Cross-List

**Cross Reference for Project 1**

**Where in Code**

|  |  |  |  |
| --- | --- | --- | --- |
| **Chapter** | **Section** | **Topic** | **Line number** |
| 2 | 2 | cout | Used throughout entire project |
|  | 3 | libraries | iostream, cstdlib, string, ctime |
|  | 4 | variables/literals | Lines 31-44 |
|  | 5 | Identifiers | Break, string, if, while, char, float, cin, etc…. |
|  | 6 | Integers | Follows my variables |
|  | 7 | Characters | Lines 38, 62, 122 |
|  | 8 | Strings | Lines 27 |
|  | 9 | Floats No Doubles |  |
|  | 10 | Bools | Lines 71 |
|  | 11 | Sizeof \*\*\*\*\* | Achieved |
|  | 12 | Variables 7 characters or less | Keep this consistent throughout project |
|  | 13 | Scope \*\*\*\*\* No Global Variables | Achieved |
|  | 14 | Arithmetic operators | + - \* / % |
|  | 15 | Comments 20%+ | Used throughout, better displayed in pseudo code |
|  | 16 | Named Constants |  |
|  | 17 | Programming Style \*\*\*\*\* Emulate | Achieved |
|  |  |  |  |
| 3 | 1 | cin | Lines 41, 57, 70, 117 |
|  | 2 | Math Expression | Lines 66, 83, 95, 108 |
|  | 3 | Mixing data types \*\*\*\* | Demonstrated through ratio usage |
|  | 4 | Overflow/Underflow \*\*\*\* |  |
|  | 5 | Type Casting | Line 337, 8, 40, 46 – 52, 56, 60, 69, 73, 81, 87, 93, 99 |
|  | 6 | Multiple assignment \*\*\*\*\* | Line 69 |
|  | 7 | Formatting output | Line 113 |
|  | 8 | Strings | Lines 27 |
|  | 9 | Math Library |  |
|  | 10 | Hand tracing \*\*\*\*\*\* | Achieved |
|  |  |  |  |
| 4 | 1 | Relational Operators | Lines 55, 59, 62, 63, 68, 72, 75, 80, 86, 89, 90, 92, 98, 101, 102, 104, 109, 118 |
|  | 2 | if | Lines 58, 71, 79, 85, 97 |
|  | 4 | If-else | Lines 91 |
|  | 5 | Nesting | Most of the project is different nested statements. Primarily demonstrated in the menu function. |
|  | 6 | If-else-if | Lines 85, 97 |
|  | 7 | Flags \*\*\*\*\* |  |
|  | 8 | Logical operators |  |
|  | 11 | Validating user input | Lines 41, 57, 70 |
|  | 13 | Conditional Operator | Lines 41, 57, 70, 117 |
|  | 14 | Switch |  |
|  |  |  |  |
| 5 | 1 | Increment/Decrement | Lines 78 |
|  | 2 | While |  |
|  | 5 | Do-while | Lines 42-118, 54-63, 67-110 |
|  | 6 | For loop | Lines 140-176 |
|  | 11 | Files input/output both |  |
|  | 12 | No breaks in loops \*\*\*\*\*\* |  |
|  |  |  |  |
|  |  |  |  |
| \*\*\*\*\*\* Not r | equired to | show |  |

Page 1