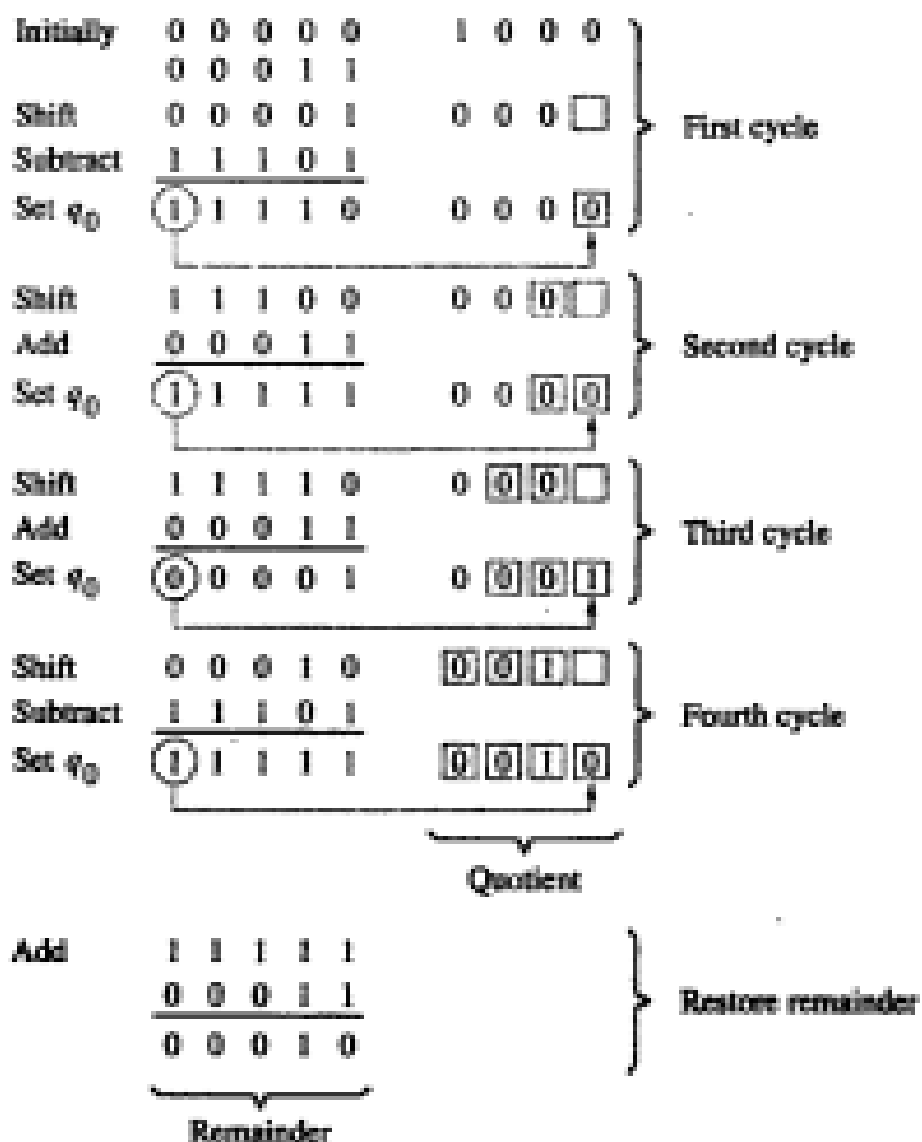# Non-Restoring Division

Step 1: Do the following *n* times:

1. If the sign of A is 0, shift A and Q left one bit position and subtract M from A; otherwise, shift A and Q left and add M to A.

2. Now, if the sign of A is 0, set q_0 to 1; otherwise, set q_0 to 0.

Step 2: If the sign of A is 1, add M to A.

Figure 6.23 A nonrestoring-division example.