Item	Possible Points	Earned Points	Notes
Proof • Shows all test data	**3**		
Screen capture(s)	**2**		
Program design for Project • The `main()` method: o has code to catch an Exception if the user enters a customer number that does not exist. o verifies that the customer number is a valid integer between 1 and 5000 inclusive. A Validator class with the appropriate method may be included. o the code for the Exception displays the error message. o has a loop that asks the user for a customer number and displays the customer information. It then asks if the user would like to enter another customer number. The loop stops when the user enters N or n when asked this question. • The Customer class is not changed except for adding the comment block at the top of the code. • The `getCustomer()` method of the CustomerIO class has been modified to throw a NoSuchCustomerException if the customer does not exist. No other changes have been made. • The NoSuchCustomerException class: o has a constructor that excepts an `int` parameter and not other parameter. o passes the message "`The customer` *`number`* `does not exist.`" to the constructor of the Exception class (where *number* is the `int` that was passed to it). o stores the `int` passed to the constructor in a private instance variable. o has a getCustomerNumber() method that returns the value of the private instance variable.	**5**		

Item	Possible Points	Earned Points	Notes

Design Diagrams:
• A correct class diagram is provided for all classes
• Design documentation reflects actual logic of code
• All methods are documented (one diagram for each method; you may have more than one diagram on a page)
• No diagram is larger than one page (8 ½ by 11 inches with ½ inch margins on all sides)
• If using flowcharts to diagram the logic:
  o Each flowchart begins and ends with a terminator symbol Note: the main method beginning terminator contains the word `main()`. The main method ending terminator contains the word `return`. Because you do not write the code that calls the main method, you will not have any flowcharts where the beginning terminator contains the word `START` and the ending terminator contains the word `END`.
  o The appropriate symbol is used
  o Only one task per process symbol (the rectangle); each variable declaration should be in its own symbol; show the entire formula for calculations
  o Every symbol (except a terminator) has at least one flowline leading to it and one and only one flowline leading from it.
• If using structured pseudocode to diagram the logic:
  o The pseudocode is appropriately indented
  o Each variable declaration is on its own line
  o The entire formula is shown for calculations
  o Selection and iteration blocks have a clear beginning and ending
• If using Warnier Diagrams to diagram the logic:
  o Braces are appropriately labeled
  o Each variable declaration is on its own line
  o The entire formula is shown for calculations
	5		

Following course standards:
• Code standards:
  o Code restricted to 80 columns
  o Follows naming conventions for classes, variables, methods, and constants
  o Appropriate comment block at top of program file (may use javadoc conventions)
  o Methods appropriately commented (may use javadoc conventions)
  o Variables have meaningful names
  o Braces align correctly
  o Control statements formatted correctly
• All non-code files contain your name, the course code (CITP 190), and the project number at the top of the file.
• All design diagrams are in one file.
• All files are in standard 8 ½ by 11 inch format with at least ½ inch margins on all sides of the page.
	5		

Penalties: • Incorrect calculations • Output is not presented as shown (including spelling and spacing) • Code does not follow the standards • Not all test data was used • Reflects material outside what has been covered in Chapters 1 through 10 and Chapter 13. • Using any classes not mentioned in the instructions or does not use one of the classes mentioned in the instructions • Using a `continue` statement or misusing a `break` statement	**-20 for any of the items listed**		
Total	**20**	**0.0**	