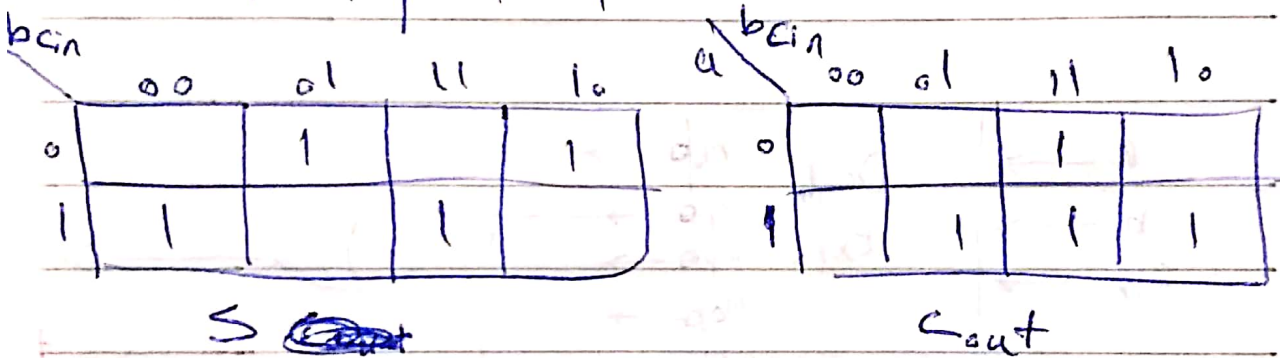
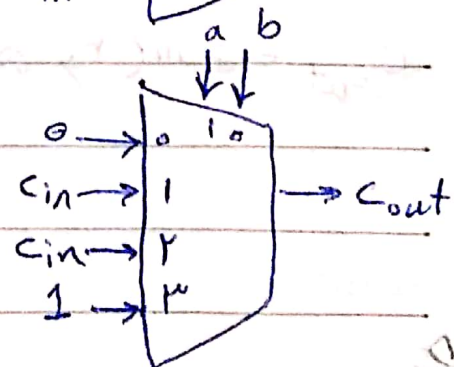
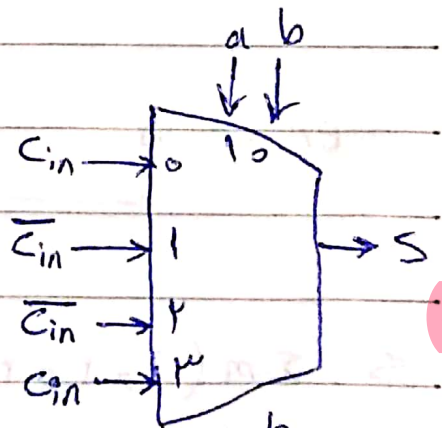


فاطمہ فرغی
سوال (الف)

a	b	c _{in}	S	C _{out}
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

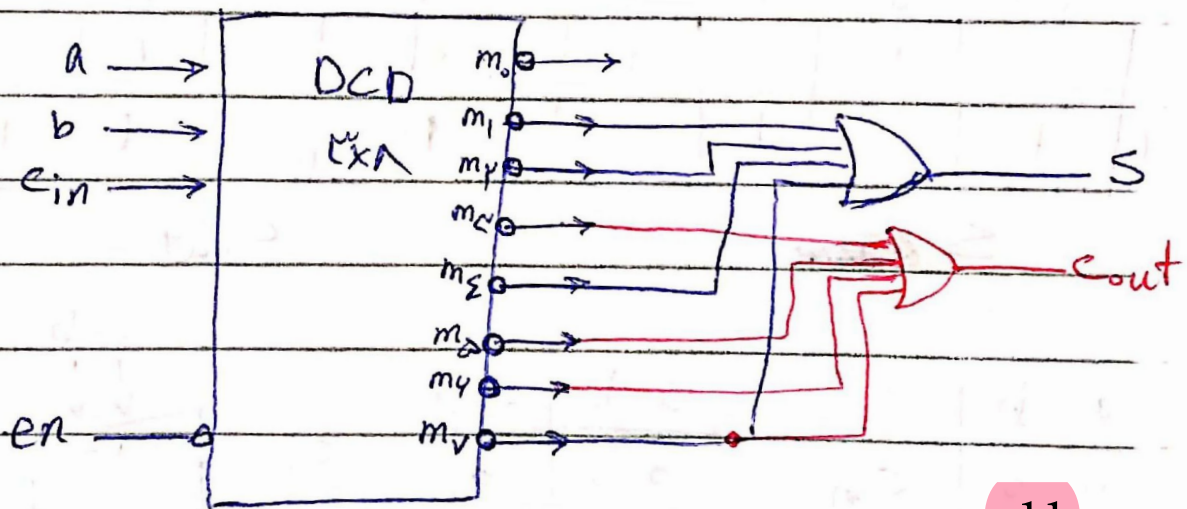


a	b	S	a	b	C _{out}
0	0	C _{in}	0	0	0
0	1	$\overline{C_{in}}$	0	1	C _{in}
1	0	$\overline{C_{in}}$	1	0	C _{in}
1	1	C _{in}	1	1	1



a	b	c _{in}	S	C _{out}
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

ب



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$$S = \sum m(1, 2, 3, 7)$$

$$C_{out} = \sum m(3, 5, 6, 7)$$