

# DCP1203 HW5

10/17

# Caution!

- HW5 deadline: **10/22 23:59**
- Watch your format

# HW5 Problems

# 1

- Given two matrices:

```
matrix1 = {{1, 2, 4}, {1, 5, 3}, {4, 2, 3}}
```

```
matrix2 = {{2, 5, 2}, {4, 2, 3}, {6, 2, 1}}
```

1	2	4
1	5	3
4	2	3

- Using 2d-array to calculate **two 3x3 matrices addition** and print out the result.

3	7	6
5	7	6
10	4	4

## 2

- Write a program that reads a **5x5** array of integers and then prints the **row sums and the column sums**. Each number in the same row are separated **by 1 space**

2

Enter row 1: 8 3 9 0 10

Enter row 2: 3 5 17 1 1

Enter row 3: 2 8 6 23 1

Enter row 4: 15 7 3 2 9

Enter row 5: 6 14 2 6 0

Row totals: 30 27 40 36 28

Column totals: 34 37 37 32 21

### 3

- Write a program that counts how many times a digit(0~9) appeared in the integer X,  $0 \leq X < 2147483647$ .

```
Input a integer X ( 0 <= X < 2147483647 ): 1234567
0 : 0
1 : 1
2 : 1
3 : 1
4 : 1
5 : 1
6 : 1
7 : 1
8 : 0
9 : 0
```