## Problem D. Clique

| Input file: | standard input |
| :--- | :--- |
| Output file: | standard output |
| Time limit: | 25 seconds |
| Memory limit: | 512 mebibytes |

Consider a circle divided into $10^{6}$ arcs numbered clockwise from 1 to $10^{6}$. Moreover, there are $n$ segments on the circle, each spanning a connected interval of arcs.
Find the size of the largest set of segments such that every two share at least one common arc.

## Input

The first line of input contains the number of test cases $z$. The descriptions of the test cases follow.
The first line of each test case contains the number of segments $n(1 \leq n \leq 3000)$. The following $n$ lines contain two integers $l_{i}$ and $r_{i}\left(1 \leq l_{i}, r_{i} \leq 10^{6}\right)$ - the first and last arc of the $i$-th segment if we traverse the circle clockwise. No segment contains the entire circle, and no two segments coincide.
The sum of $n$ over all test cases does not exceed 24000 .

## Output

For each test case, output a single line containing a single integer - the size of the largest set of segments such that every two of them intersect.

## Example

|  | standard input |  | standard output |
| :--- | :--- | :--- | :--- |
| 1 |  | 3 |  |
| 4 | 4 |  |  |
| 4 | 5 |  |  |
| 5 | 2 | 3 |  |

