| | | | |
|---|---|---|---|
| | Grade Standards - Missing: 0%, Poor: up to 50%, Fair: up to 67%, Good: up to 82%, Excellent: up to 99%, Perfect: 100% | | |
| | **Detailed Rubric (Design)** | | |
| | | **100.00** | **<-- TOTAL** |
| | | | |
| **1** | **Constants and variables (See Note 1)** | ***15.00*** | **<--sub total** |
| | good use of constants (be thorough) | | |
| | good constant names | | |
| | good variable names | | |
| | | | |
| | | | |
| **2** | **User interface / data input** | ***18.00*** | **<--sub total** |
| | outputs a brief greeting message | | |
| | outputs prompt for material code | | |
| | outputs prompt for counter top length | | |
| | outputs prompt for counter top depth | | |
| | outputs prompt for counter top height | | |
| | outputs prompt for length edges to finish | | |
| | outputs prompt for depth edges to finish | | |
| | for character input, both uppercase and lowercase are accepted as valid | | |
| | | | |
| **3** | **Data validation algorithms (See Note 2)** | ***15.00*** | **<--sub total** |
| | all input data are validated to ensure they are valid and/or within limits | | |
| | prompts for data input are in reasonable order, test for errors and exit as soon as possible (don't make the user keep entering data if there has already been a fatal error) | | |
| | if any input data fail validation error message(s) are displayed | | |
| | processing terminates if any data fail validation, "abnormal" exits are allowed for Project #1, but will eventually be prohibited | | |
| | | | |
| | | | |
| **4** | **Calculation algorithms** | **40.00** | **<--sub total** |
| | square feet of material required for fabrication is accurately calculated | | |
| | linear feet of finished edges is accurately calculated | | |
| | cost for material is accurately calculated | | |
| | cost for finishing and polishing is accurately calculated | | |
| | total cost is accurately calculated | | |
| | | | |
| | | | |
| **5** | **Output** | ***12.00*** | **<--sub total** |
| | outputs length, depth, and height dimensions | | |
| | outputs square feet required for fabrication | | |
| | outputs cost data | | |
| | | | |
| | Note 1: For the Design Part, you will not explicitly specify data types, but you will be using names for "things". These named things will become constants or variables in your code. Make the names clear and understandable, and consider using the same names that you will declare in the coding part of the project. | | |
| | Note 2: Advanced error handling is not required for this project. However, you must test data entered to ensure that values are "reasonable" (refer to the project description for specific validation rules and what constitutes reasonable values). For data that do not meet this criteria, you should output a message to the user explaining the nature of the issue and that the program will exit. | | |
| | | | |
| | | | |
| | **Common Deductions (Design)** | | |
| | Filename does not follow conventions specified | -3.00 | |
| | Deviates from the specified pseudocode terms (-3 for each occurance; up to max as specified at right) | -15.00 | |
| | Uses any C++ specific code (-3 for each occurance up to the max deduction listed at the right) | -15.00 | |
| | Required comments and honor statement not included at start of file exactly as specified | -5.00 | |
| | Late penalty for each 15 minutes late | -2.50 | |