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 $\left(1 \leq T \leq 10^{5}\right)$. Each of the following lines $T$ contains two integers $N$ and $K\left(1 \leq N, K \leq 5 * 10^{5}\right)$.

## Output

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

## Sample Input

## Sample Output

6
0
7
8
42

