// Harjo-COSC1437-Program1.cpp

// Program 1 - Due 6-17-2023

// By KariAnn Harjo

#include <iostream>

using namespace std;

// Function to create a copy of the array with reversed element values

int\* reverseArray(int arr[], int size) {

int\* newArr = new int[size]; // Create a new array dynamically

for (int element = 0; element < size; element++) {

newArr[element] = arr[size - 1 - element]; // Copy elements in reverse order

}

return newArr; // Return the pointer to the new array

}

int main() {

cout << "Array Reversal Program" << endl;

int size;

cout << "Enter the size of the array: ";

cin >> size;

int\* arr = new int[size]; // Create the original array dynamically

cout << "Enter the elements of the array: ";

for (int element = 0; element < size; element++) {

cin >> arr[element];

}

int\* reversedArr = reverseArray(arr, size); // Get the reversed array

cout << "Original array: "; // Print the original array

for (int element = 0; element < size; element++) {

cout << arr[element] << " ";

}

cout << endl;

cout << "Reversed array: "; // Print the reversed array

for (int element = 0; element < size; element++) {

cout << reversedArr[element] << " ";

}

cout << endl;

delete[] arr; // Deallocate memory for the original array

delete[] reversedArr; // Deallocate memory for the reversed array

return 0;

}

A picture containing text, screenshot, font

Description automatically generated