



Утегенов Батырхан Елембетұлы [ADS-Lab-03]: Submit a solution

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## Submit a solution for A-Snake

Time limit: 1 s

Real time limit: 5 s

Memory limit: 256M

### Problem A: Snake

Write a program that outputs the coordinates of elements from a array of size  $n \times m$ , which is filled like snake. Snake array - which is filled in like this:

- For all  $j$  and  $k$  ( $j < k$ ):  $a_{ij} > a_{(i+1)j}$ .
- If  $i$  is even then, for all  $j$  and  $k$  ( $j < k$ ):  $a_{ij} > a_{ik}$ .
- If  $i$  is odd then, for all  $j$  and  $k$  ( $j < k$ ):  $a_{ij} < a_{ik}$ .

Here is an example of  $3 \times 4$  Snake array

25 23 20 19

13 15 17 18

12 10 9 8

### Input format

The first line of input contains a single number  $t$  - the number of elements which you must find.  $1 \leq t \leq 10000$

The next line contains  $t$  integers - the values of the elements that you need print their coordinates.

The next line of input contains 2 space-separated integers,  $n$  and  $m$ , the number of rows and the columns.  $1 \leq n, m \leq 800$

The next  $n$  lines contain  $m$  integers. Snake array  $n \times m$ ,  $-10^7 \leq a_{ij} \leq 10^7$  for each  $0 \leq i \leq n, 0 \leq j \leq m$

### Output format

Print  $k$  lines the answer with coordinates for each case. If the given element is not in the snake array, then print -1.

### Examples

#### Input

```
5
10 15 13 8 23
3 4
25 23 20 19
13 15 17 18
12 10 9 8
```

#### Output

```
2 1
1 1
1 0
2 3
0 1
```

#### Input

```
8
1 7 17 12 6 15 18 20
5 5
25 24 23 22 21
16 17 18 19 20
15 14 13 12 11
6 7 8 9 10
5 4 3 2 1
```

Output

```
4 4
3 1
1 1
2 3
3 0
2 0
1 2
1 4
```

Input

```
4
-2 7 8 4
2 3
9 8 5
-1 3 4
```

Output

```
-1
-1
0 1
1 2
```

Notes

In the third example, the elements -2 and 7 is do not exist. Therefore, you should print -1.

Submit a solution

Language: g++ - GNU C++ 11.4.0

File Choose File No file chosen

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Previous submissions of this problem

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- A
- B
- C
- D
- E
- F
- G
- H
- I
- J
- K

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