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The Time to Act is Now

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 $\underbrace{(\text{https://bit.ly/3eQStQG})}_{\text{Compete (residuests/)}} \text{ w } \underline{\text{May Challenge 2021 Division 3 }}_{\text{Rated}} \underbrace{(\text{MAY21C?order=desc\&sortBy=successful_submissions})}_{\text{Submissions}} \text{ w Modular Equation } \underline{\text{Modular Equation 2021 Division 3 }}_{\text{Rated}} \underbrace{(\text{MAY21C?order=desc\&sortBy=successful_submissions})}_{\text{Submissions}} \text{ w Modular Equation 2021 Division 3 }}_{\text{Modular Equation 2021 Division 3 }} \underline{\text{Modular Equation 2021 Division 3 }}_{\text{Modular Equation 2021 Division 3 }} \underline{\text{Modular Equation 2021 Division 3 }}_{\text{Modular Equation 2021 Division 3 }} \underline{\text{Modular Equation 2021 Division 3 }}_{\text{Modular Equation 2021 Division 3 }} \underline{\text{Modular Equation 2021 Division 3 }}_{\text{Modular Equation 2021 Division 3 }} \underline{\text{Modular Equation 2021 Division 3 }}_{\text{Modular Equation 2021 Division 3 }} \underline{\text{Modular Equation 2021 Division 3 }}_{\text{Modular Equation 2021 Division 3 }} \underline{\text{Modular Equation 2021 Division 3 }}_{\text{Modular Equation 2021 Division 3 }} \underline{\text{Modular Equation 2021 Division 3 }}_{\text{Modular Equation 2021 Division 3 }} \underline{\text{Modular Equation 2021 Division 3 }}_{\text{Modular Equation 2021 Division 3 }} \underline{\text{Modular Equation 2021 Division 3 }}_{\text{Modular Equation 2021 Division 3 }} \underline{\text{Modular Equation 2021 Division 3 }}_{\text{Modular Equation 2021 Division 3 }} \underline{\text{Modular Equation 2021 Division 3 }}_{\text{Modular Equation 2021 Division 3 }} \underline{\text{Modular Equation 2021 Division 3 }}_{\text{Modular Equation 3 }} \underline{\text{Modular Equation 2021 Division 3 }}_{\text{Modular Equation 3 }} \underline{\text{Modular Equation 2021 Division 3 }}_{\text{Modular Equation 3 }} \underline{\text{Modular Equation 3 }}_{\text{Modular Equation 3 }} \underline{\text{Modular Equation 3 }}_{\text{Modular Equation 3 }}_{\text{Modula$

Modular Equation

Problem Code: MODEQ

Submit (/MAY21C/submit/MODEQ)

Submission Ends In

8 13 24

Days Hrs



Given integers N and M, find the number of ordered pairs (a,b) such that $1 \le a < b \le N$ and $((M \bmod a) \bmod b) = ((M \bmod b) \bmod a)$.

Input

- The first line contains an integer T, the number of test cases. Then the test cases follow.
- The only line of each test case contains two integers N, M.

My Submissions All Submissions (/MAY21C/status/MODEQ,an(kN/IPQY7211)C/status/MODEQ

Min

Successful Submissions

Output

For each testcase, output in a single line the answer to the problem.

Constraints

- $1 \le T \le 1000$
- $2 < N < 10^6$
- $1 < M < 5 \cdot 10^5$
- ullet The sum of N over all test cases does not exceed 10^6 .

Note: Multiplier for JAVA for this problem is reduced to 1.25 instead of usual 2.

Subtasks

Subtask #1 (10 points):

- 1 < T < 10
- $2 < N < 10^3$
- $1 \le M \le 10^5$

Subtask #2 (40 points):

- $1 \le T \le 100$
- $2 \le N \le 10^5$
- $1 < M < 10^5$
- The sum of N over all test cases does not exceed $10^6\,\mathrm{.}$

Subtask #3 (50 points): Original Constraints

Sample Input

3

3 5

3 6

3 10

2 3 2

Explanation

Test Case 1: The valid pairs are $\{(1,2),(1,3)\}$.

Test Case 2: The valid pairs are $\{(1,2),(1,3),(2,3)\}$.

Test Case 3: The valid pairs are $\{(1,2),(1,3)\}$.

Author: <u>daanish_adm (/users/daanish_adm)</u>

Date Added: 28-04-2021

Time Limit: 1 secs

Source Limit: 50000 Bytes

Languages: CPP14, C, JAVA, PYTH 3.6, PYTH, CS2, ADA, PYPY,

PYP3, TEXT, CPP17, PAS fpc, RUBY, PHP, NODEJS, GO, TCL, HASK, PERL, SCALA, kotlin, BASH, JS, PAS gpc, BF, LISP sbcl, CLOJ, LUA, D, R, CAML, rust, ASM, FORT, FS, LISP clisp, SQL, swift, SCM guile, PERL6, CLPS, WSPC, ERL, ICK, NICE, PRLG, ICON, PIKE, COB, SCM chicken, SCM qobi, ST, NEM, SQLQ

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Comments ▶

CodeChef is a competitive programming community

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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 two smaller programming challenges at the middle and end 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 (/problems/easy) - A Place to hone your 'Computer Programming Skills'

FAQ's (/wiki/faq)

Try your hand at one of our many practice problems and submit your solution in the language of your choice. Our **programming contest** judge accepts solutions in over 55+ 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.

<u>Compete (/contests)</u> - Monthly Programming Contests, Cook-off and Lunchtime

Here is where you can show off your **computer programming skills**. Take part in our 10 days long monthly coding contest and the shorter format Cook-off and Lunchtime **coding contests**. 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	Practice Problems	<u>Initiatives</u>	<u>Policy</u>
Online IDE (/ide)	Easy (/problems/easy)	Go for Gold (/goforgold)	Terms of Service (/terms)
<u>Upcoming Coding Contests (/contests#future-contests)</u>	Medium (/problems/medium)	CodeChef for Schools (/school)	Privacy Policy (/privacy-policy)
Contest Hosting (/hostyourcontest)	Hard (/problems/hard)	College Chapters (/college-chapters)	Refund Policy (/refund-policy)
Problem Setting (/problemsetting)	Challenge (/problems/challenge)	CodeChef for Business (https://business.codechef.com)	Code of Conduct (/codeofconduct)
CodeChef Tutorials (/wiki/tutorials)	Peer (/problems/extcontest)		Bug Bounty Program (/bug-bounty-prog
CodeChef Wiki (/wiki)	School (/problems/school)		