Easy sum



Little Kevin had never heard the word 'Infinitum'. So he asked his mentor to explain the word to him. His mentor knew that 'Infinitum' is a very large number. To show him how big Infinitum can be, his mentor gave him a challenge: to sum the numbers from 1 up to N. The sum started to get really large and was out of long long int range. And so the lesson was clear.

Now his mentor introduced him to the concept of *mod* and asked him to retain only the remainder instead of the big number. And then, he gave him a formula to compute:

$$\sum_{i=1}^N (i\%m)$$

Input Format

The first line contains T, the number of test cases. T lines follow, each containing 2 space separated integers N m

Output Format

Print the result on new line corresponding to each test case.

Constraint

 $1 \le T \le 1000$

 $1 \le N \le 10^9$

 $1 \le m \le 10^9$

Sample Input

```
3
10 5
10 3
5 5
```

Sample Output

```
20
10
10
```

Explanation

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Case 1: N = 10 \ m = 5, 1\%5 + 2\%5 + 3\%5 + 4\%5 + 5\%5 + 6\%5 + 7\%5 + 8\%5 + 9\%5 + 10\%5 = 20. Similar explanation follows for Case 2 and 3.
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