**Problem**

You are given two numbers **n** and **k**. For each number in the interval **[1, n]**, your task is to calculate its largest divisor that is not divisible by **k**. Print the sum of these divisors.

Note: **k** is a prime number.

**Input format**

* The first line contains an integer T representing the number of test cases that will follow.
* Each test case consists of one line containing two integers n and k.

**Output format**

The output must contain the answer for each test case on a different line.

Each answer consists of a single integer.

**Constraints**

T≤300000

1≤n≤1000000000

2≤k≤1000000000

**Sample Input**

4

10 3

10 2

10 5

1000000000 97

**Sample Output**

41

36

43

494897959532893312

Time Limit: 1

Memory Limit: 64

Source Limit:

**Explanation**

In the first test case, f (x) from 1 to 10 is [1, 2, 1, 4, 5, 2, 7, 8, 1, 10], sum of which is 41.

In the second test case, f (x) from 1 to 10 is [1, 1, 3, 1, 5, 3, 7, 1, 9, 5].

In the third test case, f (x) from 1 to 10 is [1, 2, 3, 4, 1, 6, 7, 8, 9, 2].