

CSED331 Algorithms

Midterm take-home assignment

May 15(Fri), 09:00 - 16(Sat), 12:00

1 Precautions

Discussions are allowed when solving problems, but **do not share your code**. Otherwise, you will get F grade. (same for the other types of cheating)

Note that all of the below will be considered as a cheating.

- Referring other's code
- Giving/Showing your code to others
- Referring any code from the internet

2 Programming assignment

Three problems will be given in Domjudge. Write codes and submit them to Domjudge. You can download sample test cases.

You get 10 pts for each problem.

- Domjudge 'Correct' : 8pts
- Additional cases : 2pts

The number of your tries does not count. No worries!

After the assignment due, we'll rerun your code with additional cases which are more difficult. To deal with them, your code must be efficient and can handle worst possible cases.

3 Report

Describe your algorithm for each problem you solve in Section 2. Analyze the time complexity and correctness of your code. Report must be written by any kind of electronic word processor(e.g. MS Word) in English. Submit your report to LMS in **pdf** format.

You get 10 pts for each problem.

- Describing the algorithm : 4pts
- Analyzing the time complexity : 3pts
- Analyzing the correctness : 3pts