

Exercise 04 - Fundamentals: Arrays

Create a cpp file named 'main04.cpp' that defines and test the following functions

1. Define void function named **Initialize()** that takes an integer array parameter and two integer parameters. Given that the first integer parameter represents the size of the array parameter, each element of the array parameter is assigned to the second integer parameter.
2. Define a Boolean function named **IsUnique()** that takes a constant double array parameter and an integer parameter. It returns true if every element in the array has a different value; otherwise, it returns false.
3. Define a Boolean function named **HasWon()** that takes two constant integer array parameters. Given that both parameters have a size of 5, it returns true if the arrays share the same value regardless of their order and all the values are distinct; otherwise, it returns false.
4. Define a void function named **TimesTable()** that takes an integer array parameter. Given that the size of the parameter is at least 144, the elements of the parameter are assigned the values of the twelve times table in row order.