# Ch 8 Exercise 2

Consider the following declaration:

double currentBalance[91];

In this declaration, identify the following:

a. The array name - currentBalance[]

b. The array size - 92 items including 0

c. The data type of each array component - double

d. The range of values for the index of the array - (0 to 91)

e. What are the indices of the first, middle, and the last elements? 0, 47, 91

# Ch 9 Exercise 5

Consider the declaration of the struct houseType given in this chapter.

Suppose firstHouse and secondHouse are variables of houseType.

Write C11 statement(s) to compare the style and price of firstHouse and secondHouse.

Output true if the corresponding values are the same; false otherwise.

#include <iostream>

#include <string>

using *namespace* std;

*int* main()

{

*struct* houseType

    {

        string style;

*int* numOfBedrooms;

*int* numOfBathrooms;

*int* numOfCarsGarage;

*int* yearBuilt;

*int* finishedSquareFootage;

*double* price;

*double* tax;

    };

    houseType firstHouse;

    houseType secondHouse;

    firstHouse.style = "Colonial";

*// firstHouse.numOfBedrooms = 3;*

*// firstHouse.numOfBathrooms = 2;*

*// firstHouse.numOfCarsGarage = 2;*

*// firstHouse.yearBuilt = 2005;*

*// firstHouse.finishedSquareFootage = 2250;*

    firstHouse.price = 290000;

*// firstHouse.tax = 5000.50;*

    secondHouse.style = "Colonial";

*// secondHouse.numOfBedrooms = 3;*

*// secondHouse.numOfBathrooms = 2;*

*// secondHouse.numOfCarsGarage = 2;*

*// secondHouse.yearBuilt = 2005;*

*// secondHouse.finishedSquareFootage = 2250;*

    secondHouse.price = 300000;

*// secondHouse.tax = 5000.50;*

*// compare house styles*

    if (firstHouse.style == secondHouse.style)

    {

        cout << "These house's share the same style." << endl;

    }

    else

    {

        cout << "The first houses style is " << firstHouse.style << endl;

        cout << "The second houses style is " << secondHouse.style << endl;

    }

*// compare house prices*

    firstHouse.price == secondHouse.price;

    if (firstHouse.price == secondHouse.price)

    {

        cout << "These house's have the same value." << endl;

    }

    else

        cout << "The first houses price is " << firstHouse.price << endl;

    cout << "The second houses price is " << secondHouse.price << endl;

};

