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(CODECHEF Certified) Data Structure & Algorithms Programme (CCDSAP)

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Chef and Inequality | Problem Code: LTM40AB









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All submissions for this problem are available.

Read problems statements in Mandarin Chinese, Russian and Vietnamese as well.

Chef likes inequalities. Please help him to solve next one.

Given four integers a, b, c, d. Find number of solutions x < y, where $a \le x \le b$ and $c \le y$ \leq d and x, y integers.

Input

The first line contains an integer **T** denoting number of tests.

First line of each test case contains four positive integer numbers a, b, c and d.

Output

For each test case, output a single number each in separate line denoting number of integer solutions as asked in the problem.

Constraints

- $1 \le T \le 20$
- $1 \le a, b, c, d \le 10^6$

Subtasks

- Subtask #1: (30 points) $1 \le a, b, c, d \le 10^3$.
- Subtask #2: (70 points) Original constraints.

Example

Input:

1

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All Submissions

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1

2 999999 1 1000000

Output:

499998500001

Author: 6★ mgch

Tester: 6★ xcwgf666

Editorial: http://discuss.codechef.com/problems/LTM40AB

Tags: <u>basic-math</u>, <u>cakewalk</u>, <u>ltime40</u>, <u>mgch</u>

Date Added: 12-09-2016

Time Limit: 1 secs

Source Limit: 50000 Bytes

Languages: C, CPP14, JAVA, PYTH, PYTH 3.5, PYPY, CS2, PAS fpc, PAS gpc,

RUBY, PHP, GO, NODEJS, HASK, SCALA, D, PERL, FORT,

WSPC, ADA, CAML, ICK, BF, ASM, CLPS, PRLG, ICON, SCM qobi, PIKE, ST, NICE, LUA, BASH, NEM, LISP sbcl, LISP clisp, SCM guile, JS, ERL, TCL, PERL6, TEXT, SCM chicken, CLOJ, FS

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CodeChef - A Platform for Aspiring Programmers

CodeChef was created as a platform to help programmers make it big in the world of algorithms, **computer programming** and **programming contests**. At CodeChef we work hard to revive the geek in you by hosting a **programming contest** at the start of the month and another smaller programming challenge in the middle of the month. We also aim to have training sessions and discussions related to **algorithms**, **binary search**, technicalities like **array size** and the likes. Apart from providing a platform for **programming competitions**, CodeChef also has various algorithm tutorials and forum discussions to help those who are new to the world of **computer programming**.

Practice Section - A Place to hone your 'Computer Programming Skills'

Try your hand at one of our many practice problems and submit your solution in a language of your choice. Our **programming contest** judge accepts solutions in over 35+ programming languages. Preparing for coding contests were never this much fun! Receive points, and move up through the CodeChef ranks. Use our practice section to better prepare yourself for the multiple **programming challenges** that take place through-out the month on CodeChef.

Compete - Monthly Programming Contests and Cook-offs

Here is where you can show off your **computer programming skills**. Take part in our 10 day long monthly coding contest and the shorter format Cook-off **coding contest**. Put yourself up for recognition and win great prizes. Our **programming contests** have prizes worth up to INR 20,000 (for Indian Community), \$700 (for Global Community) and lots more CodeChef goodies up for grabs.

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