

# Background & Objectives

---

The `Array` class is one of the two main structures used to store and access data in ruby (the other being `Hash`, which we won't cover in this workshop.)

An array is ordered and each element can be accessed by its index. This exercise will help you understand how to create an array, store data in it then retrieve data using the index.

Remember, the array indexes start at `0`, not `1`.

Programmers are often asked to sort things, that's why you should read about some [sorting algorithms](#). Hopefully, the Ruby doc will give you several ways of sorting an `Enumerable`.

`Array` is a form of `Enumerable`, so you can use all methods referenced on the `Enumerable` doc page while using an `Array`, because `Array` includes the module `Enumerable`.

## Specs

---

- Implement a `#workshop_sort` method which takes one argument, an array of student names (`String`), and returns an array of those student names, sorted alphabetically.
- The sorting method should be case insensitive, e.g. put `batman` before `Superman`
- The method should keep the original spelling of names.
- There should be no interface logic in the `workshop_sort.rb` file. So no `puts` and `gets.chomp`, save these for the interface file.

## Interactive Program

Open the `interface.rb` file and make sure to use the `workshop_sort` method. It should work like this:

```
$ ruby lib/interface.rb
Type a student name:
felix
Type another student name (or press enter to finish):
Cedric
Type another student name (or press enter to finish):
brice
Type another student name (or press enter to finish):

Congratulations! Your Wagon has 3 students:
- brice, Cedric and felix
```

# Specs

---

- There is no test in the `interface.rb` part of the program.
- Nevertheless, make sure you display how many students the user has added once he/she is done adding students to the array
- Make sure you display a nice list of the students in the end, such as `alice`, `Bob` and `Charlie`. We do NOT want to see stuff like `['alice', 'Bob', 'Charlie']` in the terminal when we run the `interface.rb` file

## Key learning points

---

Get familiar with array basic operations. You should know the syntax used to:

- create an array
- append a new element to the array
- access the `nth` element
- update an element
- delete a value at a given index