**Scoring Rubric for Project 5: Blind Man’s Bluff**

*Due 10/24/2019 @ 3:30 pm*

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| Student Name: Alexa Brown |

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|  | **Score** | **Maximum** |
| **Execution (50 pts):** | | |
| Program compiles without errors (warnings are okay) | 50 | **50** |
| **Implementation (40 pts):** | | |
| Implements a default constructor and one alternate constructor and implements one member function that returns a string specifying the value of the card in the format of “Jack of Hearts” in Card class | 5 | **5** |
| Implements at least one overloaded comparison operator (such as < or >) for Card class following the given ordering rules | 5 | **5** |
| Implements copy constructor for Deck class that allocates memory and performs deep copy | 1 | **5** |
| Implements destructor for Deck class that frees memory | 2.5 | **5** |
| Implements assignment operator overload that frees old memory, allocates new memory, performs deep copy, and handles self-assignment case | 1 | **5** |
| Implements a member function that populates the deck with 52 cards. | 5 | **5** |
| Implements a member function that shuffles the cards in the deck by performing cardsLeft^2 swaps of two randomly chosen cards in the deck | 5 | **5** |
| Includes a Deck member function that removes a card from the deck and returns its value and implements a member function that adds a card to the deck (or returns false if there is no physical space in the deck). | 5 | **5** |
| Asks the user to play again after each turn; the game ends when the player chooses not to play or the deck is empty with the user’s number of wins and losses. | 5 | **5** |
| **Style (5 pts):** | | |
| The driver and functions are easy to follow based on the use of comments | 3 | **3** |
| Easily identifiable variable names | 2 | **2** |
| **Total (100 pts):** | 89.5 | **100** |

Notes:

To delete an array, you need to do delete[] cards; cards = nullptr;

You have some issues with your copy constructor. You declare cards to be just one object of the Card class, but it needs to be an array. Also, to do a deep copy, you need to loop through the elements of C in order to copy into cards. If you just set the pointers equal to each other, then it is a shallow copy since both pointers are pointing to the same place in memory.

Similar issue with your assignment operator overload.