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Fit Squares in Triangle

Problem Code: TRISQ

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as well.

What is the maximum number of squares of size **2x2** that can be fit in a right angled isosceles triangle of base **B**.

One side of the square must be parallel to the base of the isosceles triangle.

Base is the shortest side of the triangle

Input

First line contains **T**, the number of test cases.

Each of the following **T** lines contains 1 integer **B**.

Output

Output exactly T lines, each line containing the required answer.

Constraints

$$1 \leq T \leq 10^3$$

$$1 \leq B \leq 10^4$$

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Sample Input

```
11
1
2
3
4
5
6
7
8
9
10
11
```

Sample Output

```
0
0
0
1
1
3
3
6
6
10
10
```

Author: 4★ [devuy11 \(/users/devuy11\)](/users/devuy11)

Tester: 6★ [anudeep2011 \(/users/anudeep2011\)](/users/anudeep2011)

Editorial: <http://discuss.codechef.com/problems/TRISQ>
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Date Added: 24-12-2014

Time Limit: 1 secs

Source Limit: 50000 Bytes

Languages: C, CPP14, JAVA, PYTH, PYTH 3.6, CS2, PAS fpc, PAS gpc, RUBY, PHP, GO, NODEJS, HASK, SCALA, D, PERL, FORT, WSPC, ADA, CAML, ICK, BF, ASM, CLPS, PRLG, ICON, SCM qobi, PIKE, ST, NICE, LUA, BASH, NEM, LISP sbcl, LISP clisp, SCM guile, JS, ERL, TCL, PERL6, TEXT, PYP3, CLOJ, FS

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The time now is: 12:56:06 AM

Your IP: 47.247.21.158

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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'

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.

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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.

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