K Maps, Lab 9

From Truth Table To K Map

К Мар

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01

11

10

А	В	С	Υ
0	0	0	1
0	0	1	0
0	1	0	1
0	1	1	1
1	0	0	0
1	0	1	1
1	1	0	1
1	1	1	1

0

	$ar{A}ar{B}$	ĀВ	AB	$Aar{B}$
Ē	1	1	1	0
С	0	1	1	1

Truth Table

$$\bar{A}\bar{C} + B + AC$$

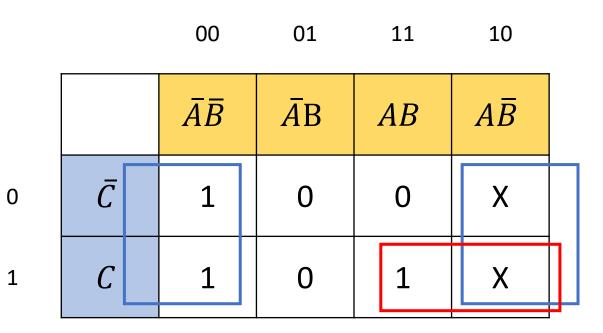
Minimize the Boolean Expression Using K Map

$$\bar{A}B + B\bar{C} + BC + A\bar{B}\bar{C}$$

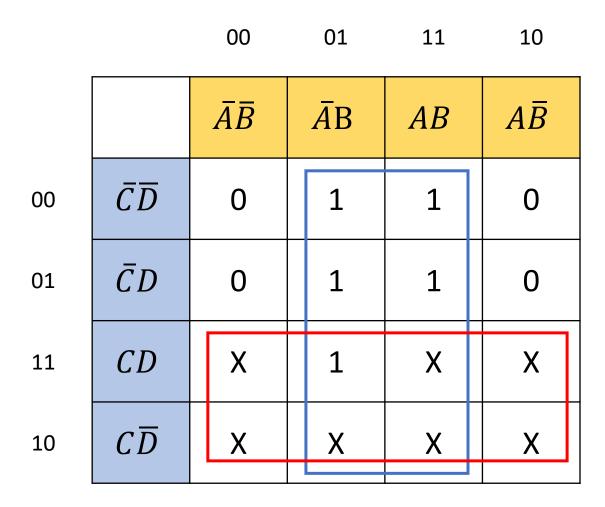
00 01 11 10

		$ar{A}ar{B}$	ĀВ	AB	$Aar{B}$
0	\bar{C}	0	1	1	1
1	С	0	1	1	0

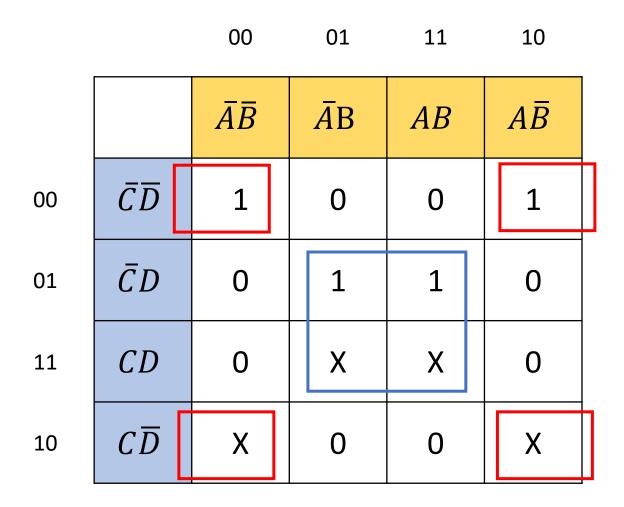
$$B + A\bar{C}$$



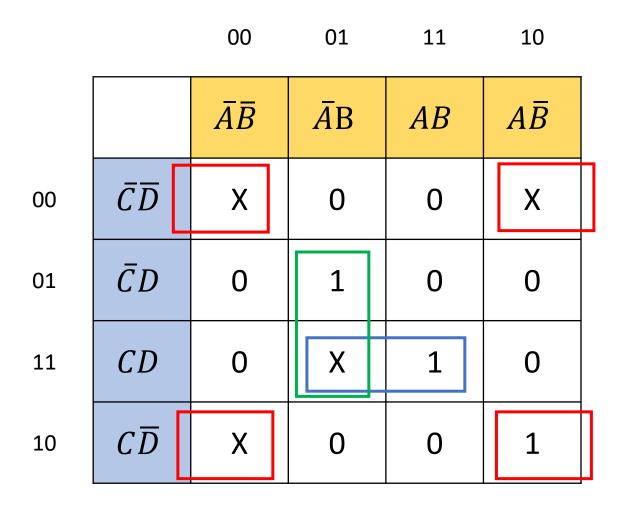
$$AC + \overline{B}$$



$$B + C$$



$$BD + \overline{B}\overline{D}$$



$$\bar{A}BD + BCD + \bar{B}\bar{D}$$