 10,11,12
n-1, tl, t3, t2
                             1 [12-,10]
                              2 [12-,117
      n, t1, t2, t3
                               1 [10-,117
```

1,10,11/,12

ر 12 ر 2 ر 2 ر 2



```
public static void toh(int n, int t1id, int t2id, int t3id){
   if(n == 0) {
      return;
   //move n-1 disks from t1->t3
   toh(n-1,t1id,t3id,t2id);
   //move nth disk from t1->t2
   System.out.println(n + "[" + t1id +" -> " + t2id + "]");
   //move n-1 disks from t3->t2
   toh(n-1, t3id, t2id, t1id);
                           1 [10->12]
                           2 [10-11]
                 3 .
                           1 [12-,117
                               [10-112]
                 ('n,
                (S).
                                [11-,105
                            2 [11-)127
                                  [10-> 12]
                                  [10-01]
                  (8)
```

