```
1   ABSDIF    MACRO     OP1,OP2,SIZE
2             LOCAL     EXIT
3             IFNB      <SIZE>          ;; IF SIZE IS NOT BLANK
4             IFDIF     <SIZE>,<E>      ;;   THEN IT MUST BE E
5             ; ERROR -- SIZE MUST BE E OR BLANK
6             .ERR
7             EXITM
8             ENDIF                     ;; END OF IFDIF
9             ENDIF                     ;; END OF IFNB
10            MOV       SIZE&AX,OP1     ; COMPUTE ABSOLUTE DIFFERENCE
11            SUB       SIZE&AX,OP2     ;; SUBTRACT OP2 FROM OP1
12            JNS       EXIT            ;; EXIT IF RESULT GE 0
13            NEG       SIZE&AX         ;;   OTHERWISE CHANGE SIGN
14    EXIT:
15            ENDM
```

(a)

```
              ABSDIF    J,K
                  ↓
              MOV       AX,J            ; COMPUTE ABSOLUTE DIFFERENCE
              SUB       AX,K
              JNS       ??0000
              NEG       AX
??0000:
```

(b)

```
              ABSDIF    M,N,E
                  ↓
              MOV       EAX,M           ; COMPUTE ABSOLUTE DIFFERENCE
              SUB       EAX,N
              JNS       ??0001
              NEG       EAX
??0001:
```

(c)

```
              ABSDIF    P,Q,X
                  ↓
              ; ERROR -- SIZE MUST BE E OR BLANK
```

(d)

Figure 4.12 Examples of MASM macro and conditional statements.