

Item	Possible Points	Earned Points	Notes
Proof <ul style="list-style-type: none"> Shows all test data 	3	3	Okay
Screen capture(s)	2	2	Okay
Program design for Project <ul style="list-style-type: none"> The <code>main()</code> method: <ul style="list-style-type: none"> has code to catch an Exception if the user enters a customer number that does not exist. verifies that the customer number is a valid integer between 1 and 5000 inclusive. A Validator class with the appropriate method may be included. the code for the Exception displays the error message. 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 <code>getCustomer()</code> method of the CustomerIO class has been modified to throw a <code>NoSuchCustomerException</code> if the customer does not exist. No other changes have been made. The <code>NoSuchCustomerException</code> class: <ul style="list-style-type: none"> has a constructor that accepts an <code>int</code> parameter and not other parameter. passes the message "The customer number does not exist." to the constructor of the Exception class (where <i>number</i> is the <code>int</code> that was passed to it). stores the <code>int</code> passed to the constructor in a private instance variable. has a <code>getCustomerNumber()</code> method that returns the value of the private instance variable. 	5	4.5	There was no requirement for a set method for the <code>NoSuchCustomerException</code> class.

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Design Diagrams: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> Each flowchart begins and ends with a terminator symbol Note: the main method beginning terminator contains the word <code>main()</code>. The main method ending terminator contains the word <code>return</code>. 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 <code>START</code> and the ending terminator contains the word <code>END</code>. The appropriate symbol is used Only one task per process symbol (the rectangle); each variable declaration should be in its own symbol; show the entire formula for calculations 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: <ul style="list-style-type: none"> The pseudocode is appropriately indented Each variable declaration is on its own line The entire formula is shown for calculations Selection and iteration blocks have a clear beginning and ending If using Warnier Diagrams to diagram the logic: <ul style="list-style-type: none"> Braces are appropriately labeled Each variable declaration is on its own line The entire formula is shown for calculations 	5	2	There are no class diagrams. Most of the flowcharts are incomplete. There are Decision symbols that only have one flowline coming from them. There are symbols that have no flowline coming from them.
Following course standards: <ul style="list-style-type: none"> Code standards: <ul style="list-style-type: none"> Code restricted to 80 columns Follows naming conventions for classes, variables, methods, and constants Appropriate comment block at top of program file (may use javadoc conventions) Methods appropriately commented (may use javadoc conventions) Variables have meaningful names Braces align correctly 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	5	Okay
Penalties: <ul style="list-style-type: none"> 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 <code>continue</code> statement or misusing a <code>break</code> statement 	-20 for any of the items listed	-2	Note: you were given some code. The comments in those code files must indicate that you are not the author of the code. If you do not comment the code in this way, you are committing plagiarism.
Total	20	14.5	