22S:30/105, Statistical Methods and Computing
Instructor: Cowles
Spring 2006, Homework 9

Due: Fri., 04/07 in class

1. Textbook problem 16.38 The data is on the course web page in a file called "caffeine.dat." Use SAS to make the stemplots and to carry out the required test. Answer all parts of the question.

2. Textbook problems: 17.23, 17.26, 17.27, 17.37, 17.39, 17.41, 17.42, 17.43

Note 1: For those problems that require you to compute t-statistics by hand (i.e., the whole dataset isn't available), see Option 2 on p. 443 of the textbook for a guideline as to what df to use to get a p-value.

Note 2: For textbook problems 17.37 and 17.39, the data is on the course web page in a file called 'blissymbols.dat,' with an associated descriptive file called 'blissymbols.info.' Use SAS to do the parts of those two problems that involve computations. Answer all parts of both questions.

Note 3: Use `alpha = <1 - desired level>` in `proc ttest` to specify what level of confidence interval you want, in the same way that you do with `proc means`. So for the requested 90% intervals you will have:

```
proc ttest alpha = .10 data = blissymbols ;
```