

## The Problem

You are to determinate X by given Y, from expression  $X=\sqrt{Y}$

## The Input

The first line is the number of test cases, followed by a blank line.

Each test case of the input contains a positive integer Y ( $1 \leq Y \leq 10^{1000}$ ), with no blanks or leading zeroes in it.

It is guaranteed, that for given Y, X will be always an integer.

Each test case will be separated by a single line.

## The Output

For each test case, your program should print X in the same format as Y was given in input.

Print a blank line between the outputs for two consecutive test cases.

## Sample Input

```
1
7206604678144
```

## Sample Output

```
2684512
```