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// File: HW\_1c.cpp

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//

// Description:

// This program will take three temperatures

// inputted by the user and find the average. Then

// it will display the average temperature for the

// cities.

// ====================================================

#include <iostream>

using namespace std;

void getTemps(int temp[]);

void displayAvg(int temp[]);

// ====== main ========================================

//

// ====================================================

int main()

{

const int NUM\_CITIES = 3;

int temp[NUM\_CITIES];

int avg;

getTemps(temp);

displayAvg(temp);

return 0;

}// end of main()

// ====================================================

// ========= getTemps =================================

// This function will ask the user for the temperatures

// of three cities and assign the values to variables.

//

// Input:

// The user will input three values into the function.

//

// Output:

// The values will be stored in an array that will

// be passed to other functions.

// ====================================================

void getTemps(int temp[])

{

cout << "Enter the temperatures of 3 cities." << "\n";

cout << "#1: ";

cin >> temp[0];

cout << "#2: ";

cin >> temp[1];

cout << "#3: ";

cin >> temp[2];

}// end of getTemps()

// ====================================================

// ========= displayAvg ===============================

// This function will display the average temperature.

//

// Input:

// An array with the stored values will be passed

// through the function and used to calculate

// the average temperature.

//

// Output:

// The function will display the temperature from

// the three cities in a simple format.

// ====================================================

void displayAvg(int temp[])

{

cout << "\n";

cout << "The average temperature is " << (temp[0] + temp[1] + temp[2]) / 3 <<

" degrees" << ".\n";

cout << "\n";

}// end of displayAvg()

// ====================================================

/\* ==== OUTPUT =========================================

Enter the temperatures of 3 cities.

#1: 75

#2: 95

#3: 68.2

The average temperature is 79 degrees.

Press any key to continue . . .

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