Airplane seating algorithm

Write a program that helps seat audiences in a flight based on the following input and rules.

Rules for seating

- Always seat passengers starting from the front row to back, starting from the left to the right
- Fill aisle seats first followed by window seats followed by center seats (any order in center seats)

Input to the program will be

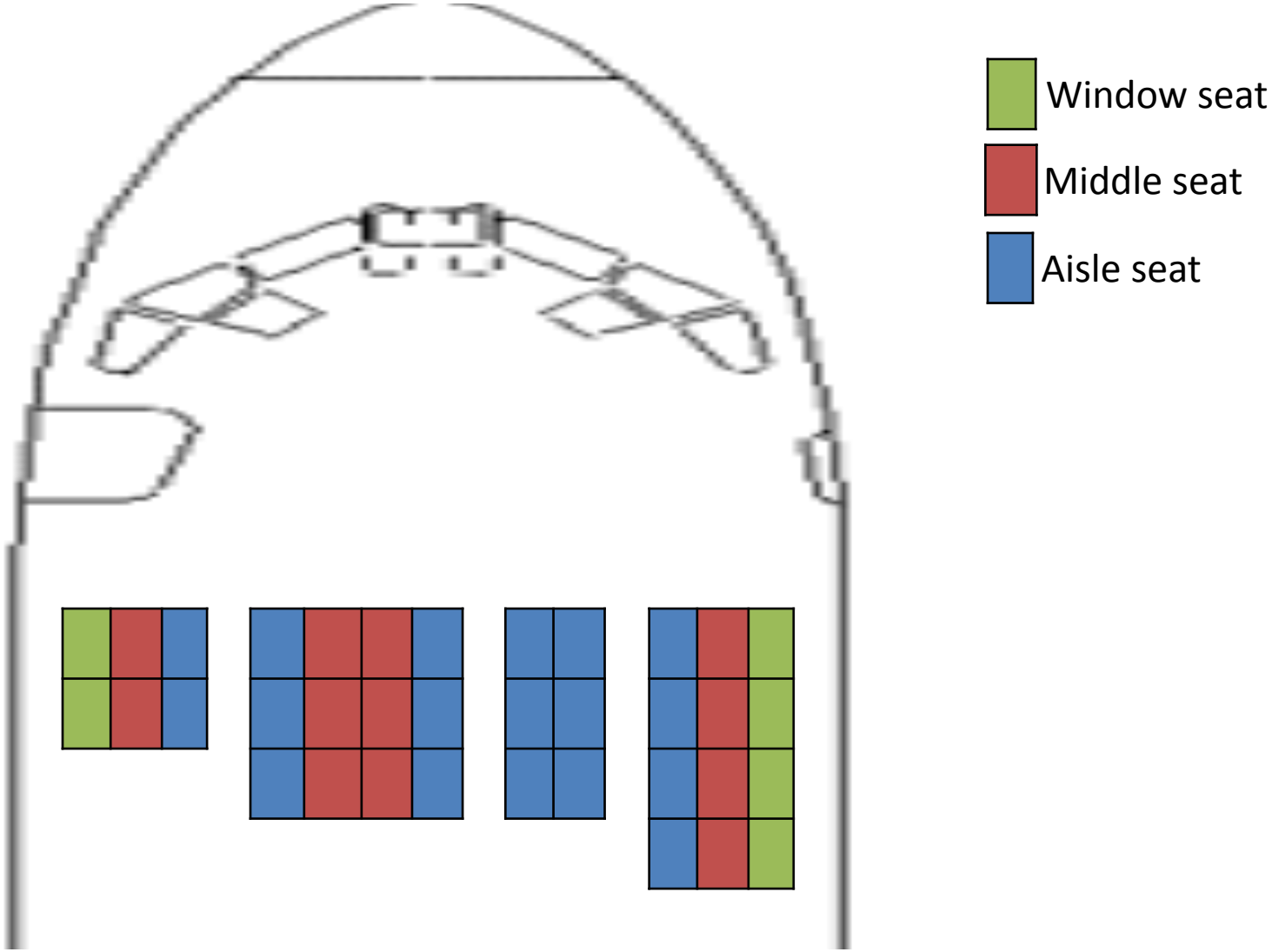
This 2D array is just an example. Your input will be dynamic and entered by the user.

- a 2D array that represents the rows and columns [[3,4], [4,5], [2,3], [3,4]]
- Number of passengers waiting in queue.

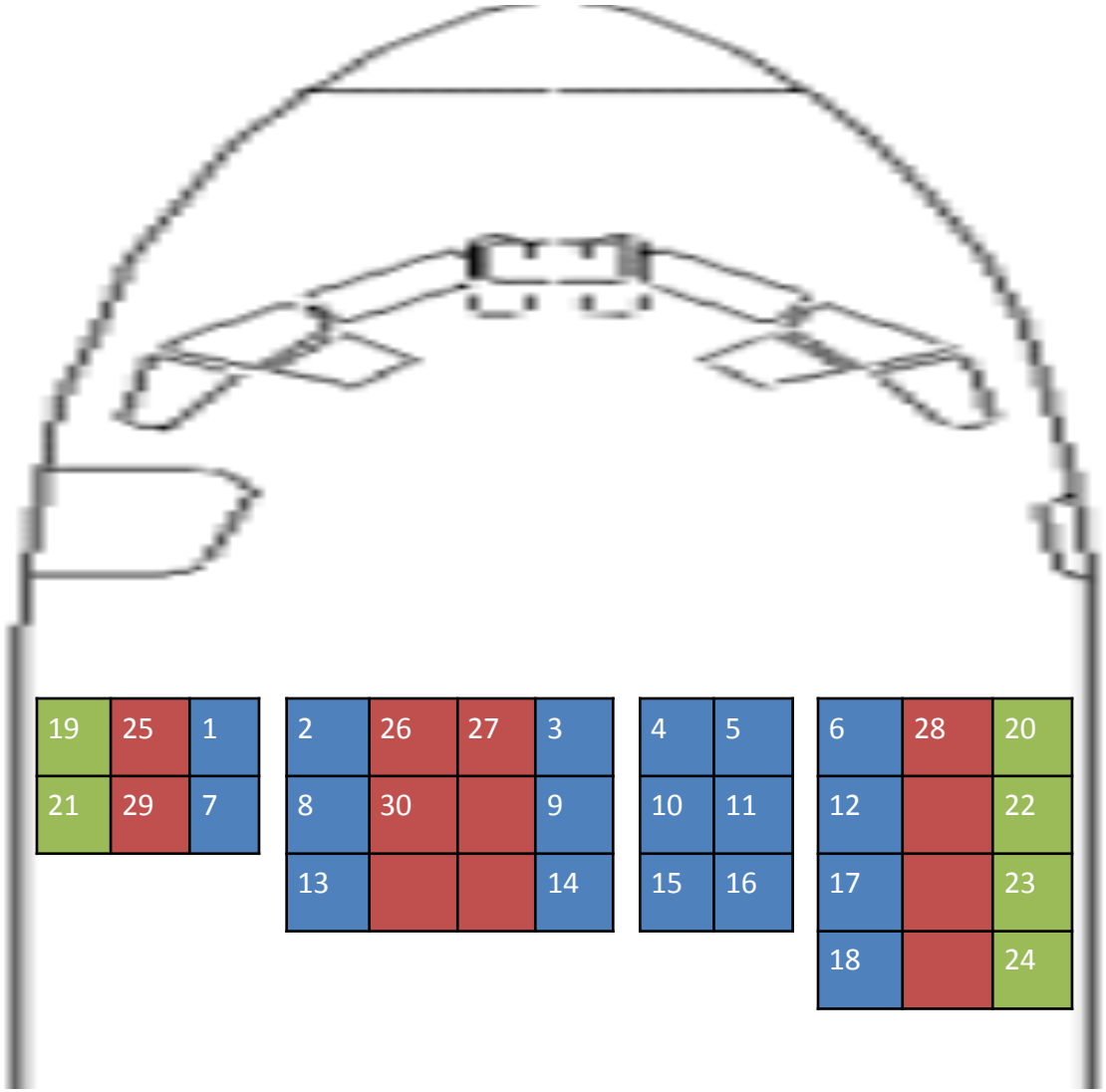
See next page for input, seating arrangement and output.

A 2D array that represents the rows and columns

[[3,2], [4,3], [2,3], [3,4]]



If there were 30 passengers from then the seating output will be …



Window seat

Middle seat

Aisle seat

4 Outcomes expected in solving this problem

1. The Logic / Data structure / Algorithm used to successfully complete the programming challenge

2. The elegance of the code, modularity and readability

3. A VISUAL output that is printed (on the screen, in a console, exported to a file etc) in way that is easy to read, identity the aisle, middle and window rows and hasclear seating plan and passenger number

4. Testability, TDD and test cases