

SE 1105 PROGRAMMING AND PROBLEM SOLVING I

Task: Theater Seating Manager

Write a C program to manage a theater seating chart using an enum to track seat availability. The program should:

Instructions:

1. Define an enum named `SeatStatus` with two possible values: `AVAILABLE`, `BOOKED`.
2. Create a 2D 5x5 `SeatStatus` array to represent the seating chart for a theater, where each seat can either be `AVAILABLE` or `BOOKED`. Initialize all seats as `AVAILABLE` at the start.
3. Implement a menu system that allows users to choose from the following options:
 - **Display the seating:** Show a visual representation of available and booked seats (0 for available and 1 for booked).
 - **Book a seat:** Allow the user to input a specific row and column to book a seat. If the seat is already booked, display an appropriate error message.
 - **Cancel a booking:** Allow the user to input a specific row and column to cancel a booking. If the seat is not booked, display an error message.
 - **Check availability:** Count and display the number of available seats in the theater.
 - **Exit:** Displays a farewell message and exits the program.
4. Use a for loop to repeatedly display the menu and process the user's choice until the user selects "Exit."

Note: Use `#define` for constants and `typedef` to simplify data types wherever possible.

