



SNS COLLEGE OF TECHNOLOGY

(An Autonomous Institution)

Approved by AICTE, New Delhi, Affiliated to Anna University, Chennai

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COIMBATORE-641 035, TAMIL NADU



COURSE NAME : 23ITT202 – COMPUTER ORGANIZATION AND ARCHITECTURE

II YEAR/ III SEMESTER

UNIT – II ARITHMETIC OPERATIONS

Topic: Non – Restoring Division

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_n to 1; otherwise, set q_n to 0.

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

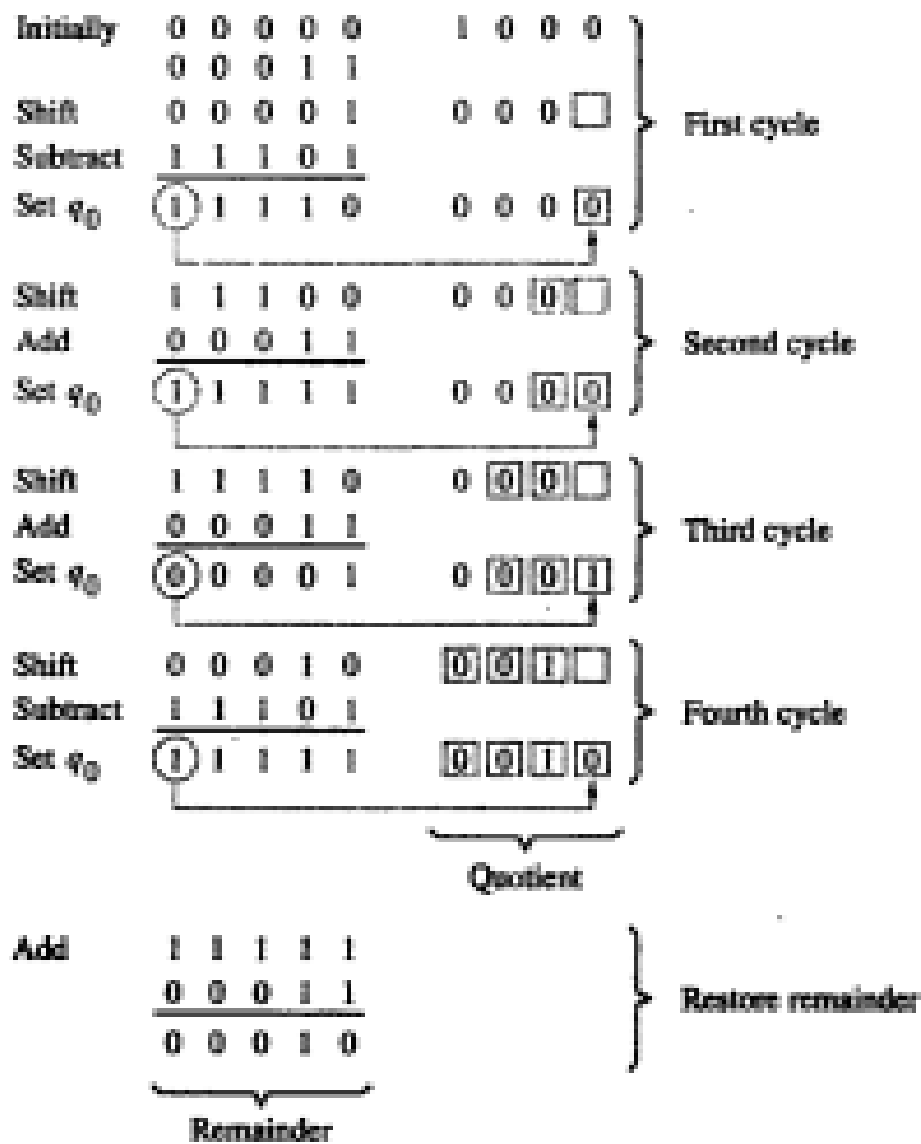


Figure 6.23 A nonrestoring-division example.