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| Grade Standards - Missing: 0%, Poor: up to 50%, Fair: up to 67%, Good: up to 82%, Excellent: up to 99%, Perfect: 100% | |
| Detailed Rubric (Code) | 100.00 |
| 1 Code Quality and Formatting | 15.00 |
| proper indentation | |
| good variable and constant names | |
| good use of constants (no "magic numbers" in calculations) | |
| good use of comments | |
| good use of vertical white space to separate code | |
| good use of horizontal white space to improve readability | |
| line length less than 100 characters | |
| 2 User interface / data input | 15.00 |
| 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 | |
| values entered by user are input into named variables of appropriate data type | |
| any extraneous characters entered after a valid entry are ignored | |
| error messages are clear and descriptive | |
| for character input, both uppercase and lowercase are accepted as valid | |
| 3 Achieves Program Intent | 15.00 |
| Submission correctly, and in good faith, implements code to achieve the intent and requirements of the program as specified in the project description and clarified during in-class discussions and forum posts. | |
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| 4 Data validation algorithms | 15.00 |
| 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 | |
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| 5 Calculation algorithms | 20.00 |
| 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 | |
| 6 Output | 20.00 |
| outputs length, depth, and height dimensions | |
| outputs square feet required for fabrication | |
| outputs cost data | |
| output is neatly arranged on screen and is consistent with the output shown in the example program | |
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| Common Deductions (Code) | |
| Program does not compile ON THE CLASS SERVER (deduction varies depending on how bad, value listed is max) | -50.00 |
| Program compiles but has warnings ON THE CLASS SERVER (deduction varies depending on how bad, value listed is max) | -30.00 |
| Program crashes during execution ON THE CLASS SERVER (deduction varies depending on how bad, value listed is max) | -40.00 |
| Code uses any global variables | -40.00 |
| Filename does not follow conventions specified | -3.00 |
| 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 |