


CODECHEF

 A **Directi** Educational Initiative
Hello **jacobian8162** ▾

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Easy One ✓

Problem code: BYCO17E

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Team formation

There are N individual participants in a coding contest, with ids from 1 to N . No 2 participants know each other. A change was made at the last minute, which made it mandatory to form teams of exactly 2 persons. To allow team formation, a matching phase was created which runs for 24 hours. All possible combinations of teams are recorded in a database along with their expected score in the contest, which is the GCD of their IDs. The organisers are interested in finding out the sum of expected scores of all teams. Help them find out!

Input

Input description.

First line of input contains T , the number of test cases. T lines follow, each containing the value of N for that test case.

Output

Output consists of T lines, i -th line containing the answer to i -th test case

Constraints

- $1 \leq T \leq 200000$
- $1 \leq N \leq 1000000$

Example

Input:

```
3
1
2
3
```

Output:

```
0
1
3
```

Explanation

- **Example case 1:** There are no teams
- **Example case 2:** Possible teams are {1,2}
- **Example case 3:** Possible teams are {1,2}, {1,3}, {2,3}

Author: rvns03

Date Added: 28-02-2017

Time Limit: 0.5 - 1 sec

Source Limit: 50000 Bytes

Languages: ADA, ASM, BASH, BF, C, C99 strict, CAML, CLOJ, CLPS, CPP 4.3.2, CPP 4.9.2, CPP14, 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, PYPY, PYTH, PYTH 3.4, RUBY, SCALA, SCM chicken, SCM guile, SCM qobi, ST, TCL, TEXT, WSPC

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Intelligent People. Uncommon Ideas.
The time now is: 10:19:06 PM
Your IP: 139.162.49.196

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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