Exercise   Wednesday

Introduction to Programming (/introduction-to-programming)
/ Arrays and Looping (/introduction-to-programming/arrays-and-looping)
/ Practice: Looping with for

Text

Goal: In the last lesson, we learned:

- The three parameters of a `for` loop
- How to use a `for` loop both with and without arrays

Practice utilizing for loops in a variety of ways by completing one of the exercises detailed below.

Warm Up

- What is the difference between `for` and `Array.prototype.forEach()` loops? Why should you generally favor `Array.prototype.forEach()`?
- How does a for loop know when to stop looping?
- What is the last parameter in a `for` loop and what is it for?

Code

Complete one of the exercises below.

Count Up By

Create a program that takes two numbers — one to count to and another to determine what multiple to use to get there.

Here is some sample input:
Count to: 30
Count by: 5
Output: 5, 10, 15, 20, 25, 30

Count to: 50
Count by: 7
Output: 7, 14, 21, 28, 35, 42, 49

Don't forget to consider how to handle any input that might be submitted:

- Empty values (user just presses enter)
- Non-numeric values (It may be helpful to read up about the numerical value, NaN (https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/isNaN))
- Negative numbers
- Count by number is larger than the count to numbers

Turn forEach() into For

Go back through the looping practice (https://www.learnhowtoprogram.com/introduction-to-programming/arrays-and-looping/practice-looping) problems, and redo one of them with a `for` loop instead of a `forEach()` loop.

Word Puzzle

Create a website that uses a method to replace vowels in a string with the dash symbol "-" to create a word puzzle to solve. Hide the original string when you show the resulting word puzzle, so that another person can try and guess it.

Example:

String Input: "Believe you can and you're halfway there. Theodore Roosevelt"

Puzzle Output: "B-l--v- y-- c-n -nd y--'r- h-lfw-y th-r-. Th--d-r- R--s-v-lt"

Do this **without** regular expressions. (If you don't know what a regular expression is yet, don't worry — we will be covering them in a future lesson.)

Peer Code Review

- Is the business logic and user interface logic distinctly separate?
- Are variable names descriptive and in lower camelCase?
- Does the code have proper indentation and spacing throughout?
- Are for loops being used correctly?
- Are `forEach()` loops being used correctly?

Previous (/introduction-to-programming/arrays-and-looping/looping-with-for)

Next (/introduction-to-programming/arrays-and-looping/when-to-use-for)

Lesson 37 of 50

Last updated March 24, 2023

disable dark mode

(http://www.epicodus.com)