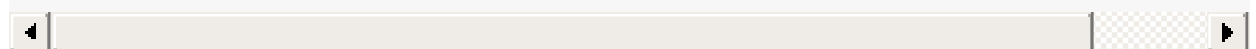


# Background & Objectives

---

Change to the working directory of the assignment, run the test and open it up in Sublime:

```
cd ~/code/lewagon-weekend-workshop/day-2-flow-arrays-iteration/03-Sorting-the-wor
rake
stt
```



The `Array` class is one of the two main structures used to store and access data in ruby (the other being `Hash`, which we'll see tomorrow).

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

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- 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 `brice` before `Felix` (look at the [ASCII table](#))
- The method should keep the original spelling of names.

## 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
```

## Key learning points

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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