Homework 2

This homework is due Wednesday, Feb. 14 (by 5:00 PM).

1. (5 points) Suggest a practical use for mid-decision loops (see MacLennan, page 44).
2. (10 points) Do exercise 2-7 on page 47 of MacLennan.
3. (4 points) Do exercise 2-13 on page 58 of MacLennan.
4. (6 points) Do exercise 2-14 on page 58 of MacLennan. (Notice that this exercise has two parts.)
5. (12 points) What improvements do you think should be made to FORTRAN's COMMON facility. Briefly explain the changes you would make and their justification.
6. (5 points) Do exercise 2-33 on page 90 of MacLennan.
7. (15 points) For each of the following principles, list one feature (or one pair of features in some cases) of FORTRAN that (a) *violates* that principle and one that (b) positively illustrates that principle:
   (a) structure
   (b) syntactic consistency
   (c) defense in depth (you do not have to give a positive example for this principle)
   (d) preservation of information
   (e) abstraction
   (f) zero-one-infinity
   (g) information hiding