#include <iostream>

using namespace std;

class AddDistance {

private:

int feet;

int inch;

public:

void setDistance();

void getDistance();

AddDistance addDistance( AddDistance d );

};

// function to show print distance

void AddDistance::setDistance() {

cout << " feet: "; cin >> feet;

cout << "inches: "; cin >> inch;

}

// function to get distance from user

void AddDistance::getDistance() {

cout << "feet: " << feet;

cout << " inches: " << inch;

}

// function to add 2 distances

AddDistance AddDistance::addDistance( AddDistance d ) {

AddDistance dist;

dist.feet = feet + d.feet;

dist.inch = inch + d.inch;

if(dist.inch >= 12) {

dist.feet++;

dist.inch -= 12;

}

return dist;

}

int main() {

AddDistance d1, d2, d3;

// taking the two distances as input from user

cout << "Enter length of Distance 1: " << endl;

d1.setDistance();

cout << "Enter length of Distance 2: " << endl;

d2.setDistance();

// adding the distances

d3 = d1.addDistance(d2);

// displaying resultant distance

cout << "Sum of Distance 1 and Distance 2:" << endl;

d3.getDistance();

return 0;

}