

Let  $d(n)$  be the sum of all divisors of  $n$ . For example  $d(6) = 1 + 2 + 3 + 6 = 12$ . Given integers  $n$  and  $k$ , compute the sum of all integers  $m$  for  $1 \leq m < n$ , such that  $d(m)$  is a multiple of  $k$ , i.e.  $d(m) = l * k$ , where  $l$  is a positive integer.

## Input

A number of of inputs ( $\leq 100$ ), each start with the number of value of integers  $n, k$  ( $1 \leq n, k \leq 10000000$ ).

## Output

Output the answer *modulo* 1000000007.

## Sample Input

```
10 5
20 5
```

## Sample Output

```
8
27
```