

# Fundamentals of Computer Programming

## CSE 114

### Assignment 6

Write a C program that allows users to get a ticket for CineCSE theatres.

- 1) You have three 5x5 blocks.
- 2) You will print the current seats of the theatre.
- 3) You need to ask users for a block choice.
- 4) Then you need to ask for number of tickets **!User will not enter numbers greater than 5. Do not forget to check this exception.**
- 5) You will find seats for the user based on the following priorities in order:
  - 1) Togetherness. (Users will always want to sit with their friends.)
  - 2) Back seats. (Being far away from screen in rows is more important.)
  - 3) Closeness to screen. (If the block 2 is chosen, the middle of the block is more important. On the other hand, if the blocks 1 or 3 is chosen, seats that are close to block 2 is more important.)
  - 4) If the number of empty seats and the asked number of tickets is the same you can ignore all the above priorities to fill the theatre.
- 6) Print the ticket info for the user.
- 7) The program should continue to get ticket requests until exit command is given by the user.

**WARNING:** You must use **arrays** for this assignment. If you do not use arrays in your algorithm, you will not get a grade. As always **clean code** is mandatory. If you do not have clean and readable code, your grade will drop.

## Example:

Welcome to the CineCSE:

```
-----
      1          2          3
B B B B B  B B B B B  B B B B B
B B B B B  B B B B B  B B B B B
B B B B B  B B B B B  B B B B B
B B B B B  B B B B B  B B B B B
B B B B B  B B B B B  B B B B B
```

Screen

Choose Your Block (Enter -1 for Exit): 2

How Many Tickets Do You Want: 3

```
-----
Your Ticket: Block: 2 Row: 5 Seat: 2,3,4
```

Welcome to the CineCSE:

```
-----
      1          2          3
B B B B B  B X X X B  B B B B B
B B B B B  B B B B B  B B B B B
B B B B B  B B B B B  B B B B B
B B B B B  B B B B B  B B B B B
B B B B B  B B B B B  B B B B B
```

Screen

```
-----
Choose Your Block (Enter -1 for Exit): 3
```

How Many Tickets Do You Want: 3

```
-----
Your Ticket: Block: 2 Row: 5 Seat: 1,2
```

Welcome to the CineCSE:

```
-----
      1          2          3
B B B B B  B X X X B  X X B B B
B B B B B  B B B B B  B B B B B
B B B B B  B B B B B  B B B B B
B B B B B  B B B B B  B B B B B
B B B B B  B B B B B  B B B B B
```

Screen

```
-----
Choose Your Block (Enter -1 for Exit): -1
```

```
-----
Thank you for preferring CineCSE.
```