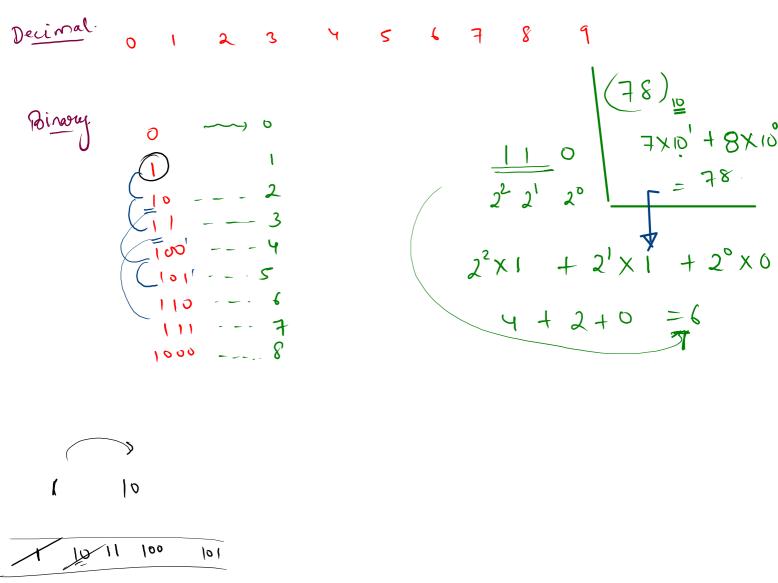
Queue. > add → remove

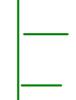
→ peek() → get front element:



Generate Binary Numbers □





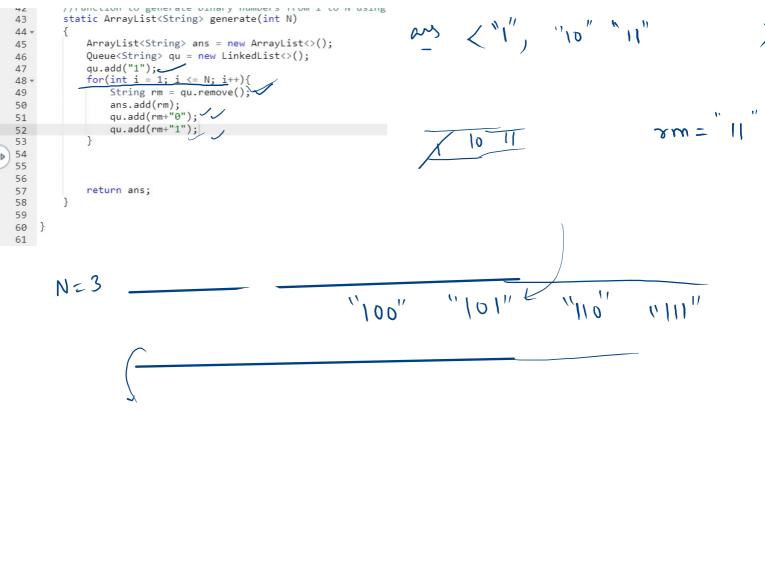




gene	rate Binary	Number. N=5	\ N
		,"	"III" "I coo!" "loo!" "lolo""[oil]
	rem =	1011	point N numbers N times. Loop (N times)
			>

110 111 1000 1001 1010 1011 1000 100 1001 rem mint print add 2 more 6/

N=5



First Negative Integer 2

Given an array A of size N and a positive integer K, find the first negative integer for each and every window(contiguous subarray) of size K.

N=5

N = 9

K = 3

Sample Input 0



10

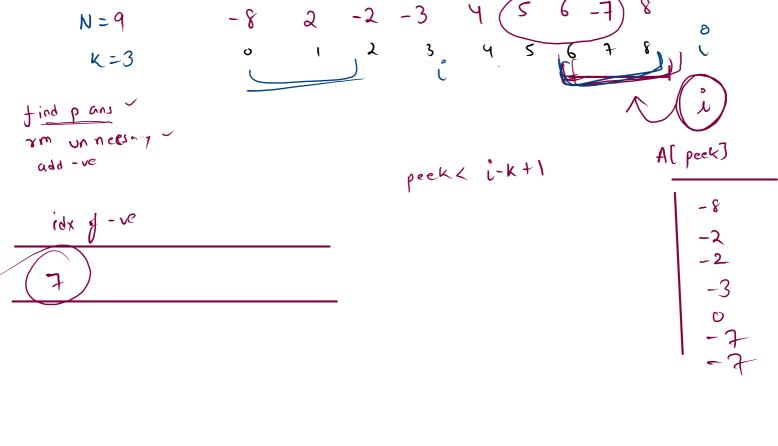
N-K+1

3

5-2+1=

5 2

-8 2 3 -6 10



2 -1 3

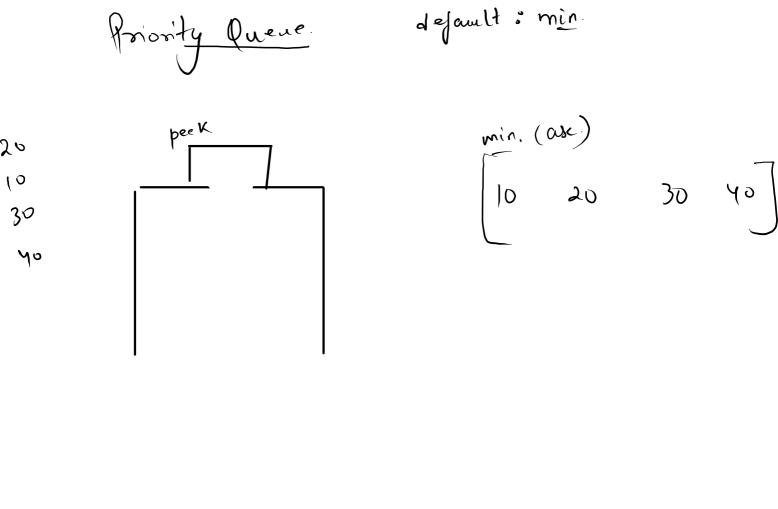
```
3 *public class Solution {
        public static void main(String[] args) {
            Scanner scn = new Scanner(System.in);
 5
            int n = scn.nextInt();
 6
7
            int k = scn.nextInt();
8 *
            int [] A = new int[n];
9 .
            for(int i = 0; i < n; i++){
                A[i] = scn.nextInt();
10 *
11
12
            //first k item
13
            Queue<Integer> qu = new LinkedList();
14
            int i = 0;
15 •
           while(i < k){
16 •
                if(A[i]<0){
17
                    qu.add(i);
18
19
                j++;
20
            //rest item 1. find p ans 2. rm unnece.. 3.add -ve
21
22 •
           while(i < n){
23
                //find p ans
24 •
                if(qu.size() == 0){
25
                    System.out.print(0 + " ");
26 ▼
                }else{
27 •
                    System.out.print(A[qu.peek()] + " ");
28
29
                //remove unnece..
                if(qu.size() != 0 && qu.peek() < i-k+1){
30 ▼
31
                    qu.remove();
32
```

1 vimport java.io.*;

2 import java.util.*;

```
32
33
                //add -ve
34 ▼
                if(A[i] < 0){
35
                    qu.add(i);
36
37
                j++;
38
39 ▼
            if(qu.size() == 0){
40
                System.out.print(0 + " ");
            }else{
41 ▼
42 ▼
                System.out.print(A[qu.peek()] + " ");
43
44
45 }
```

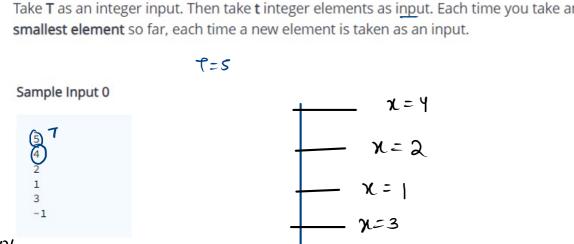
init
add
vernore
size
set

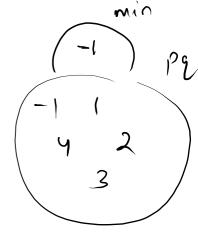


```
1 import java.util.PriorityQueue;
    import java.util.*;
    public class Main
 4 - {
        public static void main(String[] args) {
            PriorityQueue<Integer> pq = new PriorityQueue<>(); //min
            pq.add(7);
            pq.add(2);
            pq.add(1);
            pq.add(3);
            pq.add(9);
11
12
            System.out.println(pq.remove());
13
            System.out.println(pq.peek());
15
            System.out.println(pq.size());
17
```

Priority Queue Barris.

Take T as an integer input. Then take t integer elements as input. Each time you take an input. Print the





```
1 import java.io.*;
  import java.util.*;
   public class Solution {
 5
 6
       public static void main(String[] args) {
           Scanner scn = new Scanner(System.in);
 8
           int t = scn.nextInt();
           PriorityQueue<Integer> pq = new PriorityQueue();
                                                                 //min
10
11
           for(int i = 1; i \le t; i++){
12
               int x = scn.nextInt();
13
               pq.add(x);
14
               System.out.println(pq.peek());
15
       }
16
17 }
```