

# Task 04 - 2D Arrays, Nested for loops and Functions

## Matrix Operations

1. Write a function that takes two matrices and prints out the sum.
2. Write a function that takes two matrices and prints out the difference.
3. Write a function that multiplies two matrices (Bonus)

**NOTE:** Create a separate file that contains the matrix operations functions with a header file, and then include the header in the main file.





Mode	LastWriteTime	Length	Name
-a—	2/6/2025 3:17 PM	0	main.c
-a—	2/6/2025 3:17 PM	0	matrix_ops.c
-a—	2/6/2025 3:17 PM	0	matrix_ops.h

## Patterns

1. Print a right half pyramid with a given number of rows.  
→ Create a function that takes the number of rows and prints out the pattern.

Enter number of rows: 5

```
*
* *
* * *
* * * *
* * * * *
```

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2. Print a pyramid pattern of stars with a given number of rows, Example:  
→ Create a function that takes the number of rows and prints out the pattern.

```
Enter number of rows: 5
```

```
  *
 ***
*****
*****
*****
```

3. Print an inverted pyramid pattern of stars with a given number of rows.  
→ Create a function that takes the number of rows and prints out the pattern.

```
Enter number of rows: 5
```

```
*****
*****
 *****
  *****
   *****
    *****
     *****
```

# Submission

**DEADLINE:** THURSDAY (13/2/2025).

**SUBMISSION:** upload the folder with the tasks to google drive and attach screen shots of the output.

**LINK:**

[https://docs.google.com/forms/d/e/1FAIpQLSfRoAgKwt8uH2qOoLoH7rJ\\_xEUltm02fAsMmDjyEvvnNCxQQw/viewform?usp=header](https://docs.google.com/forms/d/e/1FAIpQLSfRoAgKwt8uH2qOoLoH7rJ_xEUltm02fAsMmDjyEvvnNCxQQw/viewform?usp=header)