

12/03/24

A	B	C(in)	S	$P = \cancel{\bar{A}\bar{B}C} + \cancel{\bar{A}B\bar{C}} + \cancel{A\bar{B}\bar{C}} + \cancel{A\bar{B}C} + \cancel{A\bar{B}C} + \cancel{A\bar{B}C} + \cancel{A\bar{B}C} + \cancel{A\bar{B}C}$
0	0	0	0	$\bar{A}\bar{B}C + \bar{A}B\bar{C} + A\bar{B}\bar{C} + ABC$
0	0	1	1	
0	1	0	1	$S = \bar{A}(\bar{B}C + B\bar{C}) + A(\bar{B}\bar{C} + BC)$
0	1	1	0	
1	0	0	1	$S = \bar{A}(B \oplus C) + A(\bar{B} \oplus \bar{C})$ $B \oplus C = Z$
1	0	1	0	
1	1	0	0	$S = \bar{A}Z + A\bar{Z} = A \oplus Z = A \oplus B \oplus C$
1	1	1	1	

C(in)	S	C(out)	$C(out) = \bar{A}BC + A\bar{B}C + AB\bar{C} + ABC$
0	0	0	$C(out) = C(\bar{A}B + A\bar{B}) + AB(\bar{C} + C)$
1	1	0	$C(out) = C(A \oplus B) + AB$
0	1	0	
1	0	1	
0	1	0	
1	0	1	
0	0	1	
1	1	1	

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