Problem AD. AC

Time limit 1000 ms
Mem limit 262144 kB

In the game show "Ten Words of Wisdom", there are n participants numbered from 1 to n, each of whom submits one response. The i-th response is a_i words long and has quality b_i. No two responses have the same quality, and at least one response has length at most 10.

The winner of the show is the response which has the highest quality out of all responses that are not longer than 10 words. Which response is the winner?

Input

The first line contains a single integer t ($1 \le t \le 100$) — the number of test cases.

The first line of each test case contains a single integer n ($1 \le n \le 50$) — the number of responses.

Then n lines follow, the i-th of which contains two integers a_i and b_i ($1 \le a_i, b_i \le 50$) — the number of words and the quality of the i-th response, respectively.

Additional constraints on the input: in each test case, at least one value of i satisfies $a_i \le 10$, and all values of b_i are distinct.

Output

For each test case, output a single line containing one integer x ($1 \le x \le n$) — the winner of the show, according to the rules given in the statement.

It can be shown that, according to the constraints in the statement, exactly one winner exists for each test case.

Examples

Input	Output
3 5 7 2 12 5 9 3 9 4 10 1 3 1 2 3 4 5 6 1 1 43	4 3 1

Note

In the first test case, the responses provided are as follows:

- Response 1: 7 words, quality 2
- Response 2: 12 words, quality 5
- Response 3: 9 words, quality 3
- Response 4: 9 words, quality 4
- Response 5: 10 words, quality 1

We can see that the responses with indices 1, 3, 4, and 5 have lengths not exceeding 10 words. Out of these responses, the winner is the one with the highest quality.

Comparing the qualities, we find that:

- Response 1 has quality 2.
- Response 3 has quality 3.
- Response 4 has quality 4.
- Response 5 has quality 1.

Among these responses, Response 4 has the highest quality.