# 컴퓨터의 기초 (Fundamentals of Computer System)

## Home work #6

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In each program, you must include a brief explanation of the program (in English or Korean), and use as many comments as possible.

Monthly temperature data of the past three years are given in the below.

Temperature data (in °C):

|      | Jan  | Feb  | Mar | Apr  | May  | Jun  | Jul  | Aug  | Sep  | Oct  | Nov | Dec  |
|------|------|------|-----|------|------|------|------|------|------|------|-----|------|
| 2006 | -4.2 | -1.4 | 4.5 | 10.8 | 16.9 | 21.8 | 24.3 | 25.2 | 19.5 | 13.0 | 5.8 | -0.8 |
| 2007 | -4.0 | -2.0 | 4.4 | 11.0 | 15.9 | 22.0 | 25.4 | 24.9 | 20.0 | 13.9 | 6.0 | 0.0  |
| 2008 | -4.1 | 0.1  | 5.6 | 12.0 | 17.1 | 22.0 | 25.9 | 27.0 | 20.3 | 13.7 | 6.1 | -0.5 |

1. Rewrite your program from the homework 5.1 so that the main tasks are performed by functions instead of in main(). Please refer to array2d.c in the textbook. The program must produce the same results as the ones you obtained from homework 5.1.

2. Rewrite your program from the homework 5.1 using file input and output. Make an input text file based on the temperature data and make a program that generate the output as a file(s).

#Instruction on submission
1. Submit your homework via eTL. Go to '과제' and submit the two program files (*.c). NO homework will be accepted by email.
2. The homework is due by 12pm (24:00) Tuesday 2 June. With 20% penalty, you may submit the homework by 12pm (24:00) Thursday 4 June. NO homework will be accepted after this.
3. You are encouraged to ask questions about this homework in the Q&A of eTL.