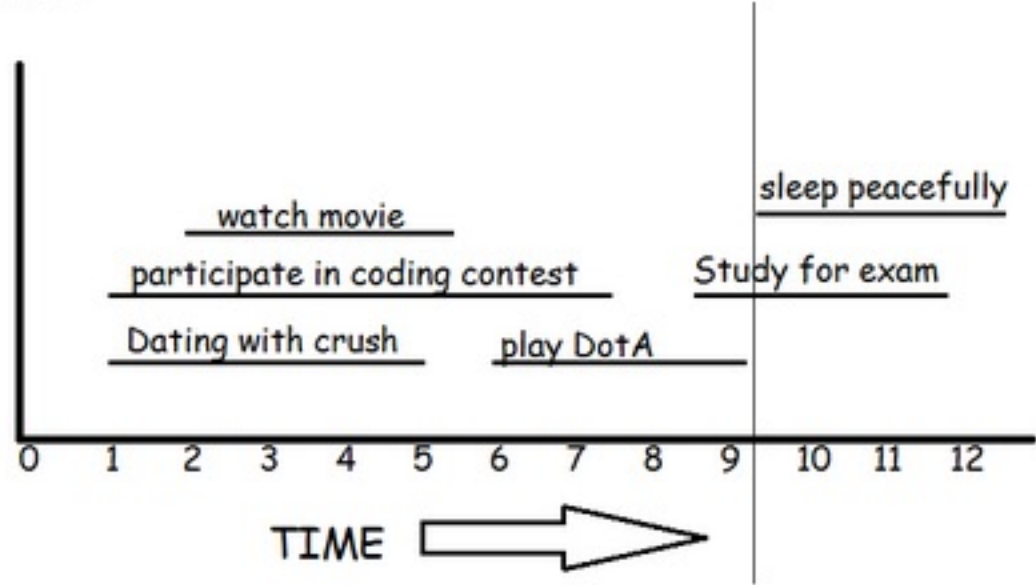


Dwigo is a very busy man. he has a big schedule of activities. Your aim is to do make him do as much activities as possible.



In the given figure, if dwigo go to date with crush, dwigo cannot participate in the coding contest and dwigo can't watch the movie. Also if dwigo play DotA, dwigo can't study for the exam. If dwigo study for the exam dwigo can't sleep peacefully. The maximum number of activities that you can do for this schedule is 3.

Either you can

watch movie, play DotA and sleep peacefully (or) date with crush, play DotA and sleep peacefully

Input Format

The first line consists of an integer T, the number of test cases. For each test case the first line consists of an integer N, the number of activities. Then the next N lines contains two integers m and n, the start and end time of each activity.

Constraints

1 <= T <=10 1 <= N <= 100000 0 <= start < end <= 1000000

Output Format

For each test case find the maximum number of activities that you can do.

Sample Input 0

```
3
5
66 92
22 56
82 96
29 38
33 62
5
66 85
2 20
18 88
35 37
19 77
5
21 77
67 68
78 87
34 82
20 31
```

Sample Output 0

```
2
3
3
```

Explanation 0

izi lah ya :)