## Problem I. It's All In The Mind

Input file: standard input
Output file: standard output
Time limit: 1 second
Memory limit: $\quad 64$ mebibytes
Professor Zhang has a number sequence $a_{1}, a_{2}, \ldots, a_{n}$. However, the sequence is not complete and some elements are missing. Fortunately, Professor Zhang remembers some attributes of the sequence:

- For every $i \in\{1,2, \ldots, n\}, 0 \leq a_{i} \leq 100$.
- The sequence is non-increasing: $a_{1} \geq a_{2} \geq \ldots \geq a_{n}$.
- The sum of all elements in the sequence is not zero.

Professor Zhang wants to know the maximum value of $\frac{a_{1}+a_{2}}{\sum_{i=1}^{n} a_{i}}$ among all the possible sequences.

## Input

There are multiple test cases. The first line of input contains an integer $T$ indicating the number of test cases. For each test case:
The first line contains two integers $n$ and $m(2 \leq n \leq 100,0 \leq m \leq n)$ : the length of the sequence and the number of known elements.
Each of the next $m$ lines contains two integers $x_{i}$ and $y_{i}\left(1 \leq x_{i} \leq n, 0 \leq y_{i} \leq 100, x_{i}<x_{i+1}, y_{i} \geq y_{i+1}\right)$ indicating that $a_{x_{i}}=y_{i}$.
There are at most 2000 test cases, and the total size of the input is no more than 350 kibibytes.

## Output

For each test case, output the answer as an irreducible fraction $p / q$ where $p$ and $q$ are integers, and $q>0$.

## Example

|  | standard input | standard output |  |
| :--- | :--- | :--- | :--- |
| 2 |  | $1 / 1$ |  |
| 2 | 0 |  | $200 / 201$ |
| 3 | 1 | 1 |  |
|  |  |  |  |

