

Assignment 6

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Outline

- Deadline
- No Plagiarism
- Leave Comments
- Scoring
- Problem 1
- Submission
- Questions

Deadline

- Monday, November 28th 23:55 (LearnUs server time)

No Plagiarism

- No Mercy.
- The punishment will be made to **both**
 - the person who copied the code, and the person who shared the code.
- We will do plagiarism test with codes that were made in previous semesters and also in google. So be careful 😊

Leave Comments

- Leave comments in your file for TAs to understand your code.
- If no comments in the file, there may be a reduction of points.

Scoring

- You should take care of your code not terminating by an issue in the middle of the loop
 - Scores will be given heavily depending on the final outputted file
 - There can be some additional points except for the outputted file results (not always), so please try your best to submit your codes in proper format.
- Each assignment will be scored with total 100 points
 - We will announce you scoring policy after we finish scoring of each assignment
- For every problems, you don't have to worry about the wrong/fault input.
- **Problem1 (100%)**

Scoring

- When ran the code, the printed text (*by cout*) in the terminal can be recorded in a file by '>>' command
- We will score the results by saving your programs printed texts by '>>', and compare by 'diff' command
- problem1 will be graded in this way.
- Example

```
$ g++ -Wall problem1.cpp -o problem1
```

```
$ ./problem1 >> output1.txt
```

```
$ diff answer.txt output1.txt
```

Problem 1

- **Flight Scheduling**
 - three classes: Airport, Airline, Flight
 - Airport
 - It has a schedule of arrival flights and departure flights.
 - You should show the flight schedule with correct format.
 - If output format is incorrect, you cannot get the score
 - Airline
 - Flight
 - It has the information of airline and airports.
 - Flight schedule can be modified anytime.

Problem 1

- **Flight Scheduling**

- More details are commented in the given skeleton codes.
- Compile with *Separated Compilation*
 - please refer to chapter 11
- The overall score will be scored based on several criteria.
 - some functions, pointer, gang of three rule...
- Especially, please keep the output format
 - using diff command

Problem 1

- When ran the code, the printed text (*by cout*) in the terminal can be recorded in a file by '>>' command
- We will score the results by saving your programs printed texts by '>>', and compare by 'diff' command
- If there is no output, you solved **base case** well. If not, check your code.

Submission

- Compress the folder by following steps correctly

```
user ~/Desktop/oop tar -zcvf 2022123456_hw6.tar.gz 2022123456_hw6
a 2022123456_hw6
a 2022123456_hw6/problem1
a 2022123456_hw6/problem1/airport.h
a 2022123456_hw6/problem1/flight.h
a 2022123456_hw6/problem1/airport.cpp
a 2022123456_hw6/problem1/airline.cpp
a 2022123456_hw6/problem1/flight.cpp
a 2022123456_hw6/problem1/airline.h
```

- studentId_hw6.tar.gz
 - Ex) 2022123456_hw6.tar.gz
- There is going to be **reduction** of points if not following the folder hierarchy as well
- If unzipped your submission .tar.gz file should follow the folder hierarchy below

Current directory

- studentId_hw6.tar.gz

```
2022123456_hw6
├── problem1
│   ├── airline.cpp
│   ├── airline.h
│   ├── airport.cpp
│   ├── airport.h
│   ├── flight.cpp
│   └── flight.h
```

- Do not submit the object files**
 - remove object files and only submit cpp and header files

Questions

- Use yonsei.oop.2022@gmail.com for questions

Appendix

- File I/O

```
#include <fstream>
```

```
ofstream outfile;
```

```
outfile << "Hello, World!\n"; // writing Hello,World! into the file
```

```
outfile.close(); // should close the file before terminating the process
```

```
ifstream infile("input.txt");
```

```
infile >> number; // reading the first digit written in input.txt
```

```
infile.close(); // should close the file before terminating the process
```

<https://stackoverflow.com/questions/7868936/read-file-line-by-line-using-ifstream-in-c>

Appendix

- Zipping and unzipping the folder by tar command
 - <https://linuxize.com/post/how-to-extract-unzip-tar-gz-file/>
 - <https://www.cyberciti.biz/faq/how-do-i-compress-a-whole-linux-or-unix-directory/>