

Divisor
0 0 0 1 1

Register A
0 0 0 0 0

Dividend
0 1 1 1

0 0 0 0 0	1 1 1 0	Shift left
1 1 1 0 1	1 1 1 0	Subtract Divisor from Register A
0 0 0 0 0	1 1 1 0	Add Divisor to Register A
0 0 0 0 0	1 1 1 0	set q_0 to 0 or 1

0 0 0 0 1	1 1 0 0	Shift left
1 1 1 1 0	1 1 0 0	Subtract Divisor from Register A
0 0 0 0 1	1 1 0 0	Add Divisor to Register A
0 0 0 0 1	1 1 0 0	set q_0 to 0 or 1

0 0 0 1 1	1 0 0 0	Shift left
0 0 0 0 0	1 0 0 0	Subtract Divisor from Register A
0 0 0 0 0	1 0 0 1	set q_0 to 0 or 1

0 0 0 0 1	0 0 1 0	Shift left
1 1 1 1 0	0 0 1 0	Subtract Divisor from Register A
0 0 0 0 1	0 0 1 0	Add Divisor to Register A
0 0 0 0 1	0 0 1 0	set q_0 to 0 or 1

Remainder Quotient