

There is a class with  $m$  students and  $n$  exams. You are given a **0-indexed**  $m \times n$  integer matrix `score`, where each row represents one student and `score[i][j]` denotes the score the  $i^{\text{th}}$  student got in the  $j^{\text{th}}$  exam. The matrix `score` contains **distinct** integers only.

You are also given an integer  $k$ . Sort the students (i.e., the rows of the matrix) by their scores in the  $k^{\text{th}}$  (**0-indexed**) exam from the highest to the lowest.

Return *the matrix after sorting it*.

### Example 1:

|                | E <sub>0</sub> | E <sub>1</sub> | E <sub>2</sub> | E <sub>3</sub> |   | E <sub>0</sub> | E <sub>1</sub> | E <sub>2</sub> | E <sub>3</sub> |    |
|----------------|----------------|----------------|----------------|----------------|---|----------------|----------------|----------------|----------------|----|
| S <sub>0</sub> | 10             | 6              | 9              | 1              | → | S <sub>1</sub> | 7              | 5              | 11             | 2  |
| S <sub>1</sub> | 7              | 5              | 11             | 2              |   | S <sub>0</sub> | 10             | 6              | 9              | 1  |
| S <sub>2</sub> | 4              | 8              | 3              | 15             |   | S <sub>2</sub> | 4              | 8              | 3              | 15 |

**Input:** `score = [[10,6,9,1],[7,5,11,2],[4,8,3,15]]`,  $k = 2$

**Output:** `[[7,5,11,2],[10,6,9,1],[4,8,3,15]]`

**Explanation:** In the above diagram,  $S$  denotes the student, while  $E$  denotes the exam.

- The student with index 1 scored 11 in exam 2, which is the highest score, so they got first place.
- The student with index 0 scored 9 in exam 2, which is the second highest score, so they got second place.
- The student with index 2 scored 3 in exam 2, which is the lowest score, so they got third place.

### Example 2:

|                | E <sub>0</sub> | E <sub>1</sub> |   |                | E <sub>0</sub> | E <sub>1</sub> |
|----------------|----------------|----------------|---|----------------|----------------|----------------|
| S <sub>0</sub> | 3              | 4              | → | S <sub>1</sub> | 5              | 6              |
| S <sub>1</sub> | 5              | 6              |   | S <sub>0</sub> | 3              | 4              |

**Input:** `score = [[3,4],[5,6]]`,  $k = 0$

**Output:** `[[5,6],[3,4]]`

**Explanation:** In the above diagram,  $S$  denotes the student, while  $E$  denotes the exam.

- The student with index 1 scored 5 in exam 0, which is the highest score, so they got first place.
- The student with index 0 scored 3 in exam 0, which is the lowest score, so they got second place.

### Constraints:

- $m == \text{score.length}$
- $n == \text{score}[i].\text{length}$
- $1 \leq m, n \leq 250$
- $1 \leq \text{score}[i][j] \leq 10^5$
- `score` consists of **distinct** integers.
- $0 \leq k < n$

