

Work on project. Stage 3/5: Tickets

Project: [Cinema Room Manager](#)

Medium 51 minutes ?

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Description

When choosing a ticket you are guided not only by your space preference but also by your finances. Let's implement the opportunity to check the ticket price and see the reserved seat.

Objectives

Read two positive integer numbers that represent the number of rows and seats in each row and print the seating arrangement like in the first stage. Then, read two integer numbers from the input: a row number and a seat number in that row. These numbers represent the coordinates of the seat according to which the program should print the ticket price. The ticket price is determined by the same rules as the previous stage:

- If the total number of seats in the screen room is not more than 60, then the price of each ticket is 10 dollars.
- In a larger room, the tickets are 10 dollars for the front half of the rows and 8 dollars for the back half. Please note that the number of rows can be odd, for example, 9 rows. In this case, the first half is the first 4 rows, and the second half is the last 5 rows.

After that, the program should print out all the seats in the screen room as shown in the example and mark the chosen seat by the **B** symbol. Finally, it should print the ticket price and stop. Note that in this project, the number of rows and seats won't be greater than 9.

Examples

The greater-than symbol followed by a space (>) represents the user input. Note that it's not part of the input.

Example 1

```
Enter the number of rows:
> 7
Enter the number of seats in each row:
> 8

Cinema:
 1 2 3 4 5 6 7 8
1 S S S S S S S S
2 S S S S S S S S
3 S S S S S S S S
4 S S S S S S S S
5 S S S S S S S S
6 S S S S S S S S
7 S S S S S S S S

Enter a row number:
> 3
Enter a seat number in that row:
> 6

Ticket price: $10

Cinema:
 1 2 3 4 5 6 7 8
1 S S S S S S S S
2 S S S S S S S S
3 S S S S S B S S
4 S S S S S S S S
5 S S S S S S S S
6 S S S S S S S S
7 S S S S S S S S
```

Example 2

14 / 14 Prerequisites

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- ✓ [Characters](#) In project 14 ✓

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Enter the number of rows:
> 8
Enter the number of seats in each row:
> 9

Cinema:

```
 1 2 3 4 5 6 7 8 9
1 S S S S S S S S
2 S S S S S S S S
3 S S S S S S S S
4 S S S S S S S S
5 S S S S S S S S
6 S S S S S S S S
7 S S S S S S S S
8 S S S S S S S S
```

Enter a row number:


> 6
Enter a seat number in that row:
> 5

Ticket price: \$8

Cinema:

```
 1 2 3 4 5 6 7 8 9
1 S S S S S S S S
2 S S S S S S S S
3 S S S S S S S S
4 S S S S S S S S
5 S S S S S S S S
6 S S S S B S S S
7 S S S S S S S S
8 S S S S S S S S
```

 Report a typo

 See hint

 Write a program

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Java

```
1 package cinema;
2 import java.util.*;
3 public class Cinema {
4
5     public static void main(String[] args) {
6         Scanner sc = new Scanner(System.in);
7         System.out.println("Enter the number of rows:");
8         int row = sc.nextInt();
9         System.out.println("Enter the number of seats in each row:");
10        int col = sc.nextInt();
11        char[][] array = new char[row][col];
12        initialize(array);
13        printArray(array);
14
15        System.out.println("\nEnter a row number:");
16        int crow = sc.nextInt();
17        System.out.println("Enter a seat number in that row:");
18        int ccol = sc.nextInt();
19
20        getInput(array, crow, ccol);
21        System.out.print("\nTicket price: ");
22        if(row * col <= 60){
23            System.out.println("$"+ 10);
24        }
25        else{
26            if((row/2) >= crow)
27                System.out.println("$"+10);
28            else
29                System.out.println("$"+8);
30        }
31        printArray(array);
32    }
33 }
34
35 public static void initialize(char[][] array){
36     for(int i = 0; i < array.length; i++){
```

```

37         for(int j =0; j < array[i].length; j++){
38             array[i][j] = 'S';
39         }
40     }
41 }
42
43 public static void getInput(char[][] array, int row, int col){
44     array[row - 1][col - 1] = 'B';
45 }
46
47 public static void printArray(char[][] array){
48     System.out.println("\nCinema:");
49     System.out.print(" ");
50     for(int i = 0; i < array[0].length; i++){
51         System.out.print((i+1) + " ");
52     }
53     System.out.println();
54     for(int i = 0; i < array.length; i++){
55         System.out.print((i+1)+" ");
56         for(int j =0; j < array[i].length; j++){
57             System.out.print(array[i][j] + " ");
58         }
59         System.out.println();
60     }
61 }
62
63 }

```

✓ Correct.

Amazing, you've got it!

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