

Quiz 06, Supplemental Array Quiz

T-SQL Fundamentals

This is a timed test. You have thirty minutes to complete the test. When you finish the test, upload your output file to Canvas. Do not publish your answer to your git repository.

Write a console C# program. It will have the same functionality as the *Cards* lab in Chapter 10 (Arrays) of the *C# Step by Step* book. These are the requirements.

1. Declare an integer array of 52 elements.
2. Initialize the array with integers 0 through 51.
3. Write a void method that accepts an integer argument of 0 through 51 and prints the card value of the integer, i.e., 0 will print **Two of Clubs**, 1 will print **Three of Clubs**, 50 will print **King of Spades**, 51 will print **Ace of Spades**, and so on. Aces high.
4. Print the card value of each element of the array.
5. Create four hands: North, East, South, and West.
6. “Deal” the cards into each hand, 13 cards to a hand. The cards must be dealt randomly and each card can be dealt once and only once.
7. Print the hands.

Hints: $i \% 13 = \text{value}$, $i / 13 = \text{suit}$, $i / 4 = \text{hand}$. Here is my output.

This is Cards-console

```
initialize new deck=====
two of Clubs, three of Clubs, four of Clubs, five of Clubs, six of Clubs,
seven of Clubs, eight of Clubs, nine of Clubs, ten of Clubs, Jack of Clubs,
Queen of Clubs, King of Clubs, Ace of Clubs, two of Diamonds, three of Diamonds,
four of Diamonds, five of Diamonds, six of Diamonds, seven of Diamonds, eight of
Diamonds, nine of Diamonds, ten of Diamonds, Jack of Diamonds, Queen of Diamonds,
King of Diamonds, Ace of Diamonds, two of Hearts, three of Hearts, four of Hearts,
five of Hearts, six of Hearts, seven of Hearts, eight of Hearts, nine of Hearts,
ten of Hearts, Jack of Hearts, Queen of Hearts, King of Hearts, Ace of Hearts,
two of Spades, three of Spades, four of Spades, five of Spades, six of Spades,
seven of Spades, eight of Spades, nine of Spades, ten of Spades, Jack of Spades,
Queen of Spades, King of Spades, Ace of Spades,

deal from new deck=====

~~North~~  three of Diamonds
~~East~~   King of Diamonds
~~South~~  two of Hearts
~~West~~   five of Diamonds
~~North~~  Ace of Hearts
~~East~~   ten of Hearts
~~South~~  two of Spades
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~~West~~  eight of Clubs
~~North~~  three of Spades
~~East~~  ten of Clubs
~~South~~  ten of Diamonds
~~West~~  Jack of Spades
~~North~~  Jack of Hearts
~~East~~  seven of Diamonds
~~South~~  nine of Hearts
~~West~~  Ace of Clubs
~~North~~  nine of Diamonds
~~East~~  nine of Clubs
~~South~~  four of Hearts
~~West~~  three of Hearts
~~North~~  King of Spades
~~East~~  Jack of Clubs
~~South~~  Queen of Spades
~~West~~  seven of Spades
~~North~~  eight of Hearts
~~East~~  seven of Hearts
~~South~~  Queen of Clubs
~~West~~  ten of Spades
~~North~~  eight of Diamonds
~~East~~  nine of Spades
~~South~~  five of Spades
~~West~~  Jack of Diamonds
~~North~~  three of Clubs
~~East~~  Ace of Diamonds
~~South~~  five of Hearts
~~West~~  Ace of Spades
~~North~~  King of Hearts
~~East~~  four of Diamonds
~~South~~  four of Clubs
~~West~~  King of Clubs
~~North~~  two of Diamonds
~~East~~  six of Clubs
~~South~~  four of Spades
~~West~~  Queen of Hearts
~~North~~  seven of Clubs
~~East~~  five of Clubs
~~South~~  two of Clubs
~~West~~  six of Diamonds
~~North~~  six of Spades
~~East~~  Queen of Diamonds
~~South~~  eight of Spades
~~West~~  six of Hearts
all done=====
Press any key to continue . . .

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