1. Code:

```
// Uses Euclid's algorithm to calculate the GCD.
provate long GCD( long a, long b )
{
    a = Math.abs( a );
    b = Math.abs( b );

    for(;;)
    {
        long remainder = a % b;
        If( remainder == 0 ) return b;
        a = b;
        b = remainder;
    };
}
```

- 2. Either writing the code to explain what the code does (rather than what it should do), or writing code that is just English versions of the code that follows.
- 3. Have the code fail with numbers that have no GCD. The current version hides this error.
- 4. The code would send an argument exception or similar if the arguments have no GCD.
- 5. Drive car into parking lot, find empty space, drive car into empty space, put car in park. This assumes there is a car and it is functional, and that the supermarket has a parking lot.

6. . function testIsRelativelyPrime() { const testCases = [{ a: 21, b: 35, expected: false }, // 21 and 35 are not relatively prime { a: 3, b: 7, expected: true }, // 3 and 7 are relatively prime { a: 0, b: 5, expected: false }, // 0 and 5 are not relatively prime { a: -1, b: 100, expected: true }, // -1 and 100 are relatively prime { a: 0, b: 0, expected: false }, // 0 and 0 are not relatively prime { a: 1, b: -1, expected: true } // 1 and -1 are relatively prime]; testCases.forEach((testCase, index) => { const { a, b, expected } = testCase; const result = IsRelativelyPrime(a, b);

```
console.log(`Test Case ${index + 1}: IsRelativelyPrime(${a},
${b}) => ${result === expected ? 'Pass' : 'Fail'}`);
});
}
```

- 7. I used black-box testing and tested some inputs with their expected results.
- 8. My testing code worked, as it was just used to find the expected results. The testing code ensured that the function worked as expected.
- 9. It is black-box, as you do not tailor your tests to your knowledge of how the code functions.
- 10. There is estimated to be 50 bugs total, with 40 still at large.
- 11. It means that there are an indeterminate number of bugs estimated via the Lincoln estimate. Because the Lincoln estimate is already generally an underestimate, you cannot get a lower bound estimate.