

ARRAYLIST CLASS IN JAVA

Working with "lists" of objects is quite essential in pretty much any programming language. Whenever you write a for loop you are going through a list/array of numbers without calling it that.

One of the ways to work with arrays of objects in Java, explicitly, is by using the ArrayList class. We will see how to create an ArrayList object and how to use it to write code. The first thing you should note is that there are indices to refer to elements of an array. Indices that start from zero.

We will see how we access elements in an ArrayList object, how we modify them and we make a comparison between ArrayList and other constructs in Java.

We will also see a new way of writing loops. The so called For-Each loop.
In the lab we will solve the following problems:

- Write program that swaps the elements of two lists of Strings. Do these as an ArrayList of Strings and think about an alternative way of doing it.
- Write a program that swaps the elements of two lists/ArrayList-s in the reverse order. That is, if $L = \{2, 3, 4\}$ and $L' = \{1, 2, 3\}$ after the program runs $L = \{1, 2, 3\}$ and $L' = \{2, 3, 4\}$.
- Now write a program that takes a list and reverses its order. Can you use the previous code to do this, instead of writing a new piece of code?