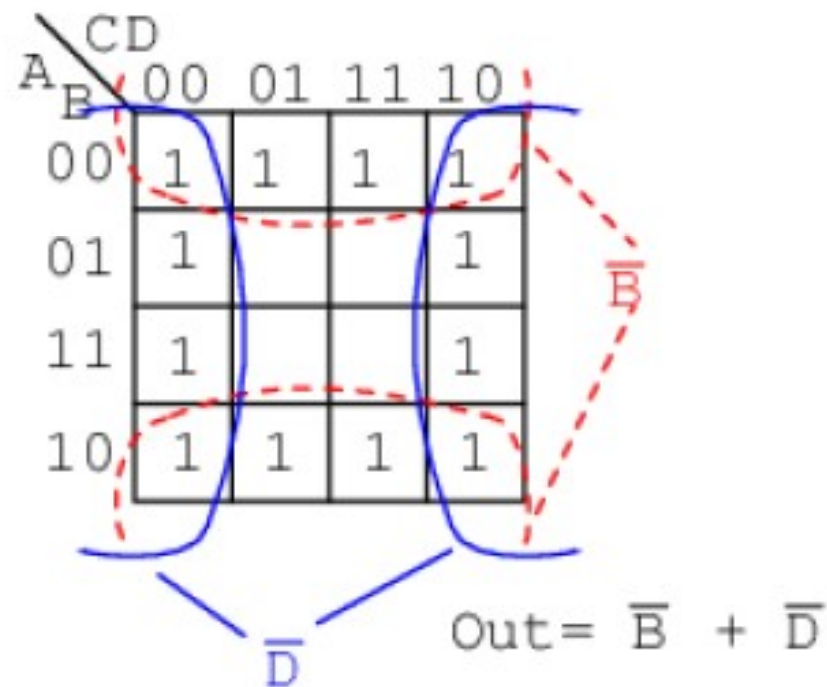


$$\text{Out} = \overline{A}\overline{B}\overline{C}\overline{D} + \overline{A}\overline{B}\overline{C}D + \overline{A}\overline{B}C\overline{D} + \overline{A}\overline{B}CD \\ + A\overline{B}\overline{C}\overline{D} + A\overline{B}\overline{C}D + A\overline{B}C\overline{D} + A\overline{B}CD$$

		CD			
		00	01	11	10
A B	00	1	1	1	1
	01				
	11				
	10	1	1	1	1

$$\text{Out} = \overline{B}$$

$$\text{Out} = \overline{A}\overline{B}\overline{C}\overline{D} + \overline{A}\overline{B}\overline{C}D + \overline{A}\overline{B}C\overline{D} + \overline{A}\overline{B}CD + \overline{B}\overline{C}\overline{D} + B\overline{C}\overline{D} + A\overline{B}\overline{C}\overline{D} + A\overline{B}D + A\overline{B}C\overline{D}$$



$$\text{Out} = \overline{A}\overline{B}\overline{C}\overline{D} + \overline{A}\overline{B}C\overline{D} + A\overline{B}\overline{C}\overline{D} + ABCD$$

		CD			
		00	01	11	10
AB	00	1			1
	01				
	11			1	
	10	1			

$$\text{Out} = \overline{B}\overline{C}\overline{D} + \overline{A}\overline{B}\overline{D} + ABCD$$

$$\text{Out} = \overline{A}\overline{B}\overline{C}\overline{D} + \overline{A}\overline{B}\overline{C}D + \overline{A}B\overline{C}D + \overline{A}BCD \\ + ABCD + ABC\overline{D} + A\overline{B}\overline{C}\overline{D} + A\overline{B}C\overline{D}$$

A \ B		CD			
		00	01	11	10
00	1	1			
01		1	1		
11			1	1	
10	1				1

$$\text{Out} = \overline{B}\overline{C}\overline{D} + \overline{A}\overline{C}D + BCD + AC\overline{D}$$

$$\text{Out} = \overline{A}\overline{B}\overline{C} + \overline{A}BD + ABC + A\overline{B}\overline{D}$$

A \ B		CD			
		00	01	11	10
00	1	1			
01		1	1		
11			1	1	
10	1				1

$$\begin{aligned}
 \text{Out} = & \overline{A}\overline{B}\overline{C}\overline{D} + \overline{A}\overline{B}\overline{C}D + \overline{A}\overline{B}C\overline{D} \\
 & + \overline{A}B\overline{C}\overline{D} + \overline{A}B\overline{C}D + \overline{A}BC\overline{D} \\
 & + AB\overline{C}\overline{D} + AB\overline{C}D + ABCD
 \end{aligned}$$

A \ B	CD			
	00	01	11	10
00	1	1	1	
01	1	1	1	
11	1	1	1	
10				

A \ B	CD			
	00	01	11	10
00	1	1	1	
01	1	1	1	
11	1	1	1	
10				

A \ B	CD			
	00	01	11	10
00	1	1	1	
01	1	1	1	
11	1	1	1	
10				

$$\text{Out} = \overline{A}\overline{C} + \overline{A}D + B\overline{C} + BD$$