

卡诺图化简

XY MN		00		01		11		10	
		0	0	0	1	1	1	1	0
0	0	1				1			
0	1			1		1			
1	1					1			
1	0	1		1		1		1	

$$F = M \bar{N} + XY + Y \bar{M} N + \bar{X} \bar{Y} \bar{N}$$