컴퓨터의 기초 (Fundamentals of Computer System)

Home work #5

담당교수: 민기복 (38-108, kbmin@snu.ac.kr)
담당조교: 이재원 (135-403, sodg3135@snu.ac.kr)

2009 학년도 1 학기

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

1. Monthly temperature data of the past three years are given in the below. Write a program that finds the yearly average temperature and monthly average temperature for the past three years.

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

The program may produce results similar to the followings.

The yearly average temperature during 2006 - 2008:
2006   2007   2008
xxx   xxx   xxx

The monthly average temperature during 2006-2008:
Jan   Feb   Mar   Apr   May   Jun   Jul   Aug   Sep   Oct   Nov   Dec
xxx   xxx   xxx   xxx   xxx   xxx   xxx   xxx   xxx   xxx   xxx   xxx

2. Upgrade the programs (listing 9.9, 9.10 and 9.11) which calculate the room rate of a selected hotel. The changes are;

- HOTEL 4 is no longer available.
- Room rate has been changed to the followings;
HOTEL1 $100.00
HOTEL2 $140.00
HOTEL3 $160.00
- HOTEL2 and HOTEL3 don't have discount any more. It is only HOTEL1 which still has a discount of 0.95 as before.
- The final room rate needs to be shown both in US dollar and Korean won. You must specify exchange rate (get this value from internet or newspapers) in the hotel.h file.

Original files will be available in the eTL and you need to modify these files.

#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 19 May. With 20% penalty, you may submit the homework by 12pm (24:00) Thursday 21 May. NO homework will be accepted after this.
3. You are encouraged to ask questions about this homework in the Q&A of eTL.