



Chapter 10

Homework

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Problem 1

- Write a program that gives Final Grades for Students
 - Use following struct at the right bottom
- There are 4 Options on the Menu
- In each function, must provide 'go back to menu' functionality.
- Each option should be implemented as a user defined function
 1. View Registered Student
 2. Add Student
 3. Class Report
 4. View Final Grade
 5. Exit

```
COSE101 Grade Management Systemt
=====
1. View Regeisterd Student
2. Add Student
3. Class Report
4. View Final Grade
5. Exit
=====
Select Menu :
```

```
typedef struct class_grade {
    char name[30];
    int student_id;
    int attendance;
    int midterm_exam;
    int final_exam;
    int assignment;
    int term_project;
    int total_score;
}Grade;
```

Problem 1

- ▶ If you enter 1,
 - Display list of registered students
 - Student ID & Name of Student

```
=====
Registered Student
=====
There are no registied students
=====
Enter 1 to Go Back :
█
```

```
=====
Registered Student
=====
2015410078      HongGildong
=====
Enter 1 to Go Back :
█
```

Problem 1

- ▶ If you enter 2,
 - You should input the following information.
 - name of student
 - Student id (10-digit number)
 - Attendance score
 - Assignment score
 - Midtern exam score
 - Final exam score
 - Term Project score
 - In this menu, you also need to calculate the total score.
 - Maximum number of students: 79

```
=====
Student Name : KimYihong
Student ID : 2015410077
Attendance (0 ~ 10) : 8
Assignment (0 ~ 10) : 10
Midterm Exam (0 ~ 30) : 25
Final Exam (0 ~ 30) : 20
Term Project (0 ~ 20) : 10
```



Problem 1

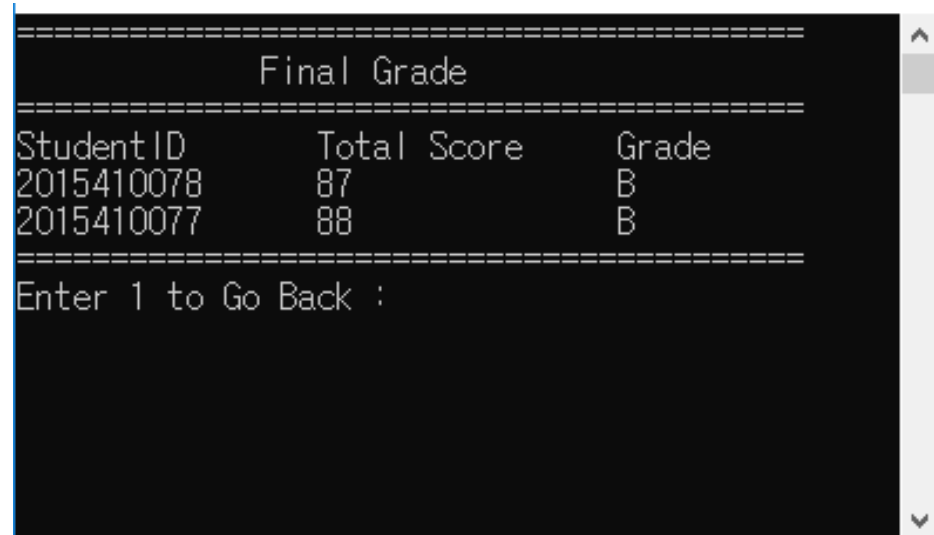
- ▶ If you enter 3,
 - Your program should calculate average, and median for each kind of scores of whole students.
 - ▶ (attendance, midterm, final, assignment, project, total)
 - The calculated values should be store at class_report struct as defined below.
 - Display the values as shown in the figure below.

Class report		
Field	Average	Median
Attendance	8	7
Assignment	8	7
Midterm	19	17
Final	20	19
Term Project	8	7
Total	63	57
Enter 1 to Go Back:		

```
typedef struct
class_report{
    int attendance;
    int midterm_exam;
    int final_exam;
    int assignment;
    int term_project;
    int total_score;
}Report;
```

Problem 1

- ▶ If you enter 4,
 - You should show the total score and final grade for students
 - Display student ID, Total Score, Grade
 - Grade System
 - A : Score ≥ 90
 - B : $80 \leq \text{Score} < 90$
 - C : $70 \leq \text{Score} < 80$
 - D : Score < 70



```
=====
                        Final Grade
=====
StudentID      Total Score      Grade
2015410078      87              B
2015410077      88              B
=====
Enter 1 to Go Back :
```

StudentID	Total Score	Grade
2015410078	87	B
2015410077	88	B



Problem 1

- ▶ If you enter 5,
 - Exit the Program.



Homework-8

- ▶ Submit a file “2019#####_hw8.zip”
 - Source File
 - pro1.c
 - Capture File
 - pro1_1.png , pro1_2.png, ...
- ▶ BlackBoard(kulms.korea.ac.kr) → Assignments
- ▶ Due Date : 2019/06/02 23:59

