

Grader's Duty

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Policy and Guideline

- Grader's job including grade bonus and programming assignments, and report the grade to me promptly.
- Grader should catch cheating in both bonus and programming assignments, and report to me directly.
- Grader is not teaching assistant, therefore, there is no responsibility to answer student's questions. I'll handle all students' requests.
- Grader has to be fair in grading, follows the late penalty rules, and no exception should be granted to any student.
- The maximum working hours for grader is the number of credits times the number of students in the class. If you work more than this, you need ask me for help.
- Grader should fill out application with Department secretary before second week of the quarter, and fill out time card every other week.

Grade Homework/Bonus Assignments

- The score for correct answer is 10 or 20 points (depending on how many bonus assignments per week), total wrong answer is 7 or 14 points, and partial correct answer is in the range of 8-9 or 15-19 points. 0 point for late-submitted bonus assignments. Only whole number points (no decimal) are given.
- The graded bonus assignments should be returned to students the next class. The solution for the bonus will be posted on my web page.
- If any double about the correctness of the solution, ask me for help.

Grade Programming Assignments

- The score for each programming assignment is 150 points. Please refer the Grading Policy in Programming Requirements handout for details.
- Create directory ~/AutoTestDir, put each student's login name as subdirectory under AutoTestDir, and save each student's submission email as Pn.m (or simply save the Pn.tar.gz if you read email from Window browser) under the student's directory, where $n = \{1, 2, 3, \dots\}$.
- Generate test data similar to my examples and put in your local directory ~/test. For each programming assignment, copy all my sample tests to ~/test and create at least 3 legal tests: a simple one, a median one and a complicate one. The correctness is divided into 4 parts: all my sample tests as one part, and the other 3 newly created tests as three

parts. If all my old sample tests passed, or any one of the new tests passed, 25% of the correctness points are giving; if none passed, 0 point. Also, create a few illegal tests for testing error handling. The input size of the complicated one should be adjusted such that it will be used for determining the relative speed among students. To do this, just choose one student, e.g., foo, and run the test by:

```
$ Autotest n -t ~/test foo
```

Then see if the run time in some reasonable range. (Please read Autotest section in Programming Requirements for details.)

- Use script to record the runtime. To speed up grading, log in several computers and run concurrently. E.g., if they are total of 6 students: a, b, c, d, e, f. Run a, b, and c on one machine:

```
$ script time_abc
$ Autotest n -t ~/test a b c
$ exit
$ more time_abc
```

Run d, e, and f on another machine:

```
$ script time_def
$ Autotest n -t ~/test d e f
$ exit
$ more time_def
```

As the load will affect the "system time" and the "real time", the grader better not run job during rush hours, and use "user time" as the measurement for speed comparison (but if compare multi-threaded programs, use the "real time".)

- For run time comparison, simply divide the students in 2-4 groups, and each student in the same group has the same run time score. Correct answers always be treated as better run time than wrong answers.
- The graded programming assignments should be return to all students one week from the due date.
- If students have question about their grades, ask them re-run their programs using your data. If further request is asked, special service has to be charged except it was the grader's mistake.
- Grade report is the same as below, besides, the grader should send me an email with a table for detail scores for each student and a tar file which contains the whole test directory for the test cases.

Grade Report

- I will send an email of students' names (sorted by the last name, note that the order is important) to the grader in the second week after I got the class roster. If there is no grade for any student, just put 0.
- Report grade by email. Each email should have only one grade for each student.