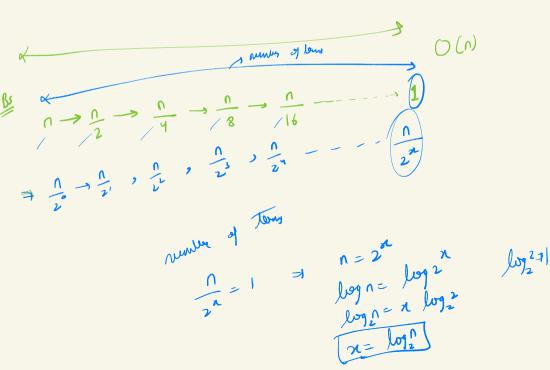


s 1, YY 21, 11, 12, 2, 1, 9, mid = 0+9 34 tor= 45 nul = 5+9 = 7 lic static int binarySearch(int[] arr, int tar){ int n=arr.length; int right=n-1; ml = 9+8 7 8 int mid=(left+right)/2; if(arr[mid]==tar){ 🌒 else if(arr[mid]<tar){{ right=mid-1;



letter 17 19

Ro = 17 18

Mid = 9 19 16 17

Lo = wid 11

Letter mid 11

Letter mi

9 7 1 - 0 1

bining = 3 + bining

= 001

0001

10001

J

n=17.

n= n/z

```
public static String decimalToBinary(int n){
    String binary="";

while(n>0){
    int rem=n%2;

    binary= rem + binary;
    n=n/2;
    return binary;
}
```

Ours from a binary String, change it to decimal number.

cp=16 cp=8 cp=4 cp=2 cp=1

2 2 2 2 + 2

2° +2' +2" +2" ++ 2 + 4+16= 23

CP= \$2 4 8 +6 32 ay = 8 + 3 9 23

```
public static int binaryToDecimal(String binary){
    int n=binary.length();
    int curr_pow=1;
    int ans=0;

    for(int i=n-1; i>=0; i--){
        char ch=binary.charAt(i);
        if(ch=='1'){
            ans=ans+curr_pow;
        }
        curr_pow=curr_pow*2;
    }
    return ans;
```