

Step	Action	S	A	Q
	Initialize registers	0	1100	0010 = dividend D $D = 110000$ 1010 = divisor $V = M$
	Subtract M from A	0	0010	0010
	Reset $Q[0] := \underline{1}$	0	0010	001 <u>1</u>
	Left shift $S.A.Q$	0	0100	0110
2			1010	
	Subtract M from A	1	1010	0110
	Set $Q[0] := \underline{0}$	1	1010	011 <u>0</u>
	Left shift $S.A.Q$	1	0100	1100
3			1010	
	Add M to A	1	1110	1100
	Set $Q[0] := \underline{0}$	1	1110	110 <u>0</u>
	Left shift $S.A.Q$	1	1101	1000
4			1010	
	Add M to A	0	0111	1000
	Reset $Q[0] := \underline{1}$	0	0111	100 <u>1</u>
				1001 = quotient Q 0111 = remainder R