CL Computer Science - Spring 2019
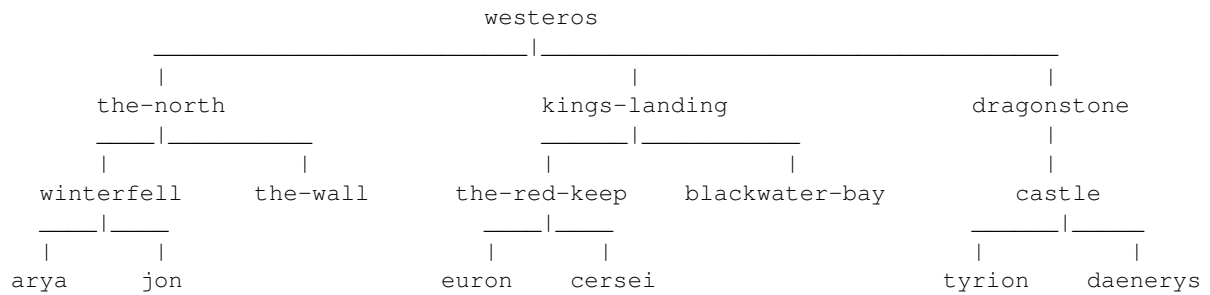
Web Programming Review Packet

Name: _____

Block: _____

Concepts

1) Describe the different functions of HTML, CSS, and JavaScript, and how they work together. You may use an analogy, or just describe them directly.

2) Define, in your own words, the Document Object Model, and describe its purpose.

3) Explain two key differences between regular positioning and flex positioning.

Short answer

1) Use the file hierarchy below to answer the the following questions.

```
                                westeros
        _____|_____
            |                          |                          |
        the-north                 kings-landing               dragonstone
        _____|_____          _____|_____               |
        |            |            |            |                   |
    winterfell    the-wall    the-red-keep  blackwater-bay       castle
    _____|____                 _____|____                    _____|_____
    |        |                 |        |                    |          |
  arya      jon             euron    cersei               tyrion    daenerys
```

   a) What is preventing `jon` and `daenerys` from seeing each other right now, besides their conflicting
      claims to the Iron Throne?

   b) If you're `arya`, what is the appropriate path to get to `cersei`?

2) Why must we stringify a JavaScript list before putting it into `localStorage`?

3) What is the "inverse" function of `JSON.stringify()`?

Find the errors

Mr. Chung is building a web page to keep track of class attendance. Ideally, this page will have a text input and a button. When a student walks into class, Mr. Chung will type their name into the box and then click the button. Once the button is clicked, the student's name should show up in the space below. Every time a new student is added, their name should show up below the previous student's name.

However, Mr. Chung is having a hard time, and he needs help debugging. Please take a look at his code and suggest corrections − write your corrections anywhere around the code. There are a total of 11 separate bugs to find (multiple bugs of the exact same type only count as 1).

index.html

```
<!DOCTYPE html>

<html>
    <head>
        <title>Attendance</title>
        <link rel="stylesheet" src="css/style.css">
        <script src="response.js"></script>
    </head>

    <body>
        <h1>Attendance</h1>
        <input type=number id="name">
        <button onclicks="add-student()">Add student</button>
    </body>
</html>
```

css/style.css

```
.h1 {
    font-size = 30px;
    color = blue;
}

#name {
    width = 50px;
}
```

js/response.js

```
function addStudent() {
    var studentName = document.getElementById("name")[0].value;
    document.getElementById("students-here").innerHTML = studentName;
}
```

3