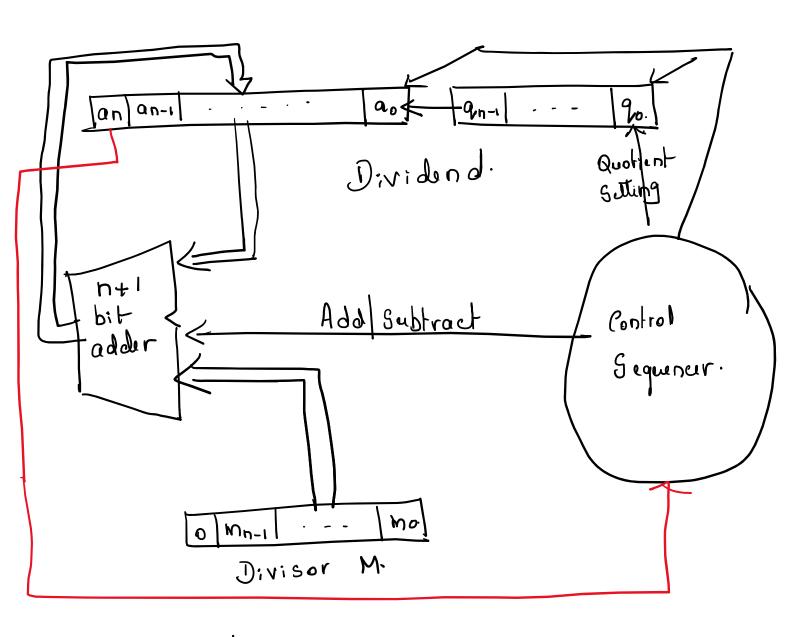
Circuit for binary division



- Every eyele.

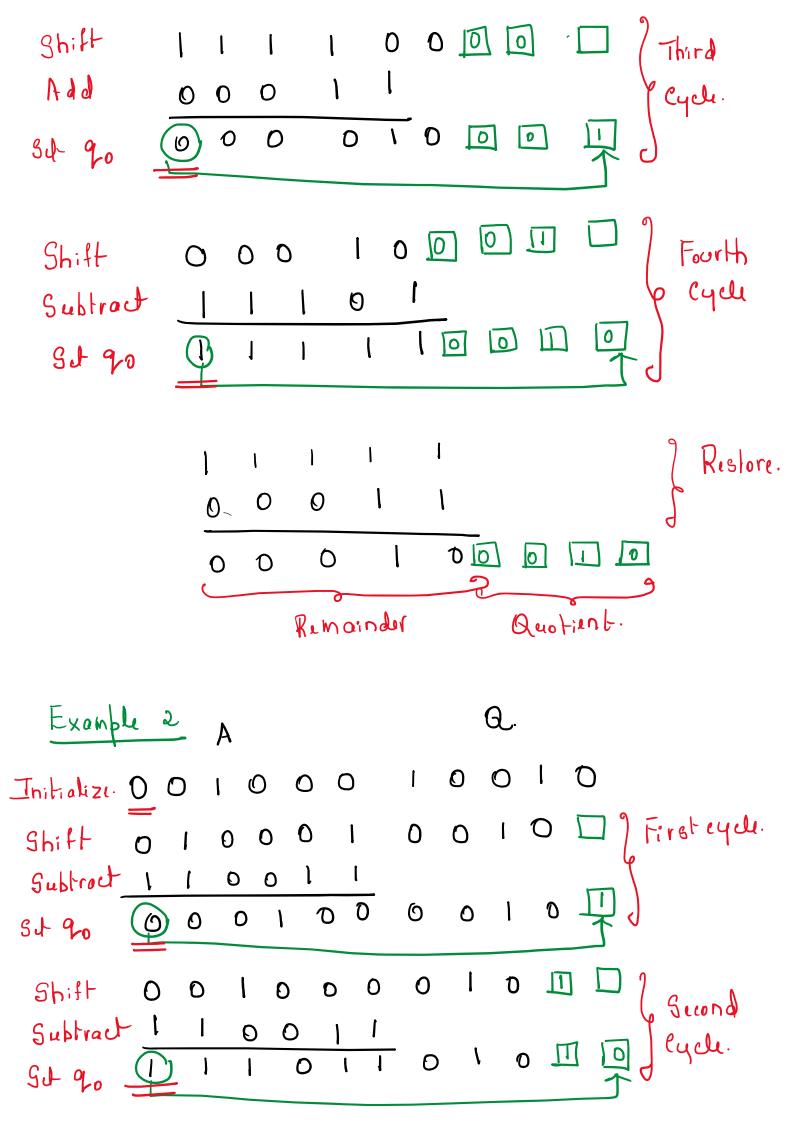
- Subtraction
- Addition.

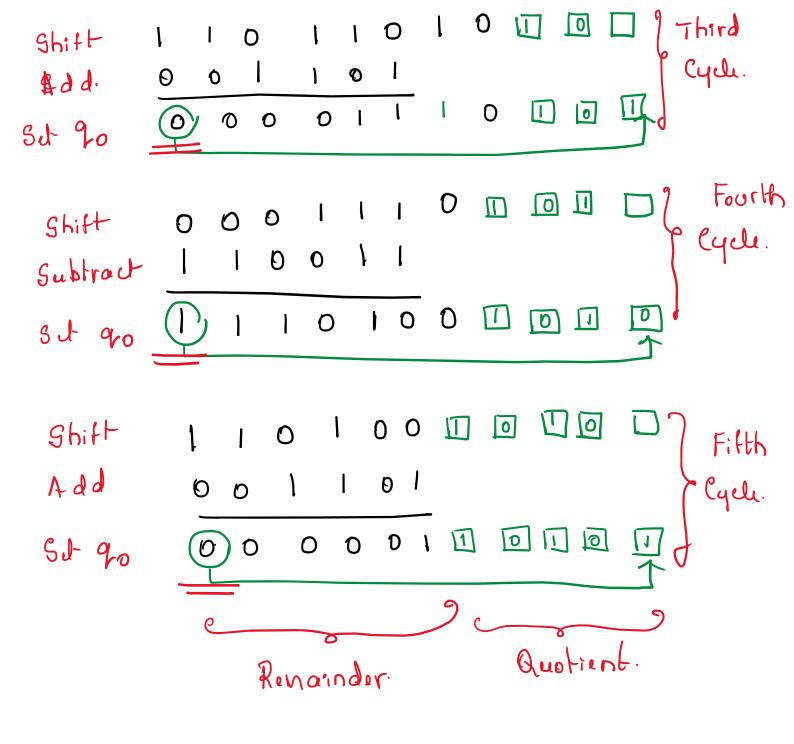
Mon- ristoring division

Step 1: Do the tollowing n times

1. If the sign bit of A is O: Shift A & Q to left one bit position and Subtract M from A

Example





Signed number division

-> Division

-> Both dividend e divisor May be transformed to be positive numbers

- Unsigned number division

$$\frac{+v_1}{+v_1} \qquad \frac{5}{2} \qquad Q = 2$$

$$R = 1$$

$$\frac{-v_1}{+v_1}$$
 $\frac{-5}{2}$ $0:-2$ $R:-1$

$$\mathfrak{J} = -2 \times 2 - 1 = -5$$

$$\frac{+v!}{-v!} \quad \frac{5}{-2} \quad Q:-2$$

$$R=1$$

$$D: -2 \times 2 + 1 = 5$$

$$\frac{-ve}{-vc} = \frac{-5}{-2}.$$
 $R = -1$

$$Q = Q - R = -1$$

$$\mathcal{D} = 2 \times (-a) - 1 = -4$$

Quotient Sign: Whenever Dividend and divisor on of different sign, quotient nigative.



Rimaindur sign = Dividend sign