# **Algorithm Exercises**

## **Diagnostics and Review**

For each of the following exercises:

- 1. Write the algorithm
- 2. Write the program
- 3. Test the program

### **Challenge Task:**

Write an algorithm that prompts the user to enter a number. Without using any Java API methods, write a method to reverse the number. Output the reversed number to the user.

#### Sample Output:

Please enter a number to be reversed: 1234 The number reversed is: 4321

#### **Expectations:**

C2. Analyze algorithms for their effectiveness in solving a problem