


Assignment Case	
CH1 Var2	
Periode Berlaku Semester Ganjil 2022/2023 Valid on Odd Year 2022/2023	Software Laboratory Center Assistant Recruitment 23-1

Soal

Case

Valentine's Chocolate

A teacher decided to give her students some chocolates in Valentine's Day. She already has Y chairs in her class. **Determine the minimum number of new chocolates the teacher must buy** so that every student is able to get one chocolate, and **a chocolate for the teacher for a spare.**

Input

The program will ask for some input:

- First line will contain T - number of test cases. Then the test cases follow.
- The first and only line of each test case contains three integers X and Y – the number of current chocolates and the number of students.

Constraint

$$1 \leq X, Y \leq 10000$$

Output

For each test case, output the minimum number of extra chocolates the teacher must buy so that every student is able to get one chocolate, and a chocolate for the teacher to spare.

Example

Input	Output
3	12
12 23	0
23 12	7
4 10	