

NOTE: Feel free to rearrange the order of minterms if your program can handle the shuffle
Cross-checked using: [Quine-McCluskey calculator](#)

Input	DC?	Output
3-Variables		
0,5,7	NO	$A'B'C' + AC$
2,3,4	NO	$A'B + AB'C'$
0,6,7	NO	$A'B'C' + AB$
4-Variables		
[A] 0,2,3,5,6,7,8,9	NO	$A'B'D' + A'C + A'BD + AB'C'$
	YES: 10,11,12,13,14,15	$B'D' + C + BD + A$
[B] 0,1,2,3,4,7,8,9	NO	$A'B' + A'C'D' + A'CD + B'C'$
	YES: 10,11,12,13,14,15	$B' + C'D' + CD$
[C] 0,1,3,4,5,6,7,8,9	NO	$A'D + A'B + B'C'$
	YES: 10,11,12,13,14,15	$C' + D + B$
[D] 0,2,3,5,6,8,9	NO	$B'C'D' + A'B'C + A'BC'D + A'CD' + AB'C'$
	YES: 10,11,12,13,14,15	$B'D' + B'C + BC'D + CD' + A$
[E] 0,2,6,8	NO	$A'CD' + B'C'D'$
	YES: 10,11,12,13,14,15	$B'D' + CD'$
[F] 0,4,5,6,8,9	NO	$A'C'D' + A'BC' + A'BD' + AB'C'$
	YES: 10,11,12,13,14,15	$C'D' + BC' + BD' + A$
[G] 2,3,4,5,6,8,9	NO	$A'CD' + A'B'C + A'BC' + AB'C'$
	YES: 10,11,12,13,14,15	$BD' + B'C + BC' + A$
10,11,12,13,14,15	NO	$AC + AB$
5 onwards		
20, 28, 52, 60	NO	$BDE'F'$
6, 9, 13, 18, 19, 25, 27, 29, 41, 45, 57, 61	NO	$A'BD'EF + A'B'C'DEF' + CE'F + A'BC'D'E$
1, 3, 5, 7, 9, 11, 13, 15, 17, 19, 21	NO	$A'E + B'C'E + B'D'E$
0, 3, 5, 7, 10, 12, 14, 16, 18, 20	NO	$B'C'D'E' + A'B'DE + A'B'CE + A'BDE' + A'BCE' + AB'C'E' + AB'D'E'$
	YES: 1, 2, 4, 6, 8, 9, 11, 13, 15, 17, 19, 21, 22, 23	$A' + B'$
0, 2, 4, 8, 16, 32, 64, 128, 256, 512	NO	$A'B'C'D'E'F'G'H'J' + A'B'C'D'E'F'G'I'J' + A'B'C'D'E'F'H'I'J' + A'B'C'D'E'G'H'I'J' + A'B'C'D'F'G'H'I'J' + A'B'C'E'F'G'H'I'J' + A'B'D'E'F'G'H'I'J' + A'C'D'E'F'G'H'I'J' + B'C'D'E'F'G'H'I'J'$
	YES 1, 3, 5, 7, 9, 11, 13, 15, 17, 19	$A'B'C'D'E'F'G'H' + A'B'C'D'E'F'G'I' + A'B'C'D'E'F'H'I' + A'B'C'D'E'G'H'I' + A'B'C'D'F'G'H'I'J' + A'B'C'E'F'G'H'I'J' + A'B'D'E'F'G'H'I'J' + A'C'D'E'F'G'H'I'J' + B'C'D'E'F'G'H'I'J'$
0, 2, 4, 8, 16, 32, 64, 128, 256, 512, 1024	NO	$A'B'C'D'E'F'G'H'I'K' + A'B'C'D'E'F'G'H'J'K' + A'B'C'D'E'F'G'I'J'K' + A'B'C'D'E'F'H'I'J'K' + A'B'C'D'E'G'H'I'J'K' + A'B'C'D'F'G'H'I'J'K' + A'B'C'E'F'G'H'I'J'K' + A'B'D'E'F'G'H'I'J'K' + A'C'D'E'F'G'H'I'J'K' + B'C'D'E'F'G'H'I'J'K'$
	YES 1, 3, 5, 7, 9, 11, 13, 15, 17, 19, 21	$A'B'C'D'E'F'G'H'I' + A'B'C'D'E'F'G'H'J' + A'B'C'D'E'F'G'I'J' + A'B'C'D'E'F'H'I'J' + A'B'C'D'E'G'H'I'J'K' + A'B'C'D'F'G'H'I'J'K' + A'B'C'E'F'G'H'I'J'K' + A'B'D'E'F'G'H'I'J'K' + A'C'D'E'F'G'H'I'J'K' + B'C'D'E'F'G'H'I'J'K'$
0, 2, 5, 8, 10, 16, 18, 20, 24, 26, 32	NO	$A'D'F' + A'B'C'DE'F + A'BC'E'F' + B'C'D'E'F'$
	YES 1, 3, 6, 9, 11, 14, 17, 19, 22, 25, 31	$A'B'C'E'F + A'BC'F' + A'D'F' + B'C'D'E'F'$