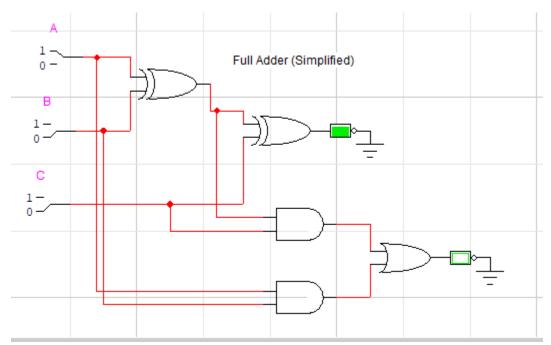


В	Bin	Difference (D)	Borrow-out (Bout)
0	0	0	C
0	1	1	1
1	0	1	1
1	1	0	1
0	0	1	C
0	1	0	C
1	0	0	C
1	1	1	C
	0 0 1 1	0 0 0 1 1 1 0 0 0 0 0 0 1	0 0 0 0 0 0 0 0 0 0 1 1 1 1 1 1 0 0 0 0

Difference = $(A' \cdot B' \cdot Bin) + (A' \cdot B \cdot Bin') + (A \cdot B' \cdot Bin') + (A \cdot B \cdot Bin)$

 $Bout=(A'\cdot B\cdot Bin')+(A'\cdot B\cdot Bin)+(A\cdot B'\cdot Bin)+(A\cdot B\cdot Bin)$



A	В	Cin	Sum	Carry-out (Cout)
0	0	0	0	0
0	0	1	1	0
0	1	0	1	0
0	1	1	0	1
1	0	0	1	0
1	0	1	0	1
1	1	0	0	1
1	1	1	1	1

 $Sum=(A'\cdot B'\cdot Cin)+(A'\cdot B\cdot Cin')+(A\cdot B'\cdot Cin')+(A\cdot B\cdot Cin)$

 $Cout = (A' \cdot B \cdot Cin) + (A \cdot B' \cdot Cin) + (A \cdot B \cdot Cin') + (A \cdot B \cdot Cin)$