-> Suboray / Subset Contact

-> Suboray Code

-> Birony Search -> Conept

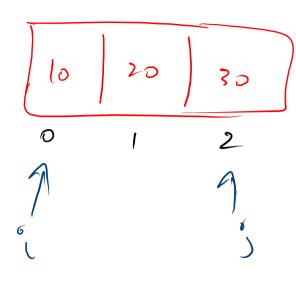
-> Ownhon

Subsul => Non-Configur AC 1197 1100 2 AB = ABD = ABC - ABCD BCD ndements => n(Subonay) = n (n+1) n+(n-i) + (n-2) + 6 - - - + 1 => v(lut)

```
0
                   Corra)
                         10
           20
    lo
(0,1)
               30
(0,2) 10 20
(1,1) 20 -
(1,2) 20
(2,2) 30
```

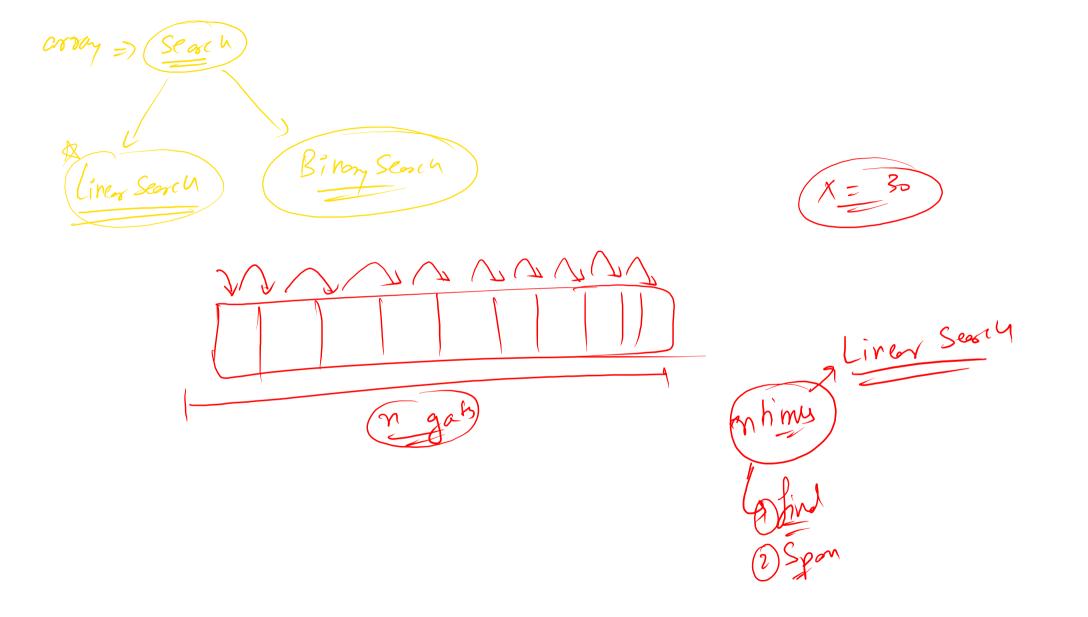
lo 20 30 40

for (1=0; i<n; it) } for(j=1)j<n;j+n){



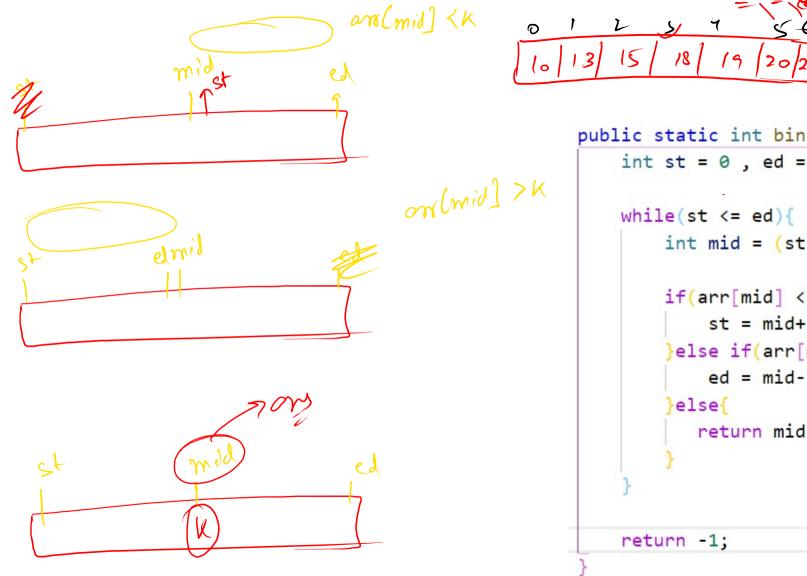
idx = \$423

```
public static void subArrayProblem(int[] arr){
    for(int i = 0 ; i < arr.length ; i++){
        for(int j = i ; j < arr.length ; j++){
            for(int idx = i ; idx <= j ; idx++){
                System.out.print(arr[idx]+"\t");
            }
            System.out.println();
        }
}</pre>
```



(Sorted crossy) Binon Search K = 30 Mc reasing order

12 89 | 90 | 95 | 99 42 18 25 36 43 50 (st,ed) => find? $(0,12) \rightarrow 6$ rif(onlmid)< k) { mid= (st +ed)/2 -7elu if (oro (mid) > k) { ed=mid-1; (3,3)-3 element doen't element found;



```
public static int binarySearch(int arr[],int k){
    int st = 0 , ed = arr.length-1;
        int mid = (st + ed)/2;
        if(arr[mid] < k){</pre>
            st = mid+1;
         else if(arr[mid] > k){
            ed = mid-1;
           return mid;
```

In a country of novice government, the economic system is changed where only coins are used that too of various denominations. Whenever a foreigner visits this country, they visit a money exchanger to get the currency of the same country. As the foreigner is unaware of the denomination of the country, the money exchange prefers to tell them the denomination which is the nearest maximum and nearest minimum to the denomination mentioned by the foreigner. In case they get the correct guess of the denomination, they are told the same denomination. The denominations are always quoted in ascending order.

Example 1: In a country, 8 given denominations are as follows

[5, 10, 15, **22**(33), 40, 42, 55]

The foreigner asks for denomination 25.

The money exchange tells them that denominations of 33 and 22 are available.

ceil k floor

Example 2:

In a country, 5 given denominations are as follows

) [7, 14 18, 25, 30]

The foreigner asks for the denomination of 18.

The money exchange tells them a denomination of 18 is available.

Ceil » just lorger element doesn't exist

floor » just smaller

element exist » element

element exist » element

(K= 34) lo Vo. 15 22 33

(eil=) just lorger

floor=) just Smaller

Cerl= A X 6

floor= 185

his still K= 33 9 10, 4 12 13 14 0 33 10 22 33 33 33 3 3 33 u_o 55 66 42 15 -22 _33 33 -33 better first occurrence - lest _33 ,33 better lent occuron a J 40 42 **55** 66 177