1000) 1001010 (1001)

101

101

1010

-1000

Reminder
$$\rightarrow$$
 10

10 | 1101 | 110

10 | 10

-10

_> Reminder 0000 1101 - Divisor 0010 0000 Dividend & Divisor quotient = 0 Divisor = 0001 0000 @ Dividend < Divisor quotient = 00 Divident = 0000 1101 Divisor = 0000 1000 → 00000101 & Reminder (111)quotient = 001 Divisor = 0000 0100 (10) Reminder = 0000 0101 Divisor = 0000 0100 0000 0001 - Reminder quotient = 0011

Divisor = 0000 0010

Reminder = 0000 0001 Divisor = 0000 0010 (1111 1111) Minus quotient = 0110

Raminder = 0000 0001

Optimized Divider Divisor = 0010 Dividend = 0000 1101 0000 0010 negative Reminder = [0001] 1010 TNot final 0001 ~> 0001 11010 & final 0010 negative -Reminder = 0011 0100 0011 0010 0001 -> 0001 0101 Reminder = 10010 1010 0010 0010 00001011 Reminder = [0001 0110

5. 0001 0010 Negative - 0001 0110 Reminder