# Halloween party

## Problem Statement

Alex is attending a Halloween party with his girlfriend Silvia. At the party, Silvia spots the corner of an infinite chocolate bar.

If the chocolate can be served as only 1 x 1 sized pieces and Alex can cut the chocolate bar exactly $K$ times, what is the maximum number of chocolate pieces Alex can cut and give Silvia?

## Input Format

The first line contains an integer T, the number of test cases. $T$ lines follow.
Each line contains an integer $K$

## Output Format

$T$ lines. Each line contains an integer that denotes the maximum number of pieces that can be obtained for each test case.

## Constraints

$1<=T<=10$
$2<=K<=10^7$

## Note

Chocolate must be served in size of 1 x 1 size pieces.
Alex can't relocate any of the pieces, nor can he place any piece on top of another.

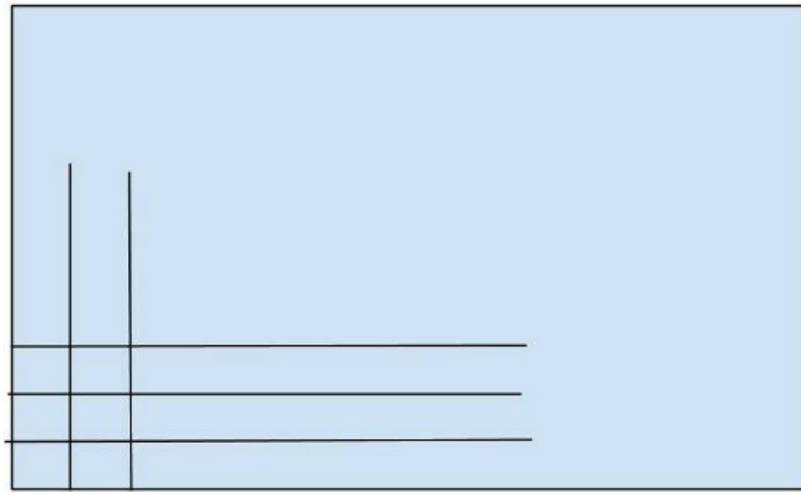## Sample Input #00

```
4
5
6
7
8
```

## Sample Output #00

```
6
9
12
16
```

## Explanation

The explanation below is for the first two test-cases. The rest of them follow a similar logic.

For the first test-case where $K = 5$, You need 3 Horizontal and 2 vertical cuts.

For the second test-case where $K = 6$, You need 3 Horizontal and 3 vertical cuts.