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<https://bitbucket.org/mkhaliki/assignment-2-e4.17-and-e5.19/src/master/>

How to run:

Card.java needs to be in the same project as E5_19.java

Citation:

<https://www.geeksforgeeks.org/java-util-hashmap-in-java/>

Assignment 2 > src > E4_17

Project

Assignment 2 ~/Documents/CS49J workspace

out

src

Card

E4_17

E5_19

Assignment 2.iml

External Libraries

Scratches and Consoles

E4_17.java

E5_19.java

Card.java

```
2
3 public class E4_17 {
4     public static void main(String args[]) {
5         Scanner in = new Scanner(System.in);
6         System.out.println("Please enter the first time: ");
7         int firstValue = in.nextInt();
8         System.out.println("Please enter the second time: ");
9         int secondValue = in.nextInt();
10
11         while (firstValue > 2359 || firstValue < 0 || secondValue > 2359 || secondValue < 0) {
12             System.out.println("\nTime entered is not valid!");
13             System.out.println("Please enter the first time: ");
14             firstValue = in.nextInt();
15             System.out.println("Please enter the second time: ");
16             secondValue = in.nextInt();
17         }
18
19         if (secondValue >= firstValue) {
20             int difference = secondValue - firstValue;
21             int hours = difference / 100;
22             int minutes = hours >= 1 ? difference % (hours * 100) : difference;
23             if ((firstValue / 10) % 10 >= (secondValue / 10) % 10 && minutes > 40)
24                 minutes -= 40;
25             System.out.println(hours + " hour(s) " + minutes + " minute(s)");
26         }
27     }
28 }
```

Run: E4_17

/Library/Java/JavaVirtualMachines/jdk1.8.0_91.jdk/Contents/Home/bin/java ... <1 internal call>

Please enter the first time:
0930

Please enter the second time:
1700

7 hour(s) 30 minute(s)

Process finished with exit code 0

9: Version Control

Terminal

4: Run

6: TODO

1 Event Log

All files are up-to-date (a minute ago)

10:1 LF UTF-8 4 spaces Git: master

Assignment 2srcE5_19

Project

Assignment 2
 .idea
 out
 src
 Card
 E4_17
 E5_19
 Assignment 2.iml
 External Libraries
 Scratches and Consoles

E4_17.javaE5_19.javaCard.java

```
1  import java.util.Scanner;
2
3  public class E5_19 {
4      public static void main(String args[]) {
5          Scanner in = new Scanner(System.in);
6          String userInput = "";
7          while(true) {
8              System.out.println("\nEnter the card notation (type Q to end program): ");
9              userInput = in.nextLine();
10             if (userInput.compareToIgnoreCase("Q") == 0)
11                 break;
12             Card card = new Card(userInput);
13             System.out.println(card.getDescription());
14         }
15     }
16 }
17
```

Run: E5_19

/Library/Java/JavaVirtualMachines/jdk1.8.0_91.jdk/Contents/Home/bin/java ... <1 internal call>

Enter the card notation (type Q to end program):
QS
Queen of Spades
Enter the card notation (type Q to end program):
KC
King of Clubs
Enter the card notation (type Q to end program):
|

9: Version ControlTerminal4: Run6: TODO

1 Event Log

All files are up-to-date (a minute ago)13:1 L F UTF-8 4 spaces Git: master