

```
16.         dayStr = "Sunday";  
17.     else dayStr="Invalid Day";  
18.  
19.     System.out.println(dayStr);
```

## T5

Given that the following expression evaluates to “h”:

```
"H".toLowerCase()
```

Can you improve the existing selection structure’s code to correct its behaviour for **Test Case 3**?

Do not use equalsIgnoreCase().

Test the results of your modification.

# Week 6 Lab Tasks

[Click HERE to download the lab application shell](#)

## L1 (0.7 marks)

Code this task inside lab1() method.

For this task, you are required to do the following:

1. declare three integer local variables
2. initialize the three variables with three random values in range 0..100
3. print out to the console the second largest value of the three variables. **You should use selection structures ONLY for this task.**

Support

- [How to get a random value in Java?](#)

Expected output

1 For values 22, 40, 83, the second max is 40

1 For values 76, 95, 74, the second max is 76

## L2 (1.3 marks)

**Code this task inside lab2() method.**

For this task, you are required to do the following:

1. declare a String local variable that starts with two or three letters represent an Australian state or territory followed by a number that represents suburb postcode. For example, 'VIC3150', 'NT0800', 'qld4660'.
  - a. the state/territory code can be a mixture of upper and lower cases
2. extract the state or territory code in a string variable
3. extract the suburb postcode in an integer variable
4. using the switch case control structure, find the capital city of the state/territory
  - a. your switch case must consider invalid codes
5. print out to the console the capital city and whether the suburb postcode is an even or odd number as shown in the examples below
  - a. if the state/territory code is invalid, then print 'Unknown state or territory'

Examples:

String input="vic3150"

your output: Your capital city is Melbourne and you live in a suburb with an even number of postcode

---

String input="ABC5698"

your output: Unknown state or territory

---

String input="ACT1972"

your output: Your capital city is Canberra and you live in a suburb with an even number of postcode

## Support

- [String subString\(\) method](#)
- [String charAt\(\) method](#)
- [String toUpperCase\(\) method](#) and [String toLowerCase\(\) method](#)
- [Convert String to integer in Java](#)



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