

Problem C

Switches

Time limit: 1 second

Memory limit: 256 megabytes

Problem Description

Suppose there are n light bulbs b_1, \dots, b_n and n switches s_1, \dots, s_n . Initially, all light bulbs are off. When we press switch s_i , the light bulbs $b_i, b_{2i}, \dots, b_{\lfloor \frac{n}{i} \rfloor i}$ will be toggled: if the light bulb is off, then it will be turned on, otherwise it will be turned off. Please write a program to determine how many bulbs are off after we press all switches exactly once.

Input Format

The first line of the input contains an integer T ($T \leq 500$) indicating the number of test cases. Each test case is a line containing an integer n where $1 \leq n \leq 1048576$ is the number of bulbs.

Output Format

For each case, output the answer in one line.

Sample Input

```
3
4
5
6
```

Sample Output

```
2
3
4
```