SEOULTECH
Seoul National University of Science & Technology

Assignments for ITM 424

1. Overview

Students will have two project assignments and three HW assignments.

2. Project Assignments

➢ Description

This is a team project. Basically, each team consists of two or three students.

We have two topics and have the presentation for each topic. For each topic, teams are formatted randomly by the e-class system.

Present your results. Each presentation should be done within 5 minutes

➢ Grading

The total scores assigned for the projects are 20 points. That is, each project has 10 points.

Basically, the evaluations are conducted by the teams. However, individual contributions on each team could be considered as well.

➢ Evaluation criteria

Refer to the check list for each project. According to each point in the check list, the score will be quantitatively measured

➢ Feedback strategy

The feedbacks will be provided through e-class system

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➢ 1st Project (Make It Short)

- Refer to the following source code.

```
#include <stdio.h>
int main()
{
    int i;
    for(i=1; i<10000; i++)
    {
        printf("%d,", i);
    }
}
```

- Guideline
  - Minimize the character count of the given source code to achieve the same result.
  - You can use this compile option : `gcc -o count2 count2.c -std=c90`
  - The evaluation will be done by the following check list by the presentation and the results will be verified after the presentation using the submitted source code.
  - In the presentation, you need to clearly separate which one is done and is not done to get partial points for the done parts; otherwise, you will not at all.

- Check list
  - The code should be smaller than at least 53 bytes

```
$ wc -c count2.c
     53 count2.c
```

  - Your code should not include any **`while`** or **`for`** loops.
  - You must explain how you simplified the source code and how you implemented looping without using **`while`** or **`for`** loops.
  - Include the following steps in the slide:
    1) open the code, 2) compile the code, 3) run the executable, 4) compare the result of original source code. Unless these steps are presented, the scores will not be given even if the source code is correct

```
$ ./count1 > c1 && ./count2 > c2
$ diff c1 c2
$
```

  - If the code size is smaller than 42 bytes, you will receive bonus points (1 point).

- Be aware of cheating! The cheating will be detected based on the submitted source codes.

- Presentation and submission

- Presentation: 11 Oct. 2023 at 03:00 PM @ Frontier 511
- Submit the presentation slide and supplementary materials (including source codes) before the presentation; the results will be verified after the presentation
- Late submissions are not allowed