Prompt 1: Program Design, Function, and Purpose

Identify an expected user of your program. Describe one way your program's design meets the needs of this user.

Prompt 2: Algorithm Development

Consider the first iteration statement included in the Procedure section of your Personalized Project Reference. Identify the number of times the body of your iteration statement will execute. Describe a condition or error that would cause your iteration statement to not terminate and cause an infinite loop. If no such condition or error exists, explain how the loop could be modified to cause an infinite loop.

Prompt 3: Errors and Testing

Consider the procedure included in part (i) of the Procedure section of your Personalized Project Reference. Describe a change to your procedure that will result in a run-time error. Explain why this change will result in a run-time error

Prompt 4: Data and Procedural Abstraction

Suppose you are provided with a procedure called **isEqual (value1, value2)**. The procedure returns **true** if the two parameters **value1** and **value2** are equal in value and returns **false** otherwise. Using the list you identified in the List section of your Personalized Project Reference, explain in detailed steps an algorithm that uses **isEqual** to count the number of times a certain value appears in your list. Your explanation must be detailed enough for someone else to write the program code.