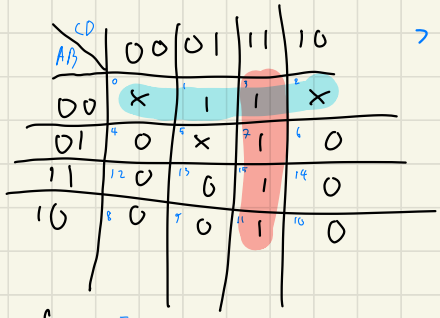
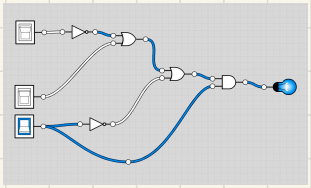
1 sum of product

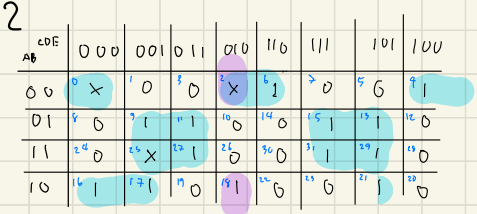


$f = \bar{A}\bar{B} + CD$

A	B	C	D	f
0	0	0	1	1
0	0	0	0	X
0	0	1	1	1
0	0	1	0	0
0	1	0	1	X
0	1	0	0	0
0	1	1	1	1
0	1	1	0	0
1	0	0	1	0
1	0	0	0	0
1	0	1	1	1
1	0	1	0	0
1	1	0	1	0
1	1	0	0	0
1	1	1	1	1
1	1	1	0	0



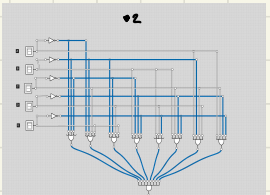
2



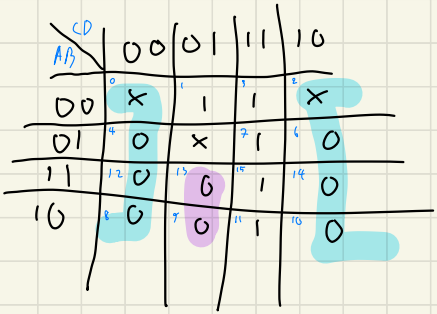
$f = \bar{A}\bar{B}\bar{D}\bar{E} + \bar{A}\bar{B}\bar{D}\bar{E} + D\bar{E} + B\bar{C}\bar{E} + BCE + A\bar{B}\bar{C}\bar{D} + A\bar{B}\bar{C}\bar{D}E + \bar{B}\bar{C}D\bar{E}$

A	B	C	D	E	f
0	0	0	0	0	X
0	0	0	0	1	0
0	0	0	1	0	X
0	0	0	1	1	0
0	0	1	0	0	1
0	0	1	0	1	0
0	0	1	1	0	1
0	0	1	1	1	0
0	1	0	0	0	0
0	1	0	0	1	1
0	1	0	1	0	0
0	1	0	1	1	1
0	1	1	0	0	0
0	1	1	0	1	1
0	1	1	1	0	0
0	1	1	1	1	1

A	B	C	D	E	f
1	0	0	0	0	1
1	0	0	0	1	1
1	0	0	1	0	1
1	0	0	1	1	0
1	0	1	0	0	0
1	0	1	0	1	1
1	0	1	1	0	0
1	0	1	1	1	0
1	1	0	0	0	0
1	1	0	0	1	X
1	1	0	1	0	0
1	1	0	1	1	1
1	1	1	0	0	0
1	1	1	0	1	1
1	1	1	1	0	0
1	1	1	1	1	1

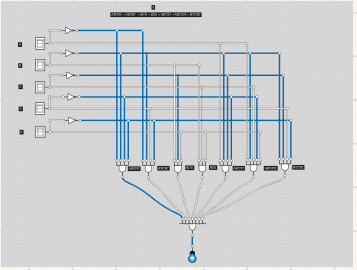


3



$f = \bar{D} + A\bar{C}D \rightarrow D \cdot [\bar{A} + C + \bar{D}]$

A	B	C	D	f
0	0	0	0	X
0	0	0	1	1
0	0	1	0	X
0	0	1	1	1
0	1	0	0	0
0	1	0	1	X
0	1	1	0	0
0	1	1	1	1
1	0	0	0	0
1	0	0	1	0
1	0	1	0	0
1	0	1	1	0
1	1	0	0	1
1	1	0	1	0
1	1	1	0	0
1	1	1	1	1



4

AB \ CDE	000	001	011	010	110	111	101	100
00	0 X	1 0	3 0	2 X	6 1	7 0	5 0	4 1
01	8 0	9 1	11 1	10 0	14 0	15 1	13 1	12 0
11	24 0	25 X	27 1	26 0	30 0	31 1	29 1	28 0
10	16 1	17 1	19 0	18 1	22 0	23 0	21 1	20 0

$\bar{A}\bar{B}\bar{C} + \bar{A}\bar{B}CE + \bar{B}\bar{C}DE + B\bar{D}\bar{E} + BD\bar{E} + A\bar{B}CD + AC\bar{D}\bar{E}$

→ convert $(A+B+C)\cdot(A+B+\bar{C}+\bar{E})\cdot(B+C+\bar{D}+\bar{E})\cdot(\bar{B}+D+E)\cdot(\bar{B}+\bar{D}+E)\cdot(\bar{A}+B+\bar{C}+\bar{D})\cdot(\bar{A}+\bar{C}+D+E)$

A	B	C	D	E	F
0	0	0	0	0	X
0	0	0	0	1	0
0	0	0	1	0	X
0	0	0	1	1	0
0	0	1	0	0	1
0	0	1	0	1	0
0	0	1	1	0	1
0	0	1	1	1	0
0	1	0	0	0	0
0	1	0	0	1	1
0	1	0	1	0	0
0	1	0	1	1	1
0	1	1	0	0	0
0	1	1	0	1	1
0	1	1	1	0	0
0	1	1	1	1	1

A	B	C	D	E	F
1	0	0	0	0	1
1	0	0	0	1	1
1	0	0	1	0	1
1	0	0	1	1	0
1	0	1	0	0	0
1	0	1	0	1	1
1	0	1	1	0	0
1	0	1	1	1	0
1	1	0	0	0	0
1	1	0	0	1	X
1	1	0	1	0	0
1	1	0	1	1	1
1	1	1	0	0	0
1	1	1	0	1	1
1	1	1	1	0	0
1	1	1	1	1	1