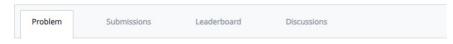
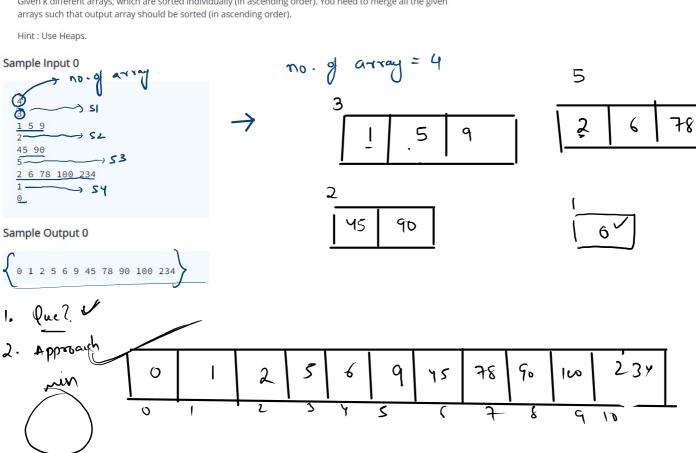
Merge K sorted arrays



Given k different arrays, which are sorted individually (in ascending order). You need to merge all the given



234

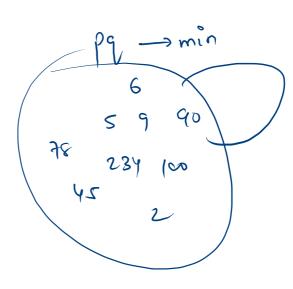
 (∞)

Sample Input 0

Sample Output 0

0 1 2 5 6 9 45 78 90 100 234

add.



```
1 vimport java.io.*;
   import java.util.*;
3
4 public class Solution {
5
6 v
        public static void main(String[] args) {
7
            Scanner scn = new Scanner(System.in);
8
            int t = scn.nextInt(); //number of array
9
            PriorityQueue<Integer> pq = new PriorityQueue<>();
            while(t-- > 0){
10 •
11
                int n = scn.nextInt(); //3
                while (n-- > 0) {
12 1
13
                    pq.add(scn.nextInt());
14
15
16 •
            while(pq.size() != 0){
                System.out.print(pq.remove() + " ");
17
18
19
20
```

21 }

```
1 vimport java.io.*;
   import java.util.*;
 4 *public class Solution {
 5
 6
        public static void main(String[] args) {
 7
            Scanner scn = new Scanner(System.in);
 8
            int t = scn.nextInt(); //number of array
            PriorityQueue<Integer> pq = new PriorityQueue<>();
 9
10
           for(int i = 0; i < t; i++){
                int n = scn.nextInt();
11
12
                for(int j = 0; j < n; j++){
13
                    pq.add(scn.nextInt());
14
15
            // while(t-- > 0){
16
17
                   int n = scn.nextInt(); //3
                  while(n-- > 0){
18
            11
19
           11
                       pq.add(scn.nextInt());
           11
20
21
           // }
22 1
           while(pq.size() != 0){
23
                System.out.print(pq.remove()
24
25
26
```

```
75 9 45
90 2 6 78
100 2 3 4
```

```
8izc=11 |=0
|0|=0
```

```
4

3

1 5 9

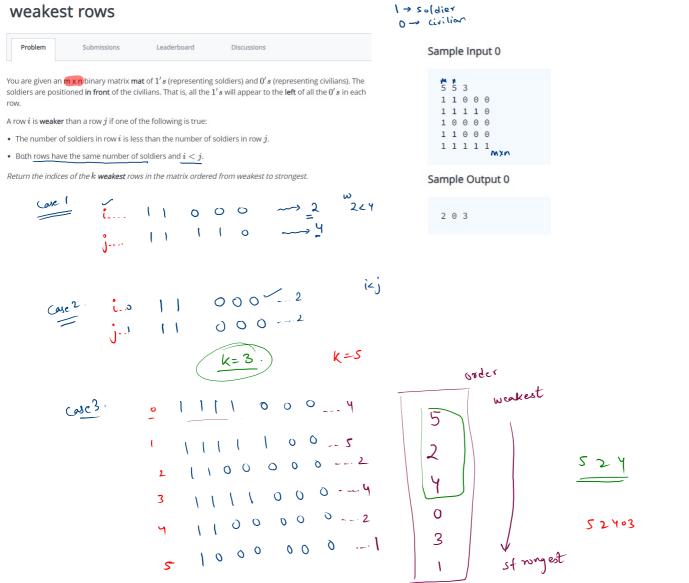
2

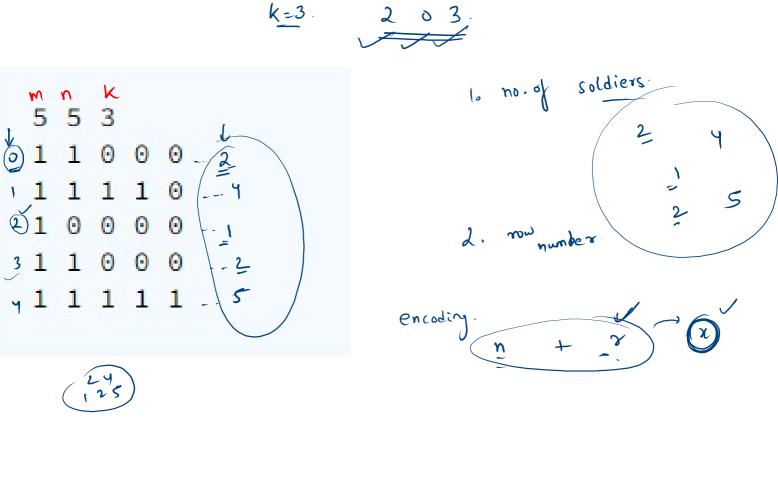
45 90

5

2 6 78 100 234

1
```





$$x = \frac{3 \times 10^{5} + i}{2}$$

$$\frac{2 \times 10^{5} + 0}{4 \times 10^{5} + 1}$$

$$\frac{3 \times 10^{5} + 0}{1 \times 10^{5} + 2}$$

5 5 3
$$\frac{1}{3}$$
 2 $\frac{1}{3}$ 3 $\frac{1}{3}$ 4 $\frac{1}{3}$ 1 1 0 0 0 -- 2 $\frac{1}{3}$ 1 1 0 0 0 -- 2 $\frac{1}{3}$ 2 $\frac{1}{3}$ 1 1 0 0 0 -- 2 $\frac{1}{3}$ 2 $\frac{1}{3}$ 3 1 1 0 0 0 -- 2 $\frac{1}{3}$ 3 1 1 0 0 0 -- 2

71 1 1 1 1

$$2 \times 10^{5} + 0$$
 $4 \times 10^{5} + 1$
 $1 \times 10^{5} + 2$
 $2 \times 10^{5} + 3$

Min

20000

10000 F

5 0000 Y

$$100002 \% 10^{5} = ? (2).$$
 $200003 \% 10^{5} = (0)$
 $200003 \% 10^{5} = (3)$

~ % y

$$\chi = 3 \times 100 + 1$$

$$\frac{1}{2}$$

$$\frac{1}{3}$$

$$\frac{1}{3$$

```
3 *public class Solution {
        public static void main(String[] args) {
 5
            Scanner scn = new Scanner(System.in);
            int m = scn.nextInt();
 6
 7
            int n = scn.nextInt();
 8
            int k = scn.nextInt();
 9 .
            int [][] A = new int[m][n];
            for(int i = 0; i < m; i++){
10 *
11 +
                for(int j = 0; j < n; j++){
12 •
                    A[i][j] = scn.nextInt();
13
14
15
            //logic
            PriorityQueue<Integer> pq = new PriorityQueue();
16
17 v
            for(int i = 0; i < m; i++){
                int sum = 0;
18
19 •
                for(int j = 0; j < n; j++){
20 *
                    sum += A[i][j];
21
22
                int x = sum * 100000 + i;
23
                pq.add(x);
24
25 ▼
            for(int i = 0; i < k; i++){
                System.out.print(pq.remove() % 100000 + " ");
26
27
28
29 }
```

1 vimport java.io.*;
2 import java.util.*;

```
30000
100001% 105
```

Reduce Array Size to the half 1

