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SUM of PRODUCTS

Map

	$\overline{D}.\overline{E}.\overline{F}$	$\overline{D}.\overline{E}.F$	$\overline{D}.E.F$	$\overline{D}.E.\overline{F}$	$D.\overline{E}.\overline{F}$	$D.\overline{E}.F$	$D.E.F$	$D.E.\overline{F}$
$\overline{A}.\overline{B}.\overline{C}$	x	x	x	x	x	x	x	x
$\overline{A}.\overline{B}.C$	x	x	x	x	x	x	x	x
$\overline{A}.B.C$	x	x	x	x	x	x	x	x
$\overline{A}.B.\overline{C}$	x	x	x	x	x	x	x	x
$A.\overline{B}.\overline{C}$	0	0	0	0	1	0	x	0
$A.\overline{B}.C$	x	x	1	1	x	x	x	x
$A.B.C$	x	x	x	x	x	x	x	x
$A.B.\overline{C}$	x	x	x	x	x	x	x	x

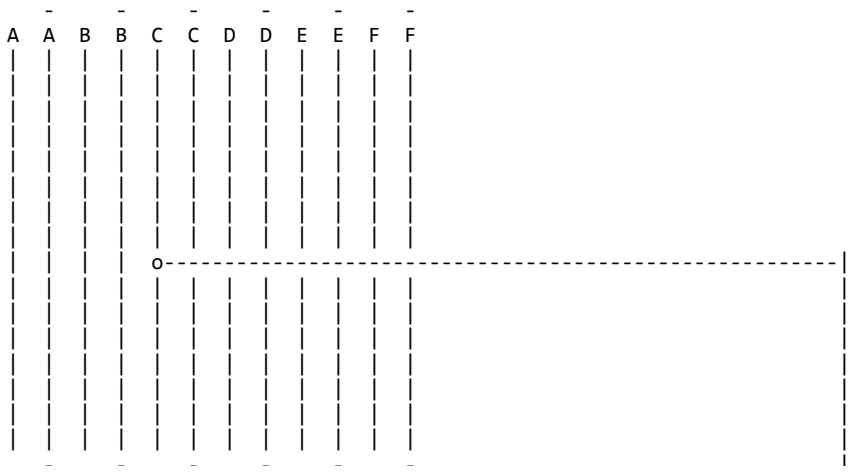
Map Layout

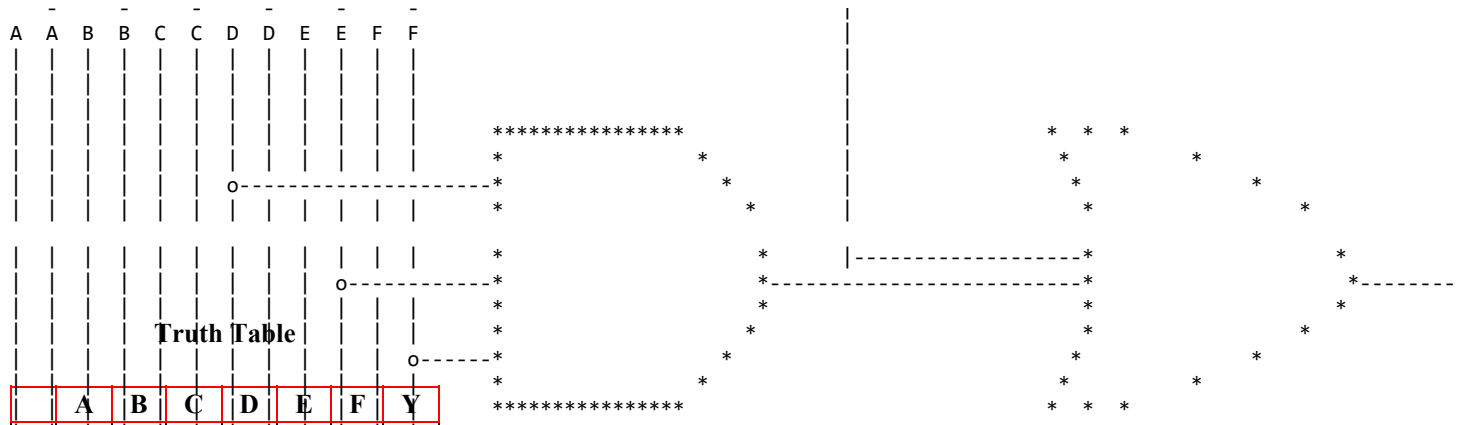
	$\overline{D}.\overline{E}.\overline{F}$	$\overline{D}.\overline{E}.F$	$\overline{D}.E.F$	$\overline{D}.E.\overline{F}$	$D.\overline{E}.\overline{F}$	$D.\overline{E}.F$	$D.E.F$	$D.E.\overline{F}$
$\overline{A}.\overline{B}.\overline{C}$	0	1	3	2	4	5	7	6
$\overline{A}.\overline{B}.C$	8	9	11	10	12	13	15	14
$\overline{A}.B.C$	24	25	27	26	28	29	31	30
$\overline{A}.B.\overline{C}$	16	17	19	18	20	21	23	22
$A.\overline{B}.\overline{C}$	32	33	35	34	36	37	39	38
$A.\overline{B}.C$	40	41	43	42	44	45	47	46
$A.B.C$	56	57	59	58	60	61	63	62
$A.B.\overline{C}$	48	49	51	50	52	53	55	54

Groups

(8,9,10,11,12,13,14,15,24,25,26,27,28,29,30,31,40,41,42,43,44,45,46,47,56,57,58,59,60,61,62,63)	C
(4,12,20,28,36,44,52,60)	$D.\overline{E}.\overline{F}$

$y = C + D.\overline{E}.\overline{F}$





Truth Table

	A	B	C	D	E	F	Y
0	0	0	0	0	0	0	x
1	0	0	0	0	0	1	x
2	0	0	0	0	1	0	x
3	0	0	0	0	1	1	x
4	0	0	0	1	0	0	x
5	0	0	0	1	0	1	x
6	0	0	0	1	1	0	x
7	0	0	0	1	1	1	x
8	0	0	1	0	0	0	x
9	0	0	1	0	0	1	x
10	0	0	1	0	1	0	x
11	0	0	1	0	1	1	x
12	0	0	1	1	0	0	x
13	0	0	1	1	0	1	x
14	0	0	1	1	1	0	x
15	0	0	1	1	1	1	x
16	0	1	0	0	0	0	x
17	0	1	0	0	0	1	x
18	0	1	0	0	1	0	x
19	0	1	0	0	1	1	x
20	0	1	0	1	0	0	x
21	0	1	0	1	0	1	x
22	0	1	0	1	1	0	x
23	0	1	0	1	1	1	x
24	0	1	1	0	0	0	x
25	0	1	1	0	0	1	x
26	0	1	1	0	1	0	x
27	0	1	1	0	1	1	x
28	0	1	1	1	0	0	x
29	0	1	1	1	0	1	x
30	0	1	1	1	1	0	x
31	0	1	1	1	1	1	x
32	1	0	0	0	0	0	0
33	1	0	0	0	0	1	0
34	1	0	0	0	1	0	0
35	1	0	0	0	1	1	0
36	1	0	0	1	0	0	1
37	1	0	0	1	0	1	0
38	1	0	0	1	1	0	0

39	1	0	0	1	1	1	x
40	1	0	1	0	0	0	x
41	1	0	1	0	0	1	x
42	1	0	1	0	1	0	1
43	1	0	1	0	1	1	1
44	1	0	1	1	0	0	x
45	1	0	1	1	0	1	x
46	1	0	1	1	1	0	x
47	1	0	1	1	1	1	x
48	1	1	0	0	0	0	x
49	1	1	0	0	0	1	x
50	1	1	0	0	1	0	x
51	1	1	0	0	1	1	x
52	1	1	0	1	0	0	x
53	1	1	0	1	0	1	x
54	1	1	0	1	1	0	x
55	1	1	0	1	1	1	x
56	1	1	1	0	0	0	x
57	1	1	1	0	0	1	x
58	1	1	1	0	1	0	x
59	1	1	1	0	1	1	x
60	1	1	1	1	0	0	x
61	1	1	1	1	0	1	x
62	1	1	1	1	1	0	x
63	1	1	1	1	1	1	x

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