

Square root

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
```

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