## 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:   ...
```