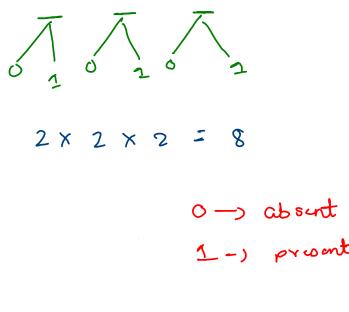
subsits ts = 8 [1,2,3]



```
public static void printSubsets(int[]arr) {
   int n = arr.length;
   int ts = (int)Math.pow(2,n);
    for(int d = 0; d < ts;d++) {
       int[]bin = decToBinary(d,n);
       //print subset
       for(int i = 0; i < n;i++) {
           if(bin[i] == 0) {
               //absent
               System.out.print("-\t");
           else {
               //present
               System.out.print(arr[i] + "\t");
       System.out.println();
public static int[] decToBinary(int dec,int len) {
   int[]ans = new int[len];
   int idx = ans.length-1;
   while(dec > 0) {
       int rem = dec % 2;
       dec = dec/2;
       ans[idx] = rem;
        idx--;
   return ans;
```

```
10,20,30
                       N = 3
                       ts = 8
                       subset
         bin
4
              0
           0 |
0
                            - 30
                            20
                            20 30
                          0
                 0
                          10
 5
                          10
                  6
 6
                                20 30
                           10
```

Birmo

int hi = n-1;

in4 Lo = 0

while (to 2 hi) ?

int m = (do + hi) /2;

i) (and [m) = = data) = return;

3 clsc ij (ark [m) < data) { No = mid +1;

3
else {
 hi = mid-1;
3

 $mid = \frac{0+11}{2} = 5$

Secret-, 35

mid = 6+11 = 8

 $mid_{\frac{1}{2}} \underbrace{6+7}_{2} = 6$

3

$$mid = \frac{2}{2} = 1$$

$$mid = \frac{2+2}{2} = 2$$

mid=0+7=3

Flust gndet -C hĵ do m

```
Ji= -1/8 6
Ji= -1/8 9
```

```
while(lo <= hi) {
    int mid = (lo + hi)/2;

    if(arr[mid] == data) {
        li = mid;
        lo = mid+1;
    }
    else if(arr[mid] < data) {
        lo = mid+1;
    }
    else {
        hi = mid-1;
    }
}</pre>
```

```
while(lo <= hi) {
    int mid = (lo + hi)/2;

    if(arr[mid] == data) {
        fi = mid;
        hi = mid-1;
    }
    else if(arr[mid] < data) {
        lo = mid+1;
    }
    else {
        hi = mid-1;
    }
}</pre>
```

matimum [-2,1,-3,4,-1,2,1,-5,4], surand kadare's obso 3 7

2

5

```
CS= 12-2435625
ms=-22456
```

0

```
int cs = arr[0];
int ms = arr[0];
for(int i = 1; i < arr.length;i++) {</pre>
    if(cs < 0) {
        //new start
        cs = arr[i];
    else {
        //continue
        cs += arr[i];
    if(cs > ms) {
        ms = cs;
return ms;
```

-> ms

→)(S

-> msa –) (Sa 6 3 5 7 0 N for(int i = 1; i < arr.length;i++) {</pre> if(cs < 0) { //new start cs = arr[i]; cst = i: cet = i; mst = 2 2 3 3 5 6 else { //continue cs += arr[i]; cet = i; if(cs > ms) { ms = cs;mst = cst; met = cet: