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/*
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Lab#2 – Cafeteria Ladies
Algorithm
1. prompt for a check amount
2. prompt for the amount paid
3. print the results
*/

#include <iostream>
using namespace std;

int main()
{
    // Declare variables
    double check;
    double amountpaid;
    double change;

    // plug in variables

    cout << "Enter the amount of the check";
    cin >> check;

    cout << "Enter the amount the customer paid";
    cin >> amountpaid;

    // calculation
    change = amountpaid - check;
    cout << "The change is"<< change;

    // calculate dollars
    int p = (int)(change * 100);
    cout << p / 100 << " dollar bills" << endl;
    // calculate quaters
    p = p - (p / 100) * 100;
    cout << p / 25 << " quaters" << endl;
    // calculate dimes
    p = p - (p / 25) * 25;
    cout << p / 10 << " dimes" << endl;
    // calculate nickels
    p = p - (p / 10) * 10;
    cout << p / 5 << " nickels" << endl;
}

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        // calculate pennys
        p = p - (p / 5) * 5;
        cout << p << " pennys" << endl;

        system("pause");
        return 0;

    }

/*
Enter the amount of the check11.67
Enter the amount the customer paid15.00
The change is3.333 dollar bills
1 quaters
0 dimes
1 nickels
3 pennys

Enter the amount of the check5.68
Enter the amount the customer paid20.00
The change is14.3214 dollar bills
1 quaters
0 dimes
1 nickels
2 pennys

Enter the amount of the check4.32
Enter the amount the customer paid5.77
The change is1.451 dollar bills
1 quaters
1 dimes
1 nickels
4 pennys

*/

```