theater.c File Reference

File containing program for a theater seating chart. More...

```
#include <stdio.h>
```

Functions

int **initializeTheater** ()
Creates a 2D array to represent the theater. More...

int **priceInput** ()
Takes in the price for each row and stores them in an array. More...

int **displayTheater** ()
Prints out the current theaters display. More...

int **purchaseTickets** ()
Lets the user select a seat to buy or a group of seats in a row. More...

int **seatsOpenPerRow** ()
Displays the number of seats available per row. More...

int **seatsAvailbleAuditorium** ()
Displays total seats available. More...

int **displayTotalSales** ()
Displays total sales. More...

int **validSeat** (int r, int c)

int **mainMenu** ()
The main program that calls other methods. More...

int **totalSeatsSold** ()
Displays total number of seats sold. More...

int **main** ()
The main program to execute the program. More...

Variables

double **seatPrices** [15]

char **theater** [15][30]

double **ticketSalesTotal** = 0

int **soldSeats** = 0

int **row**

int **column**

int **columnTwo**

int **loop** = 1

int **wasValid** = 0

Detailed Description

File containing program for a theater seating chart.

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Date

12 April 2019

Function Documentation

◆ displayTheater()

int displayTheater ( )

Prints out the current theaters display.

Returns

default 0

◆ displayTotalSales()

int displayTotalSales ( )

Displays total sales.

Returns

default 0

◆ initializeTheater()

int initializeTheater ( )

Creates a 2D array to represent the theater.

Returns

default 0

◆ main()

int main ( )

The main program to execute the program.

Returns

Terminates Program

◆ mainMenu()

int mainMenu ( )

The main program that calls other methods.

Returns

Terminated program

◆ priceInput()

int priceInput ( )

Takes in the price for each row and stores them in an array.

Returns

default 0

◆ purchaseTickets()

int purchaseTickets ( )

Lets the user select a seat to buy or a group of seats in a row.

Returns

default value

◆ seatsAvailbleAuditorium()

int seatsAvailbleAuditorium ( )

Displays total seats available.

Returns

default 0

◆ seatsOpenPerRow()

int seatsOpenPerRow ( )

Displays the number of seats available per row.

Returns

default 0

◆ totalSeatsSold()

int totalSeatsSold ( )

Displays total number of seats sold.

Returns

default 0

◆ validSeat()

```
int validSeat ( int  r,
                int  c
              )
```

returns 0 if it isn't a valid seat returns 1 if it is a valid seat

Parameters

r Row of the seat

c Col of the seat

Returns

1 if valid seat, 0 if not

Variable Documentation

◆ column

```
int column
```

Holds value for col

◆ columnTwo

```
int columnTwo
```

Holds a 2nd col val

◆ loop

```
int loop = 1
```

Variable for main loop

◆ row

int row

Holds value for row

◆ seatPrices

double seatPrices[15]

An array to hold the seat prices per row

◆ soldSeats

int soldSeats = 0

Number of seats sold

◆ theater

char theater[15][30]

An array to represent the theater

◆ ticketSalesTotal

double ticketSalesTotal = 0

Total sales from all tickets

◆ wasValid

int wasValid = 0

Used to return valid seat