Nikeem Dunkelly-Allen , Lab 9

#include "library.h"

#include <iostream>

using namespace std;

void minimum(){

set\_pen\_width(3);

double year, month, day, mint, avgt, maxt, depth, totp, maxw;

double eday;

move\_to(70,200);

ifstream fin;

fin.open("HOPELESS-MO.txt");

if (fin.fail()){

cout << "The file can not open \n";

}

fin >> year >> month >> day >> mint >> avgt >> maxt >> depth >> totp >> maxw;

while (!fin.eof()){

cout << year << " " << month << " " << day << " " << mint << " " << avgt << " " << maxt << " " << depth << " " << totp << " " << maxw << endl;

fin >> year >> month >> day >> mint >> avgt >> maxt >> depth >> totp >> maxw;

if (mint > 0){

if (month == 1)

{

eday = 31;

set\_pen\_color(color::blue);

draw\_to(2 \* ((month\*eday) + day), 2 \* (310 - (mint + 200)));

}

if (month == 2)

{

eday = 28;

set\_pen\_color(color::blue);

draw\_to(2 \* ((month\*eday) + day), 2 \* (310 - (mint + 200)));

}

if (month == 3)

{

eday = 31;

set\_pen\_color(color::blue);

draw\_to(2 \* ((month\*eday) + day), 2 \* (310 - (mint + 200)));

}

if (month == 4)

{

eday = 30;

set\_pen\_color(color::blue);

draw\_to(2 \* ((month\*eday) + day), 2 \* (310 - (mint + 200)));

}

if (month == 5)

{

eday = 31;

set\_pen\_color(color::blue);

draw\_to(2 \* ((month\*eday) + day), 2 \* (310 - (mint + 200)));

}

if (month == 6)

{

eday = 30;

set\_pen\_color(color::blue);

draw\_to(2 \* ((month\*eday) + day), 2 \* (310 - (mint + 200)));

}

if (month == 7)

{

eday = 31;

set\_pen\_color(color::blue);

draw\_to(2 \* ((month\*eday) + day), 2 \* (310 - (mint + 200)));

}

if (month == 8)

{

eday = 31;

set\_pen\_color(color::blue);

draw\_to(2 \* ((month\*eday) + day), 2 \* (310 - (mint + 200)));

}

if (month == 9)

{

eday = 30;

set\_pen\_color(color::blue);

draw\_to(2 \* ((month\*eday) + day), 2 \* (310 - (mint + 200)));

}

if (month == 10)

{

eday = 31;

set\_pen\_color(color::blue);

draw\_to(2 \* ((month\*eday) + day), 2 \* (310 - (mint + 200)));

}

if (month == 11)

{

eday = 31;

set\_pen\_color(color::blue);

draw\_to(2 \* ((month\*eday) + day), 2 \* (310 - (mint + 200)));

}

if (month == 12)

{

eday = 31;

set\_pen\_color(color::blue);

draw\_to(2 \* ((month\*eday) + day), 2 \* (310 - (mint + 200)));

}

}

else

continue;

}

fin.close();

}

void maximum(){

set\_pen\_width(3);

double year, month, day, mint, avgt, maxt, depth, totp, maxw;

double eday;

move\_to(70, 200);

ifstream fin;

fin.open("HOPELESS-MO.txt");

set\_caption("HOPELESS-MO");

if (fin.fail()){

cout << "The file can not open \n";

}

fin >> year >> month >> day >> mint >> avgt >> maxt >> depth >> totp >> maxw;

while (!fin.eof()){

cout << year << " " << month << " " << day << " " << mint << " " << avgt << " " << maxt << " " << depth << " " << totp << " " << maxw << endl;

fin >> year >> month >> day >> mint >> avgt >> maxt >> depth >> totp >> maxw;

if (month == 1){

eday = 31;

set\_pen\_color(color::red);

draw\_to(2 \* ((month\*eday) + day), 2 \* (310 - (maxt + 200)));

}

if (month == 2){

eday = 28;

set\_pen\_color(color::red);

draw\_to(2 \* ((month\*eday) + day), 2 \* (310 - (maxt + 200)));

}

if (month == 3)

{

eday = 31;

set\_pen\_color(color::red);

draw\_to(2 \* ((month\*eday) + day), 2 \* (310 - (maxt + 200)));

}

if (month == 4)

{

eday = 30;

set\_pen\_color(color::red);

draw\_to(2 \* ((month\*eday) + day), 2 \* (310 - (maxt + 200)));

}

if (month == 5)

{

eday = 31;

set\_pen\_color(color::red);

draw\_to(2 \* ((month\*eday) + day), 2 \* (310 - (maxt + 200)));

}

if (month == 6)

{

eday = 30;

set\_pen\_color(color::red);

draw\_to(2 \* ((month\*eday) + day), 2 \* (310 - (maxt + 200)));

}

if (month == 7)

{

eday = 31;

set\_pen\_color(color::red);

draw\_to(2 \* ((month\*eday) + day), 2 \* (310 - (maxt + 200)));

}

if (month == 8)

{

eday = 31;

set\_pen\_color(color::red);

draw\_to(2 \* ((month\*eday) + day), 2 \* (310 - (maxt + 200)));

}

if (month == 9)

{

eday = 30;

set\_pen\_color(color::red);

draw\_to(2 \* ((month\*eday) + day), 2 \* (310 - (maxt + 200)));

}

if (month == 10)

{

eday = 31;

set\_pen\_color(color::red);

draw\_to(2 \* ((month\*eday) + day), 2 \* (310 - (maxt + 200)));

}

if (month == 11)

{

eday = 31;

set\_pen\_color(color::red);

draw\_to(2 \* ((month\*eday) + day), 2 \* (310 - (maxt + 200)));

}

if (month == 12)

{

eday = 31;

set\_pen\_color(color::red);

draw\_to(2 \* ((month\*eday) + day), 2 \* (310 - (maxt + 200)));

}

}

fin.close();

}

void monthlabel(){

set\_pen\_color(color::grey);

int y = 300;

move\_to(80, y);

set\_heading\_degrees(0);

write\_string("J");

move\_to(142, y);

set\_heading\_degrees(0);

write\_string("F");

move\_to(205, y);

set\_heading\_degrees(0);

write\_string("M");

move\_to(267, y);

set\_heading\_degrees(0);

write\_string("A");

move\_to(330, y);

set\_heading\_degrees(0);

write\_string("M");

move\_to(392, y);

set\_heading\_degrees(0);

write\_string("J");

move\_to(455, y);

set\_heading\_degrees(0);

write\_string("J");

move\_to(517, y);

set\_heading\_degrees(0);

write\_string("A");

move\_to(580, y);

set\_heading\_degrees(0);

write\_string("S");

move\_to(642, y);

set\_heading\_degrees(0);

write\_string("O");

move\_to(705, y);

set\_heading\_degrees(0);

write\_string("N");

move\_to(767, y);

set\_heading\_degrees(0);

write\_string("D");

}

void verticalnms(){

move\_to(30, 285);

set\_font\_size(15);

set\_heading\_degrees(90);

write\_string("0");

move\_to(30, 265);

set\_font\_size(15);

set\_heading\_degrees(90);

set\_font\_size(15);

write\_string("10");

move\_to(30, 245);

set\_heading\_degrees(90);

write\_string("20");

move\_to(30, 225);

set\_heading\_degrees(90);

write\_string("30");

move\_to(30, 205);

set\_heading\_degrees(90);

write\_string("40");

move\_to(30, 185);

set\_heading\_degrees(90);

write\_string("50");

move\_to(30, 165);

set\_heading\_degrees(90);

write\_string("60");

move\_to(30, 145);

set\_heading\_degrees(90);

write\_string("70");

move\_to(30, 125);

set\_heading\_degrees(90);

write\_string("80");

move\_to(30, 105);

set\_heading\_degrees(90);

write\_string("90");

move\_to(1, 85);

set\_heading\_degrees(90);

set\_font\_size(13);

write\_string("100(Don't go)");

move\_to(10, 65);

set\_heading\_degrees(90);

set\_font\_size(13);

write\_string("110(Stop)");

move\_to(5, 45);

set\_heading\_degrees(90);

set\_font\_size(13);

write\_string("120(Why!?)");

move\_to(30, 25);

set\_heading\_degrees(90);

set\_font\_size(15);

write\_string("130+");

}

void lines()

{

int x = 745;

int y = 280;

int x1 = 65;

int i = 0;

while (i < 14)

{

set\_pen\_color(color::grey);

set\_pen\_width(1);

move\_to(x1, y);

set\_heading\_degrees(90);

draw\_distance(x);

y = y - 20;

i++;

}

int c = 0;

while (c < 13)

{

move\_to(x1, 280);

set\_heading\_degrees(0);

draw\_distance(260);

c++;

x1 = x1 + 62;

}

}

void main(){

make\_window(900, 350);

minimum();

maximum();

monthlabel();

verticalnms();

lines();

}



