
Week 5!

COMP1511 24T1



Assignment 01

Questions?

Recording

Next Week

Overview

2D Arrays

Arrays and Functions

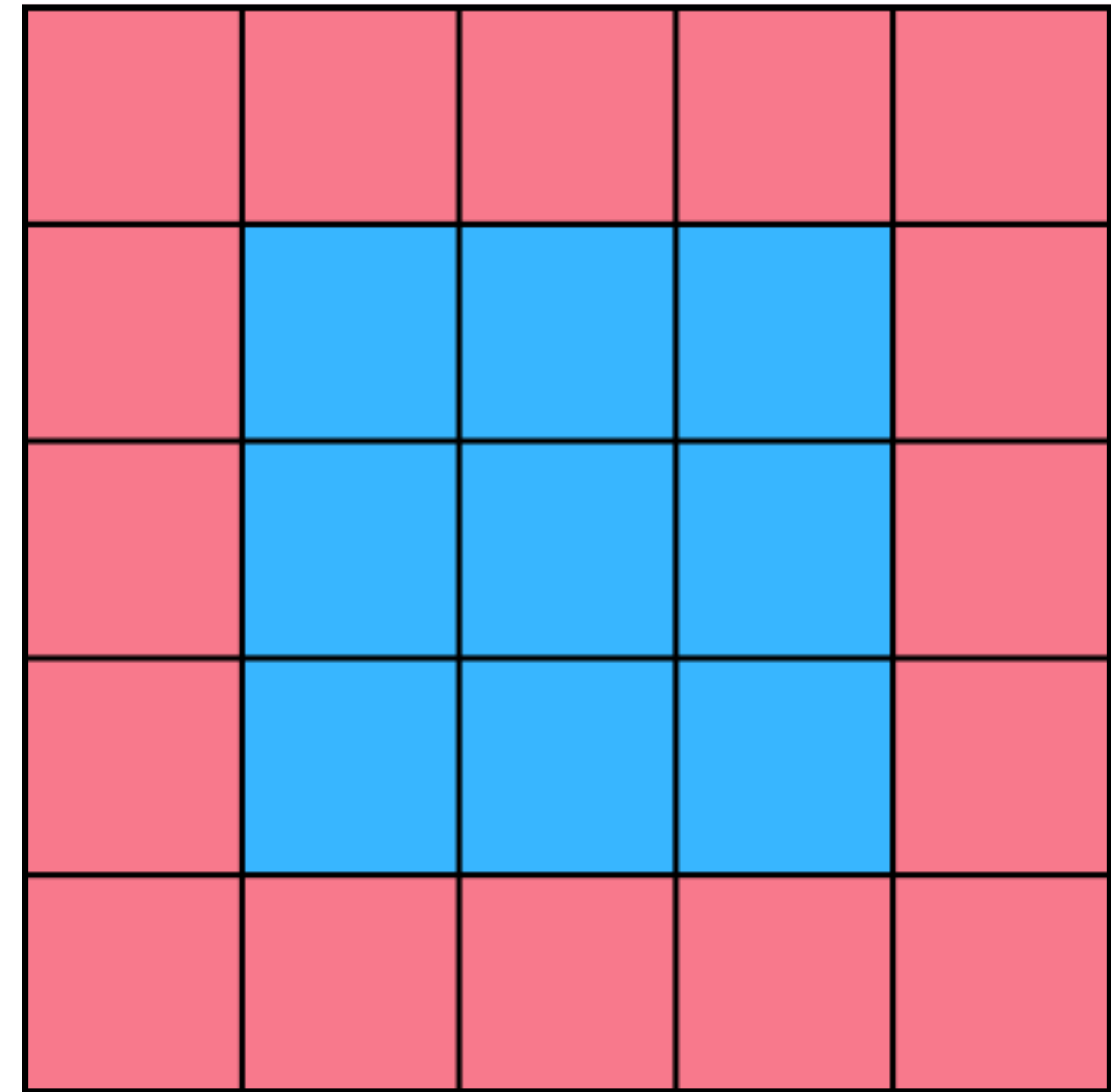
Strings

2D Arrays Practice

1. Scan in the player's starting position in the form of a pair of integers (row, col)

If the starting position does not place the player within the boundary, the program should print out **Invalid starting position!**

It should then prompt to re-enter with **Re-enter starting position:**



2D Arrays Practice

2. After spawning the player, the program should prompt for how many celestial bodies will be added to the galaxy with **How many planets and nebulae are there?** **[count]** and take input for **count** number of planets and nebula.

- Planets are added with **p [row] [col] [points]**
- Neulae are added with **n [row] [col]**

3. After spawning planets and nebulae 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.

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'