STDA PW1

1. Emailed to pshaw@email.arizona.edu

2. I would have to disagree with Felleisen et al.'s opinion. Computers can do no more or less than they are programmed to do. A surprising result from a computer is due to error on the part of the programmer. An unexpected result from a student, however, can be the result of any of a number of things, ranging from student innovation to error on the part of either the teacher or the student.

✓ Good!

3. In writing chemical speciation models, and in Excel, too, I found the following were the most useful guidelines.
   a. Simple is better to start. If the program works with the most important things, it can be refined by adding additional steps or complications.
   b. If there is any question about why something is done, notate the file.
   c. Save everything – at least until done with the project – sometimes what I thought was a mistake in the first model run, wasn't actually a mistake. It can also be helpful to compare the results from different commands.
   d. Keep a written log. It was really helpful have a notebook with short notes that I wouldn't have bothered putting into file comments.