

# EASY MATH (Challenge)

You will be given 4 numbers

$n$   $m$   $a$   $d$

find count of numbers between  $n$  &  $m$  (inclusive) not divisible by  $(a)$  or  $(a+d)$  or  $(a+2d)$  or  $(a+3d)$  or  $(a+4d)$ .

## Input

first line has number  $t$  - number of test cases.

each test case has 4 numbers  $n$   $m$   $a$   $d$

## Output

Single line having single number giving the count

## Example

**Input:**

3

1 10 2 2

20 100 3 3

100 1000 4 5

**Output:**

5

54

543

**NOTE** -  $1 \leq n \leq m \leq 2^{32}$

$1 \leq a \leq 2^{32}$

$1 \leq d \leq 2^{32}$

$2 \leq t \leq 100$