Fundamentals of Data Structures

Laboratory Projects

Minimum Requirements on Writing a Project Report

Title of Project

Author Names

Date: yyyy-mm-dd

Chapter 1: Introduction

Problem description and (if any) background of the algorithms.

Chapter 2: Algorithm Specification

Description (pseudo-code preferred) of all the algorithms involved for solving the problem, including specifications of main data structures.

Chapter 3: Testing Results

Table of test cases. Each test case usually consists of a brief description of the purpose of this case, the expected result, the actual behavior of your program, the possible cause of a bug if your program does not function as expected, and the current status ("*pass*", or "*corrected*", or "*pending*").

Chapter 4: Analysis and Comments

Analysis of the time and space complexities of the algorithms. Comments on further possible improvements.

Appendix: Source Code (in C)

At least 30% of the lines must be commented. Otherwise the code will NOT be evaluated.

Declaration

We hereby declare that all the work done in this project titled "XXX" is of our independent effort as a group.

Duty Assignments:

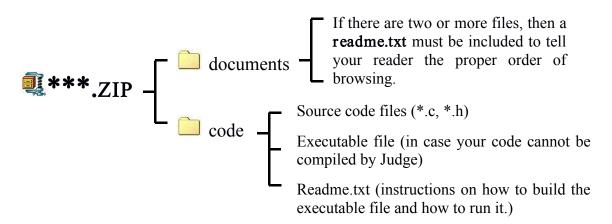**Programmer:** XXX
Tester: XXX
Report Writer: XXX

Please keep in mind that these are the "minimum" requirements. Other requirements will be specified according to each project assignment.

Group of Three一Duty Assignments

- **Programmer:** Write and maintain the source code. (50 pts.)

- **Tester:** Fill in the contents of Chapters 3 and 4. (30 pts.)

- **Report Writer:** Write up one complete project report in a uniform style. (20 pts.)

Hand-in

The zipped file must contain the following:

***.ZIP
- **documents** — If there are two or more files, then a **readme.txt** must be included to tell your reader the proper order of browsing.
- **code** —
  - Source code files (*.c, *.h)
  - Executable file (in case your code cannot be compiled by Judge)
  - Readme.txt (instructions on how to build the executable file and how to run it.)

Submit for Peer Review

For peer review you are supposed to submit your work through the online system at https://pintia.cn/ with your *group leader*'s personal account. *Your names must NOT appear in any of your submitted documents. Any leak of group member identification (name, student ID, nickname, group number, file properties, etc) will be considered as a fraud, and as a consequence the group will be graded zero. Intentional disclosure of identity constitutes cheating.*

After the deadline of submitting your project, the peer review begins. Use your *group leader*'s personal account to review your assignments. Your team must complete your review work before the deadline.

Submit to your Teaching Assistant

The revised project reports are supposed to be submitted through the online system at https://pintia.cn/ again with your group leader's personal account, in a *separate* problem set.

When submitting to TA, each group is supposed to hand in a zipped file. Your report document must be saved as a PDF file. The names of your report document and your source code file must be in the format *Teacher_2019G##_ProjectNumber.** where *##* is the two-digit group number which will be given to you after your group is confirmed. For example, *cy_2019G03_P2.pdf* is considered to be the report for Project 2 by Group 03, and the instructor is represented by "cy".

Late Penalty

Each assignment is due at 10:00pm on a specified date. The door for submission will be closed automatically afterwards.

For the peer review, there is **NO REMEDY**. Any team that misses the deadline will be graded zero automatically.

For the final review, late assignments will have to be sent to your instructor assistant through email (e.g. Qinming He's students are supposed to send email to 957385228@qq.com). The assignments received between 10:01pm – 11:59pm on the day they are due will be penalized 5% of the points on that lab. After the due date, the penalty will be 10% for each day they are late.