POINTS TO PONDER

2.1 In case you think the examples in this chapter are rare, here are a few more fragments for you to practice on. Decide what each does, then improve it.

```
      IF A>B THEN DO;
      LARGE=A;
      GO TO CHECK;
      END;
      LARGE=B;
      CHECK: IF LARGE>C THEN GO TO OUTPUT;
      LARGE=C;
      OUTPUT: ...
```

```
      IF(ITEM1 .LE. ITEM2)GO TO 3
      IHIGH1=ITEM1
      GO TO 4
3     IHIGH1=ITEM2
4     IF(IHIGH1 .GE. ITEM3)GO TO 5
      IHIGH2=ITEM3
      GO TO 6
5     IHIGH2=IHIGH1
6     ...
```

```
      DCL A(8);
      GET LIST(A);
      DO I=1 TO 8;
        IF ABS(A(I))<ABS(A(I+1)) THEN;
           ELSE BEGIN;
             STORE=A(I);
             A(I)=A(I+1);
             A(I+1)=STORE;
             END;
      END;
      PUT LIST(A);
```

(Find the bug too.)

```
          IF A = 0 THEN GO TO TESTB;
          GO TO CHECK;
  TESTB:  IF B = 0 THEN GO TO TESTC;
          GO TO CHECK;
  TESTC:  IF C = 0 THEN GO TO NOMORE;
/*HERE WE TEST FOR COMPLEX ROOTS.          */
 CHECK:   ...
```