“Movie Reservation System”

In Partial Fulfilment for the Requirements

For CS126-8L – Programming 1 Laboratory

Grade

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CS126-8L/BM6

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#include <iostream>

#include <cstdlib>

#include <string>

#include <iomanip>

#include<ctime>

using namespace std;

//Function Declaration

char getMenu();

char getAdmin();

char getLogin();

char checkTicket();

char getCreditcard(); **//Optional Function**

char addMovie(); **//Function that allows the user to Change or Add Movies**

char getSeats();

char buyTickets();

char viewReservedTix();

char viewReservedSeats();

int ticketHolder[1200]; **//Holds the value of all the tickets from CinemaOne1-6 and cinemaTwo1-6**

string movieC1[6]={"Spider Man","Avengers","Thor","Iron Man","Hulk","Captain America"}; **//Holds the movies For Cinema 1**

string movieC2[6]={"Batman","Joker","Superman","Unassigned","Unassigned","Unassigned"}; **//Holds the movies For Cinema 2**

string movieTime[6]={"11:00 AM"," 1:00 PM"," 3:00 PM"," 5:00 PM"," 7:00 PM"," 9:00 PM"}; **//Holds the Time for the movies. -- Currently Unchangeable**

string name[1200],lname[1200],email[1200]; //Holds the name of all names and email addresses inputted.

double price[12]={280,310,270,285,285,295,270,310,290,300,295,320}; **//Movie Prices 1-12 ; From left to right.**

char creditCard[16]; **//Holds 16 characters for the credit card.**

int cinemaOne1[100],cinemaOne2[100],cinemaOne3[100],cinemaOne4[100],cinemaOne5[100],cinemaOne6[100]; **//Cinema seats for Each Scheduled Movie**

int cinemaTwo1[100],cinemaTwo2[100],cinemaTwo3[100],cinemaTwo4[100],cinemaTwo5[100],cinemaTwo6[100];

//Value Assign Function

int valueAssign()

{

int ctr=0;

while(ctr!=100)

{

cinemaOne1[ctr]=0;

cinemaOne2[ctr]=0;

cinemaOne3[ctr]=0;

cinemaOne4[ctr]=0;

cinemaOne5[ctr]=0;

cinemaOne6[ctr]=0;

cinemaTwo1[ctr]=0;

cinemaTwo2[ctr]=0;

cinemaTwo3[ctr]=0;

cinemaTwo4[ctr]=0;

cinemaTwo5[ctr]=0;

cinemaTwo6[ctr]=0;

ctr++;

}

ctr=0;

while(ctr!=1200);

{

ticketHolder[ctr]=0;

ctr++;

}

}

//Global Declaration

char choice,adminChoice;

int adminconf;

int goBack;

string userN,userP,userNconf="Admin",userPconf="1234";

int ctr=0;

int chosenMovie,chosenSeat;

char creditCheck='0';

char goBack\_1;

int main()

{

//declaration

int valueAssign();

//executable

do{

system("cls");

goBack=0;

getMenu();

switch(choice)

{

case '1': **//Show Movies**

{

system("cls");

cout<<"Now Showing:"<<endl

<<" Time: [Cinema 1] [Cinema 2]"<<endl

<<movieTime[0]<<" : "<<movieC1[0]<<setw(5)<<" "<<movieC2[0]<<endl

<<movieTime[1]<<" : "<<movieC1[1]<<setw(7)<<" "<<movieC2[1]<<endl

<<movieTime[2]<<" : "<<movieC1[2]<<setw(11)<<" "<<movieC2[2]<<endl

<<movieTime[3]<<" : "<<movieC1[3]<<setw(7)<<" "<<movieC2[3]<<endl

<<movieTime[4]<<" : "<<movieC1[4]<<setw(11)<<" "<<movieC2[4]<<endl

<<movieTime[5]<<" : "<<movieC1[5]<<setw(3)<<" "<<movieC2[5]<<endl;

}

break;

case '2': **//Directs to Log-in Screen with Function getLogin()**

{

getLogin();

if(adminconf==1)

{

do{ **//Enables the user to go back to the previous menu as long as goBack==1**

getAdmin();

switch(adminChoice)

{

case '1': **//Movies**

{

do**{ //Enables user to go back to Previous Menu**.

addMovie(); **//addmovies or change movies currently airing**.

}while(goBack==0);

}

break;

case '2': **//Allows user to View Reserved Seats**

{

viewReservedSeats();

}

break;

case '3': **//View list of Bought Tickets**

{

viewReservedTix();

}

break; //Sign-out

case '4':

{

goBack=0;

}

break;

}

}while(goBack==1);

}

}

break;

case '3': **//Allows user to Look-up Ticket**

{

checkTicket();

}

break;

case '4': **//Allows user to buy Ticket**

{

do{

buyTickets();

}while(goBack==1);

goBack=1;

}

break;

case '5': **//Exit**

exit(0); **//Immediately Exits -- Redundant code**

break;

}

do{ **//Confirms If the user wants to go back to the Main Menu; if Yes, code loops back, if no. Immediately Exits.**

cout<<"Do you want to go Back to the Main Menu? (Y/N): ";

cin>>choice;

if(choice=='Y'||choice=='y')

{

goBack=1;

cout<<"test"<<endl;

break;

}

if(choice=='N'||choice=='n')

goBack=0;

}while(goBack==1);

}while(goBack==1);

}

//-----------------------------------//

char viewReservedTix() **//Function that holds the code that allows the user to view list of Reserved Tickets.**

{

//declaration

int ctr=0;

//Executable

system("cls");

cout<<"List of Bought Tickets:"<<endl;

do{ **//Loops 1200 times to check all the values inside the ticketHolder[1200] variable.**

if(ticketHolder[ctr]>0) **//Checks if the ticketHolder[#] has a ticket store inside.** **if TicketHolder[#] is greater than 0 (0 is assigned by the value assign function), it means it has a ticket**

{

cout<<"Name:"<<name[ctr]<<" "<<lname[ctr]<<endl; **//Prints First and Last name stored in the string with the corresponding ticket number.**

cout<<"Ticket No. "<<ticketHolder[ctr]<<endl; **//Outputs the value inside the ticketHolder[#]**

cout<<"Seat No. "<<ctr<<endl;

if(ctr>=0&&ctr<100) **//If Value is 0-99 ; outputs current movie stored in movieC1[0]**

{

cout<<"Movie:"<<movieC1[0]<<endl

<<"Time Start: "<<movieTime[0]<<endl<<endl;

}

else if(ctr>=100&&ctr<200) **//If Value is 100-199 ; outputs current movie stored in movieC1[1]**

{

cout<<" Movie:"<<movieC1[1]<<endl

<<" Time Start: "<<movieTime[1]<<endl<<endl;

}

else if(ctr>=200&&ctr<300) **//If Value is 200-299 ; outputs current movie stored in movieC1[2]**

{

cout<<" Movie:"<<movieC1[2]<<endl

<<" Time Start: "<<movieTime[2]<<endl<<endl;

}

else if(ctr>=300&&ctr<400) **//If Value is 300-399 ; outputs current movie stored in movieC1[3]**

{

cout<<" Movie:"<<movieC1[3]<<endl

<<" Time Start: "<<movieTime[3]<<endl<<endl;

}

else if(ctr>=400&&ctr<500) **//If Value is 400-499 ; outputs current movie stored in movieC1[4]**

{

cout<<" Movie:"<<movieC1[4]<<endl

<<" Time Start: "<<movieTime[4]<<endl<<endl;

}

else if(ctr>=500&&ctr<600) **//If Value is 500-599** **; outputs current movie stored in movieC1[5]**

{

cout<<" Movie:"<<movieC1[5]<<endl

<<" Time Start: "<<movieTime[5]<<endl<<endl;

}

else if(ctr>=600&&ctr<700**) //If Value is 600-699 ; outputs current movie stored in movieC2[0]**

{

cout<<" Movie:"<<movieC2[0]<<endl

<<" Time Start: "<<movieTime[0]<<endl<<endl;

}

else if(ctr>=700&&ctr<800) **//If Value is 700-799 ; outputs current movie stored in movieC2[1]**

{

cout<<" Movie:"<<movieC2[1]<<endl

<<" Time Start: "<<movieTime[1]<<endl<<endl;

}

else if(ctr>=800&&ctr<900**) //If Value is 800-899** **; outputs current movie stored in movieC2[2]**

{

cout<<" Movie:"<<movieC2[2]<<endl

<<" Time Start: "<<movieTime[2]<<endl<<endl;

}

else if(ctr>=900&&ctr<1000) **//If Value is 900-999 ; outputs current movie stored in movieC2[3]**

{

cout<<" Movie:"<<movieC2[3]<<endl

<<" Time Start: "<<movieTime[3]<<endl<<endl;

}

else if(ctr>=1000&&ctr<1100) **//If Value is 1000-1099** **; outputs current movie stored in movieC2[4]**

{

cout<<" Movie:"<<movieC2[4]<<endl

<<" Time Start: "<<movieTime[4]<<endl<<endl;

}

else if(ctr>=1100&&ctr<1200**) //If Value is 1100-1199 ; outputs current movie stored in movieC2[5]**

{

cout<<" Movie:"<<movieC2[5]<<endl

<<" Time Start: "<<movieTime[5]<<endl<<endl;

}

}

ctr++;

}while(ctr<1200);

cout<<"Go Back (Y/N**)?"; //Confirms if the user wants to go back to previous menu.**

cin>>goBack\_1;

if(goBack\_1=='Y'|'y')

{

goBack=1;

}

else

goBack=0;

}

//-----------------------------------//

char getMenu() **//Simple Menu function**

{

do{

cout<<"Welcome to CineMix: Online Reservation Ticket"<<endl

<<"[1] Movies: Now Playing"<<endl

<<"[2] Log-in"<<endl

<<"[3] Look-up Ticket"<<endl

<<"[4] Buy Ticket"<<endl

<<"[5] Exit"<<endl

<<"Enter Choice:";

cin>>choice;

if(choice<'1'||choice>'5') **//will output if value inputted is less than 1 or greater than 5.**

{

cout<<"Input is not valid."<<endl

<<"Please Try Again."<<endl;

}

}while(choice<'1'||choice>'5');

return choice;

}

//-----------------------------------//

char getLogin() **//Simple Login fucntion**

{

//local declaration

char tryAgain;

//executable

system ("cls");

cout<<"Please Log-in before we proceed"<<endl;

do{

cout<<"User-Name:";

cin>>userN;

cout<<"Password:";

cin>>userP;

if(userN==userNconf&&userP==userPconf) **//Compares if the input is equal to "Admin"**

{

adminconf=1;

return adminconf;

}

else

{

cout<<"Username or Password is incorrect"<<endl

<<"Do you want to try again? (Y/N)?"; **//Confirms if the user wants to try again with logging in. If yes, loops back. if no, user goes back to the Main Menu**

cin>>tryAgain;

if(tryAgain=='N'||tryAgain=='n')

{

goBack=0;

return goBack;

break;

}

if(tryAgain=='Y'||tryAgain=='y')

{

goBack=1;

}

}

}while(goBack==1);

return goBack;

}

//-----------------------------------//

char getAdmin() **//Simple admin output**

{

system("cls");

do{

cout<<"Admin Menu"<<endl

<<"[1] Movies"<<endl

<<"[2] View Reserved Seats"<<endl

<<"[3] View List of bought Tickets"<<endl

<<"[4] Sign Out"<<endl

<<"Enter Choice:";

cin>>adminChoice;

}while(adminChoice<'1'||adminChoice>'4');

return adminChoice;

}

//-----------------------------------//

char viewReservedSeats()

{

system ("cls");

ctr=0; **//Ctr variable is used widely, sets the value to 0 so that it won't create any kind intersection with ctr used in other functions.**

cout<<endl<<"Movie: "<<movieC1[0]<<endl;

do //For cinema 1; 11 am

{

if(ctr<=99) **//100 Loops to print out all the variables inside the designated cinema(One/Two)(1-5) variable**

{

cout<<"[ ";

if(cinemaOne1[ctr]==1) **//If cinemaOne[#] Already has a value, it means that it is taken.**

cout<<" X";

else

{

if(ctr<10) **//Adds a space to the first 9 numbers.**

{

cout<<" ";

}

cout<<ctr;

}

cout<<" ]";

if(ctr==19||ctr==39||ctr==59||ctr==79||ctr==99) **//Creates the rows in intervals of 20.**

cout<<endl;

if(cinemaOne1[ctr]!=1) **//Assigns value to cinemacinema(One/Two)(1-5) -- Is a redundant code due to Value Assign Function already assigning codes.**

{

cinemaOne1[ctr]=0;

}

ctr++;

}

}while(ctr<100);

cout<<endl<<"Movie: "<<movieC1[1]<<endl;

ctr=0; **//Resets the value of ctr to 0 to be used on the next instance.**

do **//For cinema 1; 1 pm. This is the same code as is above, but has different variables.**

{

if(ctr<=99)

{

cout<<"[ ";

if(cinemaOne2[ctr]==1)

cout<<" X";

else

{

if(ctr<10)

{

cout<<" ";

}

cout<<ctr;

}

cout<<" ]";

if(ctr==19||ctr==39||ctr==59||ctr==79||ctr==99)

cout<<endl;

if(cinemaOne2[ctr]!=1)

{

cinemaOne2[ctr]=0;

}

ctr++;

}

}while(ctr<100);

cout<<endl;

ctr=0;

cout<<endl<<"Movie: "<<movieC1[2]<<endl;

do **//For cinema 1; 3 pm**

{

if(ctr<=99)

{

cout<<"[ ";

if(cinemaOne3[ctr]==1)

cout<<" X";

else

{

if(ctr<10)

{

cout<<" ";

}

cout<<ctr;

}

cout<<" ]";

if(ctr==19||ctr==39||ctr==59||ctr==79||ctr==99)

cout<<endl;

if(cinemaOne3[ctr]!=1)

{

cinemaOne3[ctr]=0;

}

ctr++;

}

}while(ctr<100);

cout<<endl;

ctr=0;

cout<<endl<<"Movie: "<<movieC1[3]<<endl;

do **//For cinema 1; 5 pm**

{

if(ctr<=99)

{

cout<<"[ ";

if(cinemaOne4[ctr]==1)

cout<<" X";

else

{

if(ctr<10)

{

cout<<" ";

}

cout<<ctr;

}

cout<<" ]";

if(ctr==19||ctr==39||ctr==59||ctr==79||ctr==99)

cout<<endl;

if(cinemaOne4[ctr]!=1)

{

cinemaOne4[ctr]=0;

}

ctr++;

}

}while(ctr<100);

cout<<endl;

ctr=0;

cout<<endl<<"Movie: "<<movieC1[4]<<endl;

do **//For cinema 1; 7 pm**

{

if(ctr<=99)

{

cout<<"[ ";

if(cinemaOne5[ctr]==1)

cout<<" X";

else

{

if(ctr<10)

{

cout<<" ";

}

cout<<ctr;

}

cout<<" ]";

if(ctr==19||ctr==39||ctr==59||ctr==79||ctr==99)

cout<<endl;

if(cinemaOne5[ctr]!=1)

{

cinemaOne5[ctr]=0;

}

ctr++;

}

}while(ctr<100);

cout<<endl;

ctr=0;

cout<<endl<<"Movie: "<<movieC1[5]<<endl;

do **//For cinema 1; 9 pm**

{

if(ctr<=99)

{

cout<<"[ ";

if(cinemaOne6[ctr]==1)

cout<<" X";

else

{

if(ctr<10)

{

cout<<" ";

}

cout<<ctr;

}

cout<<" ]";

if(ctr==19||ctr==39||ctr==59||ctr==79||ctr==99)

cout<<endl;

if(cinemaOne6[ctr]!=1)

{

cinemaOne6[ctr]=0;

}

ctr++;

}

}while(ctr<100);

//----------------------------------// **Cinema 2: View Reserved Seats**

cout<<endl;

cout<<endl<<"Movie: "<<movieC2[0]<<endl;

ctr=0;

do **//For cinema 2; 11 am**

{

if(ctr<=99)

{

cout<<"[ ";

if(cinemaTwo1[ctr]==1)

cout<<" X";

else

{

if(ctr<10)

{

cout<<" ";

}

cout<<ctr;

}

cout<<" ]";

if(ctr==19||ctr==39||ctr==59||ctr==79||ctr==99)

cout<<endl;

if(cinemaTwo1[ctr]!=1)

{

cinemaTwo1[ctr]=0;

}

ctr++;

}

}while(ctr<100);

cout<<endl;

ctr=0;

cout<<endl<<"Movie: "<<movieC2[1]<<endl;

do **//For cinema 2; 1 pm**

{

if(ctr<=99)

{

cout<<"[ ";

if(cinemaTwo2[ctr]==1)

cout<<" X";

else

{

if(ctr<10)

{

cout<<" ";

}

cout<<ctr;

}

cout<<" ]";

if(ctr==19||ctr==39||ctr==59||ctr==79||ctr==99)

cout<<endl;

if(cinemaTwo2[ctr]!=1)

{

cinemaTwo2[ctr]=0;

}

ctr++;

}

}while(ctr<100);

cout<<endl;

ctr=0;

cout<<endl<<"Movie: "<<movieC2[2]<<endl;

do **//For cinema 2; 3 pm**

{

if(ctr<=99)

{

cout<<"[ ";

if(cinemaTwo3[ctr]==1)

cout<<" X";

else

{

if(ctr<10)

{

cout<<" ";

}

cout<<ctr;

}

cout<<" ]";

if(ctr==19||ctr==39||ctr==59||ctr==79||ctr==99)

cout<<endl;

if(cinemaTwo3[ctr]!=1)

{

cinemaTwo3[ctr]=0;

}

ctr++;

}

}while(ctr<100);

cout<<endl;

ctr=0;

cout<<endl<<"Movie: "<<movieC2[3]<<endl;

do **//For cinema 2; 5 pm**

{

if(ctr<=99)

{

cout<<"[ ";

if(cinemaTwo4[ctr]==1)

cout<<" X";

else

{

if(ctr<10)

{

cout<<" ";

}

cout<<ctr;

}

cout<<" ]";

if(ctr==19||ctr==39||ctr==59||ctr==79||ctr==99)

cout<<endl;

if(cinemaTwo4[ctr]!=1)

{

cinemaTwo4[ctr]=0;

}

ctr++;

}

}while(ctr<100);

cout<<endl;

ctr=0;

cout<<"Movie: "<<movieC2[4]<<endl;

do **//For cinema 2; 7 pm**

{

if(ctr<=99)

{

cout<<"[ ";

if(cinemaTwo5[ctr]==1)

cout<<" X";

else

{

if(ctr<10)

{

cout<<" ";

}

cout<<ctr;

}

cout<<" ]";

if(ctr==19||ctr==39||ctr==59||ctr==79||ctr==99)

cout<<endl;

if(cinemaTwo5[ctr]!=1)

{

cinemaTwo5[ctr]=0;

}

ctr++;

}

}while(ctr<100);

cout<<endl;

ctr=0;

cout<<endl<<"Movie: "<<movieC2[5]<<endl;

do **//For cinema 2; 9 pm**

{

if(ctr<=99)

{

cout<<"[ ";

if(cinemaTwo6[ctr]==1)

cout<<" X";

else

{

if(ctr<10)

{

cout<<" ";

}

cout<<ctr;

}

cout<<" ]";

if(ctr==19||ctr==39||ctr==59||ctr==79||ctr==99)

cout<<endl;

if(cinemaTwo6[ctr]!=1)

{

cinemaTwo6[ctr]=0;

}

ctr++;

}

}while(ctr<100); **//Confirms if the user wants to go Back to the previous menu.**

cout<<endl<<"Go Back (Y/N)?";

cin>>goBack\_1;

if(goBack\_1=='Y'|'y')

{

goBack=1;

}

else

goBack=0;

}

//-----------------------------------//

char addMovie() **//Add or Change Movie Function.**

{

//Local Declaration

char choiceMovie;

char choiceAddMovieCinema;

char choiceWhichMovie;

//executable

system ("cls");

cout<<"Current Movies:"<<endl

<<" [Cinema 1] [Cinema 2]"<<endl

<<movieTime[0]<<" : "<<movieC1[0]<<setw(5)<<" "<<movieC2[0]<<endl

<<movieTime[1]<<" : "<<movieC1[1]<<setw(7)<<" "<<movieC2[1]<<endl

<<movieTime[2]<<" : "<<movieC1[2]<<setw(11)<<" "<<movieC2[2]<<endl

<<movieTime[3]<<" : "<<movieC1[3]<<setw(7)<<" "<<movieC2[3]<<endl

<<movieTime[4]<<" : "<<movieC1[4]<<setw(11)<<" "<<movieC2[4]<<endl

<<movieTime[5]<<" : "<<movieC1[5]<<setw(3)<<" "<<movieC2[5]<<endl

<<"You can only add up to 12 movies to be Premiered"<<endl

<<"[1] Add or Change Movie"<<endl

<<"[2] Go Back"<<endl

<<"Enter Choice:";

cin>>choiceMovie;

switch(choiceMovie) **//Enables the user to choose which cinema to change/add the movie to.**

{

case '1':

{

cout<<"Change or Add movie to:"<<endl

<<"[1] Cinema 1"<<endl

<<"[2] Cinema 2"<<endl

<<"[3] Go Back"<<endl

<<"Enter Choice:";

cin>>choiceAddMovieCinema;

if(choiceAddMovieCinema=='1')

{

do{

goBack=1; **//Resets the value to 1 so that it could loop; and would have the same value as all the goBack loops for less confusion.**

system ("cls");

cout<<endl

<<"Change/Add movie;"<<endl **//Allows user to choose which movie to change/add.**

<<"[1]"<<movieTime[0]<<" : "<<movieC1[0]<<endl

<<"[2]"<<movieTime[1]<<" : "<<movieC1[1]<<endl

<<"[3]"<<movieTime[2]<<" : "<<movieC1[2]<<endl

<<"[4]"<<movieTime[3]<<" : "<<movieC1[3]<<endl

<<"[5]"<<movieTime[4]<<" : "<<movieC1[4]<<endl

<<"[6]"<<movieTime[5]<<" : "<<movieC1[5]<<endl

<<"[7] Go Back"<<endl

<<"Enter Choice (Press Enter Twice To Confirm Answer):";

cin>>choiceWhichMovie;

switch(choiceWhichMovie)

{

case '1':

cin.ignore();

cout<<"Enter Movie:";

getline(cin,movieC1[0]); //also Stores the ' ' inside the string.

cin.ignore(); **//Assists in getline(cin,variable) to help it work.**

break;

case '2':

cin.ignore();

cout<<"Enter Movie:";

getline(cin,movieC1[1]);

cin.ignore();

break;

case '3':

cin.ignore();

cout<<"Enter Movie:";

getline(cin,movieC1[2]);

cin.ignore();

break;

case '4':

cin.ignore();

cout<<"Enter Movie:";

getline(cin,movieC1[3]);

cin.ignore();

break;

case '5':

cin.ignore();

cout<<"Enter Movie:";

getline(cin,movieC1[4]);

cin.ignore();

break;

case '6':

cin.ignore();

cout<<"Enter Movie:";

getline(cin,movieC1[5]);

cin.ignore();

case '7':

goBack=0;

break;

}

}while(goBack==1);

}

if(choiceAddMovieCinema=='2') **//Same as above but for cinema 2.**

{

cout<<"Change/Add movie;"<<endl

<<"[1]"<<movieTime[0]<<" : "<<movieC2[0]<<endl

<<"[2]"<<movieTime[1]<<" : "<<movieC2[1]<<endl

<<"[3]"<<movieTime[2]<<" : "<<movieC2[2]<<endl

<<"[4]"<<movieTime[3]<<" : "<<movieC2[3]<<endl

<<"[5]"<<movieTime[4]<<" : "<<movieC2[4]<<endl

<<"[6]"<<movieTime[5]<<" : "<<movieC2[5]<<endl

<<"[7] Go Back"<<endl

<<"Enter Choice:";

cin>>choiceWhichMovie;

switch(choiceWhichMovie)

{

case '1':

cin.ignore();

cout<<"Enter Movie:";

getline(cin,movieC2[0]);

cin.ignore();

break;

case '2':

cin.ignore();

cout<<"Enter Movie:";

getline(cin,movieC2[1]);

cin.ignore();

break;

case '3':

cin.ignore();

cout<<"Enter Movie:";

getline(cin,movieC2[2]);

cin.ignore();

break;

case '4':

cin.ignore();

cout<<"Enter Movie:";

getline(cin,movieC2[3]);

cin.ignore();

break;

case '5':

cin.ignore();

cout<<"Enter Movie:";

getline(cin,movieC2[4]);

cin.ignore();

break;

case '6':

cin.ignore();

cout<<"Enter Movie:";

getline(cin,movieC2[5]);

cin.ignore();

break;

case '7':

goBack=0;

break;

}

}

if(choiceAddMovieCinema=='3')

{

goBack=0;

return goBack;

}

}

break;

case '2':

{

goBack=1;

return goBack;

}

}

return 0; **//Xcode on mac doesn't allow functions without returns outside of do-while loop.**

}

//-----------------------------------//

char getCreditcard() **//Optional Function -- Could be used to optimized and make the credit card taker better.**

{

cout<<"Enter Credit Card Number (16 Digits): ";

cin>>creditCard;

}

//-----------------------------------//

char buyTickets() **//Allows the user to buy Tickets.**

{

//Local Declaration

int seatTaken=0;

int checker;

int randNum, randMax=300000, randMin=200000;

int batch=2019;

int ctr;

char transactionConf;

//executable

system ("cls");

do{

srand (time(NULL)); **//Ticket Number Randomizer taken from BB**

for(ctr=1;ctr<=5;ctr++)

{

randNum=(batch\*1000000)+ (rand()%(randMax-randMin)+randMin); **//Allows the number to be randomized value to be between 200k and 300k with the initial 4 numbers always starting with 2019**

}

cout<<"Now Showing:"<<endl **//Shows current movies and their time.**

<<" Time :Choice: [Cinema 1]"<<endl

<<movieTime[0]<<" : "<<" [1] : "<<movieC1[0]<<endl

<<movieTime[1]<<" : "<<" [2] : "<<movieC1[1]<<endl

<<movieTime[2]<<" : "<<" [3] : "<<movieC1[2]<<endl

<<movieTime[3]<<" : "<<" [4] : "<<movieC1[3]<<endl

<<movieTime[4]<<" : "<<" [5] : "<<movieC1[4]<<endl

<<movieTime[5]<<" : "<<" [6] : "<<movieC1[5]<<endl

<<" Time: [Cinema 2]"<<endl

<<movieTime[0]<<" : "<<" [7] : "<<movieC2[0]<<endl

<<movieTime[1]<<" : "<<" [8] : "<<movieC2[1]<<endl

<<movieTime[2]<<" : "<<" [9] : "<<movieC2[2]<<endl

<<movieTime[3]<<" : "<<"[10] : "<<movieC2[3]<<endl

<<movieTime[4]<<" : "<<"[11] : "<<movieC2[4]<<endl

<<movieTime[5]<<" : "<<"[12] : "<<movieC2[5]<<endl

<<" Enter [13] Go Back"<<endl

<<"Choose Movie (1-13):";

cin>>chosenMovie;

if(chosenMovie<1&&chosenMovie>13) **//Only allows value to be entered to be either less than 1 or greater than 13. Anything else inputted will loop.**

cout<<"Please Enter numbers between 1 and 13"<<endl;

}while(chosenMovie<1||chosenMovie>13);

system ("cls");

switch(chosenMovie)

{

case 1:

{

do{

goBack=0;

do{

cout<<"Cinema 1: "<<movieC1[1]<<" Seats: [ X ] Reserved [ # ] Vacant"<<endl<<endl;

ctr=0;

do

{

if(ctr<=99) **//Shows the Seats Available loop -- Same code as the one from View Reserved Seats function**

{

cout<<"[ ";

if(cinemaOne1[ctr]==1)

cout<<" X";

else

{

if(ctr<10)

{

cout<<" ";

}

cout<<ctr;

}

cout<<" ]";

if(ctr==19||ctr==39||ctr==59||ctr==79||ctr==99)

cout<<endl;

if(cinemaOne1[ctr]!=1)

{

cinemaOne1[ctr]=0;

}

ctr++;

}

}while(ctr<100);

cout<<endl;

cout<<"Please Choose a Seat: ";

cin>>chosenSeat;

system ("cls");

checker=cinemaOne1[chosenSeat]; **//Checks if chosen seat is already taken or not**

if(checker==1)

{

cout<<"That Seat is already taken; Please Choose another one"<<endl; **//Output if seat is already taken.**

seatTaken=1;

}

if(checker==0)

{

cinemaOne1[chosenSeat]=1;

cout<<"You have Succesfully reserved the Seat"<<endl;

seatTaken=0;

}

ctr=0;

}while(seatTaken==1); **//Shows an updated graphic picture of the seats;**

do

{

if(ctr<=99)

{

cout<<"[ ";

if(cinemaOne1[ctr]==1)

cout<<" X";

else

{

if(ctr<10)

{

cout<<" ";

}

cout<<ctr;

}

cout<<" ]";

if(ctr==19||ctr==39||ctr==59||ctr==79||ctr==99)

cout<<endl;

if(cinemaOne1[ctr]!=1)

{

cinemaOne1[ctr]=0;

}

ctr++;

}

}while(ctr<100);

**//Asks user to input personal information to store along with the seat**

cout<<"Please Enter Your First Name:";

cin>>name[chosenSeat];

cout<<"Please Enter Your Last Name:";

cin>>lname[chosenSeat];

cout<<"Pleae Enter Your Email Adress:";

cin>>email[chosenSeat];

getCreditcard();

cout<<"The total price is P"<<price[0]<<endl;

cout<<"Continue transaction? (Y/N):"; **//Asks if the user wants to continue the transaction. If yes continues, if no; resets the value of the seat that was chosen to 0; therefore not taken anymore and then goes back to previous menu.**

cin>>transactionConf;

if(transactionConf=='n'||transactionConf=='N')

{

cinemaOne1[chosenSeat]=0;

break;

}

if(transactionConf=='Y'||transactionConf=='y')

{

ticketHolder[chosenSeat]=randNum;

cout<<"Transaction Succesful!"<<endl

<<"Your Ticket number is "<<ticketHolder[chosenSeat]<<endl;

}

do{ **//Confirms if the user wants to go back to previous menu.**

cout<<"Go Back? (Y/N):";

cin>>choice;

if(choice=='Y'||choice=='y')

{

goBack=1;

break;

}

if(choice=='N'||choice=='n')

goBack=0;

}while(goBack==1);

}while(goBack==0);

return goBack;

}

break;

case 2: **//Buy Tickets For cinema 1 / 1 pm Time //Same code as is above, just different varabiles.**

{

do{

goBack=0;

do{

cout<<"Cinema 1: "<<movieC1[2]<<" Seats: [ X ] Reserved [ # ] Vacant"<<endl<<endl;

ctr=0;

do

{

if(ctr<=99)

{

cout<<"[ ";

if(cinemaOne2[ctr]==1)

cout<<" X";

else

{

if(ctr<10)

{

cout<<" ";

}

cout<<ctr;

}

cout<<" ]";

if(ctr==19||ctr==39||ctr==59||ctr==79||ctr==99)

cout<<endl;

if(cinemaOne2[ctr]!=1)

{

cinemaOne2[ctr]=0;

}

ctr++;

}

}while(ctr<100);

cout<<endl;

cout<<"Please Choose a Seat: ";

cin>>chosenSeat;

system ("cls");

checker=cinemaOne2[chosenSeat];

if(checker==1)

{

cout<<"That Seat is already taken; Please Choose another one"<<endl;

seatTaken=1;

}

if(checker==0)

{

cinemaOne2[chosenSeat]=1;

cout<<"You have Succesfully reserved the Seat"<<endl;

seatTaken=0;

}

ctr=0;

}while(seatTaken==1);

do

{

if(ctr<=99)

{

cout<<"[ ";

if(cinemaOne2[ctr]==1)

cout<<" X";

else

{

if(ctr<10)

{

cout<<" ";

}

cout<<ctr;

}

cout<<" ]";

if(ctr==19||ctr==39||ctr==59||ctr==79||ctr==99)

cout<<endl;

if(cinemaOne2[ctr]!=1)

{

cinemaOne2[ctr]=0;

}

ctr++;

}

}while(ctr<100);

**//Plus one hundered on some variables to store inside the ticketHolder[#] in between 100-199;**

cout<<"Please Enter Your First Name:";

cin>>name[chosenSeat+100];

cout<<"Please Enter Your Last Name:";

cin>>lname[chosenSeat+100];

cout<<"Pleae Enter Your Email Adress:";

cin>>email[chosenSeat+100];

getCreditcard();

cout<<"The total price is P"<<price[0]<<endl;

cout<<"Continue transaction? (Y/N):";

cin>>transactionConf;

if(transactionConf=='n'||transactionConf=='N')

{

cinemaOne2[chosenSeat]=0;

break;

}

if(transactionConf=='Y'||transactionConf=='y')

{

ticketHolder[chosenSeat+100]=randNum;

cout<<"Transaction Succesful!"<<endl

<<"Your Ticket number is "<<ticketHolder[chosenSeat+100]<<endl;

}

do{

cout<<"Go Back? (Y/N):";

cin>>choice;

if(choice=='Y'||choice=='y')

{

goBack=1;

break;

}

if(choice=='N'||choice=='n')

goBack=0;

}while(goBack==1);

}while(goBack==0);

return goBack;

}

break;

case 3**: //Cinema 1 ; 3 pm**

{

do{

goBack=0;

do{

cout<<"Cinema 1: "<<movieC1[2]<<" Seats: [ X ] Reserved [ # ] Vacant"<<endl<<endl;

ctr=0;

do

{

if(ctr<=99)

{

cout<<"[ ";

if(cinemaOne3[ctr]==1)

cout<<" X";

else

{

if(ctr<10)

{

cout<<" ";

}

cout<<ctr;

}

cout<<" ]";

if(ctr==19||ctr==39||ctr==59||ctr==79||ctr==99)

cout<<endl;

if(cinemaOne3[ctr]!=1)

{

cinemaOne3[ctr]=0;

}

ctr++;

}

}while(ctr<100);

cout<<endl;

cout<<"Please Choose a Seat: ";

cin>>chosenSeat;

system ("cls");

checker=cinemaOne3[chosenSeat];

if(checker==1)

{

cout<<"That Seat is already taken; Please Choose another one"<<endl;

seatTaken=1;

}

if(checker==0)

{

cinemaOne3[chosenSeat]=1;

cout<<"You have Succesfully reserved the Seat"<<endl;

seatTaken=0;

}

ctr=0;

}while(seatTaken==1);

do

{

if(ctr<=99)

{

cout<<"[ ";

if(cinemaOne3[ctr]==1)

cout<<" X";

else

{

if(ctr<10)

{

cout<<" ";

}

cout<<ctr;

}

cout<<" ]";

if(ctr==19||ctr==39||ctr==59||ctr==79||ctr==99)

cout<<endl;

if(cinemaOne3[ctr]!=1)

{

cinemaOne3[ctr]=0;

}

ctr++;

}

}while(ctr<100);

cout<<"Please Enter Your First Name:";

cin>>name[chosenSeat+200];

cout<<"Please Enter Your Last Name:";

cin>>lname[chosenSeat+200];

cout<<"Pleae Enter Your Email Adress:";

cin>>email[chosenSeat+200];

getCreditcard();

cout<<"The total price is P"<<price[0]<<endl;

cout<<"Continue transaction? (Y/N):";

cin>>transactionConf;

if(transactionConf=='n'||transactionConf=='N')

{

cinemaOne3[chosenSeat]=0;

break;

}

if(transactionConf=='Y'||transactionConf=='y')

{

ticketHolder[chosenSeat+200]=randNum;

cout<<"Transaction Succesful!"<<endl

<<"Your Ticket number is "<<ticketHolder[chosenSeat+200]<<endl;

}

do{

cout<<"Go Back? (Y/N):";

cin>>choice;

if(choice=='Y'||choice=='y')

{

goBack=1;

break;

}

if(choice=='N'||choice=='n')

goBack=0;

}while(goBack==1);

}while(goBack==0);

return goBack;

}

break;

case 4: **//Cinema 1 ; 5 pm**

{

do{

goBack=0;

do{

cout<<"Cinema 1: "<<movieC1[3]<<" Seats: [ X ] Reserved [ # ] Vacant"<<endl<<endl;

ctr=0;

do

{

if(ctr<=99)

{

cout<<"[ ";

if(cinemaOne4[ctr]==1)

cout<<" X";

else

{

if(ctr<10)

{

cout<<" ";

}

cout<<ctr;

}

cout<<" ]";

if(ctr==19||ctr==39||ctr==59||ctr==79||ctr==99)

cout<<endl;

if(cinemaOne4[ctr]!=1)

{

cinemaOne4[ctr]=0;

}

ctr++;

}

}while(ctr<100);

cout<<endl;

cout<<"Please Choose a Seat: ";

cin>>chosenSeat;

system ("cls");

checker=cinemaOne4[chosenSeat];

if(checker==1)

{

cout<<"That Seat is already taken; Please Choose another one"<<endl;

seatTaken=1;

}

if(checker==0)

{

cinemaOne4[chosenSeat]=1;

cout<<"You have Succesfully reserved the Seat"<<endl;

seatTaken=0;

}

ctr=0;

}while(seatTaken==1);

do

{

if(ctr<=99)

{

cout<<"[ ";

if(cinemaOne4[ctr]==1)

cout<<" X";

else

{

if(ctr<10)

{

cout<<" ";

}

cout<<ctr;

}

cout<<" ]";

if(ctr==19||ctr==39||ctr==59||ctr==79||ctr==99)

cout<<endl;

if(cinemaOne4[ctr]!=1)

{

cinemaOne4[ctr]=0;

}

ctr++;

}

}while(ctr<100);

cout<<"Please Enter Your First Name:";

cin>>name[chosenSeat+300];

cout<<"Please Enter Your Last Name:";

cin>>lname[chosenSeat+300];

cout<<"Pleae Enter Your Email Adress:";

cin>>email[chosenSeat+300];

getCreditcard();

cout<<"The total price is P"<<price[3]<<endl;

cout<<"Continue transaction? (Y/N):";

cin>>transactionConf;

if(transactionConf=='n'||transactionConf=='N')

{

cinemaOne4[chosenSeat]=0;

break;

}

if(transactionConf=='Y'||transactionConf=='y')

{

ticketHolder[chosenSeat+300]=randNum;

cout<<"Transaction Succesful!"<<endl

<<"Your Ticket number is "<<ticketHolder[chosenSeat+300]<<endl;

}

do{

cout<<"Go Back? (Y/N):";

cin>>choice;

if(choice=='Y'||choice=='y')

{

goBack=1;

break;

}

if(choice=='N'||choice=='n')

goBack=0;

}while(goBack==1);

}while(goBack==0);

}

break;

case 5: **// Cinema 1 ; 7 pm**

{

do{

goBack=0;

do{

cout<<"Cinema 1: "<<movieC1[4]<<" Seats: [ X ] Reserved [ # ] Vacant"<<endl<<endl;

ctr=0;

do

{

if(ctr<=99)

{

cout<<"[ ";

if(cinemaOne5[ctr]==1)

cout<<" X";

else

{

if(ctr<10)

{

cout<<" ";

}

cout<<ctr;

}

cout<<" ]";

if(ctr==19||ctr==39||ctr==59||ctr==79||ctr==99)

cout<<endl;

if(cinemaOne5[ctr]!=1)

{

cinemaOne5[ctr]=0;

}

ctr++;

}

}while(ctr<100);

cout<<endl;

cout<<"Please Choose a Seat: ";

cin>>chosenSeat;

system ("cls");

checker=cinemaOne5[chosenSeat];

if(checker==1)

{

cout<<"That Seat is already taken; Please Choose another one"<<endl;

seatTaken=1;

}

if(checker==0)

{

cinemaOne5[chosenSeat]=1;

cout<<"You have Succesfully reserved the Seat"<<endl;

seatTaken=0;

}

ctr=0;

}while(seatTaken==1);

do

{

if(ctr<=99)

{

cout<<"[ ";

if(cinemaOne5[ctr]==1)

cout<<" X";

else

{

if(ctr<10)

{

cout<<" ";

}

cout<<ctr;

}

cout<<" ]";

if(ctr==19||ctr==39||ctr==59||ctr==79||ctr==99)

cout<<endl;

if(cinemaOne5[ctr]!=1)

{

cinemaOne5[ctr]=0;

}

ctr++;

}

}while(ctr<100);

cout<<"Please Enter Your First Name:";

cin>>name[chosenSeat+400];

cout<<"Please Enter Your Last Name:";

cin>>lname[chosenSeat+400];

cout<<"Pleae Enter Your Email Adress:";

cin>>email[chosenSeat+400];

getCreditcard();

cout<<"The total price is P"<<price[4]<<endl;

cout<<"Continue transaction? (Y/N):";

cin>>transactionConf;

if(transactionConf=='n'||transactionConf=='N')

{

cinemaOne5[chosenSeat]=0;

break;

}

if(transactionConf=='Y'||transactionConf=='y')

{

ticketHolder[chosenSeat+400]=randNum;

cout<<"Transaction Succesful!"<<endl

<<"Your Ticket number is "<<ticketHolder[chosenSeat+400]<<endl;

}

do{

cout<<"Go Back? (Y/N):";

cin>>choice;

if(choice=='Y'||choice=='y')

{

goBack=1;

break;

}

if(choice=='N'||choice=='n')

goBack=0;

}while(goBack==1);

}while(goBack==0);

}

break;

case 6: **//Cinema 1 ; 9 pm**

{

do{

goBack=0;

do{

cout<<"Cinema 1: "<<movieC1[5]<<" Seats: [ X ] Reserved [ # ] Vacant"<<endl<<endl;

ctr=0;

do

{

if(ctr<=99)

{

cout<<"[ ";

if(cinemaOne6[ctr]==1)

cout<<" X";

else

{

if(ctr<10)

{

cout<<" ";

}

cout<<ctr;

}

cout<<" ]";

if(ctr==19||ctr==39||ctr==59||ctr==79||ctr==99)

cout<<endl;

if(cinemaOne6[ctr]!=1)

{

cinemaOne6[ctr]=0;

}

ctr++;

}

}while(ctr<100);

cout<<endl;

cout<<"Please Choose a Seat: ";

cin>>chosenSeat;

system ("cls");

checker=cinemaOne6[chosenSeat];

if(checker==1)

{

cout<<"That Seat is already taken; Please Choose another one"<<endl;

seatTaken=1;

}

if(checker==0)

{

cinemaOne6[chosenSeat]=1;

cout<<"You have Succesfully reserved the Seat"<<endl;

seatTaken=0;

}

ctr=0;

}while(seatTaken==1);

do

{

if(ctr<=99)

{

cout<<"[ ";

if(cinemaOne6[ctr]==1)

cout<<" X";

else

{

if(ctr<10)

{

cout<<" ";

}

cout<<ctr;

}

cout<<" ]";

if(ctr==19||ctr==39||ctr==59||ctr==79||ctr==99)

cout<<endl;

if(cinemaOne6[ctr]!=1)

{

cinemaOne6[ctr]=0;

}

ctr++;

}

}while(ctr<100);

cout<<"Please Enter Your First Name:";

cin>>name[chosenSeat+500];

cout<<"Please Enter Your Last Name:";

cin>>lname[chosenSeat+500];

cout<<"Pleae Enter Your Email Adress:";

cin>>email[chosenSeat+500];

getCreditcard();

cout<<"The total price is P"<<price[5]<<endl;

cout<<"Continue transaction? (Y/N):";

cin>>transactionConf;

if(transactionConf=='n'||transactionConf=='N')

{

cinemaOne6[chosenSeat]=0;

break;

}

if(transactionConf=='Y'||transactionConf=='y')

{

ticketHolder[chosenSeat+500]=randNum;

cout<<"Transaction Succesful!"<<endl

<<"Your Ticket number is "<<ticketHolder[chosenSeat+500]<<endl;

}

do{

cout<<"Go Back? (Y/N):";

cin>>choice;

if(choice=='Y'||choice=='y')

{

goBack=1;

break;

}

if(choice=='N'||choice=='n')

goBack=0;

}while(goBack==1);

}while(goBack==0);

}

break;

case 7: **//Cinema 2 ; 11 am**

{

do{

goBack=0;

do{

cout<<"Cinema 1: "<<movieC2[0]<<" Seats: [ X ] Reserved [ # ] Vacant"<<endl<<endl;

ctr=0;

do

{

if(ctr<=99)

{

cout<<"[ ";

if(cinemaTwo1[ctr]==1)

cout<<" X";

else

{

if(ctr<10)

{

cout<<" ";

}

cout<<ctr;

}

cout<<" ]";

if(ctr==19||ctr==39||ctr==59||ctr==79||ctr==99)

cout<<endl;

if(cinemaTwo1[ctr]!=1)

{

cinemaTwo1[ctr]=0;

}

ctr++;

}

}while(ctr<100);

cout<<endl;

cout<<"Please Choose a Seat: ";

cin>>chosenSeat;

system ("cls");

checker=cinemaTwo1[chosenSeat];

if(checker==1)

{

cout<<"That Seat is already taken; Please Choose another one"<<endl;

seatTaken=1;

}

if(checker==0)

{

cinemaTwo1[chosenSeat]=1;

cout<<"You have Succesfully reserved the Seat"<<endl;

seatTaken=0;

}

ctr=0;

}while(seatTaken==1);

do

{

if(ctr<=99)

{

cout<<"[ ";

if(cinemaTwo1[ctr]==1)

cout<<" X";

else

{

if(ctr<10)

{

cout<<" ";

}

cout<<ctr;

}

cout<<" ]";

if(ctr==19||ctr==39||ctr==59||ctr==79||ctr==99)

cout<<endl;

if(cinemaTwo1[ctr]!=1)

{

cinemaTwo1[ctr]=0;

}

ctr++;

}

}while(ctr<100);

cout<<"Please Enter Your First Name:";

cin>>name[chosenSeat+600];

cout<<"Please Enter Your Last Name:";

cin>>lname[chosenSeat+600];

cout<<"Pleae Enter Your Email Adress:";

cin>>email[chosenSeat+600];

getCreditcard();

cout<<"The total price is P"<<price[6]<<endl;

cout<<"Continue transaction? (Y/N):";

cin>>transactionConf;

if(transactionConf=='n'||transactionConf=='N')

{

cinemaTwo1[chosenSeat]=0;

break;

}

if(transactionConf=='Y'||transactionConf=='y')

{

ticketHolder[chosenSeat+600]=randNum;

cout<<"Transaction Succesful!"<<endl

<<"Your Ticket number is "<<ticketHolder[chosenSeat+600]<<endl;

}

do{

cout<<"Go Back? (Y/N):";

cin>>choice;

if(choice=='Y'||choice=='y')

{

goBack=1;

break;

}

if(choice=='N'||choice=='n')

goBack=0;

}while(goBack==1);

}while(goBack==0);

}

break;

case 8: **//Cinema 2 ; 2 pm**

{

do{

goBack=0;

do{

cout<<"Cinema 1: "<<movieC2[1]<<" Seats: [ X ] Reserved [ # ] Vacant"<<endl<<endl;

ctr=0;

do

{

if(ctr<=99)

{

cout<<"[ ";

if(cinemaTwo2[ctr]==1)

cout<<" X";

else

{

if(ctr<10)

{

cout<<" ";

}

cout<<ctr;

}

cout<<" ]";

if(ctr==19||ctr==39||ctr==59||ctr==79||ctr==99)

cout<<endl;

if(cinemaTwo2[ctr]!=1)

{

cinemaTwo2[ctr]=0;

}

ctr++;

}

}while(ctr<100);

cout<<endl;

cout<<"Please Choose a Seat: ";

cin>>chosenSeat;

system ("cls");

checker=cinemaTwo2[chosenSeat];

if(checker==1)

{

cout<<"That Seat is already taken; Please Choose another one"<<endl;

seatTaken=1;

}

if(checker==0)

{

cinemaTwo2[chosenSeat]=1;

cout<<"You have Succesfully reserved the Seat"<<endl;

seatTaken=0;

}

ctr=0;

}while(seatTaken==1);

do

{

if(ctr<=99)

{

cout<<"[ ";

if(cinemaTwo2[ctr]==1)

cout<<" X";

else

{

if(ctr<10)

{

cout<<" ";

}

cout<<ctr;

}

cout<<" ]";

if(ctr==19||ctr==39||ctr==59||ctr==79||ctr==99)

cout<<endl;

if(cinemaTwo2[ctr]!=1)

{

cinemaTwo2[ctr]=0;

}

ctr++;

}

}while(ctr<100);

cout<<"Please Enter Your First Name:";

cin>>name[chosenSeat+700];

cout<<"Please Enter Your Last Name:";

cin>>lname[chosenSeat+700];

cout<<"Pleae Enter Your Email Adress:";

cin>>email[chosenSeat+700];

getCreditcard();

cout<<"The total price is P"<<price[6]<<endl;

cout<<"Continue transaction? (Y/N):";

cin>>transactionConf;

if(transactionConf=='n'||transactionConf=='N')

{

cinemaTwo2[chosenSeat]=0;

break;

}

if(transactionConf=='Y'||transactionConf=='y')

{

ticketHolder[chosenSeat+700]=randNum;

cout<<"Transaction Succesful!"<<endl

<<"Your Ticket number is "<<ticketHolder[chosenSeat+700]<<endl;

}

do{

cout<<"Go Back? (Y/N):";

cin>>choice;

if(choice=='Y'||choice=='y')

{

goBack=1;

break;

}

if(choice=='N'||choice=='n')

goBack=0;

}while(goBack==1);

}while(goBack==0);

}

break;

case 9:

{

do{

goBack=0;

do{

cout<<"Cinema 1: "<<movieC2[2]<<" Seats: [ X ] Reserved [ # ] Vacant"<<endl<<endl;

ctr=0;

do

{

if(ctr<=99)

{

cout<<"[ ";

if(cinemaTwo3[ctr]==1)

cout<<" X";

else

{

if(ctr<10)

{

cout<<" ";

}

cout<<ctr;

}

cout<<" ]";

if(ctr==19||ctr==39||ctr==59||ctr==79||ctr==99)

cout<<endl;

if(cinemaTwo3[ctr]!=1)

{

cinemaTwo3[ctr]=0;

}

ctr++;

}

}while(ctr<100);

cout<<endl;

cout<<"Please Choose a Seat: ";

cin>>chosenSeat;

system ("cls");

checker=cinemaTwo3[chosenSeat];

if(checker==1)

{

cout<<"That Seat is already taken; Please Choose another one"<<endl;

seatTaken=1;

}

if(checker==0)

{

cinemaTwo3[chosenSeat]=1;

cout<<"You have Succesfully reserved the Seat"<<endl;

seatTaken=0;

}

ctr=0;

}while(seatTaken==1);

do

{

if(ctr<=99)

{

cout<<"[ ";

if(cinemaTwo3[ctr]==1)

cout<<" X";

else

{

if(ctr<10)

{

cout<<" ";

}

cout<<ctr;

}

cout<<" ]";

if(ctr==19||ctr==39||ctr==59||ctr==79||ctr==99)

cout<<endl;

if(cinemaTwo3[ctr]!=1)

{

cinemaTwo3[ctr]=0;

}

ctr++;

}

}while(ctr<100);

cout<<"Please Enter Your First Name:";

cin>>name[chosenSeat+800];

cout<<"Please Enter Your Last Name:";

cin>>lname[chosenSeat+800];

cout<<"Pleae Enter Your Email Adress:";

cin>>email[chosenSeat+800];

getCreditcard();

cout<<"The total price is P"<<price[7]<<endl;

cout<<"Continue transaction? (Y/N):";

cin>>transactionConf;

if(transactionConf=='n'||transactionConf=='N')

{

cinemaTwo3[chosenSeat]=0;

break;

}

if(transactionConf=='Y'||transactionConf=='y')

{

ticketHolder[chosenSeat+800]=randNum;

cout<<"Transaction Succesful!"<<endl

<<"Your Ticket number is "<<ticketHolder[chosenSeat+800]<<endl;

}

do{

cout<<"Go Back? (Y/N):";

cin>>choice;

if(choice=='Y'||choice=='y')

{

goBack=1;

break;

}

if(choice=='N'||choice=='n')

goBack=0;

}while(goBack==1);

}while(goBack==0);

}

break;

case 10:

{

do{

goBack=0;

do{

cout<<"Cinema 1: "<<movieC2[3]<<" Seats: [ X ] Reserved [ # ] Vacant"<<endl<<endl;

ctr=0;

do

{

if(ctr<=99)

{

cout<<"[ ";

if(cinemaTwo4[ctr]==1)

cout<<" X";

else

{

if(ctr<10)

{

cout<<" ";

}

cout<<ctr;

}

cout<<" ]";

if(ctr==19||ctr==39||ctr==59||ctr==79||ctr==99)

cout<<endl;

if(cinemaTwo4[ctr]!=1)

{

cinemaTwo4[ctr]=0;

}

ctr++;

}

}while(ctr<100);

cout<<endl;

cout<<"Please Choose a Seat: ";

cin>>chosenSeat;

system ("cls");

checker=cinemaTwo4[chosenSeat];

if(checker==1)

{

cout<<"That Seat is already taken; Please Choose another one"<<endl;

seatTaken=1;

}

if(checker==0)

{

cinemaTwo4[chosenSeat]=1;

cout<<"You have Succesfully reserved the Seat"<<endl;

seatTaken=0;

}

ctr=0;

}while(seatTaken==1);

do

{

if(ctr<=99)

{

cout<<"[ ";

if(cinemaTwo4[ctr]==1)

cout<<" X";

else

{

if(ctr<10)

{

cout<<" ";

}

cout<<ctr;

}

cout<<" ]";

if(ctr==19||ctr==39||ctr==59||ctr==79||ctr==99)

cout<<endl;

if(cinemaTwo4[ctr]!=1)

{

cinemaTwo4[ctr]=0;

}

ctr++;

}

}while(ctr<100);

cout<<"Please Enter Your First Name:";

cin>>name[chosenSeat+900];

cout<<"Please Enter Your Last Name:";

cin>>lname[chosenSeat+900];

cout<<"Pleae Enter Your Email Adress:";

cin>>email[chosenSeat+900];

getCreditcard();

cout<<"The total price is P"<<price[8]<<endl;

cout<<"Continue transaction? (Y/N):";

cin>>transactionConf;

if(transactionConf=='n'||transactionConf=='N')

{

cinemaTwo4[chosenSeat]=0;

break;

}

if(transactionConf=='Y'||transactionConf=='y')

{

ticketHolder[chosenSeat+900]=randNum;

cout<<"Transaction Succesful!"<<endl

<<"Your Ticket number is "<<ticketHolder[chosenSeat+900]<<endl;

}

do{

cout<<"Go Back? (Y/N):";

cin>>choice;

if(choice=='Y'||choice=='y')

{

goBack=1;

break;

}

if(choice=='N'||choice=='n')

goBack=0;

}while(goBack==1);

}while(goBack==0);

}

break;

case 11:

{

do{

goBack=0;

do{

cout<<"Cinema 1: "<<movieC2[4]<<" Seats: [ X ] Reserved [ # ] Vacant"<<endl<<endl;

ctr=0;

do

{

if(ctr<=99)

{

cout<<"[ ";

if(cinemaTwo5[ctr]==1)

cout<<" X";

else

{

if(ctr<10)

{

cout<<" ";

}

cout<<ctr;

}

cout<<" ]";

if(ctr==19||ctr==39||ctr==59||ctr==79||ctr==99)

cout<<endl;

if(cinemaTwo5[ctr]!=1)

{

cinemaTwo5[ctr]=0;

}

ctr++;

}

}while(ctr<100);

cout<<endl;

cout<<"Please Choose a Seat: ";

cin>>chosenSeat;

system ("cls");

checker=cinemaTwo5[chosenSeat];

if(checker==1)

{

cout<<"That Seat is already taken; Please Choose another one"<<endl;

seatTaken=1;

}

if(checker==0)

{

cinemaTwo5[chosenSeat]=1;

cout<<"You have Succesfully reserved the Seat"<<endl;

seatTaken=0;

}

ctr=0;

}while(seatTaken==1);

do

{

if(ctr<=99)

{

cout<<"[ ";

if(cinemaTwo5[ctr]==1)

cout<<" X";

else

{

if(ctr<10)

{

cout<<" ";

}

cout<<ctr;

}

cout<<" ]";

if(ctr==19||ctr==39||ctr==59||ctr==79||ctr==99)

cout<<endl;

if(cinemaTwo5[ctr]!=1)

{

cinemaTwo5[ctr]=0;

}

ctr++;

}

}while(ctr<100);

cout<<"Please Enter Your First Name:";

cin>>name[chosenSeat+1000];

cout<<"Please Enter Your Last Name:";

cin>>lname[chosenSeat+1000];

cout<<"Pleae Enter Your Email Adress:";

cin>>email[chosenSeat+1000];

getCreditcard();

cout<<"The total price is P"<<price[8]<<endl;

cout<<"Continue transaction? (Y/N):";

cin>>transactionConf;

if(transactionConf=='n'||transactionConf=='N')

{

cinemaTwo5[chosenSeat]=0;

break;

}

if(transactionConf=='Y'||transactionConf=='y')

{

ticketHolder[chosenSeat+1000]=randNum;

cout<<"Transaction Succesful!"<<endl

<<"Your Ticket number is "<<ticketHolder[chosenSeat+1000]<<endl;

}

do{

cout<<"Go Back? (Y/N):";

cin>>choice;

if(choice=='Y'||choice=='y')

{

goBack=1;

break;

}

if(choice=='N'||choice=='n')

goBack=0;

}while(goBack==1);

}while(goBack==0);

}

break;

case 12:

{

do{

goBack=0;

do{

cout<<"Cinema 1: "<<movieC2[5]<<" Seats: [ X ] Reserved [ # ] Vacant"<<endl<<endl;

ctr=0;

do

{

if(ctr<=99)

{

cout<<"[ ";

if(cinemaTwo6[ctr]==1)

cout<<" X";

else

{

if(ctr<10)

{

cout<<" ";

}

cout<<ctr;

}

cout<<" ]";

if(ctr==19||ctr==39||ctr==59||ctr==79||ctr==99)

cout<<endl;

if(cinemaTwo6[ctr]!=1)

{

cinemaTwo6[ctr]=0;

}

ctr++;

}

}while(ctr<100);

cout<<endl;

cout<<"Please Choose a Seat: ";

cin>>chosenSeat;

system ("cls");

checker=cinemaTwo6[chosenSeat];

if(checker==1)

{

cout<<"That Seat is already taken; Please Choose another one"<<endl;

seatTaken=1;

}

if(checker==0)

{

cinemaTwo6[chosenSeat]=1;

cout<<"You have Succesfully reserved the Seat"<<endl;

seatTaken=0;

}

ctr=0;

}while(seatTaken==1);

do

{

if(ctr<=99)

{

cout<<"[ ";

if(cinemaTwo6[ctr]==1)

cout<<" X";

else

{

if(ctr<10)

{

cout<<" ";

}

cout<<ctr;

}

cout<<" ]";

if(ctr==19||ctr==39||ctr==59||ctr==79||ctr==99)

cout<<endl;

if(cinemaTwo6[ctr]!=1)

{

cinemaTwo6[ctr]=0;

}

ctr++;

}

}while(ctr<100);

cout<<"Please Enter Your First Name:";

cin>>name[chosenSeat+1100];

cout<<"Please Enter Your Last Name:";

cin>>lname[chosenSeat+1100];

cout<<"Pleae Enter Your Email Adress:";

cin>>email[chosenSeat+1100];

getCreditcard();

cout<<"The total price is P"<<price[8]<<endl;

cout<<"Continue transaction? (Y/N):";

cin>>transactionConf;

if(transactionConf=='n'||transactionConf=='N')

{

cinemaTwo6[chosenSeat]=0;

break;

}

if(transactionConf=='Y'||transactionConf=='y')

{

ticketHolder[chosenSeat+1100]=randNum;

cout<<"Transaction Succesful!"<<endl

<<"Your Ticket number is "<<ticketHolder[chosenSeat+1100]<<endl;

}

do{

cout<<"Go Back? (Y/N):";

cin>>choice;

if(choice=='Y'||choice=='y')

{

goBack=1;

break;

}

if(choice=='N'||choice=='n')

goBack=0;

}while(goBack==1);

}while(goBack==0);

}

break;

case 13:

{

goBack=0;

return goBack;

}

break;

}

return choice;

}

//-----------------------------------//

char checkTicket() **//Allows the user to check the movie and seat of buyer using the ticket number.**

{

//local declataion

char checker2;

int getTicket;

//executable

system ("cls");

do{

ctr=0;

cout<<endl<<"Enter Ticket Number:";

cin>>getTicket;

do{ **//Loops 1200 times to check all values inside the ticketHolder[1200] and if the value inside is the same as the value or ticket number inputted.**

if(getTicket==ticketHolder[ctr])

{

cout<<"Name:"<<name[ctr]<<" "<<lname[ctr]<<endl

<<"Movie:"<<movieC1[0]<<endl

<<"Time Start: "<<movieTime[0]<<endl;

}

ctr++;

}while(ctr<1200);

cout<<"Try Again? (Y/N): "; **//Asks the user to try again, Option if the user input a non-existing ticket number or inputted the wrong ticket number. Simply allows the user to try again**.

cin>>checker2;

if(checker2=='Y'||checker2=='y')

goBack=0;

else

goBack=1;

}while(goBack==0);

return 0;

}