minimum digits

Given an array of digits (values are from 0 to 9), find the minimum possible sum of two numbers formed from digits of the array. All digits of the given array must be used to form the two numbers.

Any combination of digits may be used to form the two numbers to be summed. Leading zeroes are permitted.

If forming two numbers is **impossible** (i.e. when n==0) then the "sum" is the value of the only number that can be formed.

Sample Input 0

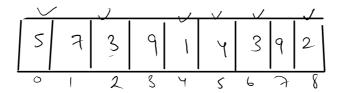
6 6 8 4 5 2 3 J

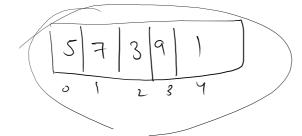
6 8 4 5 2 3

Sample Output 0

604

$$x \rightarrow 13479$$
 $y \rightarrow 2357$



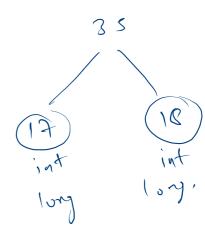


3 28

604

$$\chi = "246" \rightarrow int$$
 $\chi = "358" \rightarrow int$

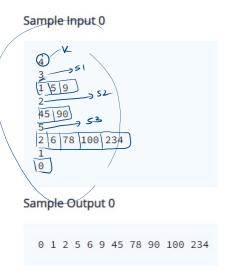
```
1 *import java.io.*;
   import java.util.*;
4 → public class Solution {
6 +
       public static void main(String[] args) {
7
            Scanner scn = new Scanner(System.in);
            int n = scn.nextInt();
 8
            PriorityQueue<Integer> pq = new PriorityQueue<>();
 9
10 +
            while (n-- > 0) {
                pq.add(scn.nextInt());
11
12
13
            String x = "";
14
            String y = "";
15
            int turn = 0;
16
17 •
            while(pq.size() != 0){
18 •
                if(turn == 0){
19
                    x += pq.remove();
20 *
                }else{
21
                    y += pq.remove();
22
23
                turn = 1 - turn;
24
                //turn++;
25
26
            long v1 = Long.parseLong(x);
27
            long v2 = Long.parseLong(y);
28
            System.out.println(v1 + v2);
29
30 }
```

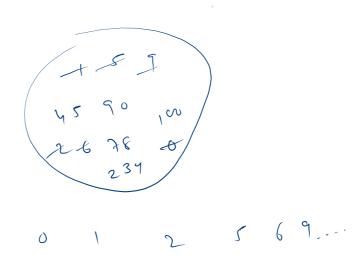


Merge K sorted arrays

Given <u>k</u> different arrays, which are sorted individually (in ascending order). You need to merge all the given arrays such that output array should be sorted (in ascending order).

Hint: Use Heaps.





```
2 import java.util.*;
                                                                4
 4 public class Solution {
                                                                1 5 9
                                                                2
 6
       public static void main(String[] args) {
                                                                45 90
 7
           Scanner scn = new Scanner(System.in);
 8
           PriorityQueue<Integer> pq = new PriorityQueue<>();
                                                                2 6 78 100 234
 9
           int k = scn.nextInt();
10
                                                                0
11
          while(k-- > 0){
12
               int n = scn.nextInt();
13
               while (n-- > 0) {
                   pq.add(scn.nextInt());
14
15
16
17
          while(pq.size() != 0){
               System.out.print(pq.remove() + " ");
18
19
20
21 }
```

1 import java.io.*;

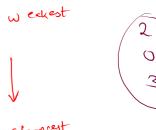
weakest rows

You are given an $m \times n$ binary matrix mat of 1's (representing soldiers) and 0's (representing civilians). The soldiers are positioned in front of the civilians. That is, all the 1's will appear to the left of all the 0's in each row.

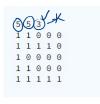
A row i is **weaker** than a row j if one of the following is true:

- The number of soldiers in row i is less than the number of soldiers in row j.
- \checkmark Both rows have the same number of soldiers and i < j .

Return the indices of the k weakest rows in the matrix ordered from weakest to strongest.



Sample Input 0

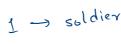




Sample Output 0

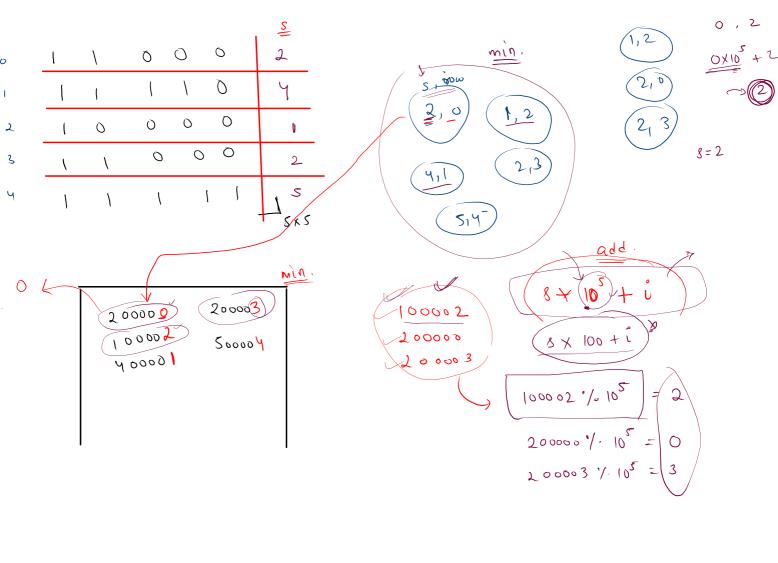


Constraints



0 -> civiliar

0 -> ((V) ((i					<u>s</u>
0	l	\	Q	0	0	2
1	1	((\	Q	4
2	l	0	0	0	O	V
ડ	\	\	0	0	0	2
4	1	1	1	,	1	J _{SxS}



```
4 public class Solution {
       public static void main(String[] args) {
           Scanner scn = new Scanner(System.in);
           int m = scn.nextInt();
          int n = scn.nextInt();
           int k = scn.nextInt();
           PriorityQueue<Integer> pq = new PriorityQueue<>();
          int [][] A = new int[m][n];
           for(int i = 0; i < m; i++){
               for(int j = 0; j < n; j++){
                   A[i][i] = scn.nextInt();
               }
           //add in pq after encoding
           for(int i = 0; i < m; i++){ //move in each row</pre>
               int s = 0;
               for(int j = 0; j < n; j++){
                   s += A[i][j];
               pq.add(s * 100000 + i);
          //remove k ele
          while(k-- > 0){
               int rem = pq.remove();
               System.out.print(rem % 100000 + " ");
32
33 }
```

6

8

9 10

11 12

13

14

15

16

17 18

19 20

21

22

23 24

25 26

27

28

29

30 31

subtract numbers 1

Problem Submissions Leaderboard Discussions = =

You are given a non-negative integer array **nums**. In one operation, you must:

- Choose a positive integer x such that x is less than or equal to the smallest non-zero element in nums.
- Subtract x from every **positive** element in **nums**.

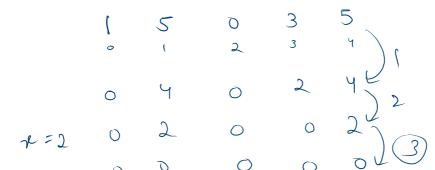
Return the **minimum** number of operations to make every element in **nums** equal to 0.

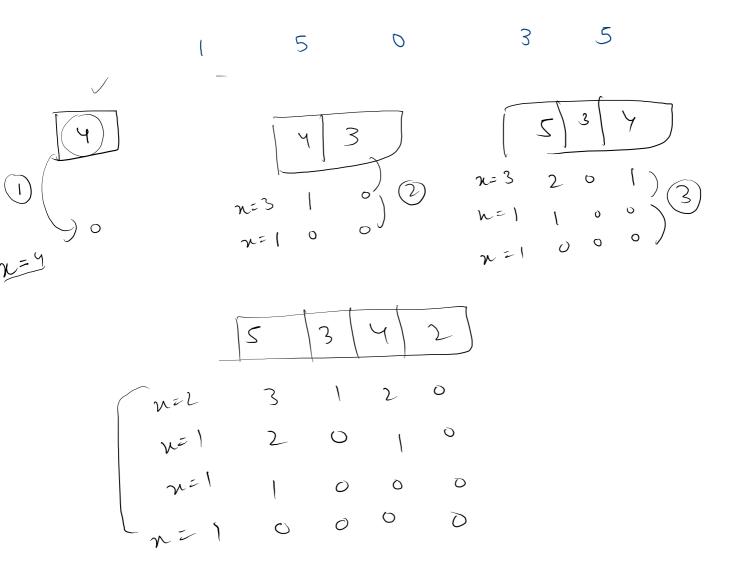
Sample Input 0

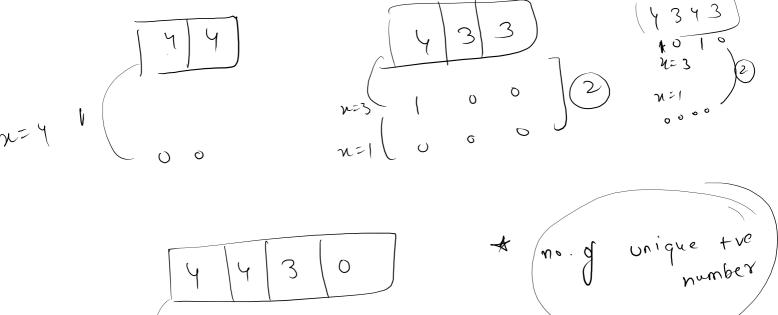
5 1 5 0 3 5

Sample Output 0









```
1 import java.io.*;
                                                  n=5
 2 import java.util.*;
 4 public class Solution {
                                                                      6
6
      public static void main(String[] args) {
          Scanner scn = new Scanner(System.in);
                                                                      0
          HashSet<Integer> hs = new HashSet<>();
9
          int n = scn.nextInt();
10
          while (n-- > 0) {
11
              int val = scn.nextInt();
12
              if(val > 0){
                                                                                                      6
13
                 hs.add(val);
                                                                                             σ
                                                                        0
14
15
16
          System.out.println(hs.size());
17
18 }
```