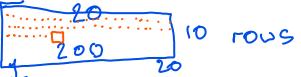
THEATRE SEATS - October 2023 Paper 21



Drama students put on a performance of a play for one evening. Seats in a small theatre can be booked for this performance.

The theatre has 10 rows of 20 seats. The status of the seat bookings for the evening is held in the two-dimensional (2D) Boolean array Evening[] Evening Frow

► Each element contains FALSE if the seat is available and TRUE if the seat is booked.

1 TO 4 BOOLEAN

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1 To 4 BOOLEAN

1 To 4 BOOLEAN

2 To 5 BOOLEAN

The array Evening[] has already been set up and some data stored.

Write a program that meets the following requirements:

- counts and outputs the number of seats already booked for the evening
- allows the user to input the number of seats required
- validates the input
- checks if enough seats are available:
 - if they are available
 - changes the status of the seats
 - outputs the row number and seat number for each seat booked
 - if they are **not** available:
 - outputs a message giving the number of seats left or 'House full' if the theatre is fully

You must use pseudocode or program code and add comments to explain how your code works. You do not need to declare any arrays or variables; you may assume that this has already been

You do not need to initialise the data in the array Evening[]

INPUT Tidect !! // Ark user how many fickeds to buy

OUTPUT "Booking is for", Ticket, "tickets"