0 → 0 0 ; 1 → 1 1 ; 2 → 0 1 ; 3 → 1 0

A a_1	a_0	B b_1	b_0	c_{in}	c_{in}	A	B	c_{OUT}	R	c_{OUT}	R r_1	r_0
0	0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	1	1	0	0	0	1	0	1	1
0	0	0	1	0	0	0	2	0	2	0	0	1
0	0	0	1	1	1	0	2	0	3	0	1	0
0	0	1	0	0	0	0	3	0	3	0	1	0
0	0	1	0	1	1	0	3	1	0	1	0	0
0	0	1	1	0	0	0	1	0	1	0	1	1
0	0	1	1	1	1	0	1	0	2	0	0	1
0	1	0	0	0	0	2	0	0	2	0	0	1
0	1	0	0	1	1	2	0	0	3	0	1	0
0	1	0	1	0	0	2	2	1	0	1	0	0
0	1	0	1	1	1	2	2	1	1	1	1	1
0	1	1	0	0	0	2	3	1	1	1	1	1
0	1	1	0	1	1	2	3	1	2	1	0	1
0	1	1	1	0	0	2	1	0	3	0	1	0
0	1	1	1	1	1	2	1	1	0	1	0	0
1	0	0	0	0	0	3	0	0	3	0	1	0
1	0	0	0	1	1	3	0	1	0	1	0	0
1	0	0	1	0	0	3	2	1	1	1	1	1
1	0	0	1	1	1	3	2	1	2	1	0	1
1	0	1	0	0	0	3	3	1	2	1	0	1
1	0	1	0	1	1	3	3	1	3	1	1	0
1	0	1	1	0	0	3	1	1	0	1	0	0
1	0	1	1	1	1	3	1	1	1	1	1	1
1	1	0	0	0	0	1	0	0	1	0	1	1
1	1	0	0	1	1	1	0	0	2	0	0	1
1	1	0	1	0	0	1	2	0	3	0	1	0
1	1	0	1	1	1	1	2	1	0	1	0	0
1	1	1	0	0	0	1	3	1	0	1	0	0
1	1	1	0	1	1	1	3	1	1	1	1	1
1	1	1	1	0	0	1	1	0	2	0	0	1
1	1	1	1	1	1	1	1	0	3	0	1	0

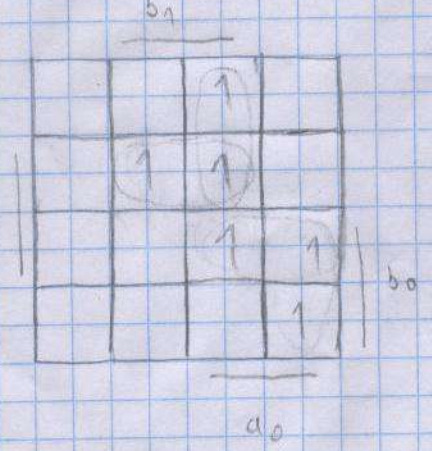
$c_{out} = \Sigma m(5, 10, 11, 12, 13, 15, 17, 18, 19, 20, 21, 22, 23, 27, 28, 29)$

$r_1 = \Sigma m(1, 3, 4, 6, 9, 11, 12, 14, 16, 18, 21, 23, 24, 26, 29, 31)$

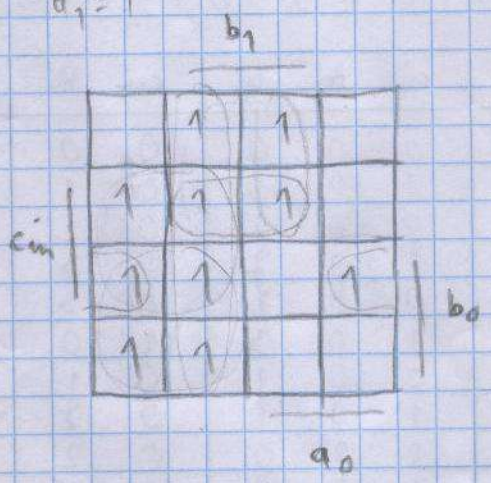
$r_0 = \Sigma m(1, 2, 6, 7, 8, 11, 12, 13, 16, 19, 20, 23, 24, 25, 29, 30)$

c_{out}

$a_1 = 0$



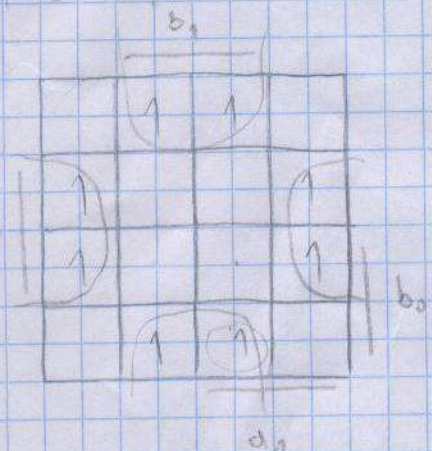
$a_1 = 1$



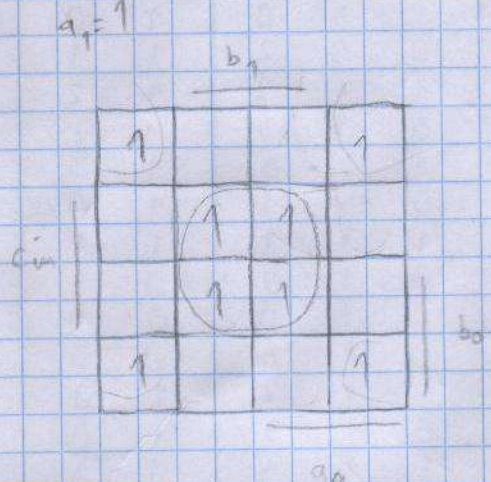
$$c_{out} = a_0 b_1 \bar{b}_0 + b_1 \bar{b}_0 c_{in} + \bar{a}_1 a_0 b_0 c_{in} + \bar{a}_1 a_0 \bar{b}_1 b_0 + a_1 \bar{a}_0 b_1 + a_1 \bar{a}_0 b_0 + a_1 \bar{a}_0 c_{in} + a_1 \bar{b}_1 b_0 c_{in}$$

r_1

$a_1 = 0$



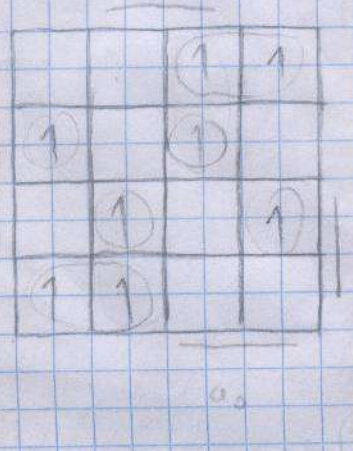
$a_1 = 1$



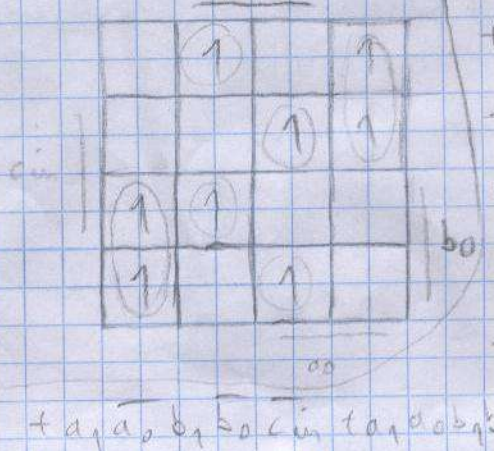
$$r_1 = \bar{a}_1 b_1 \bar{c}_{in} + \bar{a}_1 \bar{b}_1 c_{in} + a_1 b_1 c_{in} + a_1 \bar{b}_1 \bar{c}_{in}$$

r_0

$a_1 = 0$



$a_1 = 1$



$$r_0 = \bar{a}_1 \bar{a}_0 \bar{b}_1 \bar{b}_0 c_{in} + \bar{a}_1 \bar{a}_0 b_0 \bar{c}_{in} + \bar{a}_1 \bar{a}_0 b_1 b_0 c_{in} + a_0 b_1 \bar{b}_0 c_{in} + \bar{a}_1 a_0 \bar{b}_0 \bar{c}_{in} + \bar{a}_1 a_0 \bar{b}_1 b_0 c_{in} + a_1 \bar{a}_0 \bar{b}_1 b_0 + a_1 \bar{a}_0 b_1 \bar{b}_0 \bar{c}_{in} + a_1 a_0 b_1 b_0 c_{in} + a_1 a_0 \bar{b}_1 \bar{b}_0$$

(B-1)-KOMPLEMENT

x_1	x_0	X	Y	y_1	y_0
0	0	0	3	1	0
0	1	2	1	1	1
1	0	3	0	0	0
1	1	1	2	0	1

$y_1 = \overline{x_1}$

$y_0 = x_0$

DVOSTRUKI MULTIPLEKSOR

$S = 0 \rightarrow z_1 = x_1 \; ; \; z_0 = x_0$

$S = 1 \rightarrow z_1 = y_1 \; ; \; z_0 = y_0$

$z_1 = \bar{S} x_1 + S y_1$

$z_0 = \bar{S} x_0 + S y_0$

2.6. PROVJERA DADA SKLOPA

OP = 0 ; a = 11 10 01 00 (1 3 2 0) + b = 01 00 00 10 (2 0 0 3) r = 10 10 01 10 (3 3 2 3) $C_{OUT} = 0$

OP = 0 ; a = 11 10 01 00 (1 3 2 0) + b = 01 00 10 10 (2 0 3 3) r = 00 00 11 10 (0 0 1 3) $C_{OUT} = 1$

OP = 1 ; a = 11 10 01 00 (1 3 2 0) − b = 01 00 00 10 (2 0 0 3 / 1 3 3 0+1) ; r = 10 10 11 11 (3 3 1 1) $C_{OUT} = 0$

OP = 1 ; a = 11 10 01 00 (1 3 2 0) − b = 01 00 10 10 (2 0 3 3 / 1 3 0 0+1) r = 10 01 01 11 (3 2 2 1) $C_{OUT} = 0$