C Programming & Lab

2. How to write a program
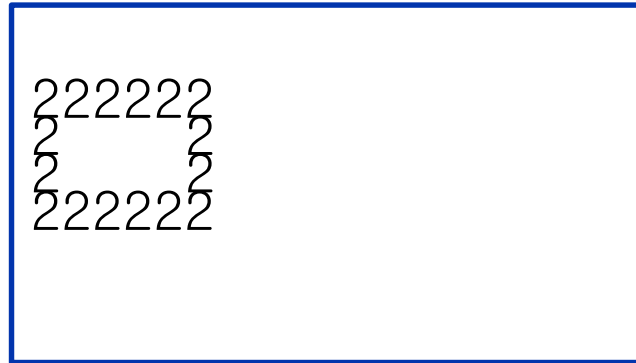
Practical Exercise

Sejong University

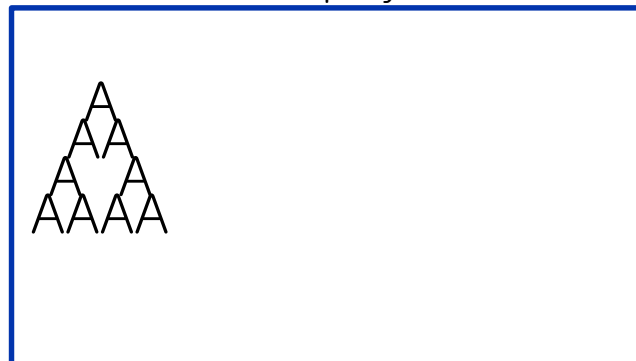# [2-2] Figure

1. Print out a rectangle using number '2'.

Display

```
222222
2    2
2    2
222222
```

2. Print out a triangle using a character 'A'. (Similar shape will be accepted)

Display

```
   A
  A A
 A A A
A A A A
```

[2-3]Birthdate-1

- Read user's birthdate (month and date) and print It out as follows.

Display

```
Birthdate
Enter Month: 3
Enter Date: 5
Birthdate is 03-05 (mm-dd).
```

[2-3]Birthdate-2

- Read user's birth month and date at the same time and print It out as follows.

  - Hint) use scanf() once.

Display

Birthdate
Enter Month and Date : 3 5
Birthdate is 03-05 (mm-dd).

[2-3] Figure

- Use scanf() to read a number from 2 to 9 and print out a rectangle using the number.
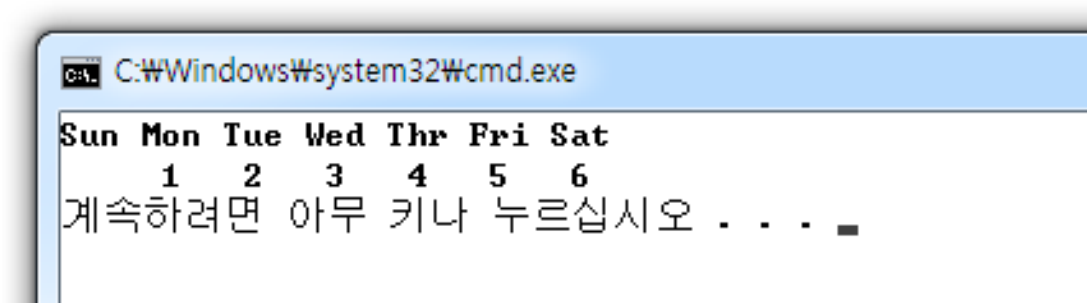
Display

```
Enter Integer: 5

555555
5      5
5      5
555555
```

[2-3] Calendar

- Print out days and dates in this week.


```
C:\Windows\system32\cmd.exe

Sun Mon Tue Wed Thr Fri Sat
      1   2   3   4   5   6
계속하려면 아무 키나 누르십시오 . . . _
```

- (Advanced) Print out days and dates in this month.
  Hint: Use 2 variables.

[2-3] Multiplication Table

- Read an integer from a user and print out the multiplication table as follows.

Display

Enter Integer: 3
3*1=3
3*2=6
3*3=9
3*4=12
3*5=15
3*6=18
3*7=21
3*8=24
3*9=27

[2-3] Factorial

- Print out factorials up to 5.

Display

```
1!=1
2!=2
3!=6
4!=24
5!=120
```
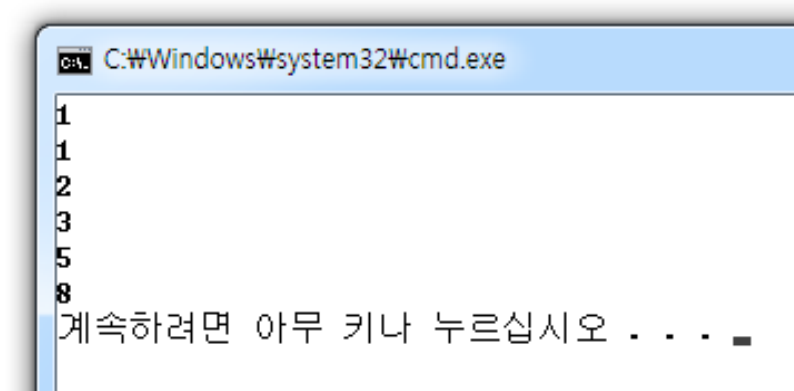
[2-3] Fibonacci Series

- (Advanced) Print out the first 6 Fibonacci numbers.
  The Fibonacci numbers are calculated as follows:

  Current value = Sum of the two previous values

  1   2 3 5 8 13 21 ···

  Hint: int a, b, c ;

```
C:₩Windows₩system32₩cmd.exe
1
1
2
3
5
8
계속하려면 아무 키나 누르십시오 . . . ▄
```