

Problem G Long-haired man's music festival

Time limit: 3 seconds Memory limit: 1024 megabytes

Problem Description

A long-haired man named Yu-Chen was at a music festival when he suddenly heard the singer chanting the mysterious formula: " $((a+b)+(a-b)+(a\times b)+(a/b))$ ".

He felt that there might be some hidden meaning behind it, so he decided to write a program to compute the result.

Your task is to help him evaluate this formula for given integers a and b.

Input Format

Your program is to read from standard input. The input consists of T test cases.

The first line contains the integer T.

Each of the following T lines contains two integers a and b.

Output Format

Your program is to write to standard output. For each test case, output the computed value of the formula as a single integer in one line.

Technical Specification

- 1 < T < 1,000
- $-1,000,000 \le a,b \le 1,000,000$
- *b* ≠ 0
- $a\%b \neq 0$
- All input values are integers.
- Division (a/b) and modulo (a%b) are integer operations as in Java.

Sample Input 1

Sample Output 1 520 87 542361 1042 15400 176



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