

## C. Drawings Lines

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Time Limit – 1 seconds

Mr. X teaches in a school. One day in class he found a 1D segment which is  $n$  length long. There are  $m$  in the class. He will take an exam using this segment.

He calls them to draw a line in that segment. Every student draw a line from  $X_i$  to  $Y_i$  ( $1 \leq i \leq m$ ).

Now he will ask them  $q$  question. Each question he tells them a point  $X$  & asks them how many lines are on that point.

### **Input :**

First line contain test case  $T$  ( $T \leq 10$ ).

Second line  $n$  ( $2 \leq n \leq 100000$ ) &  $m$  ( $1 \leq m \leq 100000$ ).

Next  $m$  lines  $X_i$  &  $Y_i$  ( $1 \leq i \leq m$ ,  $1 \leq X_i < Y_i$ ,  $1 < Y_i \leq n$ )

Next line Query  $q$  ( $1 \leq q \leq 100000$ ).

Next  $q$  line contains a point  $X$  ( $1 \leq X \leq n$ ).

### **Output:**

For each test case print the case number then for each question print how many lines are on that point.

Sample Input	Sample Output
2	Case 1:
5 2	1
1 2	0
3 4	Case 2:
2	2
1	
5	
5 2	
1 2	
2 4	
1	
2	