

**COP-2800: Java Programming**

**Assignment 7-8**

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# Document Version Control

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# Technical Specifications

## Purpose of Technical Implementation

7.8 (Average an array) Write two overloaded methods that return the average of an array with the following headers:

**public static int average(int[] array)**

**public static double average(double[] array)**

Write a test program that prompts the user to enter ten double values, invokes this method, and displays the average value.

## Psuedocode

Start

Declare and Initialize Scanner

Print "Enter ten double values: "

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

Initialize dArray as an empty double array with the length of strArray

For i from 0 to strArray.length - 1

dArray[i] <- Convert strArray[i] to a double

answer <- Call average(dArray)

Print answer

Close in

End

Function average(array)

If array is an int array

sum <- 0

For each element i in array

sum <- sum + i

Return sum divided by array.length

Else if array is a double array

sum <- 0

For each element d in array

sum <- sum + d

Return sum divided by array.length

End If

End Function

## Screenshot of working code

A screenshot of a computer program

Description automatically generated