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Period 5

Elevens Lab Questions

1) No Questions

2) A) A deck contains one or more cards, but cards can exist without a deck

B) 6

C) String[] suits = new String[4];

Suits[0] = “Spades”; suits[1] = “Hearts”; suits[2] = “Diamonds”; suits[3] = “Clubs”;

String[] ranks = new String[13];

ranks[0] = “One”; ranks [1] = “Two”; ranks [2] = “Three”; ranks [3] = “Four”;

ranks[4] = “Five”; ranks [5] = “Six”; ranks [6] = “Seven”; ranks [7] = “Eight”;

ranks[0] = “Nine”; ranks [8] = “Jack”; ranks [9] = “Queen”; ranks [10] = “King”;

ranks[12] = “Ace”;

int[] pointValues = new int[10];

for(int i = 0; i<13; i++){pointValues[i] = i;}

D)Yes, they’ll get assigned values respectively

3) A) public static String flip(){

Random generator = new Random();

int determineFlip = generator.nextInt(3);

//Tails if zero, heads if one or two

if(determineFlip == 0){return “Tails”;}

else(){return “Heads”;}

}

B) public static Boolean arePermutations(int[] array1, int[] array2){

boolean[] answer = new boolean[array1.length];

for(int i = 0; i < array1.length; i++){

for(int num; array2){

if(array1[i] == num){

Boolean[i] = true;

Break;

}

}

if (boolean[i] = false){return false}

}

return true;

}

C) It’ll start at the rear, generate progressive random numbers (1, 2, 3, 4) and swap them as the loop iterates backwards through half of the array.

5) Buggy1: Constructor or Method (write method name): deal()

Describe a Possible Code Error: Not decrementing the size after successfully dealing a card.

Buggy2: Constructor or Method (write method name): testOneCard()

Describe a Possible Code Error: Bad boolean operator comparison

Buggy3: Constructor or Method (write method name): shuffle()

Describe a Possible Code Error: Does not iterate through shuffled deck to assign to original deck

Buggy4: Constructor or Method (write method name): Constructor

Describe a Possible Code Error: Bounds error when setting size

6) A) 5♠ 4♥ 2♦

5♠ 6♣

4♥ 6♣

4♥ 2♦ 5♣

2♦ 6♣ 2♠ A♠

6♣ 5♣

A♠ J♥

A♠ K♦

B) False, because any three cards that can add up to be eleven can be present such as 8, 2, and an ace. That’s if you win. You can have an empty deck, three cards on the board, and lose that round.

C) If you know the values of the cards being dealt, yes. That is, if you carefully think about the cards in the deck and ones that have already been played, you can make choices accordingly, such as opting not to take that Ace and King when you know there will be a Queen and Jack to come.

7)