

Project Euler #179: Consecutive positive divisors

This problem is a programming version of [Problem 179](#) from [projecteuler.net](#)

Find the number of integers $1 < n < k$, for which n and $n + 1$ have the same number of positive divisors. For example, **14** has the positive divisors **1, 2, 7, 14** while **15** has **1, 3, 5, 15**.

Input Format

First line of input contains single integer t which is the number of testcases. All of the following t lines contain single integer k each.

Constraints

- $1 \leq t \leq 10^6$
- $3 \leq k \leq 10^7$

Output Format

For each testcase output the only integer which is the answer to the problem.

Sample Input 0

```
3
3
15
100
```

Sample Output 0

```
1
2
15
```

Explanation 0

The only $n < 15$ are **2** and **14**.