

**Pf assignment**  
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**sp24-bse-002**  
**October 6, 2024**

**Cinema seat booking code**

```
import java.util.Scanner;

public class CinemaBooking{

    public static void main(String[] args) {

        Scanner scanner = new Scanner(System.in);

        int rows = 5;

        int seatsPerRow = 6;

        int[][] cinemaHall = new int[rows][seatsPerRow];

        while (true) {

            System.out.println("\nCurrent Seating Arrangement:");

            displaySeats(cinemaHall);

            System.out.print("\nEnter row number (1 to " + rows + ", or 0 to exit): ");

            int row = scanner.nextInt();

            if (row == 0) {

                System.out.println("Exiting the booking system.");

                break;

            }

            System.out.print("Enter seat number (1 to " + seatsPerRow + "): ");

            int seat = scanner.nextInt();

            if (cinemaHall[row - 1][seat - 1] == 0) {

                cinemaHall[row - 1][seat - 1] = 1;

                System.out.println("Seat successfully booked!");

            } else {

                System.out.println("Sorry, that seat is already booked.");

            }

        }

        scanner.close();

    }

}
```

```
}  
  
public static void displaySeats(int[][] cinemaHall) {  
    for (int i = 0; i < cinemaHall.length; i++) {  
        for (int j = 0; j < cinemaHall[i].length; j++) {  
            if (cinemaHall[i][j] == 0) {  
                System.out.print("A ");  
            } else {  
                System.out.print("B ");  
            }  
        }  
        System.out.println();  
    }  
}
```