Soylent

Yraglac recently decided to try out Soylent, a meal replacement drink designed to meet all nutritional requirements for an average adult. Soylent not only tastes great but is also low-cost, which is important for Yraglac as he is currently on a budget. Each bottle provides 400 calories, so it is recommended that an individual should consume 5 bottles a day for $2\,000$ total calories. However, Yraglac is wondering how many bottles he should consume if his daily calorie requirement is not the same as an average adult. He can only consume an integer number of bottles, and needs to consume at least his daily calorie requirement.

Input

The first line contains a single integer $T \leq 1\,000$ giving the number of test cases. Each test case consists of a single line with an integer N ($0 \leq N \leq 10\,000$), the number of calories Yraglac needs in a day.

Output

For each test case, output a single line containing the number of bottles Yraglac needs to consume for the day.

Sample Input 1

```
2
2000
1600
```

Sample Output 1

```
5
4
```