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Java ▾   Autocomplete

1337. The K Weakest Rows in a Matrix

Easy   👍 1853   👎 100   ♡ Add to List   ⬈ Share

You are given an `m x 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`.
- 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.*

Example 1:

```
Input: mat =
[[1,1,0,0,0],
 [1,1,1,1,0],
 [1,0,0,0,0],
 [1,1,0,0,0],
 [1,1,1,1,1]],
k = 3
Output: [2,0,3]
Explanation:
The number of soldiers in each row is:
- Row 0: 2
- Row 1: 4
- Row 2: 1
- Row 3: 2
- Row 4: 5
The rows ordered from weakest to strongest are [2,0,3,1,4].
```

Example 2:

```
Input: mat =
[[1,0,0,0],
 [1,1,1,1],
 [1,0,0,0],
```

```java
class Solution {
    public int[] kWeakestRows( int[][] mat, int k ) {

        int[][] helperArray = new int[mat.length][2];

        int m = mat.length;
        int n = mat[0].length;

        for (int i = 0; i < m; i++) {

            int numberOfSolider = 0;

            for (int j = 0; j < n; j++) {
                if (mat[i][j] == 1)
                    numberOfSolider++;
            }

            helperArray[i][0] = i;
            helperArray[i][1] = numberOfSolider;
        }

        Arrays.sort(helperArray,
                ( a, b ) -> a[1] == b[1] ? a[0] - b[0] : a[1] - b[1]);

        int[] result = new int[k];

        for (int i = 0; i < k; i++) {
            result[i] = helperArray[i][0];
        }

        return result;
```

Testcase | Run Code Result | Debugger 🔒   ▾

Accepted   Runtime: 0 ms   ⓘ

Your input   `[[1,1,0,0,0],[1,1,1,1,0],[1,0,0,0,0],[1,1,0,0,0],[1,1,1,1,1]]`
             `3`

Output   `[2,0,3]`   □ Diff

Expected   `[2,0,3]`

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