



Simple Problem

Problem Code: **SIMPLPRO**

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Problem Description

Given a value **N**, maximize the value of **(a+b)** such that **(aa-bb = N)**.

Note: The value of N is odd. a and b are integers.

Input

The first line consists of test case T. Each testcase consists of the value of N.

Output

Print the value of max(a+b).

Constraints

- $1 \leq T \leq 100000$
- $1 \leq N \leq 10^{18}$

Example

Input :

1
1

Output:

1

Explanation

The value of $a^2 - b^2$ is 1. The maximum value occurs when $a=1$ and $b=0$. Thus, $a+b = 1$.

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Date Added: 15-03-2018

Time Limit: 1 secs

Source Limit: 50000 Bytes

Languages: C, CPP14, JAVA, PYTH, PYTH 3.5, PYPY, CS2, PAS fpc, PAS gpc, RUBY, PHP, GO, NODEJS, HASK, rust, SCALA, swift, D, PERL, FORT, WSPC, ADA, CAML, ICK, BF, ASM, CLPS, PRLG, ICON, SCM qobi, PIKE, ST, NICE, LUA, BASH, LISP sbcl, LISP clisp, SCM guile, ERL, TCL, kotlin, TEXT, SCM chicken, FS

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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 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**.

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