Homework 09A

CS-102

Spring 2022

Homework 09A
Array Expander

- Write a function that accepts an **int** array and the array's size as arguments.

- The function should create a new array that is twice the size of the argument array.

- The function should copy the contents of the argument array to the new array and initialize the unused elements of the second array with 0.

- The function should return a pointer to the new array. Take your input data from the file Gradelist.txt.

Homework 09A
Array Expander

- Your program should:
  - Display your name.
  - Display the original array;
  - Display the size of the original array;
  - Display the new array that your function generates;
  - Display the size of the new array.
- Call your program: *YourName*-Hwrk09A.cpp

Homework 09B
Element Shifter

- Write a function that accepts an **int** array and the array's size as arguments.
- The function should create a new array that is one element larger than the argument array.
- The first element of the new array should be set to 0.
  - Element 0 of the argument array should be copied to element 1 of the new array,
  - element 1 of the argument array should be copied to element 2 of the new array, and so forth.
- The function should return a pointer to the new array.
- Take your input data from the file Gradelist.txt.

Homework 09B
Element Shifter

- Your program should display:
  - Display your name.
  - Display the original array;
  - Display the size of the original array;
  - Display the new array that your function generates;
  - Display the size of the new array.
- Call your program: *YourName*-Hwrk09B.cpp