The Prime Number Program

Write a program to:

- Prompt the user for a candidate number (integer)
- Determine whether or not that number is prime
- Display the result
- Prompt for another number (0 to quit)

Example run #1:

```
Welcome to the wiz-bang prime number thing!

Enter an integer greater than 2 (0 to quit): 35
35 is not prime.

Enter an integer greater than 2 (0 to quit): 13
13 is prime.

Enter an integer greater than 2 (0 to quit): 0

Thanks for playing.
```

By definition, prime numbers are divisible only by 1 and themselves. That means a number can be proven to be **not** prime by finding a factor other than 1 or the number. Therefore, your program should use repetition to try consecutive divisors until either a divisor is found or all potential divisors have been tried.

Example 1, to determine that 13 is prime:

•	Try dividing 13 by 2	does not come out even
•	Try dividing 13 by 3	does not come out even
•		
•	Try dividing 13 by 12	does not come out even, 13 must be prime

Example 2, to determine that 35 is not prime

•	Try dividing 35 by 2	does not come out even
•	Try dividing 35 by 3	does not come out even
•	Try dividing 35 by 4	does not come out even
•	Try dividing 35 by 5	comes out even $(35 \div 5 = 7)$, 35 is not prime

For **5 points extra credit**, display a factor which makes the number not prime. Example:

```
35 is not prime because it's divisible by 5.
```