# Ada and Database

Ada the Ladybug has inserted all data from her TODO-list into the database. The database is represented as multidimensional structure with direct indexing. Your task is simple - read the database and tell Ada the data on given indices!

#### Input

There will be multiple test-cases.

The first line of each test-case contains **n** integers  $1 \le D_i \le 10^5$ , indicating the size of each dimense. **n** will be between **2** and **10**. Their product won't exceed  $10^6$ 

Each of following  $D_1 \times D_2 \times ... \times D_{n-1}$  lines contains  $D_n$  integers (where  $D_n$  is size of last dimension), all between 0 and  $10^{18}$ .

Last line of each test-case contains 0 to 5 queries. Each query consists of **n** integers  $A_1, \dots, A_n$ , where  $1 \le A_i \le D_i$  (note that array is one-indexed).

Input file will have at most **2\*10<sup>6</sup>** integers. There won't be any other lines than those described above.

**NOTE:** If you are not confident about what number is on index  $[A_1][A_2]...[A_n]$ , imagine input as  $D_1$  blocks of  $D_2$  blocks of  $D_3$  blocks of ... of  $D_n$  integers.

#### Output

For each query, output integer on indices  $[A_1][A_2]...[A_n]$  on a single line. After each test-case, output line with as many hashes ('#'), as the number of test-case (beginning with 1)

## **Example Input**

### **Example Output**

- 2 3 4 # 1
- ##
- 1 6
- ###