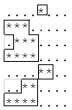
## 2. Blob Top

Program Name: BlobTop.java Input File: blobtop.dat

James is studying different shapes in a plane. For this particular study, he refers to the shapes as "blobs" because they are irregularly shaped solid polygons. He represents his blobs in a rectangular grid as a collection of one or more contiguous asterisks (\*). Contiguous means that the asterisks must be adjacent either horizontally or vertically. Characters in the grid that are not part of a blob are represented by periods (.). In the diagram below, there are 4 blobs.



You are to write a program that, will determine the location of the uppermost, leftmost character of a blob given the coordinates of a given character in the grid. The uppermost, leftmost character of the largest blob in the example above is row 2, column 1 or 2 1.

#### Input

The first line of input will contain a single integer n that indicates the number of data sets to follow. For each data set:

- the first line will contain three integers in the form r c s which meet the following criteria:
  - o  $r \ge 3$  is the number of rows in the grid
  - o  $c \ge 3$  is the number of columns in the grid
  - o s > 1 is the number of test cases for that grid
- the next r lines will contain the grid.
- the next s lines will each contain an ordered pair x y,  $1 \le x \le r$  and  $1 \le y \le c$ , which is the location of a character in the grid.

#### Output

For each test case, you will print the coordinates of the upper, leftmost character of the blob in the form  $j \not k$  where  $1 \le j \le r$  and  $1 \le k \le c$ . If the test case falls on a square that is not part of a blob, print NOT A BLOB,

#### **Example Input File**

# 2. Blob Top (cont.)

### **Example Output to Screen**

2 1 NOT A BLOB 2 1

1 7 1 7