

1st Midterm Exam

2024.04.16 (Tuesday) 8:10 – 9:00

- Please write a program with nested while loops (e.g., while in while in while) to generate and print a 9×9 multiplication table in a particular order, **as exactly shown in the below figure**. Note that if you totally use `print()` (i.e., without using while loops) to generate the multiplication table, you will get only 1%. (100%)

9 x 9 = 81	9 x 8 = 72	9 x 7 = 63
8 x 9 = 72	8 x 8 = 64	8 x 7 = 56
7 x 9 = 63	7 x 8 = 56	7 x 7 = 49
6 x 9 = 54	6 x 8 = 48	6 x 7 = 42
5 x 9 = 45	5 x 8 = 40	5 x 7 = 35
4 x 9 = 36	4 x 8 = 32	4 x 7 = 28
3 x 9 = 27	3 x 8 = 24	3 x 7 = 21
2 x 9 = 18	2 x 8 = 16	2 x 7 = 14
1 x 9 = 9	1 x 8 = 8	1 x 7 = 7
9 x 6 = 54	9 x 5 = 45	9 x 4 = 36
8 x 6 = 48	8 x 5 = 40	8 x 4 = 32
7 x 6 = 42	7 x 5 = 35	7 x 4 = 28
6 x 6 = 36	6 x 5 = 30	6 x 4 = 24
5 x 6 = 30	5 x 5 = 25	5 x 4 = 20
4 x 6 = 24	4 x 5 = 20	4 x 4 = 16
3 x 6 = 18	3 x 5 = 15	3 x 4 = 12
2 x 6 = 12	2 x 5 = 10	2 x 4 = 8
1 x 6 = 6	1 x 5 = 5	1 x 4 = 4
9 x 3 = 27	9 x 2 = 18	9 x 1 = 9
8 x 3 = 24	8 x 2 = 16	8 x 1 = 8
7 x 3 = 21	7 x 2 = 14	7 x 1 = 7
6 x 3 = 18	6 x 2 = 12	6 x 1 = 6
5 x 3 = 15	5 x 2 = 10	5 x 1 = 5
4 x 3 = 12	4 x 2 = 8	4 x 1 = 4
3 x 3 = 9	3 x 2 = 6	3 x 1 = 3
2 x 3 = 6	2 x 2 = 4	2 x 1 = 2
1 x 3 = 3	1 x 2 = 2	1 x 1 = 1

Upload your file to Moodle:

Filename: **studentID_midterm1.py** (e.g. A1234567_midterm1.py)

Note: You need to write comments(註解) for each part in your code.