MAP523/DPS923 Quiz #3: Wednesday February 17, 2016

Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Student I.D. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Q1. Briefly explain how a UITableViewController works? (**4 marks**)

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Q2. Write the Swift code for a class named “deckOfCards”.

The class should have a default initializer and stored properties of your

choice to accomplish the following task:

1. Has a method named: dealHand(n: Int) that displays n random cards as follows:

A deck of 52 cards consists of 4 suits: Spades (S), Clubs (C), Diamonds (D), and

Hearts (H), with each suit made up of 13 different card ranks:

2, 3, 4, 5, 6, 7, 8, 9, 10, J, Q, K, and A (where J=Jack, Q=Queen, K=King

and A=Ace).

Examples of a series of 5 randomly dealt cards are:

AC-2D-7H-JS-AD

10S-9S-8D-6C-7D

2S-3S-6S-QS-5S

KD-KH-4H-KS-QH

JC-4D-JD-JH-4S

where the first piece of data represents the card's rank followed by the card's

suit. The function then displays if there are at least any pair (2 cards of the

same rank) in the hand.

Note: You will need to use the arc4random\_uniform( ) function and you might

consider using a Swift dictionary to store the cards as keys of 0 to 51

and values of cards from: 0=>“2S”, 1=>“2C”, 2=>”2D”, 3=>”2H”, etc.

(**16 marks**).