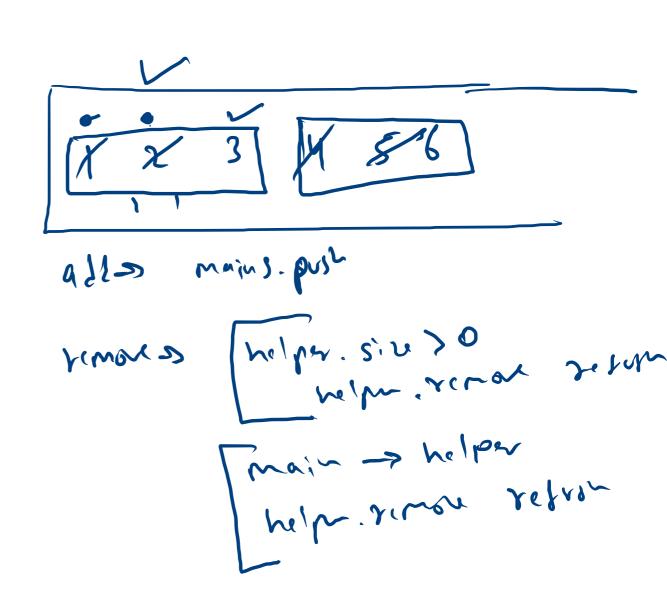
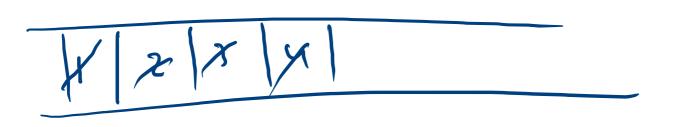
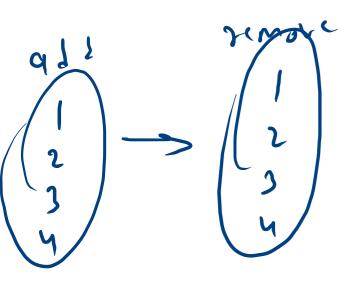
4 (3/2/1 heller main remove push main-> helper main-add (val) helper-> main eshirient pop

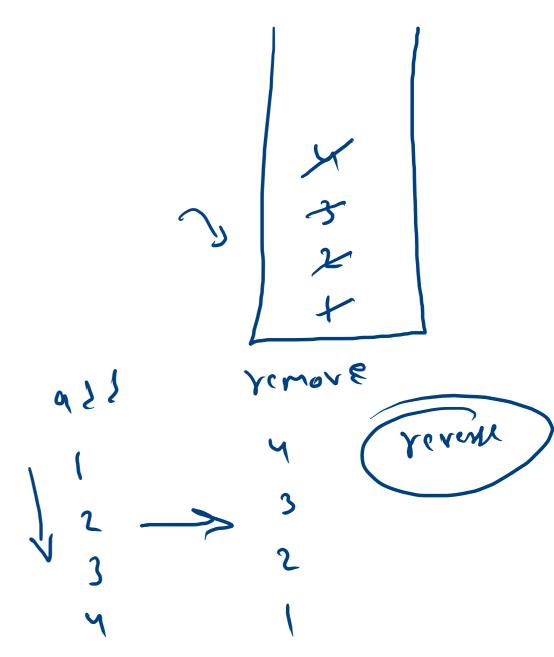
-> Y
-3
-2
-1

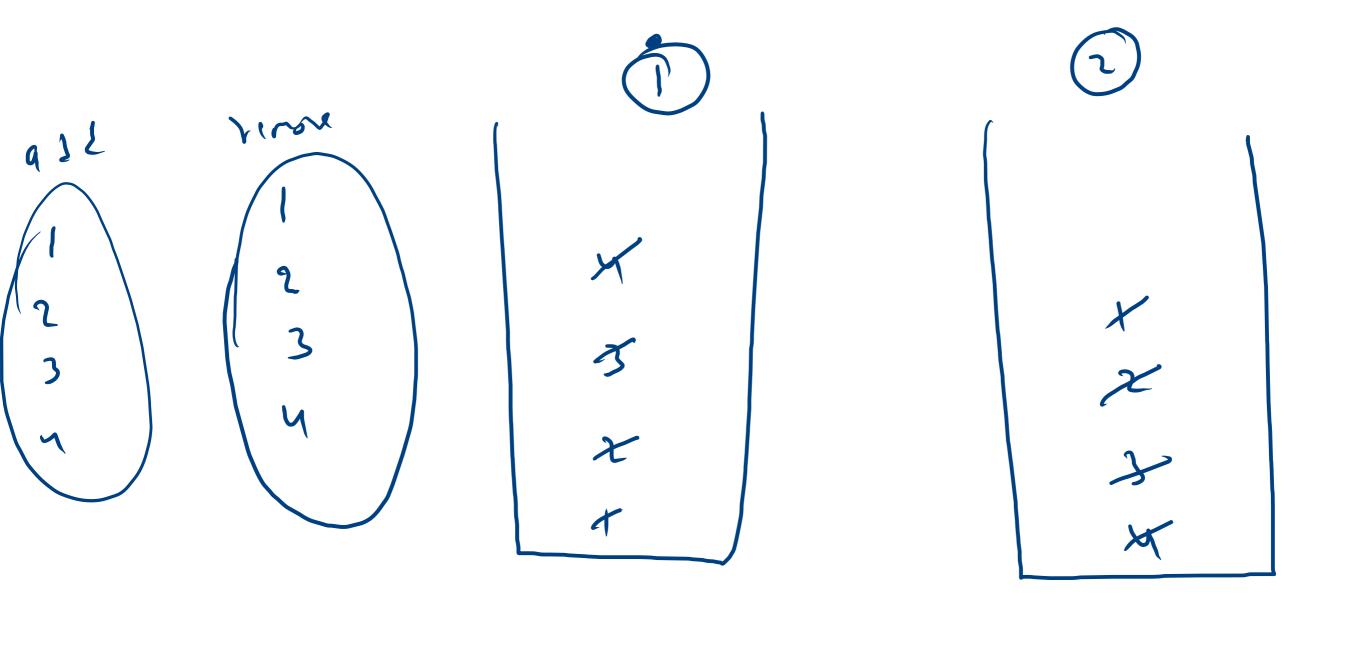
helps S mairs val > 1 1 2 3 4 4 4 4 4 8 8

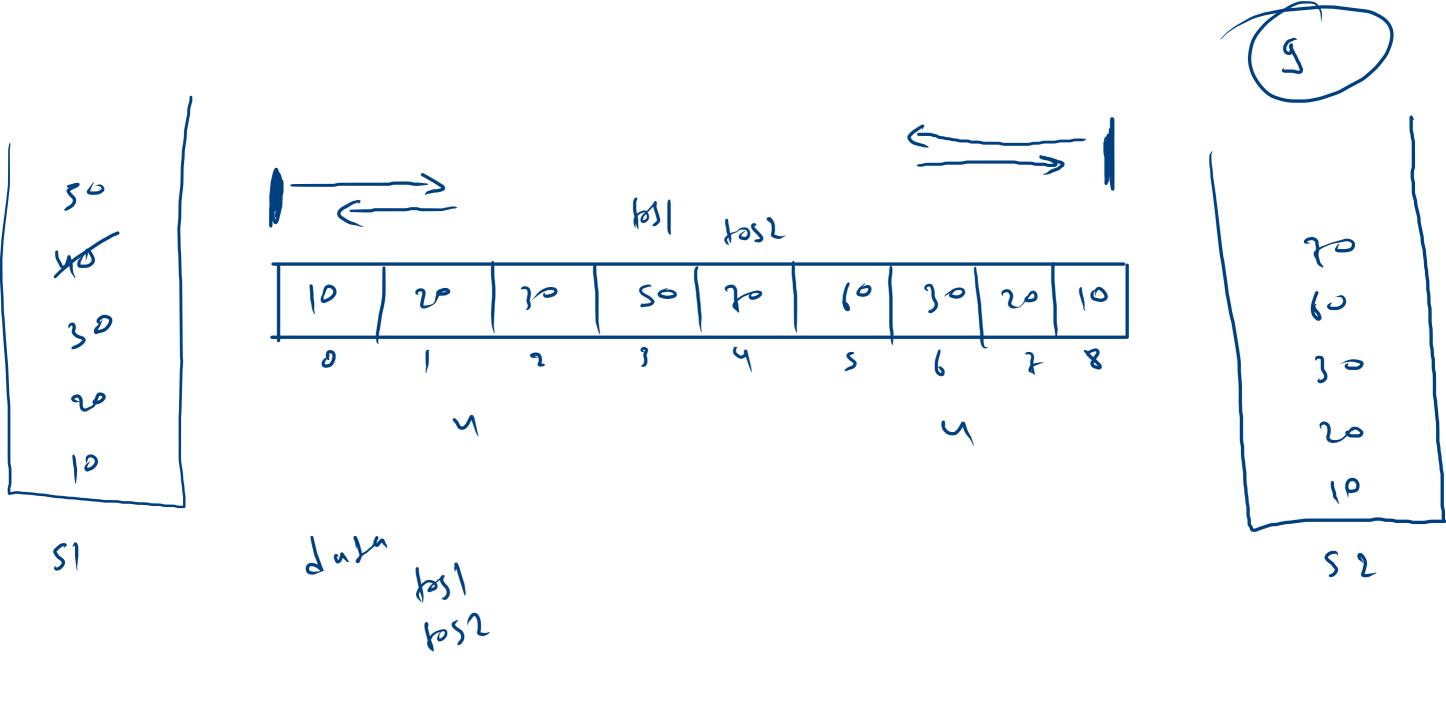


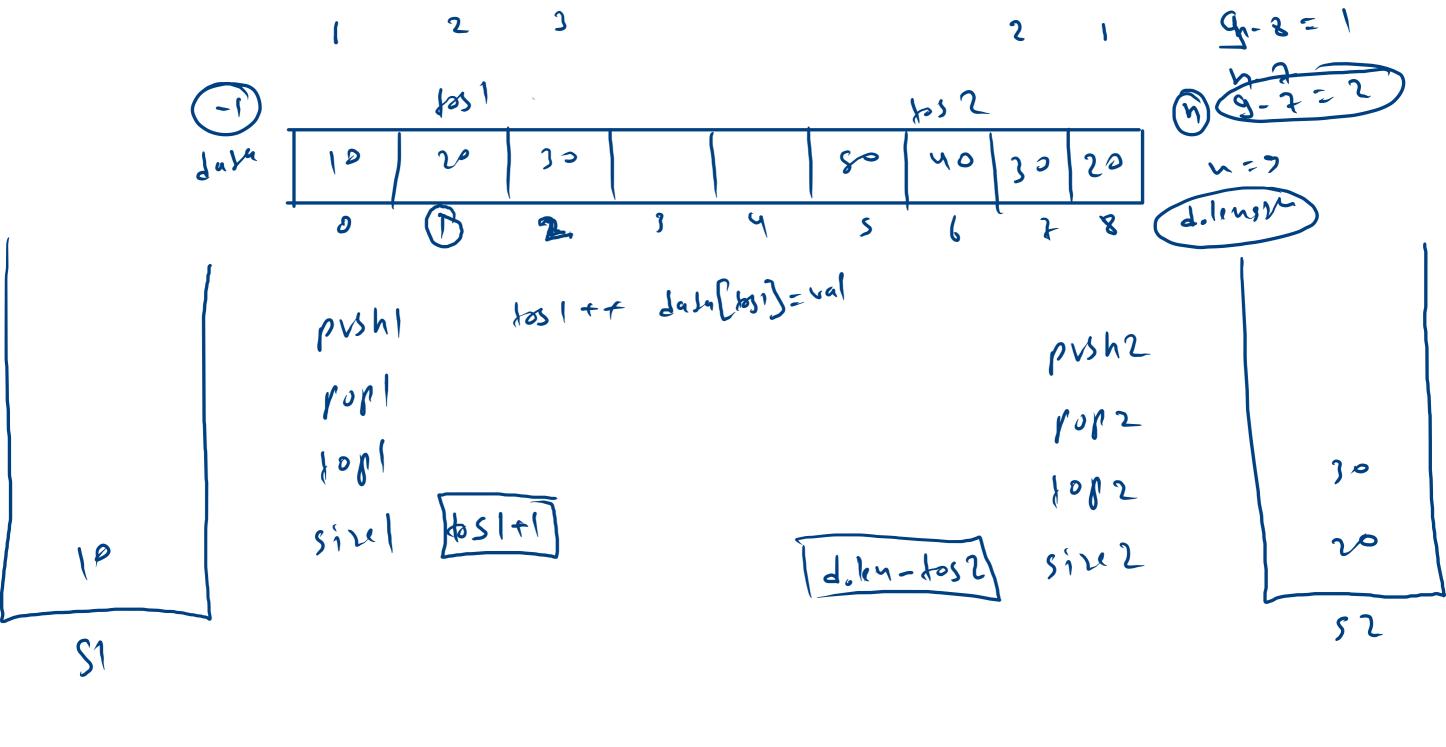


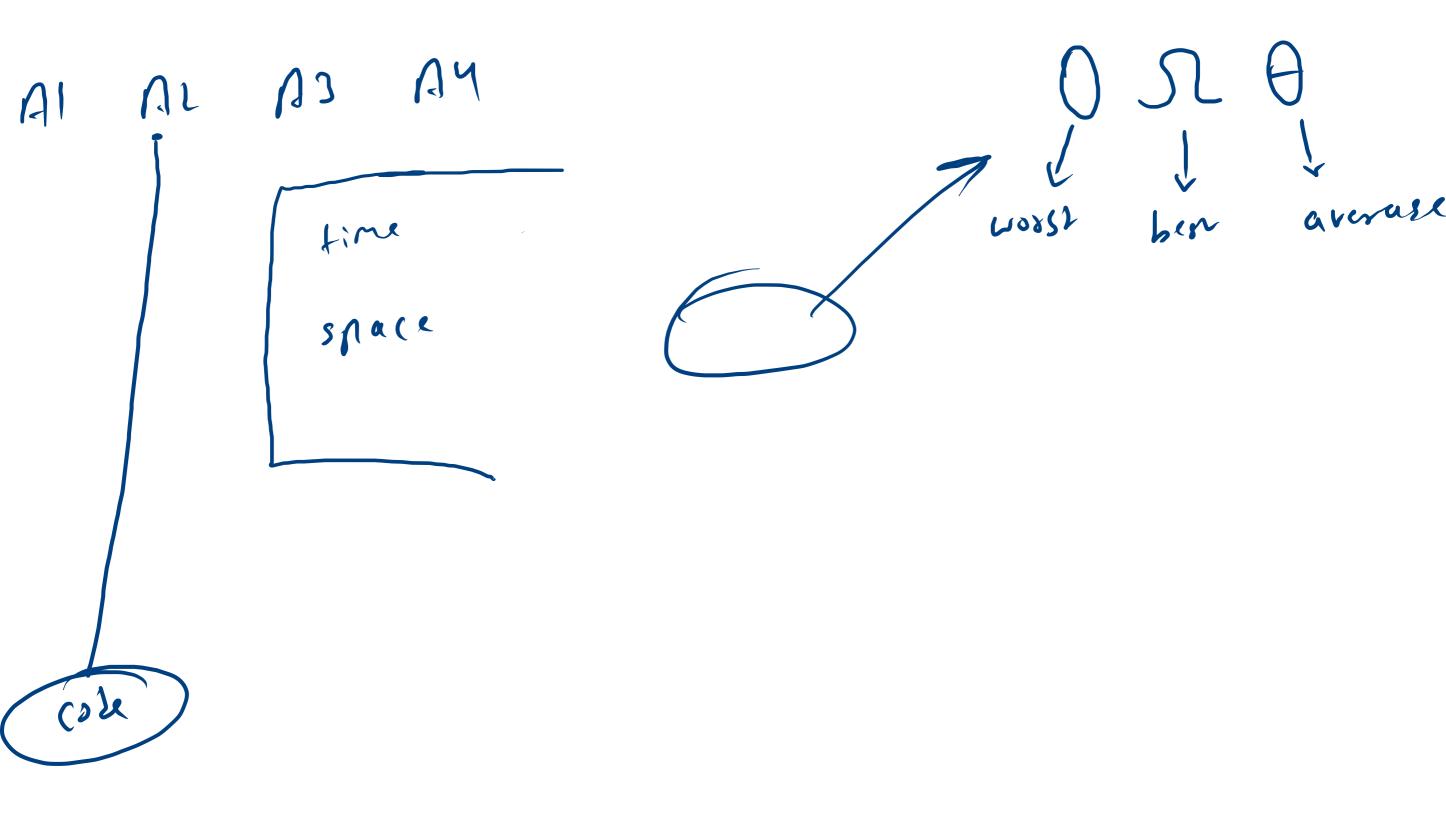


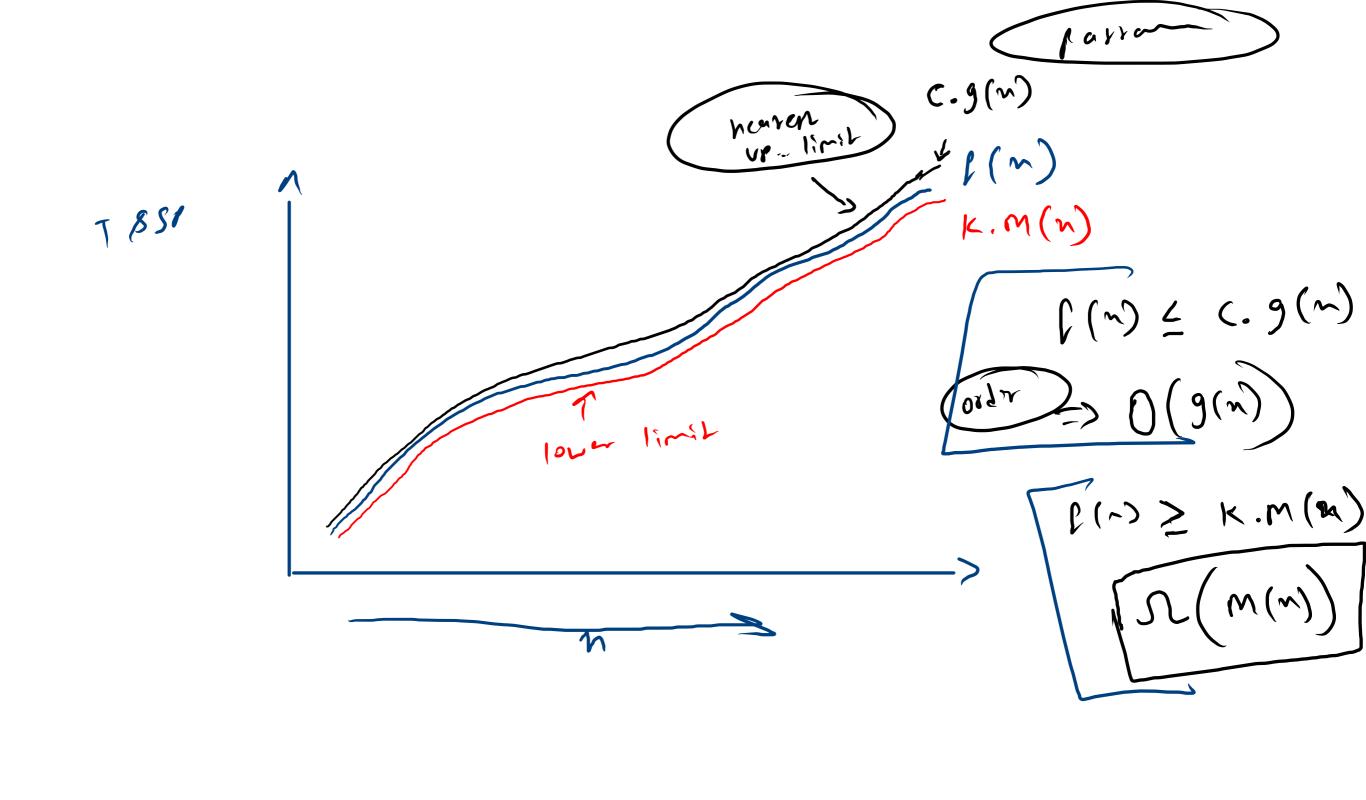


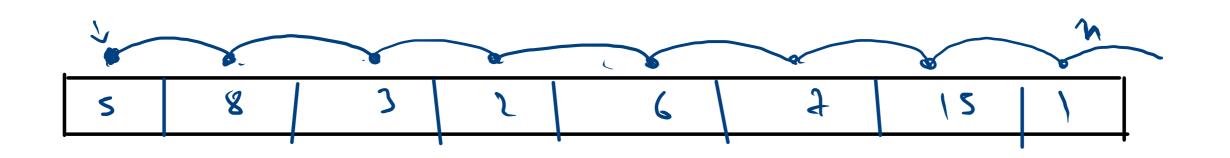












Linear Search

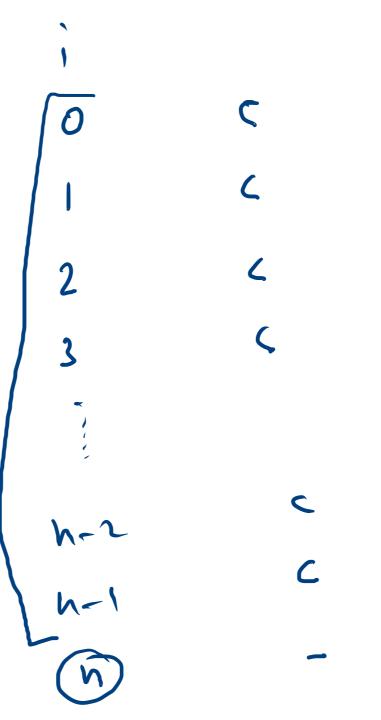
Find 2

Cind (5)

Cind (100)

h

$$f(n) \geq 1$$
ben  $\Rightarrow S(1)$ 



h. C + b.k k 0 .... h -> 120 n. c + 10.16 > 121 for( int i=0;i<n;i++){</pre> for(int k=0;k<n;k++){
=3 consoant c k 0 - . - h 3/22 for(int j=1;j<=10;j++){
= } (onpor k n.c + 10.k K 8 ----> 1- N-1 n ( h. ( + 10.1c) n2. C + n 10. K

h >14

hck

 $(m+1) k \cdot c \Rightarrow \left(\frac{n}{k} + 1\right) k \cdot c$ 

 $mk + 1 \leq h$   $mk \leq h-1$   $m \leq h-1$   $m \leq h-1$   $m \leq h-1$   $m \leq h$   $m \leq h$   $m \leq h$ 

1 1/6+1

] 3/c f

i 3/c+1

mk+1 &h

K. C

K. C

( ) (

1c - c

1c. C

$$s=0$$

$$i=1$$

$$while(s <= n){(s+1)}{(s+2)}{(s$$

$$1+2 | 1+2+3 | 1+2+3+4$$
 $2 | 3 | 4$ 
 $3 | 4 | 5$ 
 $2 | M(M+1) | 2 | M$ 
 $4 | 2 | M$ 
 $5 | 2 |$ 

1+1 .... m/ < n

```
for(i=1; i<= 1000; i++){

=3 c
}

i l

c

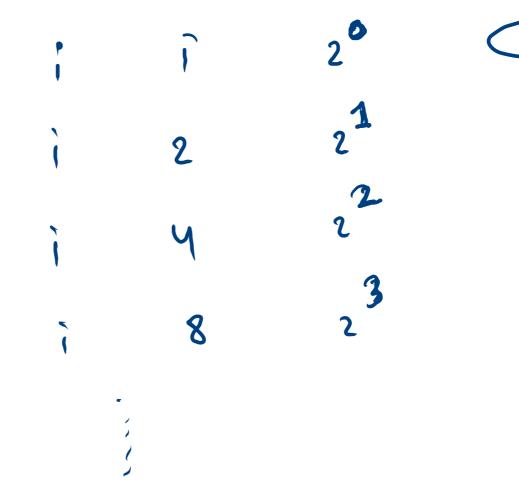
i l

c

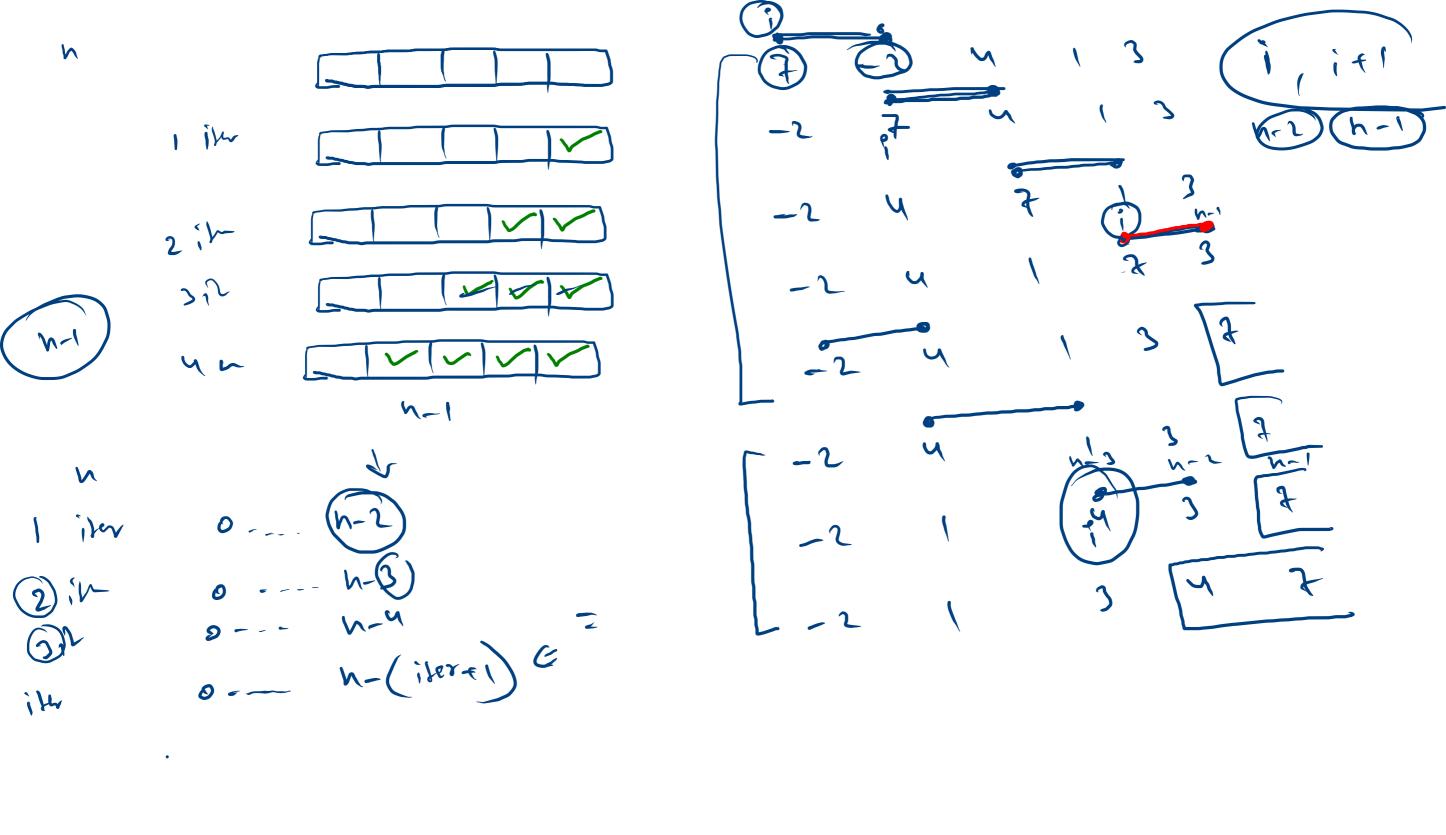
i loos

(onpant fire
```

```
for(i=1;i<=n;i++){
    for( j = 1; j <= i; j++){
         ? C
```



Sorting (or parish Divide 8 compr Ralis selection Avick insate 3 Mhb MISS



$$h-(1+1)$$
 $h-(n-1+1)$ 
 $h-h=0$ 
 $h-2$ 

