Assignment 1 - Decisions

Due: Mar. 7, 23:59 PT

Overview

This assignment includes 2 parts, covering Lesson 3 - Lesson 8. I suggest you put each part as a separate class (.java file) under ONE project so that it's easier to submit. And please **pay close attention to the specifications**, since the autograder cannot recognize different package names, class names, etc.

You can assume the inputs are always correct, so you don't need to have any input validation.

Part 1. Time Difference (4.5 pts)

Write a **public static** function that **takes two Strings** as two times in military format (hhmm) and **prints** the number of hours and minutes between the two times. If the first time is later than the second time, assume the second time is the next day.

Specifications

- Package name: edu.sjsu.assignment1
- Class name: MyTime
- Method name: printTimeDifference
- Output format: X hour(s) Y minute(s)

Examples

- Example 1: The first time smaller than the second time
  Code: `printTimeDifference("0120", "1510");`
  Output: 13 hour(s) 50 minute(s)
- Example 2: The first time greater than the second time
  Code: `printTimeDifference("1635", "0250");`
  Output: 10 hour(s) 15 minute(s)

Part 2. Card Description (5.5 pts)

Implement a class called Card whose **constructor takes** the shorthand of a card in **String** and whose **getDescription** method **takes nothing** but **returns** a full description of the card in **String** based on the table below.

If the shorthand is not in the correct format, the getDescription method should return the string "Unknown".

	Shorthand	Full
	A	Ace
	2 - 10	Card values (Two for 2, Three for 3, etc.)
Ranks	J	Jack
	Q	Queen
	K	King
	D	Diamonds
Suits	H	Hearts
	S	Spades
	C	Clubs

Specifications

- Package name: edu.sjsu.assignment1
- Class name: Card
- Method name: getDescription
- Return String format: Rank of Suit

Examples

- Example 1: Shorthand = 10S, full description = "Ten of Spades"

```
Card card = new Card("10S")
String fullDescription = card.getDescription();
```

  After executing the code, `fullDescription` should be "Ten of Spades".

- Example 2: Shorthand = QC, full description = "Queen of Clubs"

```
Card card = new Card("QC")
String fullDescription = card.getDescription();
```

  After executing the code, `fullDescription` should be "Queen of Clubs".

- Example 3: Shorthand = 11H, full description = "Unknown"

```
Card card = new Card("11H")
String fullDescription = card.getDescription();
```

  After executing the code, `fullDescription` should be "Unknown".