

1337. The K Weakest Rows in a Matrix

Easy 🖒 3346 🗘 202 ♡ Add to List [☐ Share

You are given an <u>m x n binary</u> 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 is weaker than a row j if one of the following is true:

- \bullet The number of soldiers in row $\, \mathtt{i} \,$ is less than the number of soldiers in row $\, \mathtt{j} \, .$
- Both rows have the same number of soldiers and $\, {\tt i} \, < \, {\tt j} \, .$

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

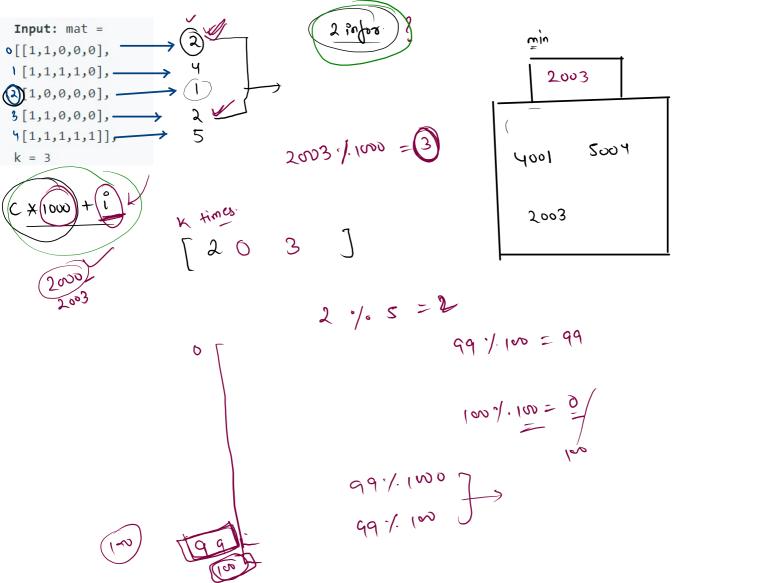
Example 1:

- Row 4: 5

```
Example 2:
 Input: mat =
0[[1,1,0,0,0],
                                                    Input: mat =
                                                   [1,0,0,0], ____]
[1,1,1,1,0],
γ [1,0,0,0,0],
                                                    f1,0,0,01,
2 [1,1,0,0,0],
                                                     [1,0,0,0]],
ч [1,1,1,1,1]],
 k = 3
                                                    Output: [0,2]
                                                    Explanation:
 Output: [2,0,3]
                                                    The number of soldiers in each row is:
 Explanation:
                                                    - Row 0: 1
 The number of soldiers in each row is:
                                                    - Row 1: 4
                                                    - Row 2: 1
 - Row 0: 2
                                                    - Row 3: 1
 - Row 1: 4
                                                    The rows ordered from weakest to strongest are [0,2,3,1].
 - Row 2: 1
 - Row 3: 2
```

The rows ordered from weakest to strongest are [2,0,3,1,4].

1st

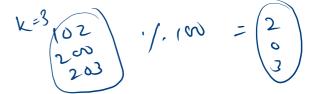


Example 1:

```
(=5
500+ 4
```



```
1 +
      class Solution {
          public int[] kWeakestRows(int[][] mat, int k) {
              PriorityQueue<Integer> pq = new PriorityQueue<>(); //min
 4
              for(int i = 0; i < mat.length; i++){
 5 *
 6
                  int count = 0;
                for(int j = 0; j < mat[0].length; j++){
 7 +
 8
                      count += mat[i][j];
 9
10
                  pq.add(count*10
11
12
13
              int [] ans = new int[k];
14 +
              for(int i = 0; i < k; i++){
                  ans[i] = pq.remove() % 100;
15
16
17
              // int idx = 0;
18
              // while(k-- > 0){
19
                     ans[idx++] = pq.remove() % 100;
20
              // }
21
              return ans;
22
23
```



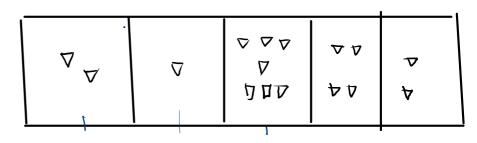
maximum diamonds

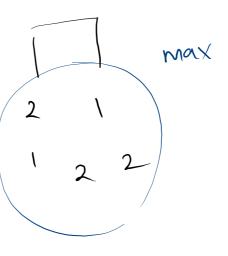
K→ min n-size

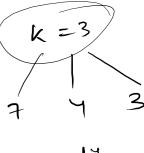


Sample Output 0









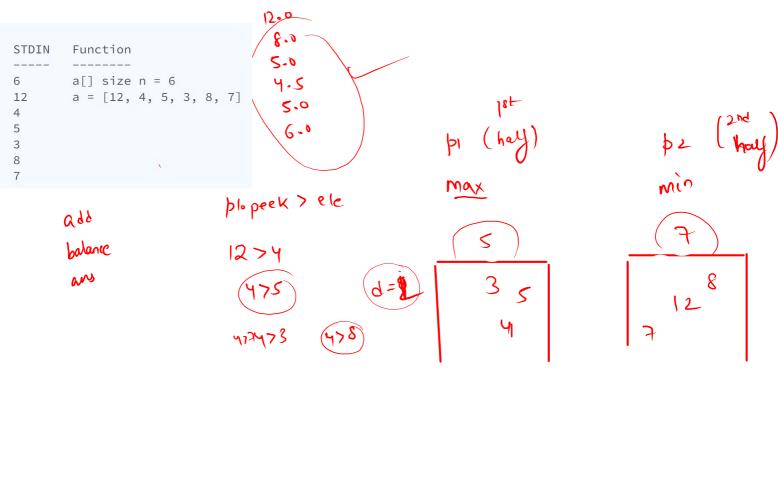
```
4 ▼ public class Solution {
        public static void main(String[] args) {
           Scanner scn = new Scanner(System.in);
            int n = scn.nextInt();
            int k = scn.nextInt();
            PriorityQueue<Integer> pq = new PriorityQueue<>((a,b)->{
12
                 return b-a;
13
            });
            for(int i = 0; i < n; i++){
                pq.add(scn.nextInt());
            int ans = 0;
            for(int i = 0; i < k; i++){
19
                int rem = pq.remove();
                ans += rem;
21
                pq.add(rem/2);
22
23
            System.out.println(ans);
24
25
```

import java.io.*;
import java.util.*;

add balance tind 12.0 12 Function STDIN a[] size n = 6a = [12, 4, 5, 3, 8, 7]12

Median.

Find the running



Find The Index of Rotation

5 1 2 3 4

3

find max in notated sosted

find index of mex in notated souted array

(5) find index of min
in notated sorted
array
(6) find no-of notation

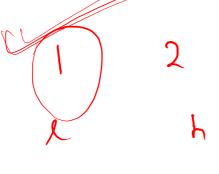
find min in notated sosted

mid = 2

unsorted region.

A(1) = A[m]

A[L] = A[m] Unsorted



A(1] = A(m)

M

$$\frac{2}{m(x)}$$

 $A(1) \leq A(m)$ $A(1) \leq A(m)$ $A(1) \leq A(m)$

$$ax = 46$$

$$index = -1/2$$

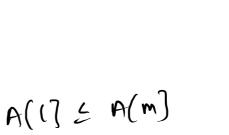
$$h$$













danzer

danzer

find last

occu