1300 - Modulo

Description

Given two integers A and B, A modulo B is the remainder when dividing A by B. For example, the numbers 7, 14, 27 and 38 become 1, 2, 0 and 2, modulo 3. Write a program that accepts 10 numbers as input and outputs the number of distinct numbers in the input, if the numbers are considered modulo 42.

Input specification

The input will contain 10 non-negative integers, each smaller than 1000, one per line.

Output specification

Output the number of distinct values when considered modulo 42 on a single line.

Sample input

```
39
40
41
42
43
44
82
83
84
85
```

Sample output

```
6
```

Hint(s)

In the example, the numbers modulo 42 are 39, 40, 41, 0, 1, 2, 40, 41, 0 and 1. There are 6 distinct numbers.