# TYPES, VALUES, OPERATORS PART 3

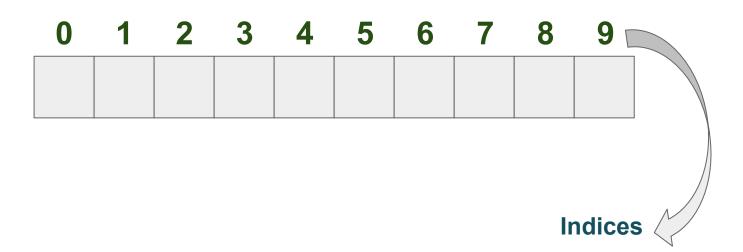
#### NESTED LOOPS

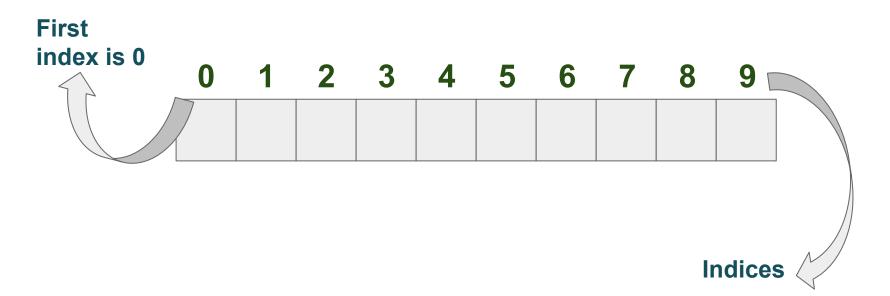
#### NESTED LOOPS

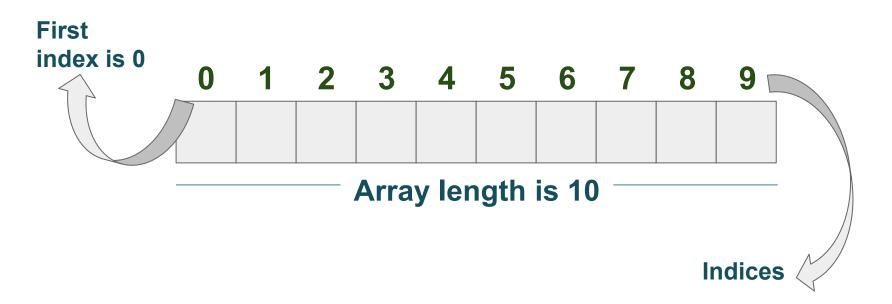
```
for(var i = 0; i < 3; i++){
    console.log(i);
    for(var j = 0; j < 3; j++) {
        console.log(j);
```

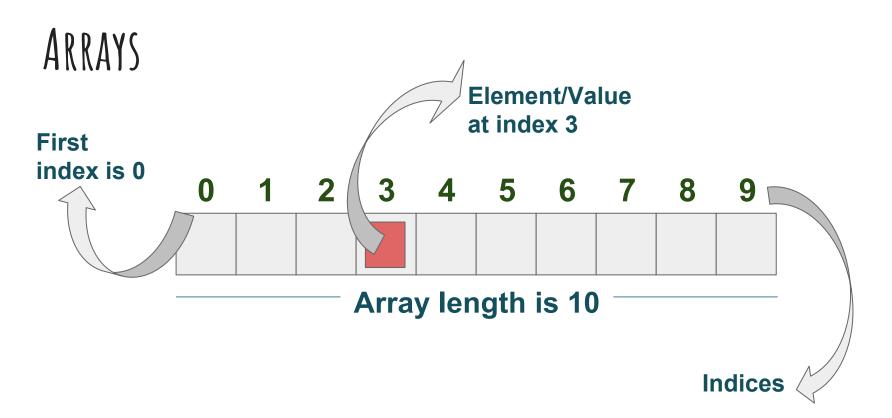


0	1	2	3	4	5	6	7	8	9









## ARRAYS: DECLARE, GET AND CHANGE

```
var arr = [10, 20, 30, 40, 50, 60];
var l = arr.length;
var element0 = arr[0];
var element4 = arr[2];
arr[1] = 25;
```

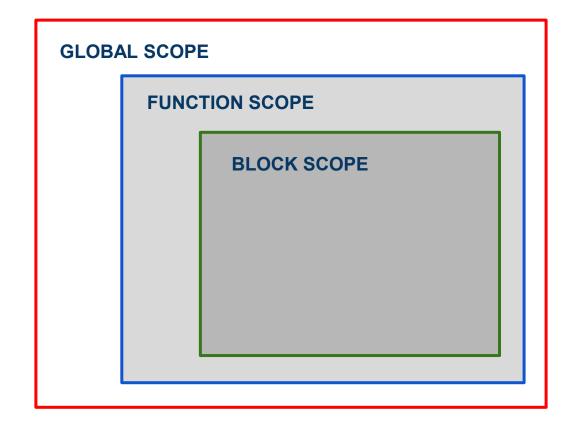
#### ARRAYS: POP AND PUSH

```
var arr = ['ok', 'wow', 'hi', 'yeah'];
var last = arr.pop();
var newLast = 'bye';
arr.push(newLast);
```

#### STRINGS

Strings can behave them like arrays. But there are differences!

## SCOPE



## LET, CONST

Declare variables that are limited in scope to the block.

#### VAR

The scope of a variable declared with var is its current execution context, [which is either the enclosing function or,] for variables declared outside any function, global.

#### HOISTING

Variable declarations are processed before any code is executed.

Declaring a variable anywhere in the code is equivalent to declaring it at the top.

This also means that a variable can appear to be used before it's declared.

This behavior is called "hoisting".

#### HOISTING

**let** will hoist the variable to the top of the block. However, referencing the variable in the block before the variable declaration results in a ReferenceError.

# THANK YOU