



[PRACTICE \(/PROBLEMS/SCHOOL\)](/problems/school)

[COMPETE \(/CONTESTS\)](/contests)

[DISCUSS \(HTTP://DISCUSS.CODECHEF.COM/\)](http://discuss.codechef.com/)

[COMMUNITY \(/COMMUNITY\)](/community)

[HELP \(/HELP\)](/help)

[ABOUT \(/ABOUTUS\)](/aboutus)

[Home \(/\)](#) » [Compete \(/contests/\)](/contests/) » [Codenigma \(/CODN2018/\)](/CODN2018/) » Modulo Pair

Modulo Pair

Problem Code: **MODPR**

[Submit \(Practice\) \(/submit/MODPR\)](/submit/MODPR)



[Tweet](#) [Like](#) [Share](#) 2 people like this. Be the first of your friends.

All submissions for this problem are available.

Problem Description

Given Two Numbers N and K. Find the number of pairs (a,b) such that $a \% b == K$ where $1 \leq a, b \leq N$.

Input

The first line consists of T test cases. Each of the testcase consists of two integers N and K separated by space.

Output

Print the number of pairs in new line for each test case.

Constraints

- $1 \leq T \leq 100$
- $1 \leq N \leq 100000$
- $1 \leq K \leq 100000$

Example

Input :

1
4 2

Output :

2

Explanation

The pairs of (a,b) that satisfies the condition $a \% b == 2$ are: (2,3) and (2,4).

Author: 3★ [sidhuking07 \(/users/sidhuking07\)](/users/sidhuking07)

Tags: [sidhuking07 \(/tags/problems/sidhuking07\)](/tags/problems/sidhuking07)

Date Added: 15-03-2018

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, rust, SCALA, swift, D, PERL, FORT, WSPC, ADA, CAML, ICK, BF, ASM, CLPS, PRLG, ICON, SCM qobi, PIKE, ST, NICE, LUA, BASH, LISP sbcl, LISP clisp, SCM guile, ERL, TCL, kotlin, TEXT, SCM chicken, FS

[My Submissions \(/CODN2018/status/MODPR,jackyone\)](/CODN2018/status/MODPR,jackyone)

[All Submissions \(/CODN2018/status/MODPR,jackyone\)](/CODN2018/status/MODPR,jackyone)

Successful Submissions

User	Time	Mem	Lang	Solution
3★ sna902...	0.00	15.7M	C++14	View (/view/3/sna902...)
2★ kumar...	0.00	15.7M	C++14	View (/view/2/kumar...)
4★ des199...	0.00	15.7M	C++14	View (/view/4/des199...)
4★ mohit_...	0.00	15.7M	C++14	View (/view/4/mohit_...)
1★ adarsh...	0.00	15.7M	C++14	View (/view/1/adarsh...)
3★ yuviaa...	0.00	15.7M	C++14	View (/view/3/yuviaa...)
3★ sourad...	0.01	14.9M	C++14	View (/view/3/sourad...)
4★ gamer_...	0.01	15.1M	C++14	View (/view/4/gamer_...)
2★ rashed...	0.02	14.9M	C++14	View (/view/2/rashed...)
3★ abhi_1...	0.02	14.9M	C++14	View (/view/3/abhi_1...)
1★ coolboy...	0.02	15.7M	C++14	View (/view/1/coolboy...)
4★ devars...	0.02	15.7M	C++14	View (/view/4/devars...)

1 of 2

[Next](#)

Comments were last fetched 9 minutes ago. [Refresh](#)

Comments ▼

Need help? Post a comment. But before that please spare a moment to read the [guidelines \(http://discuss.codechef.com/questions/855/what-kind-of-comment-should-i-post-on-the-problem-page\)](http://discuss.codechef.com/questions/855/what-kind-of-comment-should-i-post-on-the-problem-page).

Help:

Supports [markdown](#)

(https://discuss.codechef.com/markdown_help/).

Supports @mention e.g [@admin](#)

 [Preview](#)

[Post](#)

No comments. Be the first to comment ?

[CodeChef is a non-commercial competitive programming community.](#)

[About CodeChef \(http://www.codechef.com/aboutus/\)](http://www.codechef.com/aboutus/) [About Directi \(http://www.directi.com/\)](http://www.directi.com/) [CEO's Corner \(http://www.codechef.com/ceoscorner/\)](http://www.codechef.com/ceoscorner/)

[C-Programming \(http://www.codechef.com/c-programming\)](http://www.codechef.com/c-programming) [Programming Languages \(http://www.codechef.com/Programming-Languages\)](http://www.codechef.com/Programming-Languages) [Contact Us \(http://www.codechef.com/contactus\)](http://www.codechef.com/contactus)

© 2009 [Directi Group \(http://www.directi.com/\)](http://www.directi.com/). All Rights Reserved. CodeChef uses SPOJ © by [Sphere Research Labs \(http://www.sphere-research.com\)](http://www.sphere-research.com)

In order to report copyright violations of any kind, send in an email to copyright@codechef.com (<mailto:copyright@codechef.com>).

Directi (<http://directi.com>)
Intelligent People. Uncommon Ideas.

The time now is: 10:33:37 AM

Your IP: 46.223.37.14

[CodeChef \(http://www.codechef.com\)](http://www.codechef.com) - 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 \(https://www.codechef.com/problems/easy\)](https://www.codechef.com/problems/easy) - 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 \(https://www.codechef.com/problems/easy\)](https://www.codechef.com/problems/easy) - 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.

[Programming Tools](#)

[Online IDE \(https://www.codechef.com/ide\)](https://www.codechef.com/ide)

[Upcoming Coding Contests \(http://www.codechef.com/contests#FutureContests\)](http://www.codechef.com/contests#FutureContests)

[Contest Hosting \(http://www.codechef.com/hostryourcontest\)](http://www.codechef.com/hostryourcontest)

[Problem Setting \(http://www.codechef.com/problemsetting\)](http://www.codechef.com/problemsetting)

[CodeChef Tutorials \(http://www.codechef.com/wiki/tutorials\)](http://www.codechef.com/wiki/tutorials)

[CodeChef Wiki \(https://www.codechef.com/wiki\)](https://www.codechef.com/wiki)

[Practice Problems](#)

[Easy \(https://www.codechef.com/problems/easy\)](https://www.codechef.com/problems/easy)

[Medium \(https://www.codechef.com/problems/medium\)](https://www.codechef.com/problems/medium)

[Hard \(https://www.codechef.com/problems/Hard\)](https://www.codechef.com/problems/Hard)

[Challenge \(https://www.codechef.com/problems/challenge\)](https://www.codechef.com/problems/challenge)

[Peer \(https://www.codechef.com/problems/extcontest\)](https://www.codechef.com/problems/extcontest)

[School \(https://www.codechef.com/problems/school\)](https://www.codechef.com/problems/school)

[FAQ's \(https://www.codechef.com/wiki/faq\)](https://www.codechef.com/wiki/faq)

[Initiatives](#)

[Go for Gold \(http://www.codechef.com/goforgold\)](http://www.codechef.com/goforgold)

[CodeChef for Schools \(http://www.codechef.com/school\)](http://www.codechef.com/school)

[Campus Chapters \(http://www.codechef.com/campus_chapter/about\)](http://www.codechef.com/campus_chapter/about)