import java.util.Scanner;

public class CinemaTicketBooking {

private static final int ROWS = 5;

private static final int SEATS\_PER\_ROW = 6;

private static boolean[][] seats = new boolean[ROWS][SEATS\_PER\_ROW];

public static void main(String[] args) {

Scanner scanner = new Scanner(System.in);

int choice;

do {

System.out.println("\nCinema Ticket Booking System");

System.out.println("1. Show Seats");

System.out.println("2. Book Ticket");

System.out.println("3. Exit");

System.out.print("Enter your choice: ");

choice = scanner.nextInt();

switch (choice) {

case 1:

showSeats();

break;

case 2:

bookTicket(scanner);

break;

case 3:

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

break;

default:

System.out.println("Invalid choice. Please try again.");

}

} while (choice != 3);

scanner.close();

}

private static void showSeats() {

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

for (int row = 0; row < ROWS; row++) {

for (int seat = 0; seat < SEATS\_PER\_ROW; seat++) {

if (seats[row][seat]) {

System.out.print("X ");

} else {

System.out.print("O ");

}

}

System.out.println();

}

}

private static void bookTicket(Scanner scanner) {

System.out.print("Enter row number (1-" + ROWS + "): ");

int row = scanner.nextInt() - 1;

System.out.print("Enter seat number (1-" + SEATS\_PER\_ROW + "): ");

int seat = scanner.nextInt() - 1;

if (row < 0 || row >= ROWS || seat < 0 || seat >= SEATS\_PER\_ROW) {

System.out.println("Invalid seat number. Please try again.");

return;

}

if (seats[row][seat]) {

System.out.println("Seat already booked. Please choose another seat.");

} else {

seats[row][seat] = true;

System.out.println("Booking confirmed for seat " + (row + 1) + "-" + (seat + 1) + ".");

}

}

}