

Problem B

Divisors

Time Limit: 1 sec, Memory Limit: 256 MB

Ailin is a girl that likes numbers. This time she learned to calculate the sum of divisors of a given number. Her dad realized that she learns very fast and decides to propose a more interesting problem: Calculate the sum of all divisors of N that are not multiples of K .

Input

Input contains an integer T , the number of test cases. Each of the following T lines contains two integers ($1 \leq N \leq 1000$) and ($1 \leq K \leq 1000$).

Output

The output should contain T lines, each one with the expected answer of the sum of divisors.

Samples

Sample Input	Sample Output
5	6
20 2	0
10 1	7
20 5	8
7 5	42
20 40	