

Day 7: Javascript Challenges

Goal

To use loops and variables to solve complex problems.

Learning Objectives

By the end of this exercise the student will be able to:

- identify when using a loop would be useful.
- apply their knowledge of loops by creating loops that handle repetitive tasks..

Introduction

Loops are great for taking care of repetitive tasks. Computers are great at repeating the same thing over and over without missing a beat.

Setup

- Create a new directory called **javascript-challenges** and create a new HTML file, CSS file, and JavaScript file (*index.html*, *main.css*, and *main.js* respectively).
- In the html file, make sure you have the basic HTML structure:

```
<!DOCTYPE html>
<html>
  <head>
    <meta charset="UTF-8">
    <title>title</title>
    <link rel="stylesheet" href="main.css">
  </head>
  <body>

    <script src="main.js"></script>
  </body>
</html>
```

All your work will be done in the JavaScript file, you should have your chrome developer tools open to see the console logs. **cmd-shift-j** on macs, or **ctrl-shift-j** on windows/linux.

Instructions

1 - A running total.

Using a for loop, compute the sum of the numbers in the array named prices; storing the result in the sum variable. Repl.it hosted version: <https://repl.it/@fizal619/NegativeAmazingSunbear>

```
var prices = [33, 26, 99, 120, 12, 45];
var sum = 0;

// Your code here

console.log("The sum is: ", sum);
```

2 - 99 Crows on the Wall

Write a program in a new Repl.it that outputs all 100 lines of the classic song: **99 Crows on the Wall**. You shouldn't have to write 300 lines of JavaScript for this program at all - **this is the perfect chance to use a for loop or while loop!**

The program should start off like this:

```
99 crows on the wall. 99 crows.
1 fell down and became a wight.
98 crows on the wall

98 crows on the wall. 98 crows.
1 fell down and became a wight.
97 crows on the wall

97 crows on the wall. 97 crows.
1 fell down and became a wight.
96 crows on the wall
```

And ends with:

```
1 crow on the wall. 1 single crow.
It fell down and became a wight.
There's no one left to defend Westeros now.
```

Completion Requirements

- Complete Workshop by end of allotted time limit.

- Group review session with the instructor.