Problem D

Negative People in Da House (Easy)

The following math joke is presented for your amusement: Two mathematicians sit in a car outside a house. Two people enter the house. Then, three people are observed going out of the house. One of the mathematicians exclaim: If one person is to enter now, the house will be empty!

Since you have very little sense of humor, you are to write a program that will calculate the minimum number of people there must have been there to begin with. In other words, given a sequence of groups of people leaving and entering the house, output the minimum number of people there must have been **before you started stalking**. After writing this program, your mathematician friend will leave you, as well as their math department, to start a company specializing in joke-telling and stalking.

Input specifications

The first line of the input consists of a single integer T, the number of test cases. Each of the following T cases has two parts: First, a line containing a single integer M. Then follows M lines with two integers P_1 and P_2 separated by a space, where the first one contains the number of people entering the house, then the number of people leaving the house. Note that these are two events: *First*, P_1 people enter the house, *then* P_2 people leave the house.

Output specifications

Output the minimum number of people that would have to have been inside the house at the beginning.

Notes and Constraints

- $0 < T \leq 50$
- $0 < M \leq 100$
- $0 \leq P_1, P_2 \leq 1000$

Sample input

```
1
3
3 5
3 4
1 0
```

Output for sample input

```
3
```