

DIVISOR GAME



Mr. X likes numbers. This time he learned to calculate the sum of the divisors of a number. His father, realizing he can learn very fast, decided to ask him a more interesting version of that problem: Calculates the sum of the divisors of N which are not multiples of K.

Input Format

The first line contains an integer **T**, the number of cases (**$1 \leq T \leq 105$**). Each of the following **T** lines contains two integers **N** and **K** (**$1 \leq N, K \leq 5 \cdot 10^5$**).

Constraints

empty

Output Format

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

Sample Input 0

```
5
20 2
10 1
20 5
7 5
20 40
```

Sample Output 0

```
6
0
7
8
42
```