

## 창의적 소프트웨어 프로그래밍 Lab 3

**Handed out : Fri, Sep 16, 2022**

**Due : Mon, Sep 19, 2022, 23:59 (NO SCORE for late submissions!)**

**Submit your file on LMS.**

1. Complete the code skeleton below to write a program that works as follows.
  - A. Create int variables a, b, and c and initialize their values to 10, 20, and 30, respectively.
  - B. Print out the initialized values of a, b, c.
  - C. When the user enters 1, each value shifts to the left. The leftmost value shifts to the rightmost.
  - D. When the user enters 2, each value shifts to the right. The rightmost value shifts to the leftmost.
  - E. After each shifting, print out the values of a, b, c.
  - F. This program should take user input repeatedly
  - G. Note that
    - i. Shifting values does not mean changing the order in which each variable is printed. The output order of variables should be always a, b, c. You have to changes the value of a, b, c instead of changing the printing order.
    - ii. You should implement rotateLeft() and rotateRight() and call them to shift values.
    - iii. The code for printing output must be in main().
    - iv. If the user enters values other than 1 or 2, exit the program.
  - H. **Input:** An integer (for each loop)
  - I. **Output:** The value of a, b, c
  - J. Files to submit:

i. A C source file

```
$/rotate_integer
10:20:30
1
20:30:10
1
30:10:20
1
10:20:30
2
30:10:20
2
20:30:10
3
```

Code skeleton:

```
void rotateLeft(int* pa, int* pb, int* pc){
    //Implement this function
}

void rotateRight(int* pa, int* pb, int* pc){
    //Implement this function
}

int main(void){
    //implement this function
}
```