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, iomanip, cmath, cstdlib, fstream, string, ctime |
|  | 4 | variables/literals | Lines 31-44 |
|  | 5 | Identifiers | Break, const, string, switch, unsigned, static, int, if, for, while, char, float, etc…. |
|  | 6 | Integers | Follows my variables |
|  | 7 | Characters | Lines 38, 62, 122 |
|  | 8 | Strings | Lines 37, 54, 58, 225 |
|  | 9 | Floats No Doubles | Wins, losses, winRatio, loseRatio, winLost, plays |
|  | 10 | Bools | Lines 61 and 70 |
|  | 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 | Lines 33-36  Min, max, black, red |
|  | 17 | Programming Style \*\*\*\*\* Emulate | Achieved |
|  |  |  |  |
| 3 | 1 | cin | Lines 54, 58, 67, 72, 111, 116, 130, 135, 144, 149, 199 |
|  | 2 | Math Expression | Lines 187 -189 |
|  | 3 | Mixing data types \*\*\*\* | Demonstrated through ratio usage |
|  | 4 | Overflow/Underflow \*\*\*\* |  |
|  | 5 | Type Casting | Line 187 |
|  | 6 | Multiple assignment \*\*\*\*\* | Line 155 |
|  | 7 | Formatting output | Line 192 |
|  | 8 | Strings | Lines 37, 44, 54, 58, 225 |
|  | 9 | Math Library | Line 13 |
|  | 10 | Hand tracing \*\*\*\*\*\* | Achieved |
|  |  |  |  |
| 4 | 1 | Relational Operators | Lines 62, 68, 79, 87, 103, 112, 118, 122, 131, 140, 145, 152, 170, 179 |
|  | 2 | if | Lines 62, 79, 152 |
|  | 4 | If-else | Lines 95, 162, 183 |
|  | 5 | Nesting | Most of the project is different nested statements. Primarily demonstrated in the menu function. |
|  | 6 | If-else-if | Line 122 |
|  | 7 | Flags \*\*\*\*\* | Line 183 |
|  | 8 | Logical operators | Lines 62, 68, 112, 122, 145 |
|  | 11 | Validating user input | Lines 68, 112, 131, 145, 183, 217 |
|  | 13 | Conditional Operator | Lines 68, 112, 131, 145 |
|  | 14 | Switch | Lines 200-218 |
|  |  |  |  |
| 5 | 1 | Increment/Decrement | Lines 82-84, 98-100, 155-157, 165-167 |
|  | 2 | While | Lines 68-73, 112-117, 131-136, 145-150 |
|  | 5 | Do-while | Lines 74-118, 126-179, |
|  | 6 | For loop | Lines 140-176 |
|  | 11 | Files input/output both | Lines 47-51, 223-230 |
|  | 12 | No breaks in loops \*\*\*\*\*\* |  |
|  |  |  |  |
|  |  |  |  |
| \*\*\*\*\*\* Not r | equired to | show |  |

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