h = 4

h = 2

9

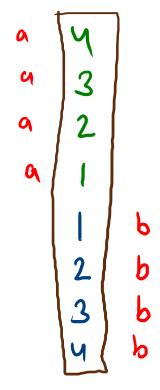
4 PDI (3) 4

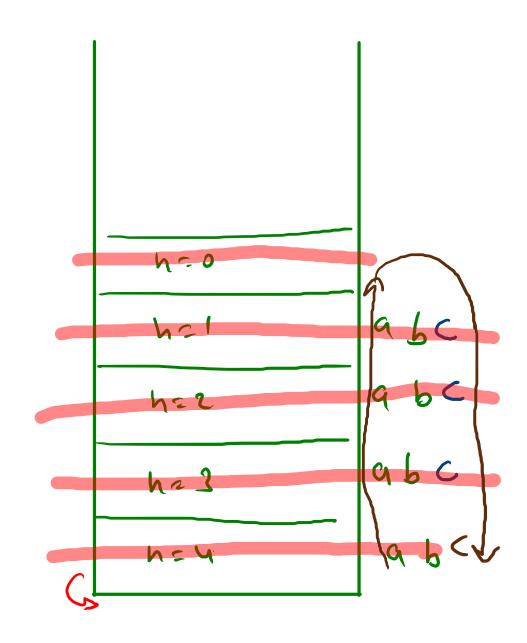
MLT > E, F

LL3 D15

```
public static void pdi(int n){
    h * v

a System.out.println(n);
b pdi(n-1);
c System.out.println(n);
}
```



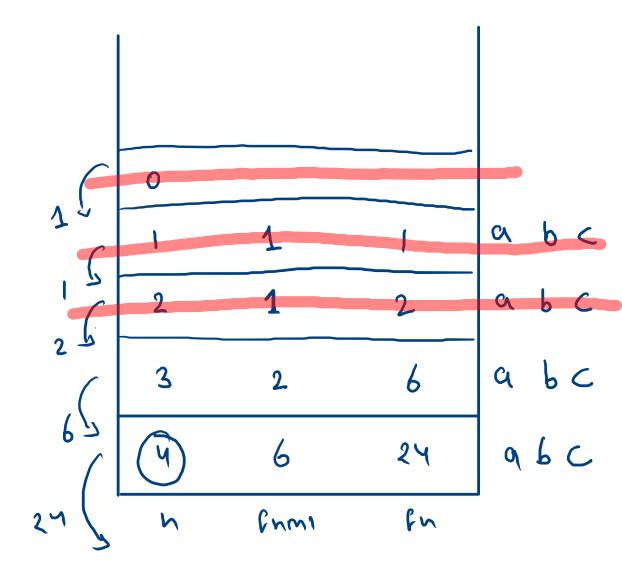


 $\frac{1}{\sqrt{3}}$

1120

exp(1) abch=5 b=5 b=

```
h = 4
```



$$E \times \Rightarrow 2$$

$$h = 6$$

$$h = 5$$

$$2^{5}$$

$$power(n, h-1) \times n$$

$$\frac{x}{h} = \frac{x^{h-1} \cdot x}{2^{15} \times 2}$$

$$2^{8} = 2^{4} \times 2^{4}$$

$$\Rightarrow 2^{9} = 2^{4} \times 2^{4} \times 2^{4}$$

$$\Rightarrow 2^{9} = 2^{5} \times 2^{5}$$

$$\Rightarrow 2^{10} = 2^{5} \times 2^{5} \times 2^{5}$$

$$\Rightarrow 2^{11} = 2^{5} \times 2^{5} \times 2^{5}$$

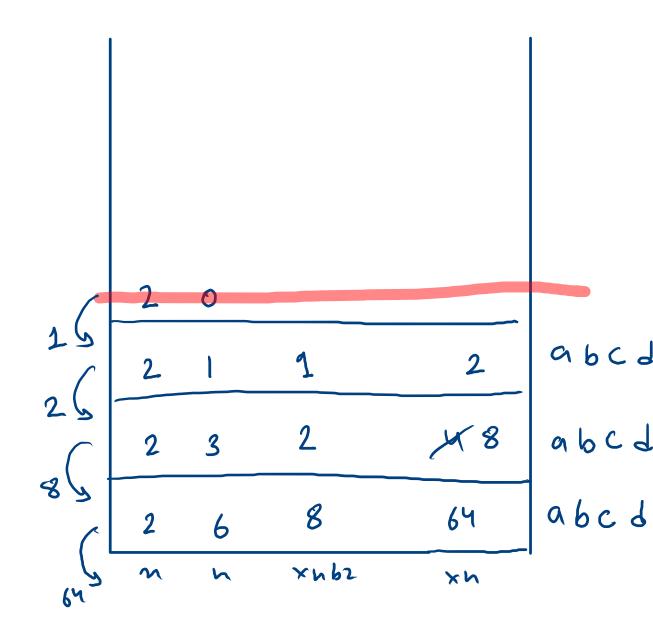
$$n = \begin{cases} x^{1/2} & x^{1/2} \\ x^{1/2} & x^{1/2} \end{cases}$$

```
26
```

```
public static int power(int x, int n){
   if(n==0)return 1;

   int xnb2 = power(x, n/2);
   int xn = xnb2*xnb2;
   if(n%2 == 1){
        xn = xn * x)
   }
   return xn;
   d
```

nn= 4x2=8



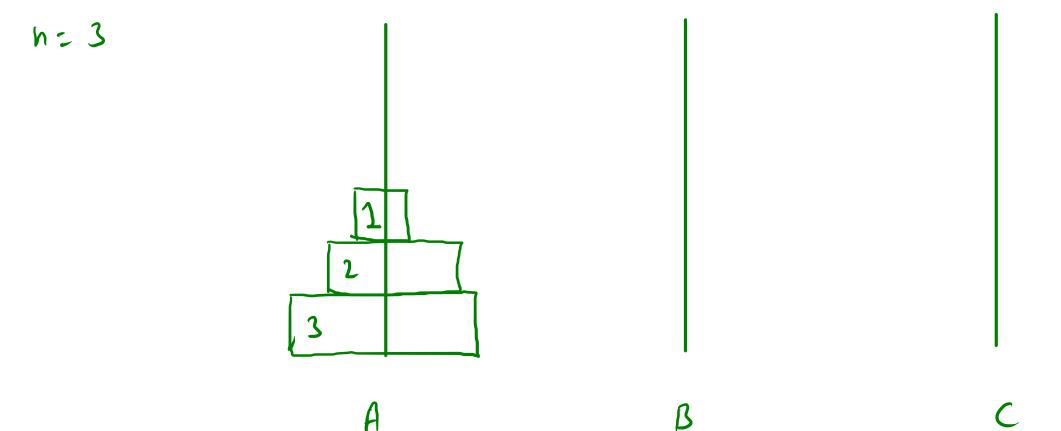
Input1 -> 1 Output1 -> 111

Input2 -> 2 Output2 -> 211121112

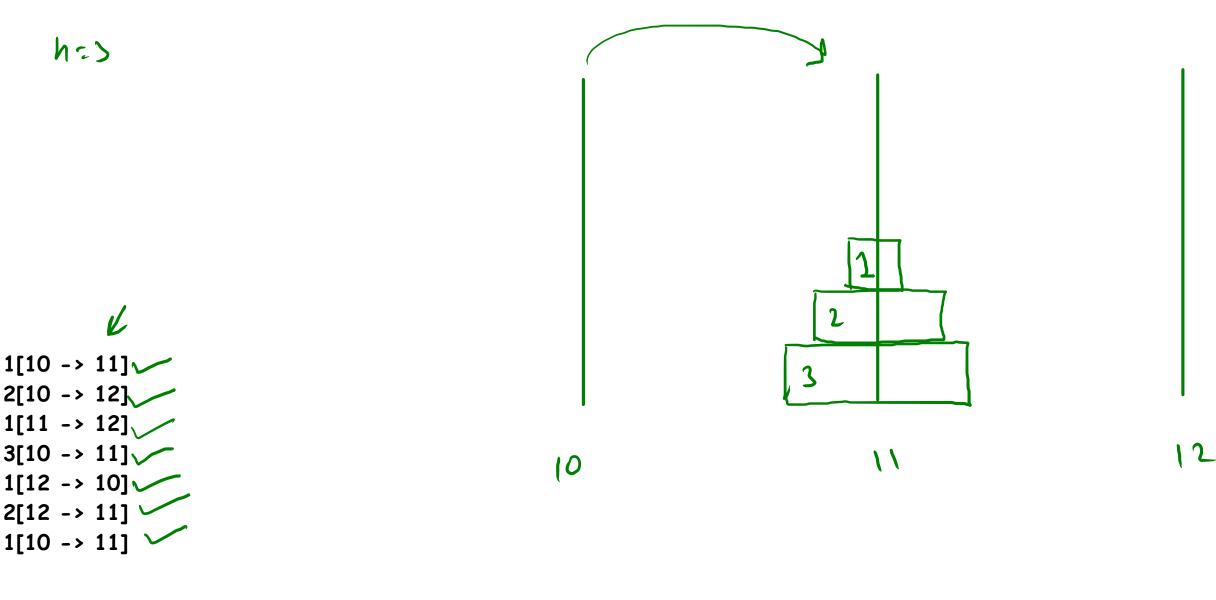
Input2 -> 3 Output3 -> 3 2 1 1 1 2 1 1 1 2 3 2 1 1 1 2 1 1 1 2 3

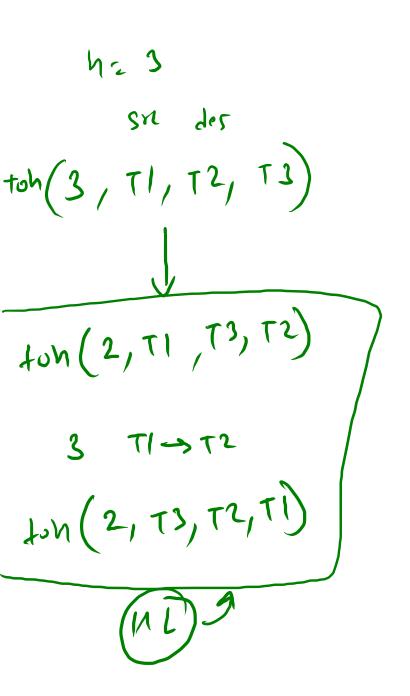
3 2 1112 1112, 3 2 1112 1112, 3 f(2)

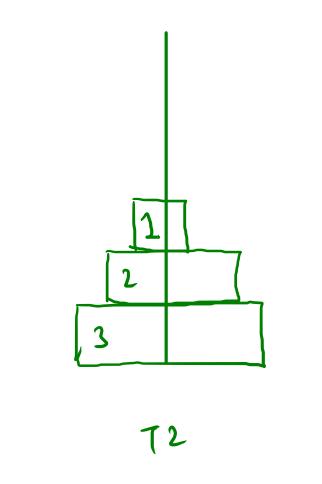
F(2)

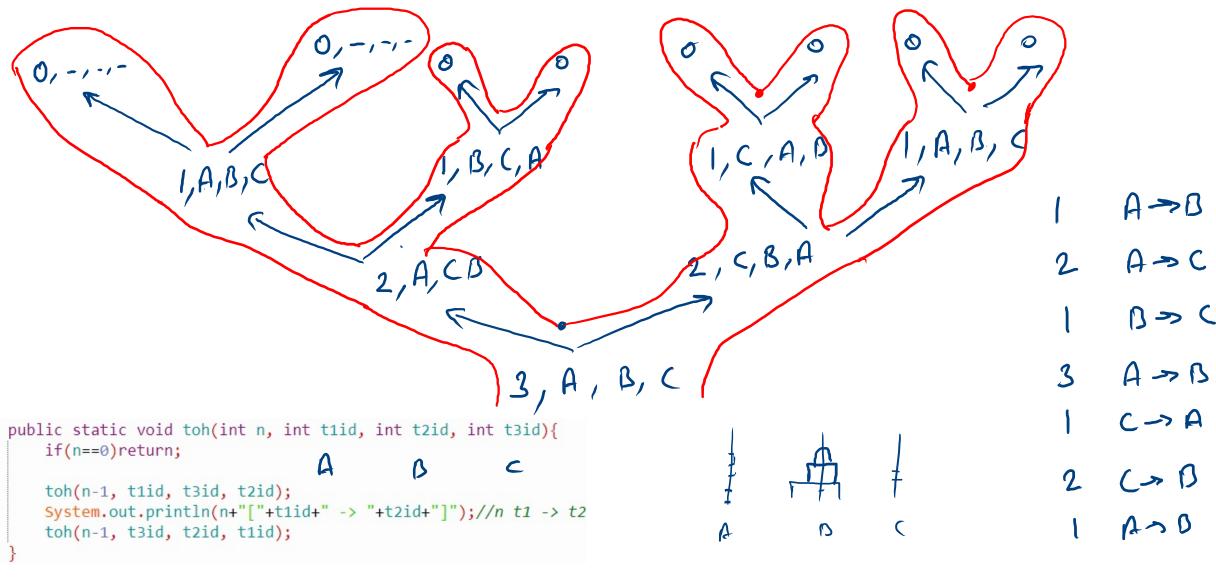


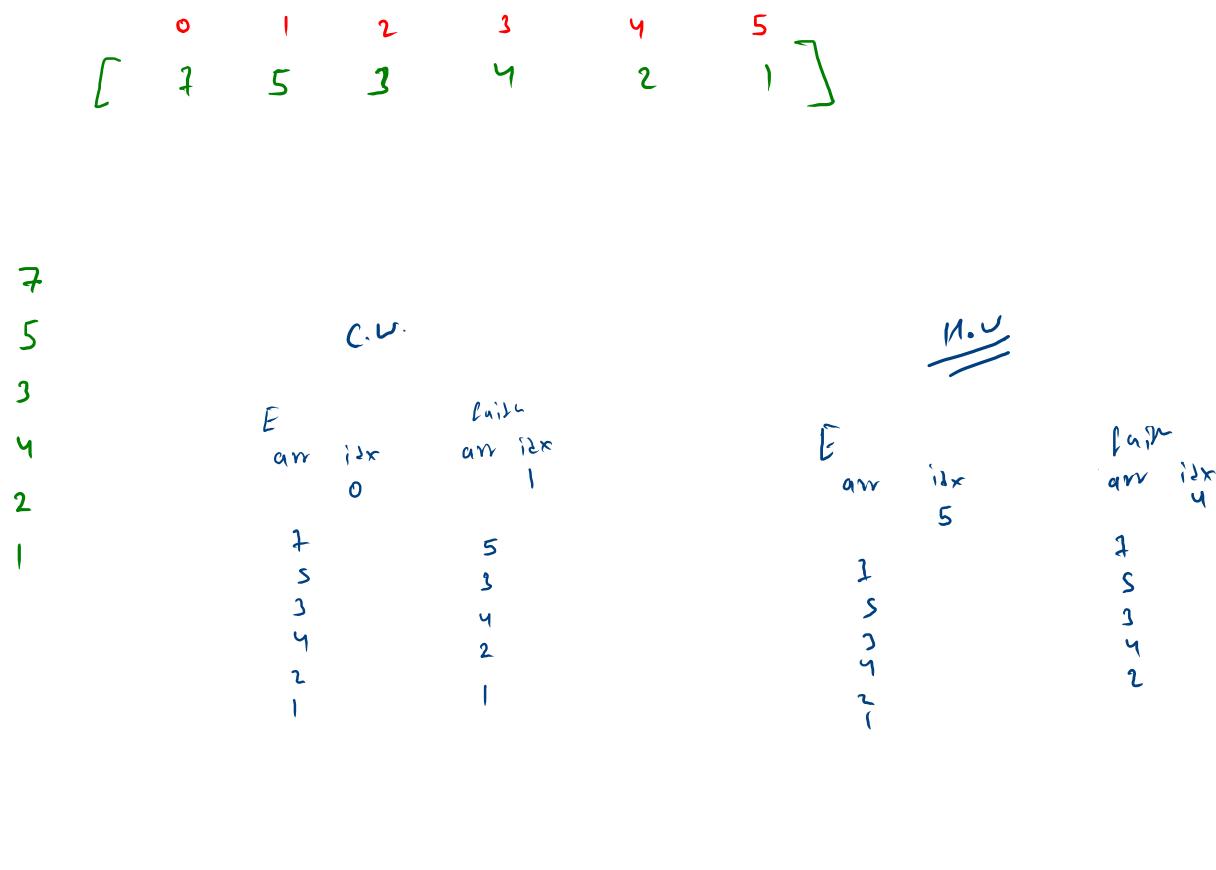
- 3.1. Print the instructions to move the disks.
- 3.2. from tower 1 to tower 2 using tower 3
- 3.3. following the rules
- 3.3.1 move 1 disk at a time.
 - 3.3.2 never place a smaller disk under a larger disk
 - 3.3.6 you can only move a disk at the top.

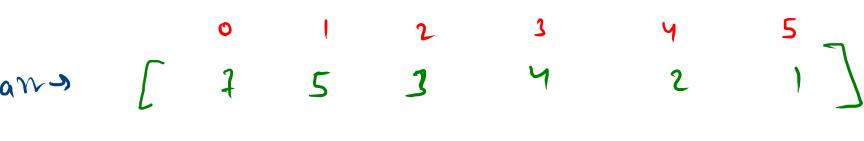


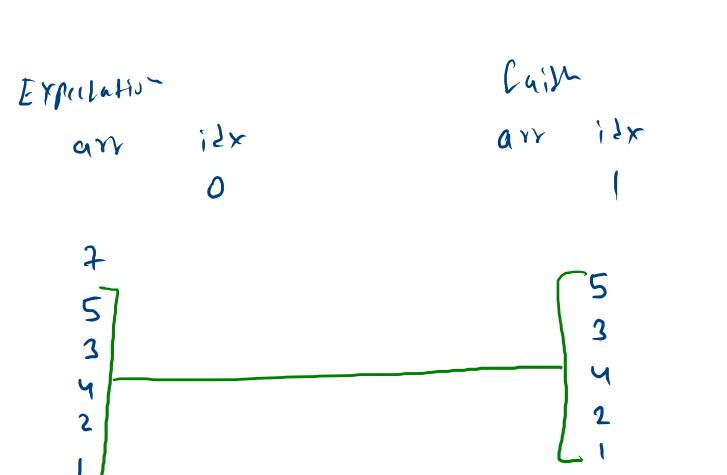




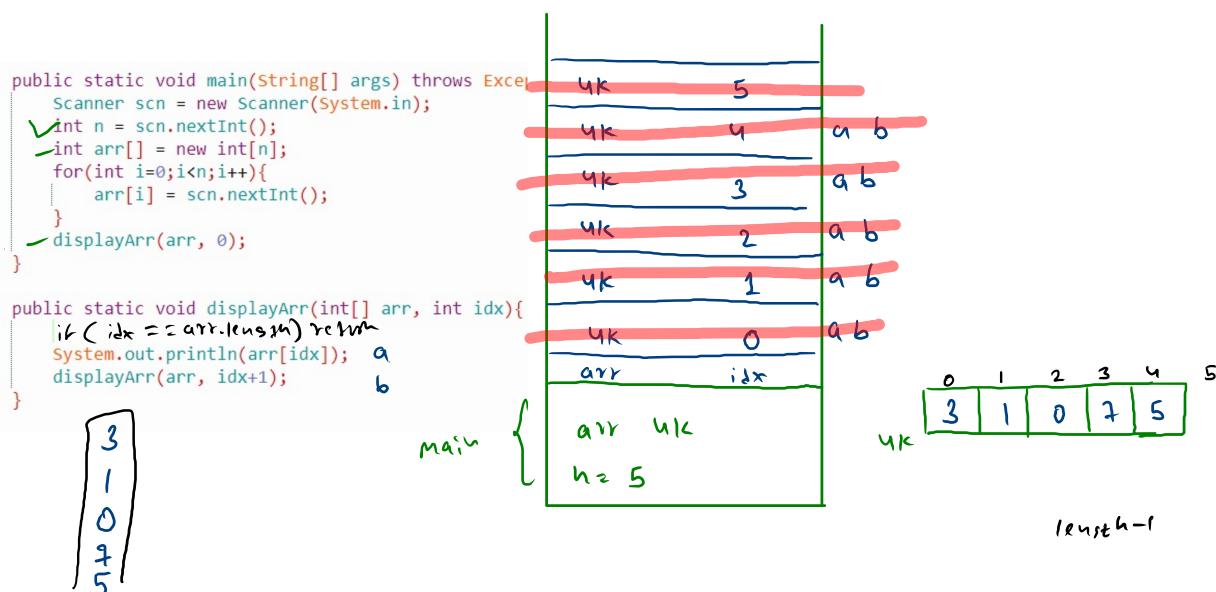








mint (an(idrs))
Cuih (an, idra)

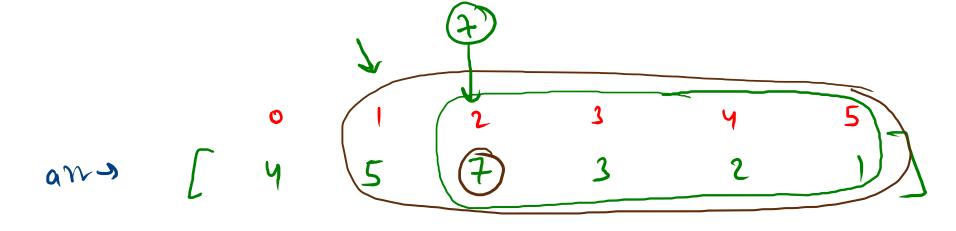


Display Array In Reverse

 $an \rightarrow \begin{bmatrix} 2 & 3 & 4 & 5 \\ 7 & 5 & 3 & 4 & 2 \end{bmatrix}$

 $an \rightarrow \begin{bmatrix} 0 & 1 & 2 & 3 & 4 & 5 \\ 4 & 5 & 7 & 3 & 2 & 1 \end{bmatrix}$

(1)

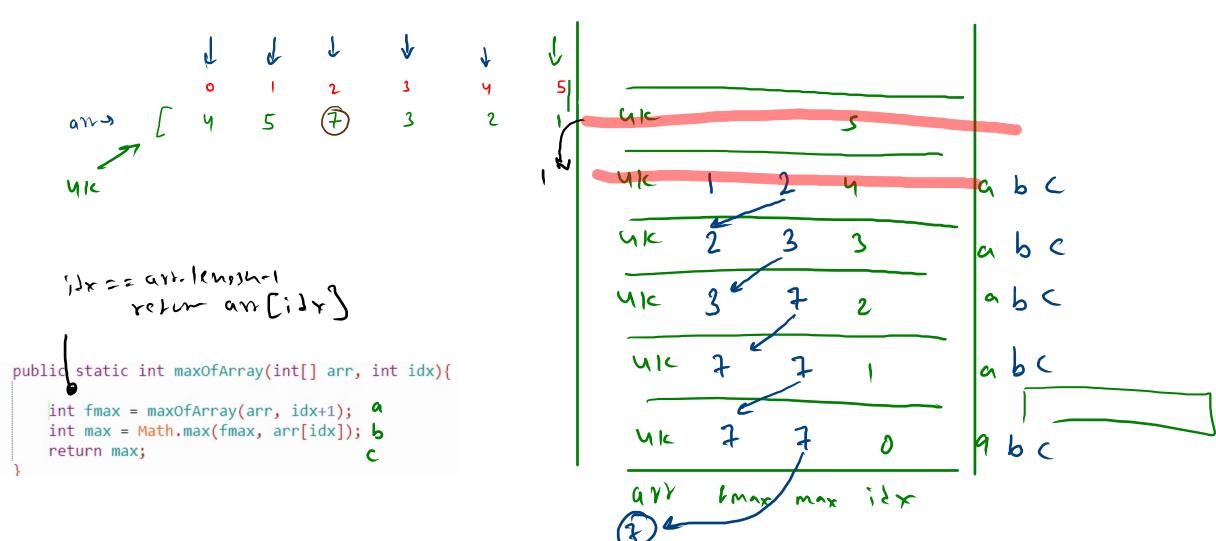


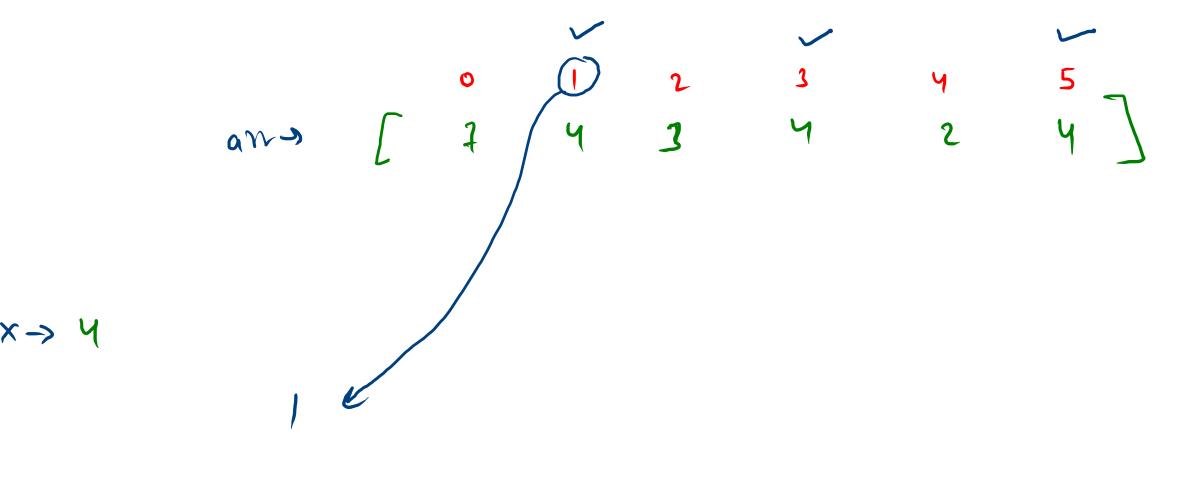
ENPERLAKO idx = 1

Laim idx 2

int lmar = max(ilx+1)

revior mar(emar, ancis)





and (i)x 1 = x $\begin{cases}
an(i)x & 1 = x \\
2x & 0 & x = 4
\end{cases}$ $\begin{cases}
an(i)x & 1 = x \\
2x & 0 & x = 4
\end{cases}$ $\begin{cases}
an(i)x & 1 = x \\
2x & 0 & x = 4
\end{cases}$ $\begin{cases}
an(i)x & 1 = x \\
2x & 0 & x = 4
\end{cases}$ $\begin{cases}
an(i)x & 1 = x \\
2x & 0 & x = 4
\end{cases}$

1

aus luish ("drei)

```
public static int firstIndex(int[] arr, int idx, int x){
    if(arr[idx] == x){|
        return idx;
    }else{
        return firstIndex(arr, idx+1, x);
    }
}
```

