

Fundamentals of Data Structures

Bonus Problems

1. Input and Output

Your program must read from and write to standard IO. Simply use `scanf` and `printf` will do.

2. Judge Compiler

Same as the compiler used by the online judge system (<http://pat.zju.edu.cn/>).

3. How to Submit your Program by E-mail

First login the online judge system at <http://pat.zju.edu.cn/> with your student ID (initial password is the same as your ID) and click on [题目集](#). Then try to submit your source code to the corresponding problem in “[2013 Fundamentals of Data Structures - Practice](#)” to avoid Compile Error and Presentation Error.

After passing the online judge, you may send your source code to your instructor (for example, Yue Chen’s students are supposed to send file to chenyue@zju.edu.cn) with “**Bonus**” as the title of your e-mail. *Note: if you don’t specify the title of your e-mail, there could be a delay of judging.*

Your C or C++ file must be named as “**Teacher_YourID_ProblemNumber.cpp**” (*Note: *.c file will be deleted automatically by some e-mail filter as a suspected virus --bb*). For example, “cy_98115001_02.cpp” is considered to be the program for solving problem 2, the author is the student with ID 98115001, and the instructor is represented by “cy”.

The first line of your source code must be a comment line written in the following format:

/* Author: Your name; ID:Your ID; No.ProblemNumber */

For example:

/* Author: Yao Qiaoling; ID: 98115001; No.02 */

4. Grading Policy

Your program will be compiled and run in the judge’s system, and the instructor will test it with some inputs and outputs, or perhaps with a specific judge tool. In 24 hours you’ll receive by e-mail a combination of the following answers:

Accepted: OK! Your program is correct! You will obtain **2** points for correctly solving one problem.

Presentation Error: Your program outputs are correct, but are not presented in the correct way. Check for spaces, justify, line feeds...

Wrong Answer: Correct solution not reached for the inputs. The inputs and outputs that I use to test the programs are not public.

Run Time Error: Your program crashed during the execution (segmentation fault, floating point exception...).

Time Limit Exceeded: Your program tried to run during too much time. This error doesn’t allow you to know if your program would reach the correct solution to the problem.

Output Limit Exceeded: Your program tried to write too much information. This usually occurs if there is an infinite loop.

Compile Error: The compiler could not compile your program.

Submission Error: You have not specified correctly your file name or the first comment line (an incorrect ID, number of problem...).

The bonus assignments are supposed to be done **INDEPENDENTLY**, and are all due **Friday, November 8th, 2013 at 10:00pm**. **Two** points will be added to your final grade if your program passes **ALL** the test cases of Judge. You may re-submit until you pass the Judge's test or reach the deadline, which ever comes first.