Problem 87: Phantom of the Opera

Time limit: 1s

There's a friendly phantom living at the opera house. He likes to throw parties every weekend. His parties are very popular and lots of people line up at the door to get in.

To make the parties more fun, the phantom buys some masks and hands one mask to each guest entering the party. When the masks run out, the phantom shuts the door and refuses to let anyone else enter. To cheer up the people that could not enter the party, the phantom gives each of them a rose and sends them home. The phantom asked you to help him hand out the roses.

Given the number of people waiting outside the opera, and the number of masks the phantom has available, calculate the number roses you need to hand out.

Input

The first line contains an integer t ($1 \le t \le 10^4$) — the number of test cases. Each test case is represented as one line containing 2 integers n ($0 \le n \le 1000$) — the number of people waiting outside the opera, and m ($0 \le m \le 1000$) — the number of masks the phantom has available.

Output

For each test case, output one integer — the number of roses you have to hand out.

Sample Input 1	Sample Output 1
4 10 7 10 100 123 123 30 0	3 0 0 30