

Problem D. Divisors

Input:	Standard
Output:	Standard
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Ailin is a girl who likes numbers. This time she learned to calculate the sum of the divisors of a number. Her father, realizing she learns very fast, decides to ask her a more interesting version of that problem: Calculates the sum of the divisors of N which are not multiples of K.

Input

The first line contains a integer T, the number of cases $(1 \le T \le 10^5)$. Each of the following lines T contains two integers N and K $(1 \le N, K \le 5 * 10^5)$.

Output

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

Example

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

Use fast I/O methods