# Compact

**Inside your project, SingleDimensionalArrays, create a class called, Compact.java**

A common task in array processing is to traverse a list and eliminate an undesired value.

**public Compact(int[] numbers)**

The constructor that will:

* have one parameter that takes in an array which contains non-negative (≥0) integers in random order. The number of integers in the array is not given, but it is no more than 100.
* assign an instance variable integer called validValues to the length of the array.

**public void rearrange()**

This method places all zeroes from the array at the end of the array, not changing the order of the other elements.

* You may not use a second array to solve the problem.
* Do not solve the problem by printing out only the non-zero values in the array. The compact method must move all zeros towards the end of the array.

**public void printList()**

This method prints out all of the values in your array, up to, but not including any zeros. Once all of the zeros are moved to the end, this should only print all non-zero values.

**public static void main(String[] args)**

Print out the list both before and after moving the zeros. For example:

**List Before:** 0, 9, 7, 0, 0, 23, 4, 0

**List After:** 9, 7, 23, 4, 0, 0, 0, 0

**Output:** 9, 7, 23, 4