Athlete Sort

72/115 challenges solved

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Problem Submissions Leaderboard Editorial

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^{th} attribute and print the final resulting table. Follow the example given below for better understanding.

Rank	Age	Height (in cm)
1	32	190
2	35	175
3	41	188
4	26	195
5	24	176

sort based on k=1 → i.e (age)

Rank	Age	Height (in cm)
5	24	176
4	26	195
1	32	190
2	35	175
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 atheletes 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

$1 \leq N, M \leq 1000$

$0 \leq K < M$

Each element ≤ 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.

Change Theme Language Python 3

```
#!/bin/python3

import math
import os
import random
import re
import sys



if __name__ == '__main__':
    nm = input().split()

    n = int(nm[0])

    m = int(nm[1])

    arr = []

    for _ in range(n):
        arr.append(list(map(int, input().rstrip().split())))

    k = int(input())

    arr = sorted(arr, key=lambda x: x[k])
    for i in arr:
        print(*i)

```

EMACS Line: 28 Col: 1

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72/115 challenges solved.

63%

Congratulations

You solved this challenge. Would you like to challenge your friends?

Next Challenge

Test case 0

Test case 1

Compiler Message

```
Success
```

Input (stdin) Download

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

Expected Output Download