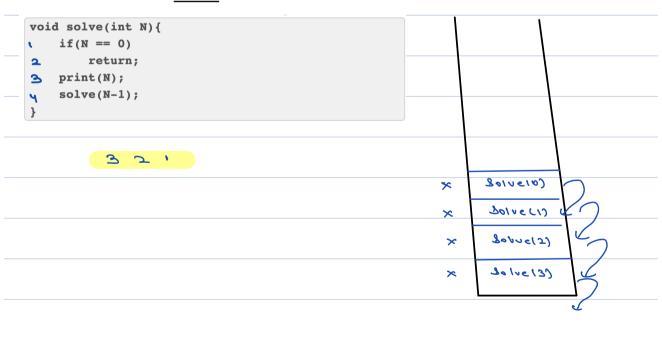


deriz e:

2.0



Ouiz a

void solve(int N){

i if (N == 0)

return;

print(N);

solve(N-1);

}

bure(-6)

Jolve(-5)

Jolve(-2)

< Tower of hance ->

There are n disks placed on tower A of different sizes.

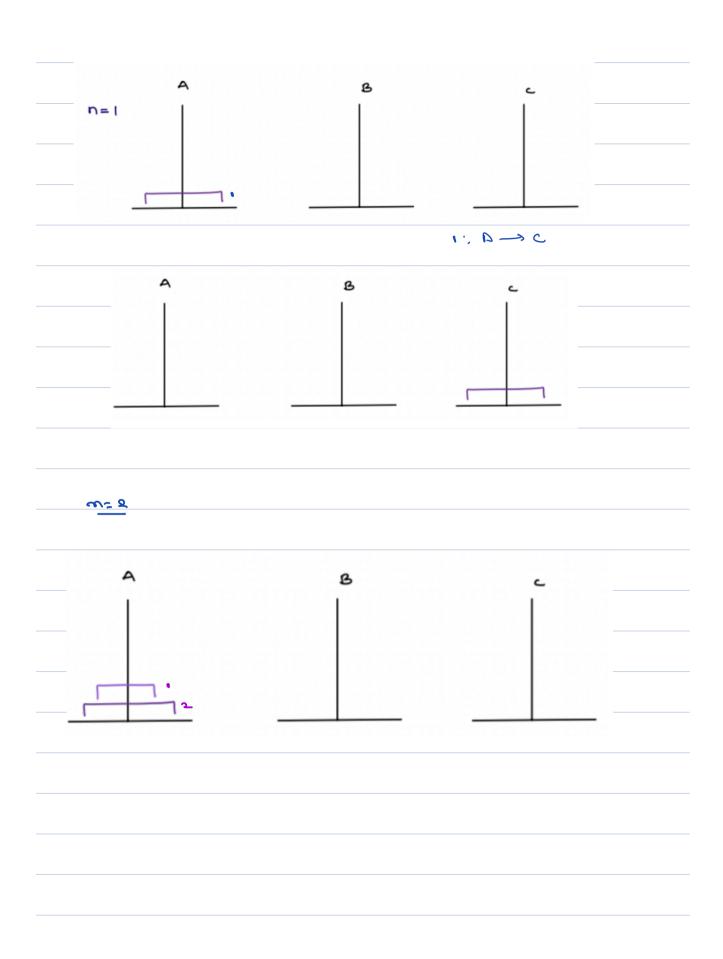
Goal

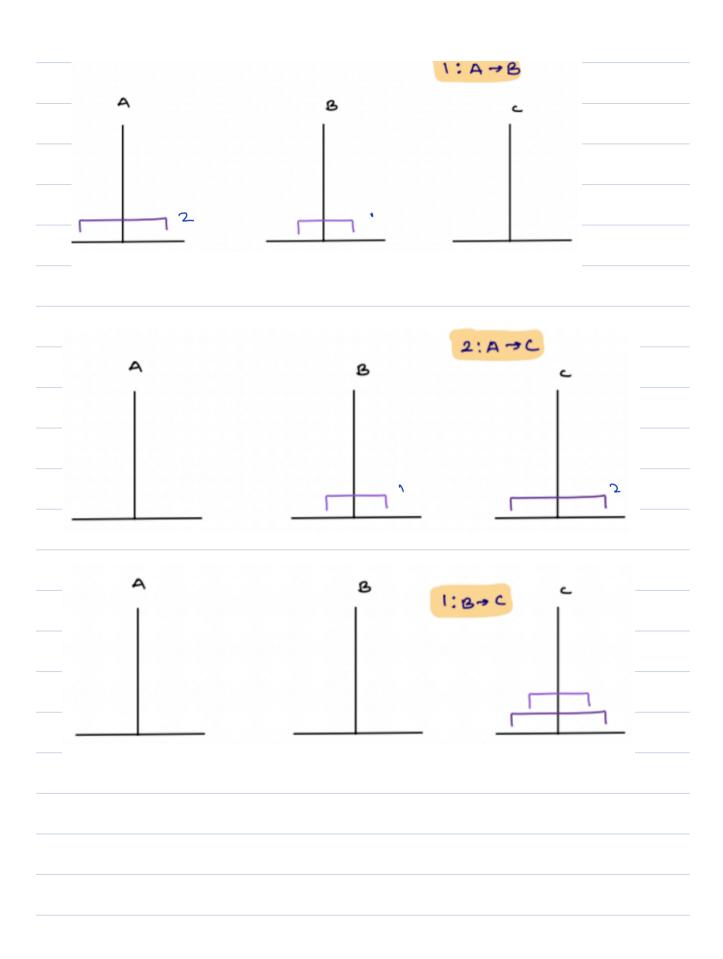
Move all disks from tower A to C using tower B if needed.

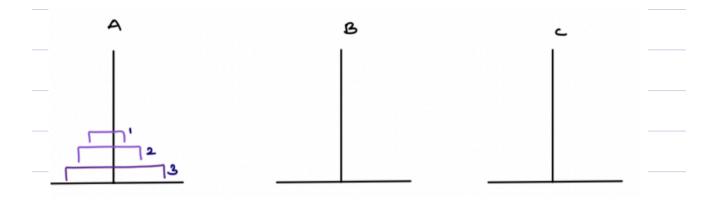
Constraint

- Only 1 disk can be moved at a time.
- Larger disk can not be placed on a small disk at any step.





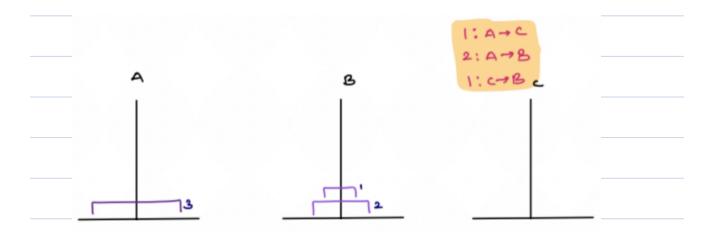


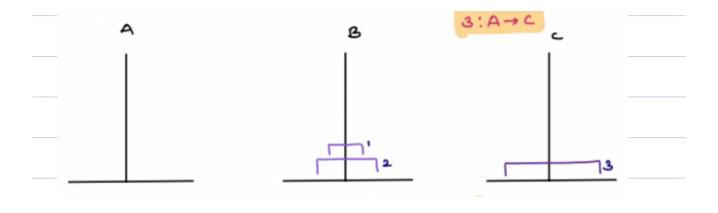


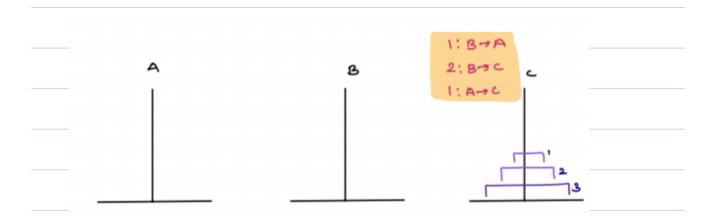
cusesent problem, 1) 2 disty A -> B ~

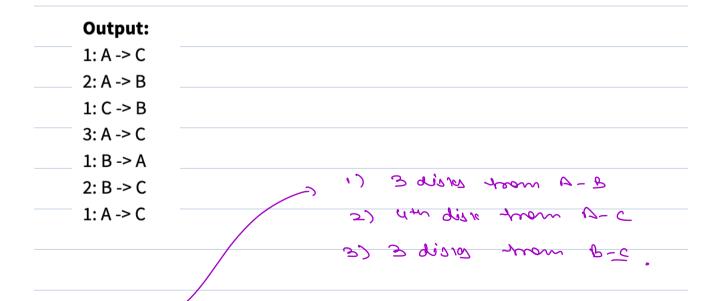
2) 3, A -3 C

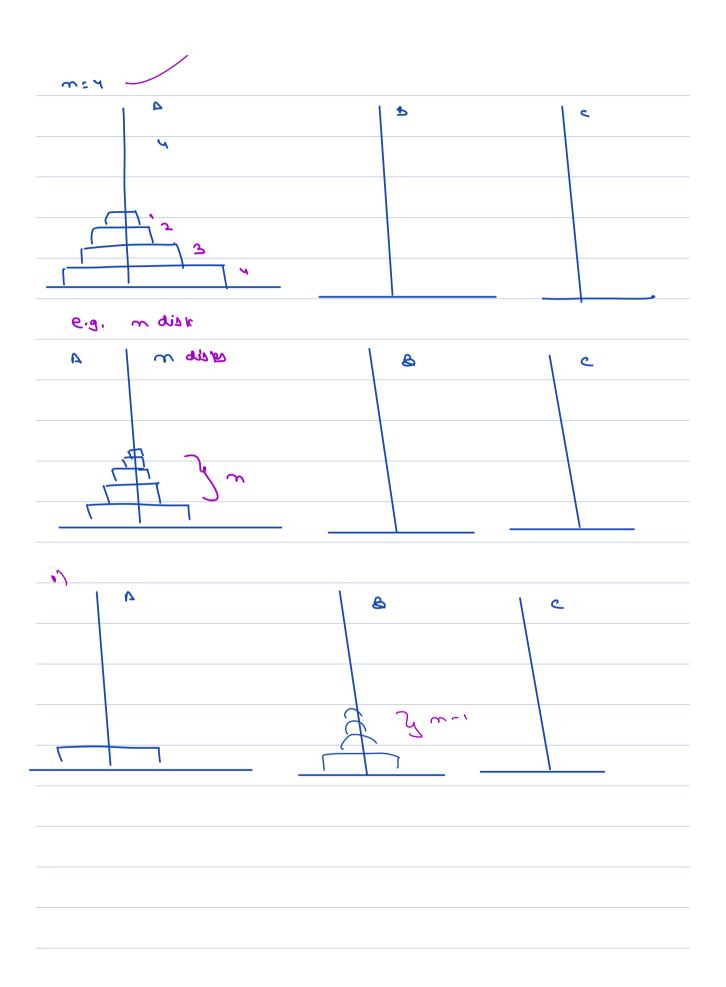
3) 2 dis 18 B -3 C

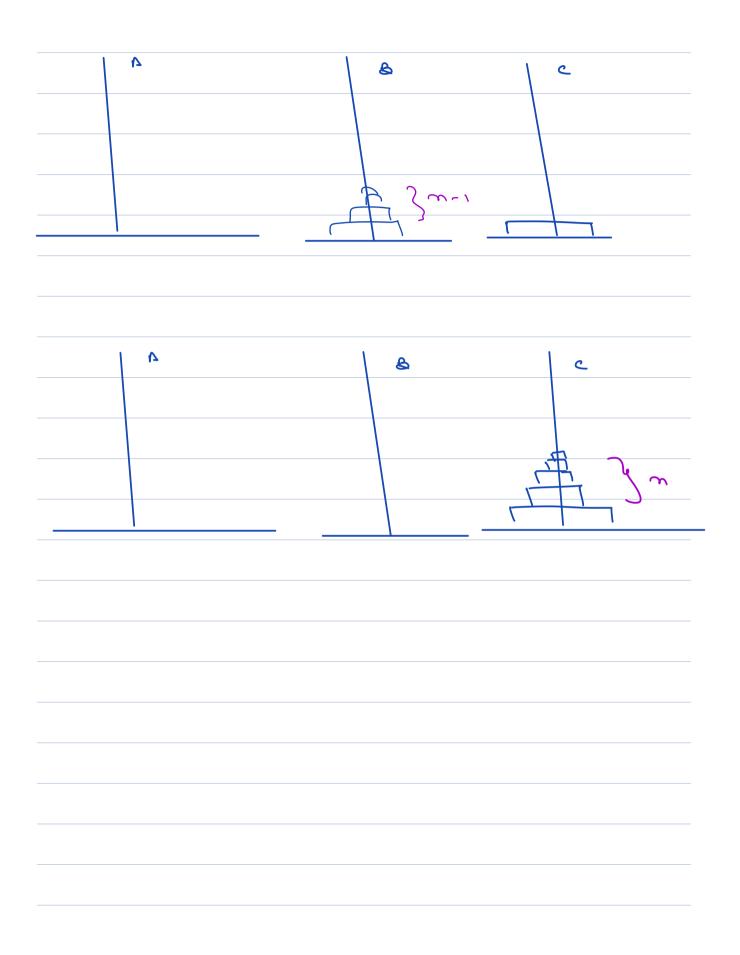


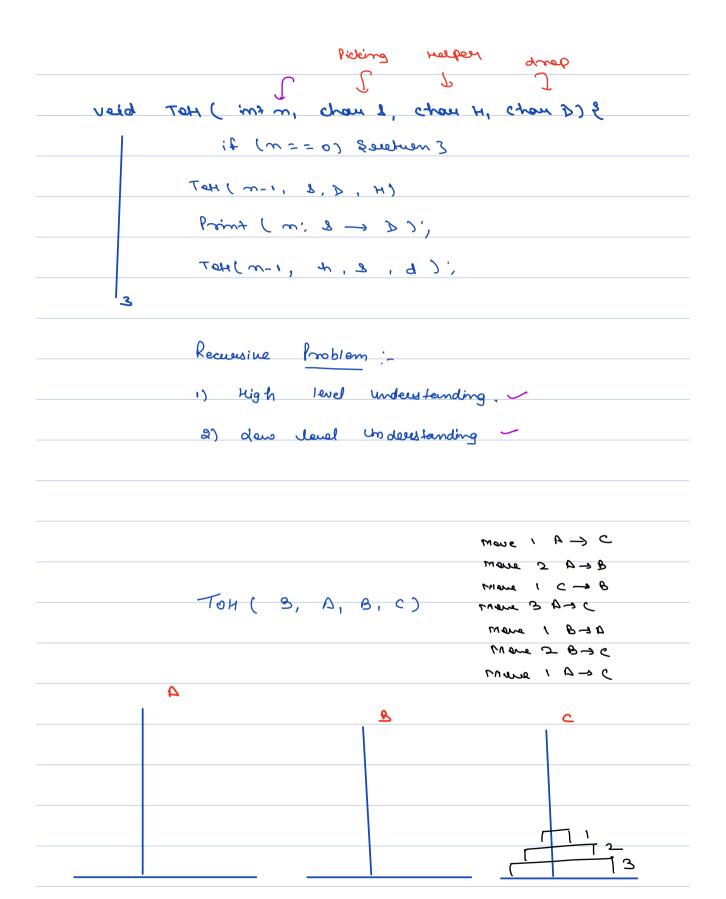












```
Vold ToH ( init m, chan 1, chan H, chan B) \xi

1 (f (m = = 0) \xi method \xi

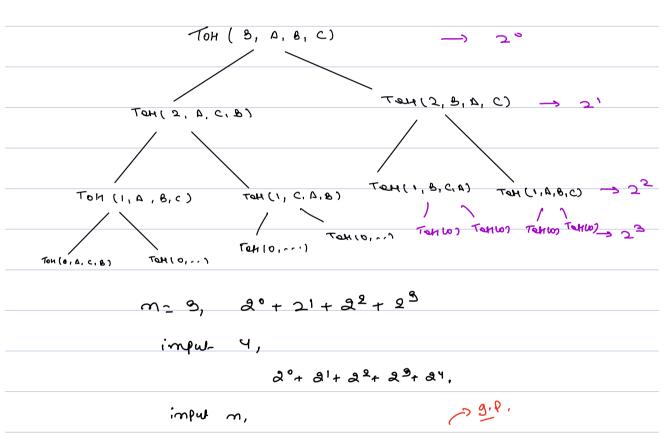
2 ToH (m = 1, \xi, \xi, \xi) \xi

3 Print (m; \xi \xi) \xi

4 ToH (m = 1, \xi, \xi, \xi) \xi

4 ToH (m = 1, \xi, \xi) \xi

5 Tomas
```



3°+ 3'+ 22+ 23+ · · · gm => 3m+1

7.C70m)

Ton) = 27 cm -1) +1

÷

11 generalized enforction!-

100)=1

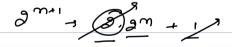
when Ic: m'

Tm1: 229m-1

Tm= 2n11-1

Time = 0 (2m).

S.C 3 0 (N).



Jues) frimt all valid faventhen's y ion 20, for gruen N, '(? ')? e.9.1 = 0 = 1 , -> () N=2, → ()(), (()) N=3, ((())), ()()(),)))((((1)(1), (1)((1)), ((1)(1))N = q, $\rightarrow () () () (), (()) (()) \cdots$ Erind 20, (), check their validity. N=3, ())... Trying all perible options. wing recurrien. Back tracking Dim AIM

