
Week 5!

COMP1511 24T2



Assignment 01

Questions?

Recording

Next Week

Overview

2D Arrays

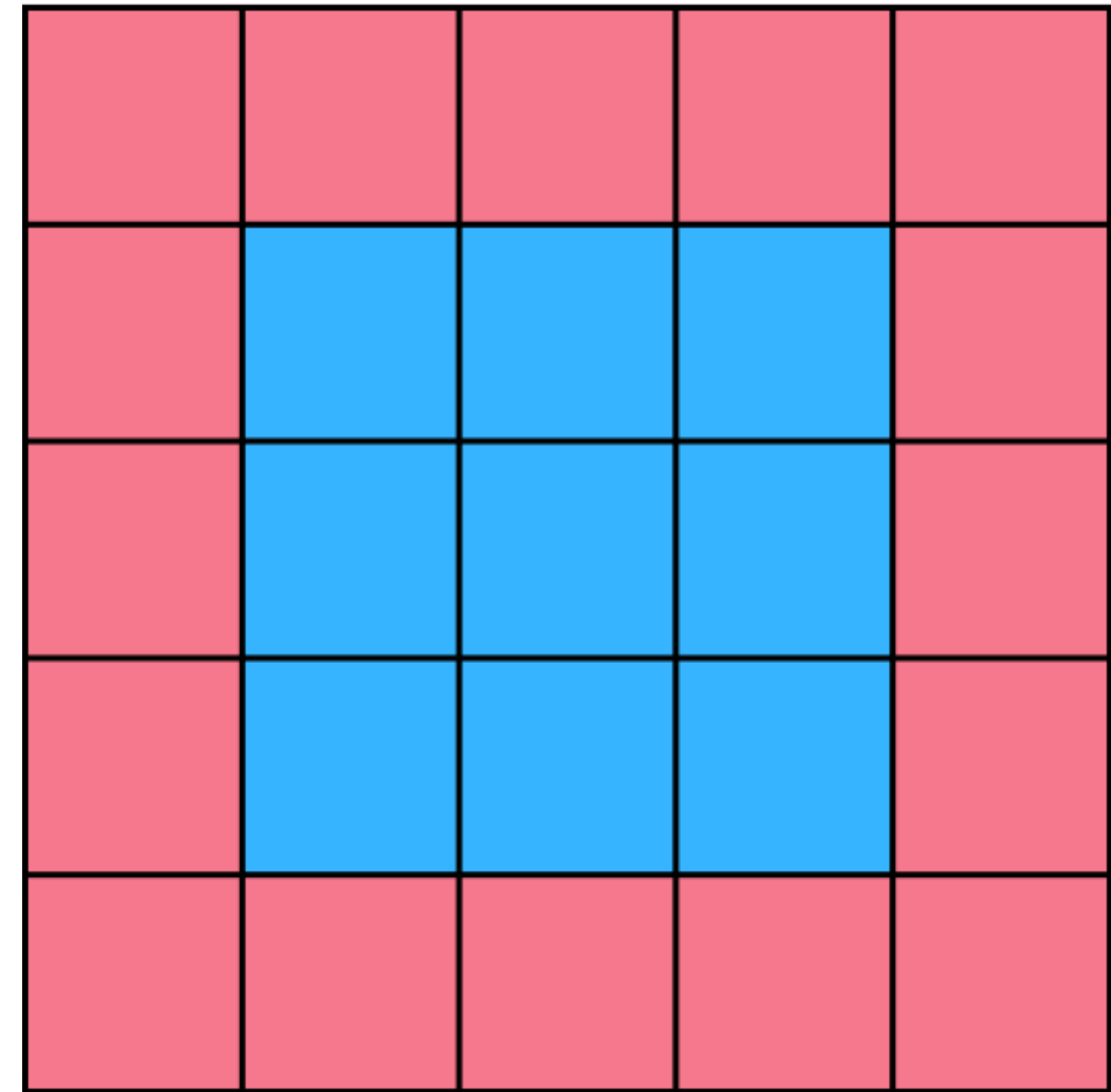
Arrays and Functions

Strings

2D Arrays Practice

1. Firstly, the program should prompt for celestial bodies with Enter planets and nebulae: and take input for planets and nebula until q is pressed.
 - Planets are added with p [row] [col] [points]
 - Nebulae are added with n [row] [col]

You may assume you will always be given valid input.



2D Arrays Practice

2. After populating the map with various celestial bodies your program will need to scan in the player's starting position.

This will be given as a pair of integers which denotes the row and column (in that order). If the starting position is already occupied by a celestial body, the program should print out Invalid starting position!.

Then the program should prompt with Re-enter starting position: and re-scan the position of the player, repeating until a valid position is scanned in.

3. After spawning the player, the program should prompt for stars with Enter the position and points of the star(s): and take input in the form [row] [col] [points] until ctrl + D is pressed. Again, you may assume that the provided input is always valid.

4. Finally, after spawning all celestial bodies, the program should print the galaxy with the print_galaxy function provided.

Arrays and Functions

```
// Initialize the galaxy  
initalise_galxy(galaxy);
```

```
// Place the player in the galaxy  
place_player(galaxy);
```

```
// Place the planets and nebulae in the galaxy  
place_planets_and_nebula(galaxy);
```

```
// Place the stars in the galaxy  
place_stars(galaxy);
```

```
// Print the galaxy  
print_map(galaxy);
```

```
// Print the sum of the points in the galaxy  
print_galaxy_sum(galaxy);
```

Strings

‘h’ ‘e’ ‘l’ ‘l’ ‘o’ “ ‘w’ ‘o’ ‘r’ ‘l’ ‘d’ ‘!’ ‘/0’