#include <iostream>

#include <ctime>

#define MAX 100

using namespace std;

void input(char input[][MAX], int row, int colum) {

srand(time(NULL));

int ranDom = 0;

for (int i = 0; i < row; i++) {

for (int j = 0; j < colum; j++) {

if ((ranDom = rand() % 100) <= 50) {

input[i][j] = '\*';// \* : 42

}

else {

input[i][j] = 'X';// X : 88

}

}

}

}

void output(char input[][MAX], int row, int colum) {

cout << "\t";

for (char i = 'A'; i <= 'F'; i++) {

cout << i << "\t";

}

cout << endl;

for (int i = 0; i < row; i++) {// chay dong

cout << "Hang " << i + 1 << "\t";

for (int j = 0; j < colum; j++) {

cout << input[i][j] << "\t";

}

cout << endl;

}

}

void bookSticker(char input[][MAX], int row, int colum, int rowSelect, char columSelect, bool &check) {

int tempColum = 0;

switch (columSelect)

{

case 'A':

case 'a': {

tempColum = 1;

break;

}

case 'B':

case 'b': {

tempColum = 2;

break;

}

case 'C':

case 'c': {

tempColum = 3;

break;

}

case 'D':

case 'd': {

tempColum = 4;

break;

}

case 'E':

case 'e': {

tempColum = 5;

break;

}

case 'F':

case 'f': {

tempColum = 6;

break;

}

}

if (input[rowSelect - 1][tempColum - 1] == '\*') {

input[rowSelect - 1][tempColum - 1] = 'X';

cout << "\nBan dat ve thanh cong!\n";

output(input, row, colum);

check = true;

}

else {

cout << "\nHien tai vi tri ban chon da co nguoi dat, xin chon ghe khac";

check = false;

}

}

void bookMenu(char input[][MAX], int row, int colum, int &sumPay) {

int select = 0;

int selectRow = 0;

char selectColum;

char temp = ' ';

bool hadBook = false;

enum Categories

{

Thuonggia = 10000000,

Phothong = 5000000,

Tietkiem = 2500000

};

do {

cout << "\n---------Ban hay nhap vao loai ve-----------";

cout << "\n----------1.Thuong gia----------------------";

cout << "\n----------2.Pho thong-----------------------";

cout << "\n----------3.Tiet kiem-----------------------";

cout << "\nLua chon cua ban: ";

cin >> select;

if (select <= 0 || select > 3) {

cout << "\nBan chon sai hay kiem tra lai!";

}

else {

cout << "\nThong tin ghe tren may bay nhu sau: ";

cout << "\nMay bay co 13 hang va moi hang co 6 ghe gom ghe tu A -> F";

cout << "\nBang dat ve hien tai nhu sau\n";

output(input, row, colum);

switch (select) {

case 1: {

do {

cout << "\nBan chon loai ve la thuong gia va ban hay chon vi tri ghe nam trong hang 1 va hang 2(vi du: hang 1 ghe A): ";

cout << "\nHang: ";

cin >> selectRow;

cout << "\nGhe: ";

cin >> selectColum;

if ((selectRow <= 0 || selectRow > 2) || (selectColum < 'A' || selectColum > 'F') && (selectColum < 'a' || selectColum > 'f')) {

cout << "\nBan nhap sai ghe xin xem lai thong tin!";

}

else {

bookSticker(input, row, colum, selectRow, selectColum, hadBook);

if (hadBook == true) {

sumPay += Thuonggia;

}

}

} while (hadBook == false || (selectRow <= 0 || selectRow > 2) || (selectColum < 'A' || selectColum > 'F') && (selectColum < 'a' || selectColum > 'f'));

break;

}

case 2: {

do {

cout << "\nBan chon loai ve la pho thong va ban hay chon vi tri ghe nam trong hang 3 den hang 7(vi du: hang 3 ghe A): ";

cout << "\nHang: ";

cin >> selectRow;

cout << "\nGhe: ";

cin >> selectColum;

if ((selectRow < 3 || selectRow > 7) || (selectColum < 'A' || selectColum > 'F') && (selectColum < 'a' || selectColum > 'f')) {

cout << "\nBan nhap sai ghe xin xem lai thong tin!";

}

else {

bookSticker(input, row, colum, selectRow, selectColum, hadBook);

if (hadBook == true) {

sumPay += Phothong;

}

}

} while (hadBook == false || (selectRow < 3 || selectRow > 7) || (selectColum < 'A' || selectColum > 'F') && (selectColum < 'a' || selectColum > 'f'));

break;

}

case 3: {

do {

cout << "\nBan chon loai ve la tiet kiem va ban hay chon vi tri ghe nam trong hang 8 den hang 13(vi du: hang 8 ghe A): ";

cout << "\nHang: ";

cin >> selectRow;

cout << "\nGhe: ";

cin >> selectColum;

if ((selectRow < 8 || selectRow > 13) || (selectColum < 'A' || selectColum > 'F') && (selectColum < 'a' || selectColum > 'f')) {

cout << "\nBan nhap sai ghe xin xem lai thong tin!";

}

else {

bookSticker(input, row, colum, selectRow, selectColum, hadBook);

if (hadBook == true) {

sumPay += Tietkiem;

}

}

} while (hadBook == false || (selectRow < 8 || selectRow > 13) || (selectColum < 'A' || selectColum > 'F') && (selectColum < 'a' || selectColum > 'f'));

break;

}

}

}

} while (select <= 0 || select > 3);

}

int main() {

char arr[MAX][MAX];

int row = 13, colum = 6, sumPay = 0;

char yn;

arr[row][colum];

/\*arr = new char \*[row];

for (int i = 0; i < row; i++) {

arr[i] = new char[colum];

}

\*/

input(arr, row, colum);

do {

bookMenu(arr, row, colum, sumPay);

cout << "\nTong so tien ban dat ve la: " << sumPay << "VND";

cout << "\nBan co muon tiep tuc dat ve hay khong (y : yes, enykey : no): ";

cin >> yn;

} while (yn == 'y' || yn == 'Y');

/\*for (int i = 0; i < row; i++) {

delete[] arr[i];

}

delete[] arr;\*/

system("pause");

return 0;

}