COMPETE



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HELP



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SUBMIT

A **Directi** Educational Initiative

Home » Compete » January Challenge 2015 » Sereja and LCM Sereja and LCM ALL SUBMISSIONS Problem code: SEALCM Like Share Be the first of your friends to like this. Read problems statements in Mandarin Chinese and Russian. In this problem Sereja is interested in number of arrays A[1], A[2], ..., A[N] (1 \leq A[i] \leq M, A[i] - integer) such that least common multiple (LCM) of all its elements is divisible by number D. Please, find sum of answers to the problem with D = L, D = L+1, ..., D = R. As answer could be large, please output it modulo $(10^9 + 7).$ Input • First line of input contain integer T - number of test cases. • For each test case, only line of input contain four integers N, M, L, R. For each test case, output required sum modulo (109 + 7). Constraints ■ 1 ≤ T ≤ 10 $■ 1 \le N \le 5*10^6$ $\blacksquare \ 1 \le L \le R \le M \le 1000$ Subtasks ■ Subtask #1: **1** ≤ **N**, **M** ≤ **10** (25 points) ■ Subtask #2: 1 ≤ N, M ≤ 1000 (25 points) ■ Subtask #3: original constraints (50 points) Example Input: 5 5 1 5 5 5 4 5 Output: 12310 4202 Author: sereja shiplu Date Added: 23-10-2014 Time Limit: Source Limit: 50000 Bytes ADA, ASM, BASH, BF, C, C99 strict, CAML, CLOJ, CLPS, CPP 4.3.2, CPP 4.8.1, CPP11, CS2, D, ERL, FORT, FS, GO, HASK, ICK, ICON, JAVA, JS, LISP clisp, LISP sbcl, LUA, NEM, NICE, NODEJS, PAS fpc, PAS gpc, PERL, PERL6, PHP, PIKE, PRLG, PYTH, PYTH 3.1.2, RUBY, SCALA, SCM guile, SCM qobi, ST, TCL, TEXT, WSPC Languages: SUBMIT Comments mazeyu @ 2 Jan 2015 04:54 PM I've use brute force to the testcase, but the answer is also 12310.....

SUCCESSFUL SUBMISSIONS

MY SUBMISSIONS

User	Score	Mem	Lang	Solution
alex_2008	100.000	0.3M	PAS fpc	View
shinigami_ryuk	100.000	2.3M	С	View
dojiboy9	100.000	2.6M	C++ 4.3.2	View
guptash	100.000	2.6M	C++ 4.3.2	View
towerlight	100.000	2.6M	C++ 4.3.2	View
k1r4	100.000	2.6M	C++ 4.3.2	View
nikasvanidze	100.000	2.6M	C++ 4.3.2	View
wodahs_cc	100.000	2.7M	C++ 4.3.2	View
ACRush	100.000	2.7M	C++ 4.3.2	View
ainu7	100.000	2.8M	C++ 4.3.2	View
argos	100.000	2.8M	C++ 4.3.2	View
satwantrana	100.000	2.8M	C++ 4.3.2	View

1 of 13 Next »

mazeyu @ 2 Jan 2015 05:00 PM
plz quickly modify the sample:)

dpraveen @ 2 Jan 2015 06:24 PM

@mazeyu: done.

leed help? Post a comment. But	pefore that please spare a moment	to read the guidelines.	
our name: enviso			
omment: *			
Save			

CodeChef is a non-commercial 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 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 Rs.20,000 and \$700lots more CodeChef goodies up for grabs.

Discuss

Are you new to **computer programming?** Do you need help with algorithms? Then be a part of CodeChef's Forums and interact with all our programmers - they love helping out other programmers and sharing their ideas. Have discussions around **binary search**, **array size**, **branch-and-bound**, **Dijkstra's algorithm**, **Encryption algorithm** and more by visiting the CodeChef Forums and Wiki section.

CodeChef Community

As part of our Educational initiative, we give institutes the opportunity to associate with CodeChef in the form of Campus Chapters. Hosting online programming competitions is not the only feature on CodeChef. You can also host a coding contest for your institute on CodeChef, organize an algorithm event and be a guest author on our blog.

Go For Gold

The Go for Gold Initiative was launched about a year after CodeChef was incepted, to help prepare Indian students for the **ACM ICPC** World Finals competition. In the run up to the **ACM ICPC** competition, the Go for Gold initiative uses CodeChef as a platform to train students for the **ACM ICPC** competition via multiple warm up contests. As an added incentive the Go for Gold initiative is also offering over Rs.8 lacs to the Indian team that beats the 29th position at the **ACM ICPC** world finals. Find out more about the Go for Gold and the **ACM ICPC** competition here.