

## Algorithms & Data Structures I Week 10 Lecture Note

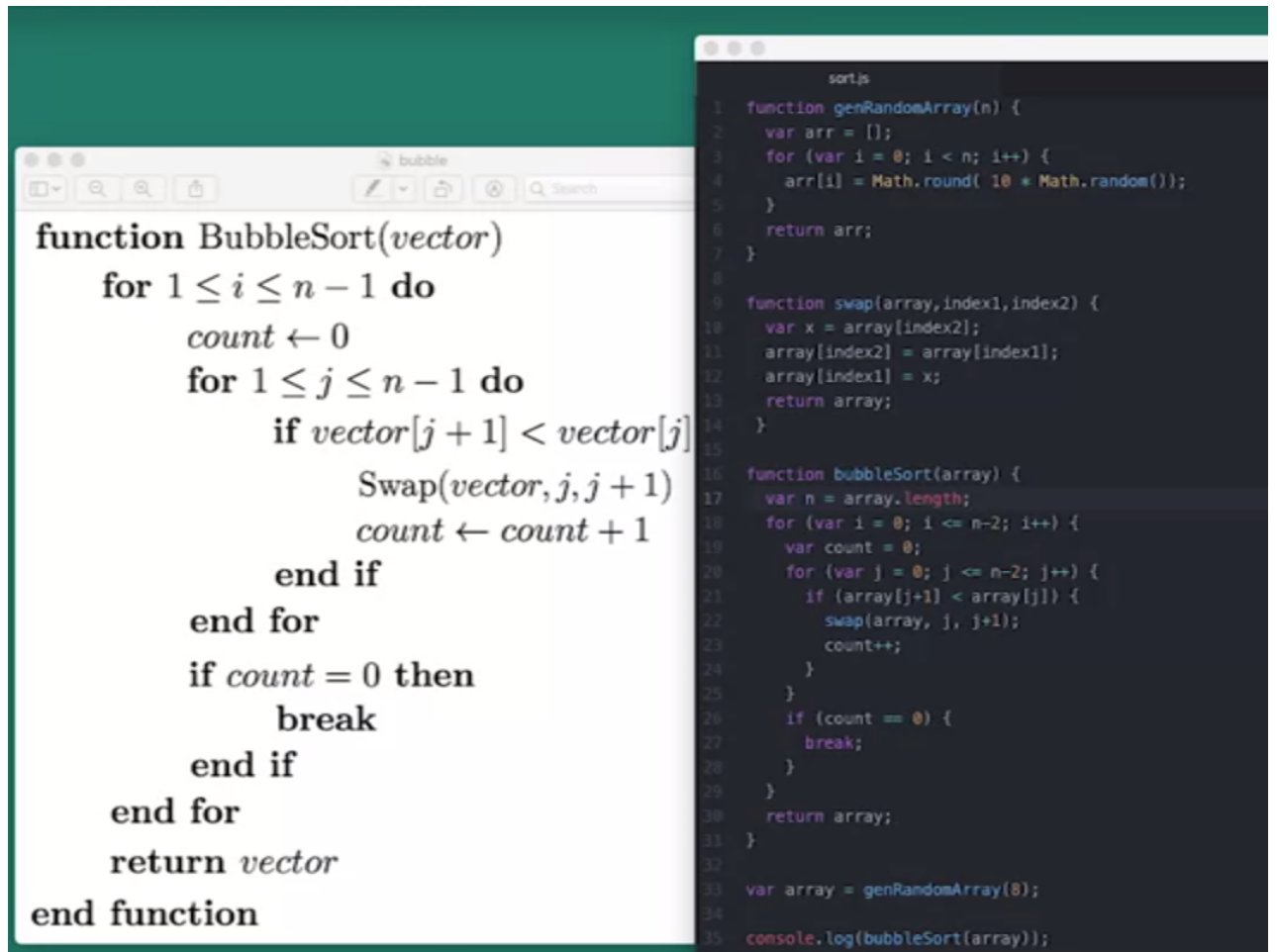
Notebook: Algorithms & Data Structures I

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Cornell Notes	Topic: Sorting data I, Part 2	Course: BSc Computer Science
		Class: CM1035 Algorithms & Data Structures I [Lecture]
		Date: November 05, 2020
Essential Question:		
How do we implement bubble and insertion sort in JavaScript?		
Questions/Cues:		
<ul style="list-style-type: none"><li>• How do we assign variable in Javascript like pseudocode?</li><li>• How increment/decrement a variable in Javascript?</li><li>• How do end a loop in JavaScript?</li><li>• What is the syntax for a for loop and a while loop in JavaScript?</li><li>• Why do we assign variable to use inside loops outside the actual loop?</li><li>• How do we implement bubble sort in JS?</li></ul>		
Notes		
<ul style="list-style-type: none"><li>• Assignment in JavaScript is done using the "=", the equal sign</li><li>• Variable are declared using the "var" or let keyword before the variable name</li><li>• To increment a value by one, we use the syntax variableName++<ul style="list-style-type: none"><li>◦ for (var i =1; i &lt;= done; i++) {      }      <ul style="list-style-type: none"><li>▪ The curly braces in the for loop includes what we want to happen for every iteration of the loop</li><li>▪ The ending curly brace replaces the "end for" or "end while" in pseudocode</li></ul></li></ul></li><li>• Always declare variable and initialize variables to use inside loops outside, to avoid reassignment of the variable for each iteration of the loop<ul style="list-style-type: none"><li>◦ while (cereal &gt; 0) {      cereal--;      }      <ul style="list-style-type: none"><li>▪ the "--" is to decrease the variable by one just like ++ is increase it by one</li></ul></li></ul></li></ul>		



## Summary

In this week, we learned about how to translate pseudocode into JavaScript.