## Problem E. GCD vs LCM

Input file: standard input
Output file: standard output
Time limit: $\quad 2$ seconds
Memory limit: $\quad 512$ mebibytes
bobo is good at GCD (greatest common divisor) and LCM (least common multiple).
But today he gets stuck in summing up $\operatorname{lcm}(i, j)$ for all $1 \leq i \leq n, 1 \leq j \leq m$ with $\operatorname{gcd}(i, j) \leq a$, modulo $\left(10^{9}+7\right)$.

## Input

The first line contains an integer $q$, which denotes the number of questions ( $1 \leq q \leq 10^{4}$ ).
Each of the following $q$ lines contains 3 integers $n, m, a$, as described in the statement $\left(1 \leq n, m, a \leq 10^{5}\right)$.

## Output

For each question, print a single integer denoting the sum.

## Examples

|  | standard input |  |  | standard output |
| :--- | :--- | :--- | :--- | :--- |
| 2 | 2 | 1 | 5 |  |
| 3 | 4 | 2 | 45 |  |

