Introduction to Programming EE2310 Homework 7-1

103061142 楊淳佑

Problem

- Complete shuffle functions for two versions of example codes: cards nostruct.cpp and cards struct.cpp.
- Complete a function to deal game cards for the struct versions (cards struct.cpp).

Solution, Program Flow & Structure

Shuffle Functions

- Generate two random numbers as the switching target.
 Here we set A and B
- Assign card A to a buffer.
- Assign card B to card A. Switch card A and B.
- Assign buffer to card B.

Game Cards Dealing Function

Use Deal to save the first card to the p1 array.
 Use Deal to save the first card to the p2 array.
 * 2 times
 * 2 times

* >500 times.

• Use Deal to save the first card to the table array. \right\} * 2 times

Output Result

```
■ C:\Users\淳佑\... - □ ×
 [Club, 10]
[Club, 10]
[Spade, 2]
[Diamond, 9]
[Spade, 6]
[Spade, 6]
[Heart, 7]
[Heart, 2]
[Club, 7]
[Spade, 8]
[Diamond, 4]
                                                                                                   ■ C:\Users\淳佑\... - □ ×
                                                                                                  [Club, 10]
[Spade, 10]
[Spade, 2]
[Diamond, 9]
                                                                                                   [Spade, 6]
                                                                                                  [Spade, Ace]
[Heart, 7]
 [Diamond, 4]
[Spade, Jack]
[Club, 5]
                                                                                                  [Heart, 2]
[Club, 7]
                                                                                                  [Club, 7]
[Spade, 8]
[Diamond, 4]
[Spade, Jack]
[Club, 5]
[Diamond, 7]
 [Diamond, 7]
[Club, Jack]
[Club, Jack]
[Diamond, 6]
[Heart, 4]
[Club, 2]
[Club, King]
[Heart, 9]
[Heart, 6]
[Club, 6]
                                                                                                  [Club, Jack]
[Diamond, 6]
[Heart, 4]
[Club, 2]
[Club, King]
[Club, 6]
[Diamond, Ace]
[Diamond, 5]
[Heart, 8]
[Diamond, Queen]
[Spade, King]
[Heart, 3]
[Heart, Queen]
[Spade, 5]
[Club, 9]
[Diamond, 2]
                                                                                                  [Heart, 9]
[Heart, 6]
[Club, 6]
[Diamond, Ace]
                                                                                                  IDiamond, Heel
IDiamond, 51
IHeart, 81
IDiamond, Queen1
ISpade, King1
IHeart, 31
  [Diamond, 2]
IDiamond, 21
[Club, Queen]
[Diamond, 8]
[Spade, 7]
[Heart, King]
[Spade, 3]
[Club, Ace]
[Diamond, Jack]
[Diamond, King]
[Heart, 10]
[Club, 8]
[Club, 8]
                                                                                                  [Heart, Queen]
[Spade, 5]
[Club, 9]
[Diamond, 2]
                                                                                                                                                                                                 ■ C:\Users\淳佑\... - □ ×
                                                                                                   [Club, Queen]
                                                                                                                                                                                                [Spade, Queen]
                                                                                                  [Club, queen]
[Diamond, 8]
[Spade, 7]
[Heart, King]
[Spade, 3]
[Club, Ace]
                                                                                                                                                                                                [Spade, 4]
[Heart, Jack]
[Club, 4]
                                                                                                                                                                                                P2:
[Spade, 9]
[Club, 3]
[Club, 8]
[Heart, Ace]
[Diamond, 3]
[Club, 4]
[Heart, Jack]
[Heart, 5]
[Diamond, 10]
                                                                                                  [Diamond, Jack]
[Diamond, King]
[Heart, 10]
[Club, 8]
                                                                                                                                                                                                 [Diamond, 3]
                                                                                                                                                                                                 [Heart, Ace]
                                                                                                  [Heart, Ace]
[Diamond, 3]
[Club, 4]
[Heart, Jack]
[Heart, 5]
                                                                                                                                                                                                 Table:
 [Club, 3]
                                                                                                                                                                                                [Diamond, 10]
 [Spade, 9]
[Spade, 4]
[Spade, Queen]
                                                                                                                                                                                                [Heart, 5]
[Club, 8]
                                                                                                  [Diamond, 10]
[Club, 3]
                                                                                                                                                                                                 [Heart, 10]
                                                                                                  [Spade, 9]
[Spade, 4]
 Process exited after 0.03244
請按任意鍵繼續 - - -
                                                                                                                                                                                                 Process exited after 0.03668
請按任意鍵繼續 - - -
                                                                                                   [Spade, Queen]
```

cards nostruct.cpp cards struct.cpp