

Winter Break is here...

While you code ...

- Pick your poison ... try solving these in either JavaScript, Java, or both!
- Make it easy ... pseudo-code before you real code
- Talk while you code (yes, out loud even if it feels awkward)
- Can it get better? Try refactoring your own code for an extra challenge
- Help each other practice interviewing skills

5 DAYS OF CODING

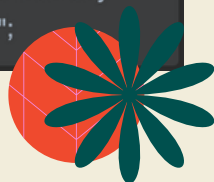
01

MAX CHARACTERS

Given a string of characters, return the character that appears the most often.

INPUT: "winter wonderland"

EXPECTED OUTPUT: n -> because the letter 'n' appears 3 times, which is more than any other letter in "winter wonderland";



02

ARRAY CHUNKING

Given an array and a size, split the array items into a list of arrays of the given size.

INPUT: array: [2,6,4,6,9,0,1] size: 3

EXPECTED OUTPUT: [[2,6,4], [6,9,0], [1]]

INPUT: array:

[2,6,4,6,9,0,17,2,6,9,4,4,2,7,6] size: 5

EXPECTED OUTPUT: [[2,6,4,6,9], [0,17,2,6,9], [4,4,2,7,6]]



Enjoy!

03

IS PALINDROME

Given a string, return true if the string is a palindrome, otherwise return false. (Hint: Palindrome: a word that is spelled the exact same in either direction.)

INPUT: string: `reindeer`

EXPECTED OUTPUT: `false` -> because reindeer and reednier (reindeer backwards) is not the same

INPUT: string: `kayak`

EXPECTED OUTPUT: `true` -> because kayak is the same as kayak spelled backwards

05

FIZZ BUZZ

Print numbers from 1 to 100, but, multiples of three should print “Fizz” and similarly print “Buzz” for multiples of 5 and lastly print “FizzBuzz” for multiples of three and five.

EXPECTED OUTPUT:

```
1
2
'fizz'
4
'buzz'
'fizz'
7
8
'fizz'
10
11
'fizz'
13
14
'fizzbuzz'
...
```

04

REVERSE A STRING

Given a string of words, find the words that are longer than 3 characters long, and return an array of those words reversed.

INPUT: string: `life is like a box of chocolates.`

EXPECTED OUTPUT: `['efil', 'ekil', 'setalocohc']` -> `life`, `like`, and `chocolates` are all longer than 3 characters.

INPUT: string: `fuller go easy on the pepsi`

EXPECTED OUTPUT: `['relluf', 'ysae', 'ispep']` -> `relluf` is `fuller` reversed

INPUT: string `Has this toothbrush been approved by the American Dental Association?`

EXPECTED OUTPUT: `['siht', 'hsurbhtoot', 'neeb', 'devorppa', 'nacirema', 'latned', 'noitaicossa']`



"I Knew Exactly What To Do. But In A Much More Real Sense, I Had No Idea What To Do."

- Michael Scott