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Home (/) » Compete (/contests/) » Codenigma (/CODN2018) » Modulo Pair

Modulo Pair   Problem Code: **MODPR**   Submit (Practice) (/submit/MODPR)

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Problem Description

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

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

- **$1 ≤ T ≤ 100$**
- **$1 ≤ N ≤ 100000$**
- **$1 ≤ K ≤ 100000$**

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)	
Tags:	sidhuking07 (/tags/problems/sidhuking07)	
Date Added:	15-03-2018	
Time Limit:	1 secs	
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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	

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4★ mohit ...	0.00	15.7M	C++14	View (/vi...
1★ adarsh...	0.00	15.7M	C++14	View (/vi...
3★ yuviaa...	0.00	15.7M	C++14	View (/vi...
3★ sourad...	0.01	14.9M	C++14	View (/vi...
4★ gamer _...	0.01	15.1M	C++14	View (/vi...
2★ rashed...	0.02	14.9M	C++14	View (/vi...
3★ abhi_1...	0.02	14.9M	C++14	View (/vi...
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4★ devars...	0.02	15.7M	C++14	View (/vi...

1 of 2   Next

CodeChef is a non-commercial competitive programming community

CodeChef (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) - 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) - 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)

Upcoming Coding Contests (http://www.codechef.com/contests#FurtureContests)

Contest Hosting (http://www.codechef.com/hostyourcontest)

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

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

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

Practice Problems

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Initiatives

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