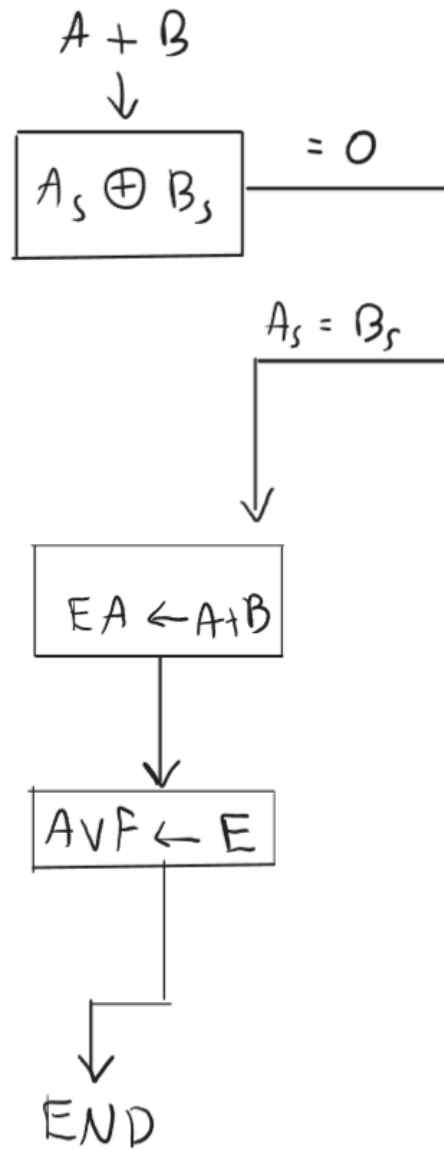
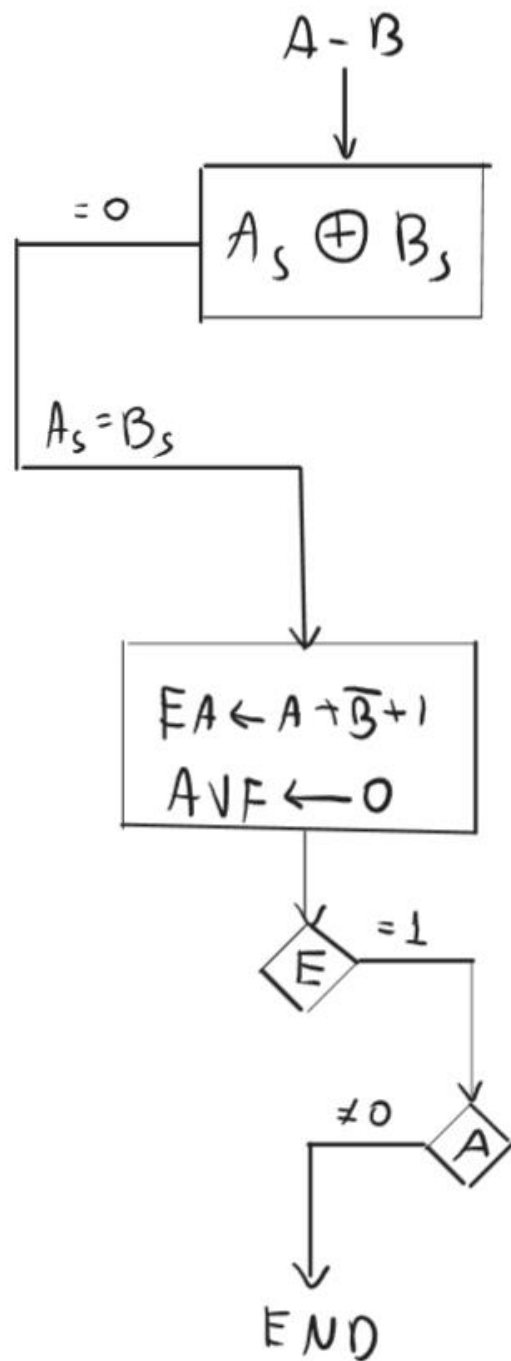


1

a. 0 101101 + 0 011111



b 0 101101 - 0 011111



2

Multiplicand B = 11111	E	A	Q	SC
Multiplier in Q	0	00000	10101	101
Q _n = 1 ; add B	0	11111		
First partial product	0	11111		
Shift right EAQ	0	01111	11010	100
Q _n = 0 ; Shift right EAQ	0	00111	11101	011
Q _n = 1 ; add B		11111		
Second partial product	1	00110		
Shift eight EAQ	0	10011	01110	010
Q _n = 0 ; Shift right EAQ	0	01001	10111	001
Q _n = 1 ; add B		11111		
Third partial product	1	01000		
Shift right EAQ	0	10100	01011	000
Final product in AQ = 10100 01011				