

# Sort Data



You are given data in a tabular format. The data contains  $N$  rows, and each row contains  $M$  space separated elements.

You can imagine the  $M$  items to be different attributes, (like height, weight, energy, etc.) and each of the  $N$  rows as an instance or a sample.

Your task is to sort the table on the  $K^{\text{th}}$  attribute and print the final resulting table.

**Note:** If two attributes are the same for different rows, 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

$1 \leq N, M \leq 1000$   
 $0 \leq K < M$   
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

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

## Sample Output

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

## Explanation

The table is sorted on the second attribute shown as  $K = 1$  because it's 0-indexed.