

Practice Problem¹: Find Multiples

Given an integer value n ($0 < n < 1000$), followed by a list of integers, all of which are greater than 0 and less than 10000, report whether or not a given number in the list is a multiple of n (that is, n divides into that number without remainder at least one time).

Input (from file practice.in)²

On the first line in the file is the value of which you are to find multiples. Following this, on a line by line basis, will be single integer values, each greater than 0 and less than 10000, which are to be examined as possible multiples of the first number. Input is terminated when a value of 0 is encountered. NOTE: There will be at least one non-zero value following the initial number in the file.

Output (to stdout)³

Write to stdout each value and whether or not it is a multiple of the initial value as shown in the sample below. Be sure you precisely follow the format given in the output.

Sample Input

```
3
1
7
99
321
777
0
```

Sample Output

```
1 is NOT a multiple of 3.
7 is NOT a multiple of 3.
99 is a multiple of 3.
321 is a multiple of 3.
777 is a multiple of 3.
```

¹ Do not use this problem for frivolous submissions, clarifications, or testing how judges will respond. Doing so may disqualify your team from the contest.

² All input for each problem in the contest will come from an input file whose name is the problem letter followed by the extension **.in** (e.g. **a.in**).

³ All output for each problem in the contest will be written to stdout / cout / System.out (the monitor!)