

**COP-2800: Java Programming**

**Assignment 7-8**

Document Version: 0.1

Version Date: December 6, 2023

Created By: Lleyton Fischer

# Document Version Control

|  |  |  |  |
| --- | --- | --- | --- |
| Version | Date | Author | Rationale |
| 0.1 | 2023 DEC 6 | Lleyton Fischer | First Draft |

# Technical Specifications

## Purpose of Technical Implementation

Write an algorithm to remove duplicates from an array.

## Psuedocode

input = input("10 ints")

print(eliminateDuplicates(input))

fn eliminate Duplicates(**int**[] array) -> **int**[] {

**bool**[] duplicate\_mask = **bool**[array.length]

**for** i in 0 -> array.length-1 {

**for** j in i + 1 -> array.length {

**if** array[i] == array [j] {

                duplicate\_mask[i] = true

            }

        }

    }

    unique\_number\_count = 0

**for** b in duplicate\_mask {

**if** b == false { unique\_number\_count++ }

    }

**int**[] output = **int**[unique\_number\_count]

**int** output\_cursor = 0

**for** i in 0 -> dupemask.length {

**if** dupemask[i] == false {

            output[output\_cursor++] = array[i]

        }

    }

**return** output

}

## Screenshot of working code

