

**Tufts University**  
**Department of Computer Science**  
**COMP 20: Web Programming**  
**Fall 2015**  
**Practice Quiz 2. Closed Book.**

Quiz 2 will cover the following topics:

- Document Object Model (DOM)
- JavaScript objects and data structures
- Event and event handling (e.g., `navigator.geolocation`)
- JSON and JSON parsing
- First-class functions
- XMLHttpRequest
- `var` scoping
- Labs 4, 5, 6, and 7
- Assignment 2
- Cookies and local storage

***Google Maps API and jQuery will not be tested.***

### **Practice Questions**

1. Consider the following JavaScript. Assuming there are no errors in the code, the web browser supports geolocation detection, and `getMyLocation()` is called via `<body onload="getMyLocation()">`, what is the *most likely* output in the JavaScript console?

```
<script>
function getMyLocation() {
    found = 0;
    if (navigator.geolocation) {
        console.log(found);
        navigator.geolocation.getCurrentPosition(function(position) {
            found = 1;
            console.log(found);
        });
    }
    console.log(found);
}
</script>
```

2 Consider the following JavaScript program, what is the output in the JavaScript console?

```
var a = 6;
var b = 5;

function foo(a) {
    console.log(a * b);
}

function bar() {
    var a = 5;
```

```

    for (b = 0; b < 3; b++) {
        console.log(b * a);
    }
}

foo(3);
bar();
console.log(a);
console.log(b);

```

For questions 3 and 4, consider the following code snippet:

```

str = '{"person":{"name":"Carmen
SanDiego","loc":{"latitude":51.894444,"longitude":51.894444,"lastseen":"Sealand"}}}';
obj = JSON.parse(str);

```

3 (2 points). Assuming that the JSON string is correct and that it can be parsed correctly, how can you print the following message to the JavaScript console:

```
Carmen SanDiego was last seen in Sealand.
```

NOTE: `console.log("Carmen SanDiego was last seen in Sealand.");` is not acceptable!

4 (3 points). Will the code snippet above work? If not, what is wrong with it?

## Answers

1.

0

0

1

2.

15

0

5

10

6

3

3. `console.log(obj["person"]["name"] + " was last seen in " + obj["person"]["loc"]["lastseen"]);`

4. No, missing `"}` in JSON string.