Practice Exercise 1 – Array Duplicates

For this exercise you will work on the partially-implemented project array_duplicates. The project contains a main function that already creates arrays to test, and a function testArrays that calls the appropriate functions to test the arrays. Do **NOT** modify the code already provided. Your job is to implement the following functions (this needs to be coded <u>all in one file</u>, the **Main.cpp** file):

- deleteDuplicates()
 - Deletes all duplicates in the array.
 - o **Parameters:** an array and the number of elements in the array.
 - o You will need to shift the rest of the elements after deleting an element.
- printArray()
 - Prints the array elements on one line.
 - o **Parameters:** an array and the number of elements in the array.

Make sure you:

- Add a **name header** with your name, date, etc.
- Pass by reference when needed and you add the const modifier to the parameters ONLY when necessary.
- Do NOT use a return statement without returning anything! → return;
- Do NOT use the break and continue statements (there are no switch statements to use break).
- Do NOT use global variables ever.
- Do NOT modify any code given.

Keep in mind the following:

- Divide your code in meaningful blocks for readability
- Name your variables using descriptive names
- Use all appropriate conventions for naming
- Do not leave unnecessary spaces or lines in your code

Expected Output:

(see next page)

```
Array 1: Array is empty.

Array 2: 1
Deleting duplicates... 1

Array 3: 1 1
Deleting duplicates... 1

Array 4: 1 1 2
Deleting duplicates... 1 2

Array 5: 1 2 1
Deleting duplicates... 1 2

Array 6: 1 2 2
Deleting duplicates... 1 2

Array 7: 1 1 1 2 1
Deleting duplicates... 1 2

Array 8: 1 2 2 1 2 2 2
Deleting duplicates... 1 2

Array 9: 2 3 5 1 2 3 5 2 4 5 6 7 3 2 5 7 3 7 4 6
Deleting duplicates... 2 3 5 1 4 6 7

Press any key to continue . . .
```