



## COMSATS University Islamabad, Lahore Campus

Block–C, Department of Computer Science

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### LabTask

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#### Problem Statement :

Modify the Card Shuffling and Dealing Simulation (Fig 7.10) from your textbook to find five cards of consecutive face values. Your program should continue calling the shuffle method until the required sequence is found.

Two sample runs of the program are given below help you understand what the expected output is:

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```
C:\school\FA22\OOP\LabTasks>java DeckOfCardsTest
```

#### Sequence found at location 39

Three of Spades, Four of Hearts, Five of Hearts, Six of Spades, Seven of Spades

Queen of Clubs	Nine of Clubs	Nine of Spades	Four of Diamonds
Six of Clubs	Queen of Diamonds	Ace of Diamonds	King of Diamonds
Queen of Spades	Jack of Hearts	Seven of Hearts	Seven of Diamonds
Eight of Hearts	Ace of Spades	Five of Clubs	Three of Diamonds
Six of Diamonds	Five of Spades	Jack of Spades	Deuce of Hearts
King of Hearts	Ten of Spades	Ace of Clubs	King of Clubs
Nine of Diamonds	Ten of Clubs	Five of Diamonds	Three of Hearts
King of Spades	Nine of Hearts	Jack of Diamonds	Eight of Clubs
Deuce of Diamonds	Eight of Diamonds	Jack of Clubs	Four of Clubs
Deuce of Clubs	Seven of Clubs	Ace of Hearts	<b>Three of Spades</b>
<b>Four of Hearts</b>	<b>Five of Hearts</b>	<b>Six of Spades</b>	<b>Seven of Spades</b>
Deuce of Spades	Four of Spades	Ten of Diamonds	Eight of Spades

Ten of Hearts    Queen of Hearts    Three of Clubs    Six of Hearts

The above sequence was found after 816 shuffles

C:\school\FA22\OOP\LabTasks>java DeckOfCardsTest

## Sequence found at location 28

Eight of Clubs, Nine of Clubs, Ten of Hearts, Jack of Spades, Queen of Spades

Three of Clubs    Five of Clubs    Three of Hearts    Six of Spades  
Eight of Spades    Jack of Diamonds    Six of Hearts    Three of Diamonds  
Deuce of Clubs    Deuce of Diamonds    Queen of Clubs    Nine of Diamonds  
King of Diamonds    Four of Diamonds    King of Spades    Five of Spades  
Ace of Spades    Seven of Hearts    Ace of Clubs    Six of Diamonds  
Ten of Clubs    Deuce of Spades    Ten of Spades    King of Hearts  
Queen of Hearts    Five of Diamonds    Ace of Diamonds    Four of Hearts  
**Eight of Clubs    Nine of Clubs    Ten of Hearts    Jack of Spades**  
**Queen of Spades**    Eight of Hearts    King of Clubs    Nine of Hearts  
Four of Clubs    Nine of Spades    Jack of Clubs    Five of Hearts  
Ace of Hearts    Ten of Diamonds    Seven of Spades    Deuce of Hearts  
Seven of Diamonds    Three of Spades    Seven of Clubs    Jack of Hearts  
Eight of Diamonds    Queen of Diamonds    Four of Spades    Six of Clubs

The above sequence was found after 1412 shuffles

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The submission should follow the usual guidelines of comments, indentation and filename being your SID.

Due Date :