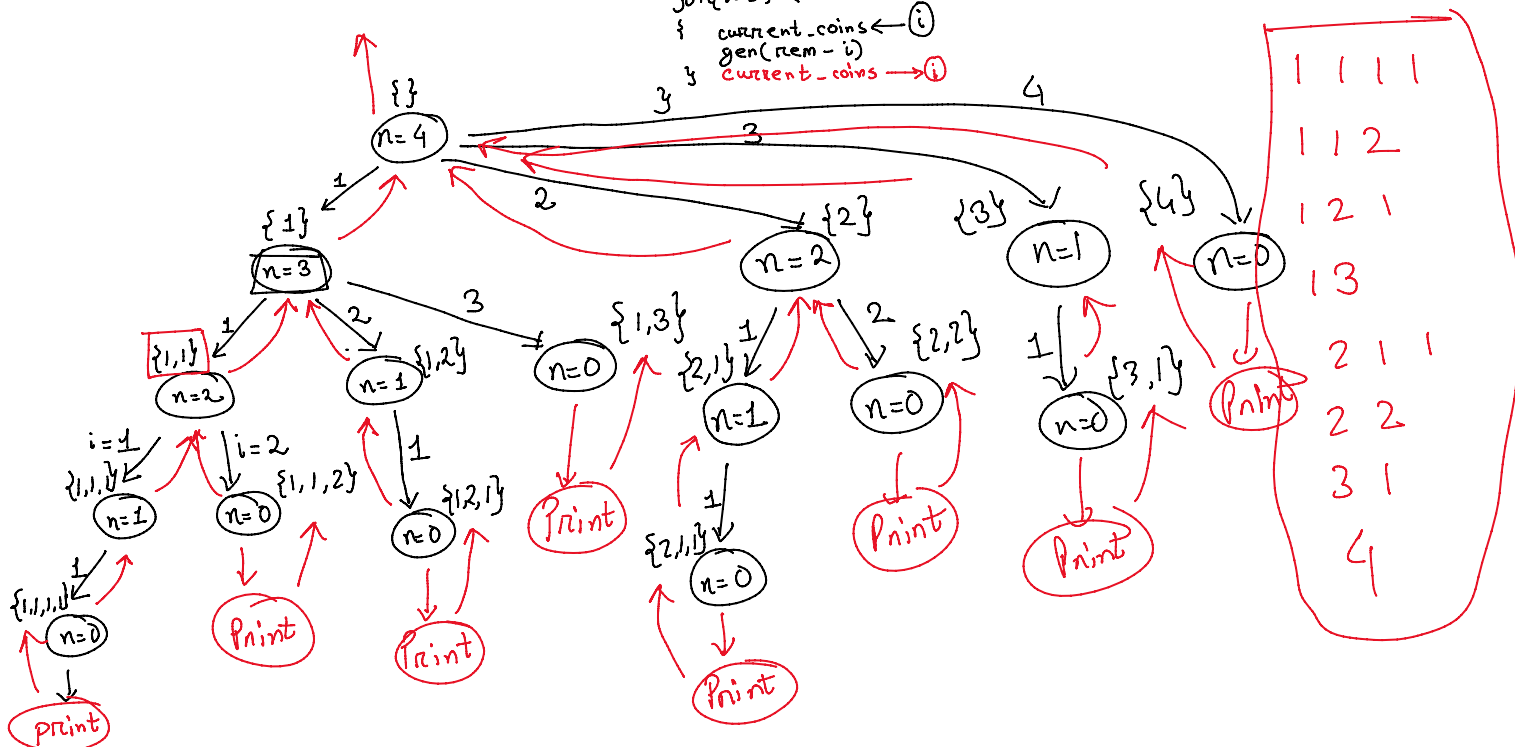
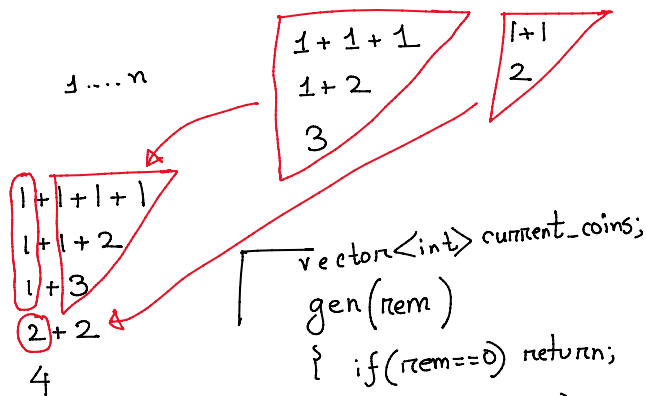


Problem 1:

$n = 3$

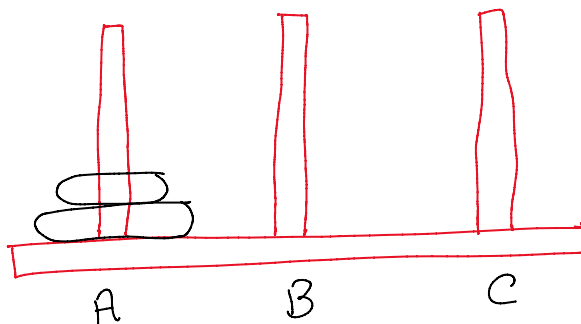
$n = 4$



- 1 1 1 1
- 1 1 2
- 1 2 1
- 1 3
- 2 1 1
- 2 2
- 3 1
- 4

* Tower of Hanoi

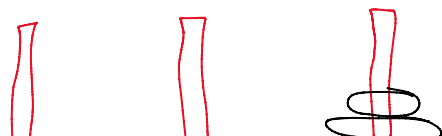
$n=2$



$n=2$

$A \rightarrow B$
 $A \rightarrow C$
 $B \rightarrow C$

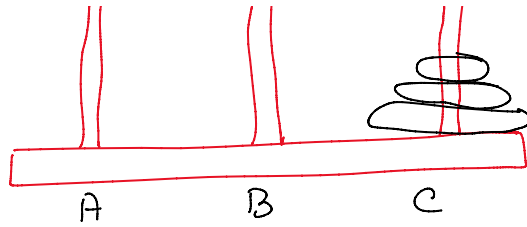
$n=3$



$n=3$

3rd disk $A \rightarrow C$ using B
 2nd disk $A \rightarrow B$ using C

$n=3$



\rightarrow 2 disk $A \rightarrow B$ using C
 \Rightarrow 1 disk $A \rightarrow C$
 \rightarrow 2 disk $B \rightarrow C$ using A

$$n \rightarrow \frac{n}{2-1}$$

Problem 3:

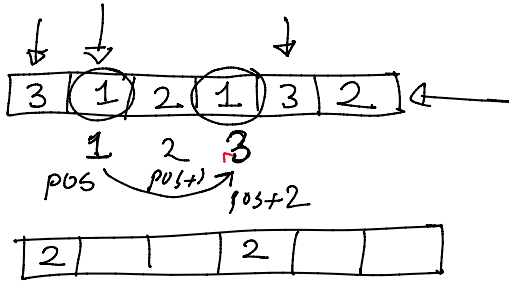
$n \rightarrow 2n$ sorted integer $[1, n]$

एकलको संख्या 2 वाटा

same gap

$n=3$

2 1 1 2 3 ... 3



$$pos + i + 1$$