Variable Sized Arrays

You are given N integer sequences and Q queries. Each query is in the following format: "a b" where a denotes the index of the sequence, and b denotes the index of the element in that sequence. Your task is to find the value of the element described in each query.

Input Format

The first line consists of N and Q separated by a space.

The following N lines contain sequences in this format: " $k \ s_0 \ s_1 \ s_2 \dots s_{k-1}$ "

The following Q lines contain gueries in this format: " $a\ b$ ".

Constraints

```
1 \leq N \leq 10^5 1 \leq Q \leq 10^5 1 \leq Vk \leq 3.10^5 1 \leq V \leq 3.10^5 0 \leq s_i \leq 10^6 0 \leq Va < N 0 \leq Vb < size of the sequence
```

Output Format

Output Q lines, the $i^{
m th}$ line contains the answer of the $i^{
m th}$ query.

Sample Input

```
2 2
3 1 5 4
5 1 2 8 9 3
0 1
1 3
```

Sample Output

```
5
9
```

Explanation

For the first query, the sequence is [1,5,4]. Hence, the answer is 5.

For the second query, the sequence is [1, 2, 8, 9, 3]. Hence, the answer is 9.

Please note that the problem uses 0-based indexing