

Item	Possible Points	Earned Points	Notes
Proof <ul style="list-style-type: none"> Shows all test data 	3	3	Okay
Screen captures	2	2	Okay
Program design for Project <ul style="list-style-type: none"> Uses ConsoleTestApp to test the Console class. The Console class has the following methods: <pre>// for output public void print(String s); public void println(String s); public void println(); // for input public String getRequiredString(String prompt); public String getChoiceString(String prompt, String s1, String s2); public int getInt(String prompt); public int getIntWithinRange(String prompt, int min, int max); public double getDouble(String prompt); public double getDoubleWithinRange(String prompt, double min, double max);</pre> The Console class is stored in a package named <code>myUtils.util</code> The Console class uses javadoc comments including the <code>@param</code> and <code>@return</code> tags. 	5	5	Good!
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	4	Several symbols do not have flowlines leading from them.

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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 through Chapter 9 • 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		
Total	20	19.0	