

Truth Table				
Bit 3	Bit 2	Bit 1	Bit 0	Output
0	0	0	0	0
0	0	0	1	1
0	0	1	0	0
0	0	1	1	1
0	1	0	0	0
0	1	0	1	1
0	1	1	0	1
0	1	1	1	1
1	0	0	0	0
1	0	0	1	1
1	0	1	0	1
1	0	1	1	1
1	1	0	0	0
1	1	0	1	1
1	1	1	0	1
1	1	1	1	1

		K-Map				
		b0'		b0		
b1'	0	0	1	1	b2'	
	0	0	1	1	b2	
b1	1	1	1	1	b2'	
	0	1	1	1	b2'	
		b3'	b3	b3'		

Simplified Eq: $b1 + b2 \cdot b4 + b2 \cdot b3$

3 colors overlapping: red
2 colors overlapping: green