

# Athlete Sort



You are given a spreadsheet that contains a list of  $N$  athletes and their details (such as age, height, weight and so on). You are required to sort the data based on the  $K^{\text{th}}$  attribute and print the final resulting table. Follow the example given below for better understanding.

Rank	Age	Height (in cm)		Rank	Age	Height (in cm)
1	32	190	sort based on $k=1$ i.e (age) →	5	24	176
2	35	175		4	26	195
3	41	188		1	32	190
4	26	195		2	35	175
5	24	176		3	41	188

Note that  $K$  is indexed from  $0$  to  $M - 1$ , where  $M$  is the number of attributes.

**Note:** If two attributes are the same for different rows, for example, if two athletes are of the same age, print the row that appeared first in the input.

## Input Format

The first line contains  $N$  and  $M$  separated by a space.

The next  $N$  lines each contain  $M$  elements.

The last line contains  $K$ .

## Constraints

$$1 \leq N, M \leq 1000$$

$$0 \leq K < M$$

$$\text{Each element} \leq 1000$$

## Output Format

Print the  $N$  lines of the sorted table. Each line should contain the space separated elements. Check the sample below for clarity.

## Sample Input 0

```
5 3
10 2 5
7 1 0
9 9 9
1 23 12
6 5 9
1
```

## Sample Output 0

```
7 1 0
10 2 5
6 5 9
9 9 9
1 23 12
```

## Explanation 0

The details are sorted based on the second attribute, since  $K$  is zero-indexed.