//Objective: Read weather data

//Name: Ethan Chiu

//libraries

#include <fstream> //for file input

#include <iostream> //for input and output

#include <string> //for using string built in functions

using namespace std;

int main()

{

//Data

const int SIZE = 12;

string name[SIZE];

int high[SIZE];

int low[SIZE];

int i = 0;

ifstream fin;

double average;

fin.open("weather.txt");

if (!fin.good()) throw "I/O error";

//reads and output population

cout << "Average temperatures" << endl;

while (fin.good())

{

if(i > 12)

{

cout << "Too many lines of input. Please keep it to 12 months" << endl;

break;

}

fin >> name[i];

fin >> high[i];

fin >> low[i];

i++;

} // while

fin.close();

//Calculate average

for (int b = 0; b < 12; b++)

{

average = high[b] + low[b] / 2.0;

cout << "Average temperature for " << name[b] << " is " << average << endl;

}

}