

**COP-2800: Java Programming**

**Assignment 7-15**

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Created By: Ronaldo Saavedra

# Document Version Control

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# Technical Specifications

## Purpose of Technical Implementation

7.15 (Eliminate duplicates) Write a method that returns a new array by eliminating the duplicate values in the array using the following method header:

public static int[] eliminateDuplicates(int[] list)

Write a test program that reads in ten integers, invokes the method, and displays the result. Here is the sample run of the program:

Enter ten numbers: 1 2 3 2 1 6 3 4 5 2

The distinct numbers are: 1 2 3 6 4 5

## Psuedocode

Start

Declare and Initialize in a Scanner Object

Print "Enter ten numbers: "

strList <- Split the next line entered by the user into a string array using " "

Initialize intList as an empty int array with the length of strList

For i from 0 to strList.length - 1

intList[i] <- Convert strList[i] to an integer

distinctList <- Call eliminateDuplicates(intList)

For each number in distinctList

Print number followed by a space

Close in

End

Function eliminateDuplicates(list)

Create an empty arrayList

For each number in list

If arrayList does not contain number

Add number to arrayList

Create an empty distinct int array with the size of arrayList

For index from 0 to arrayList.size() - 1

distinct[index] <- Get the element at index from arrayList

Return distinct

End Function

## Screenshot of working code

A computer screen shot of a program

Description automatically generated