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//
//  main.cpp
//  AbsoluteCpp_ch8_4
//

#include <iostream>
#include <fstream>
#include <cstdlib>

using namespace std;

double& sampleFunction(double& variable);
double& sampleFunction1(double variable);

int main() {
    double a = 99;
    cout << "a is 99, and call sampleFunction result is " <<
        sampleFunction(a)
        << endl;

    sampleFunction(a) = 50;
    cout << "a is " << a << endl;

    a = 99;
    cout << "a is 99, and call sampleFunction result is " <<
        sampleFunction(a)
        << endl;
    double& d = sampleFunction(a);
    a = 45;
    cout << "d is " << d << endl;

    double b = 100;
    double c = sampleFunction1(b);
    cout << "b is 100, and call sampleFunction1 result is "
        << sampleFunction1(b) << endl;
    cout << "c is " << c << endl;
    b = 200;
    cout << "c is " << c << endl;
    return 0;
}

// Note this function return a reference of argument
double& sampleFunction(double& variable) {
    return variable;
}

double& sampleFunction1(double variable) {
    double& result = variable;
    return result;
}

```