

Intekglobal**JavaScript**

Exercise 1 (Chapter 1~6)

Estimated Time: 24 hours

1. Given an array of words, write a function that will sort the array in ascending order. It should also take an optional argument that can customize the sorting order. Custom sorting orders:

- a. descending
- b. sort by length ascending/descending
- c. sort by number of consonants ascending/descending.

Estimated Time: 1 hour.

2. Create a function that can limit the execution of other functions to a determined amount of times.

- a. Example:

```
function limitFunc (fn, num) { ... }
var limited = limitFunc (fn, 2);
limited (); // executes fine
limited (); // executes fine
limited (); // does not execute
```

Estimated Time: 6 hour.

3. Create a function that will set the color, font-size, and background color of a DOM element.

- a. If there are fewer arguments, it should place a default value.
- b. Use the *this* parameter to access the values of the DOM element. (e.g. this.color or this.style.color)

Estimated Time: 2 hour.

4. Create a function that can copy either all or specific properties of an object into another. The functionality should depend on the arguments received.

```
// properties of objB are copied onto objA
```

```
copyProp(objA, objB);
```

```
// only properties p1 and p2 from objB are copied over to objA
```

```
copyProp(objA, objB, ["p1", "p2"]);
```

Estimated Time: 2 hour.

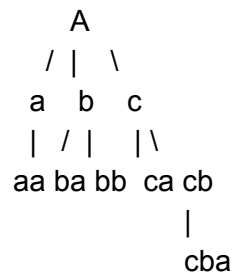
5. Create a function that will:

- a. return the number of vowels in a string
- b. return the number of digits in a whole number using logarithm operations.

Must be the same function.

Estimated Time: 5 hour.

6. Create a tree structure and a function that will display all of the elements in that tree. The function should not require any change in case the structure changes.
- a. Example of tree structure, not of expected output:



Estimated Time: 8 hour.