1. (2 pts) Suppose we have a line in a FORTRAN program which has the letter C in column 6. How does FORTRAN interpret this line?

2. (2 pts) Suppose we have a FORTRAN program with an INTEGER variable named A, and a logical variable named B. Further suppose that the following code prints out F for false. What can we deduce about the value of A?

   B = A.LE.1.OR.A.GE.3
   PRINT *,B

3. (2 pts) Suppose we have the following FORTRAN program. Assuming that the user always gives an integer when prompted for one, will the word Hello always be printed? Explain your answer.

   INTEGER B
   PRINT *, 'Please enter a number'
   READ *, B
   IF (B/2*2.EQ.B) THEN
      PRINT *, 'Hello'
   ENDIF
   STOP
   END

4. (2 pts) Suppose we have the following IF statement. Assume A,B, and C are INTEGER variables.

   IF (A.GE.B) THEN
      PRINT *, 1
   ELSE IF (B.GE.C) THEN
      PRINT *, 2
   END IF

   If the number 2 is printed when this IF statement executes, would the expression A-B be a positive number or a negative number? Explain.

5. (2 pts) Suppose we have the following FORTRAN program. Assuming that the user always inputs an integer, is it ever possible for the word Hello to be printed? Explain.

   INTEGER A
   PRINT *, 'Please enter a number'
   READ *, A
   IF (A.GT.10) THEN
      PRINT *, 'H'
   ELSE IF (A.LE.10) THEN
      PRINT *, 'E'
   ELSE
      PRINT *, 'Hello'
   END IF
   STOP