**COMPUTER SCIENCE II WEEKLY QUIZ 2/03/2017**

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1. Name the property that controls the size of the array. How can you change it if necessary?

The property that controls the size of the array is arrayName.length = newsize;

To increase the size, set the length to a number higher than the highest index value. To decrease the size, set the length to a number lower than the highest index value.

1. Tuesday’s lab assignment asked you to 1) create a list of names obtained from the user 2) remove 2 of them from the list 3) put them back in the list 4) add a new name to the bottom of the list 5) remove that name.

List the Javascript commands required for each step of this process.

1. Slice
2. Splice
3. Pop
4. Push
5. Can the sort method alone be used to organize string data? If not, what else is necessary for it to successfully accomplish this task?

No, you need a compare function to sort the array content for string data.

1. Describe the benefit of using WHILE loops over other types of loops.

WHILE loops allow you to repeatedly run a block of code. The code inside a WHILE loop will continue executing as long as the loop condition is TRUE. Also WHILE loops offer more flexibility than other types of loops.

1. The slice method allows you remove data from an array while the splice can do the same while also allowing you to insert data. The pop method lets you add elements to the last term of the array while the push methods removes the last item in the array.
2. Describe the benefit using FOR loops over other types of loops. How can this also sometimes become a disadvantage?

FOR loops will repeatedly execute a group of commands. Unlike in other loops, these commands will be executed as many times as the programmer wants to run them. A disadvantage is for a FOR loop you need to put a counter statement, where in WHILE loops, that is not necessary.

1. List all of the values found in the array y after the code below is executed.

var x = new Array();

x = [“a”, “b”, “c”, “d”, “e”, “f”, “g”];

var y=x.slice(3,4);

c, d

1. What is a sparse array? Explain how using array methods can resolve this issue.

If an array has only been filled partially, where it has several items missing in between the first and last value it is called a sparse array. Sparse meaning thinly dispersed or scattered.

1. Describe the role loops play in user input validation.

For user input validation, loops will execute something if the condition is true. Example is if someone types in a salary, and that salary is over the limit, a message will come up saying error. You can combine loops and arrays, which solves the factor for repeating code.

1. How many parameters does the array splice method use and what are they?

Two parameters, start – the start index for extracting and size – the number of elements you want to extract.