/\*Create a program to accept 10 values and store them in an int array

Display the array

Calculate the average

Determine the minimum and maximum

Switch the array values at the first and last index positions

Display the new array

Extra endl's are for whitespace for readability

Mostly just using this to refresh myself on c++ syntax\*/

#include <iostream>

using namespace std;

int main()

{

//Declarations

double avg = 0;

int numbers[10];

int temp = 0;

int min;

int max;

cout << "Please enter 10 whole numbers when prompted." << endl;

for(int i = 0; i < 10; i++){

cout << "\nPlease enter the " << (i+1) << " number: ";

cin >> temp;

numbers[i] = temp;

avg += temp;

}//End of input for loop

cout << endl;

cout << endl;

//display the array

for(int i = 0; i < 10; i++){

cout << numbers[i] << ", ";

}//End for

cout << endl;

cout << endl;

//Calculate and display average

avg = avg / 10;

cout << "The average value is: " << avg << endl;

cout << endl;

//Determine the smallest and largest numbers

//Preset with the leftmost value to test each

min = numbers[0];

max = numbers[0];

for(int i = 1; i < 10; i++){

if(min >= numbers[i])

min = numbers[i];

}

for(int i = 1; i < 10; i++){

if(max <= numbers[i])

max = numbers[i];

}

//Display Minimum and maximum

cout << "\nThe smallest value is: " << min << endl;

cout << "\nThe largest value is: " << max << endl;

cout << endl;

//Swap first and last values in the array

temp = numbers[0];

numbers[0] = numbers[9];

numbers[9] = temp;

//Display the new array

cout << "The new array is: " << endl;

for(int i = 0; i < 10; i++)

cout << numbers[i] << ", ";

cout << endl;

cout << endl;

system("pause");

return 0;

}//end of main