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# Finding Square Roots

Problem Code: **FSQRT**

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*In olden days finding square roots seemed to be difficult but nowadays it can be easily done using in-built functions available across many languages .*

Assume that you happen to hear the above words and you want to give a try in finding the square root of any given integer using in-built functions. So here's your chance.

## Input

The first line of the input contains an integer T, the number of test cases. T lines follow. Each line contains an integer N whose square root needs to be computed.

## Output

For each line of the input, output the square root of the input integer, rounded down to the nearest integer, in a new line.

## Constraints

1<=T<=20

1<=N<=10000

### Input:

```
3
10
5
10000
```

### Output:

```
3
2
100
```

Author: 2★ [karthikv1392 \(/users/karthikv1392\)](#)

Editorial: <https://discuss.codechef.com/problems/FSQRT>  
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FSQRT | Coding with Logic...



Date Added: 29-04-2015

Time Limit: 1 secs

Source Limit: 50000 Bytes

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

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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**.

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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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