

# A201/A597 Introduction to Programming I

First Summer 2007



Lecture Notes for Thursday June 07, 2007 (ED1204)

Reading assignment for today: Chapter 7 (Files and Exceptions).



Minute paper: to be announced in class.



Lab Notes for Thursday, June 07, 2007 (ED2025)

Lab today and tomorrow to help with last two homework assignments.



## Homework Ten

Write a program that reads votes from a file and aggregates and reports them. Each line in the file is of the form

`<name> <numberOfVotes>`

The names are all spelled correctly. The numbers are all integers between -10 and 10 and they need to be added up for each candidate. Your program has to report the results of the election by sorting in descending order the candidates

- a) by their total number of votes
- b) by their average number of votes

Example: if the file looks like this

```
Letterman 10
Oprah 5
Calvin and Hobbes 5
Oprah 8
Letterman 3
Oprah 7
Letterman 5
Calvin and Hobbes 0
Perot 9.5
Oprah -5
Letterman -10
Calvin and Hobbes 2
```

By number of votes the final classification is:

- |                      |     |
|----------------------|-----|
| 1. Oprah             | 15  |
| 2. Perot             | 9.5 |
| 3. Letterman         | 8   |
| 4. Calvin and Hobbes | 7   |

By average number of votes (divide the sum by number of voters):

- |                      |      |
|----------------------|------|
| 1. Perot             | 9.5  |
| 2. Oprah             | 3.75 |
| 3. Calvin and Hobbes | 2.33 |
| 4. Letterman         | 2    |