Sample Part I: Programming Challenge
IPFW Programming Challenge #1—Prime Number Evaluator

This challenge requires you to evaluate whether a number is prime. A prime number is defined as any number that is only divisible by 1 and itself.

Develop an algorithm to determine if a number is prime.

Your program should accept an integer as input and determine whether the input is a prime number. If the number is prime, display that the number is prime. If the number is not prime, display that the number is not prime and display the first divisor of the number.

Sample output for a Java/Python console are provided here:

```
Enter an integer:
7
7 is a prime number
Enter an integer:
221
221 is not a prime number
The first divisor of 221 is 13
```

Scoring Rubric

2 points earned for proper functionality
1 point earned if program determines if the number is prime but does not display first divisor