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SUM of PRODUCTS

Map

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

(0,8,16,24,32,40,48,56)	$\overline{D}.\overline{E}.\overline{F}$
(8,9,10,11,40,41,42,43)	$\overline{B}.C.\overline{D}$
(24,26,28,30,56,58,60,62)	$B.C.\overline{F}$
(0,1,4,5)	$\overline{A}.\overline{B}.\overline{C}.\overline{E}$
(1,3,17,19)	$\overline{A}.\overline{C}.\overline{D}.F$
(1,5,9,13)	$\overline{A}.\overline{B}.\overline{E}.F$

| (6,7,22,23) | $\overline{A}.\overline{C}.D.E$ |

$y = D'E'F' + B'CD' + BCF' + A'B'C'E' + A'C'D'F + A'B'E'F + A'C'DE$

A $\overline{A}$ B $\overline{B}$ C $\overline{C}$ D $\overline{D}$ E $\overline{E}$ F $\overline{F}$

Addresses

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<u>Addresses</u>

Truth Table

	A	B	C	D	E	F	Y
0	0	0	0	0	0	0	1
1	0	0	0	0	0	1	1
2	0	0	0	0	1	0	0
3	0	0	0	0	1	1	1
4	0	0	0	1	0	0	1
5	0	0	0	1	0	1	1
6	0	0	0	1	1	0	1
7	0	0	0	1	1	1	1
8	0	0	1	0	0	0	1
9	0	0	1	0	0	1	1
10	0	0	1	0	1	0	1
11	0	0	1	0	1	1	1
12	0	0	1	1	0	0	0
13	0	0	1	1	0	1	1
14	0	0	1	1	1	0	0
15	0	0	1	1	1	1	0
16	0	1	0	0	0	0	1
17	0	1	0	0	0	1	1
18	0	1	0	0	1	0	0
19	0	1	0	0	1	1	1
20	0	1	0	1	0	0	0
21	0	1	0	1	0	1	0
22	0	1	0	1	1	0	1
23	0	1	0	1	1	1	1

24	0	1	1	0	0	0	1
25	0	1	1	0	0	1	0
26	0	1	1	0	1	0	1
27	0	1	1	0	1	1	0
28	0	1	1	1	0	0	1
29	0	1	1	1	0	1	0
30	0	1	1	1	1	0	1
31	0	1	1	1	1	1	0
32	1	0	0	0	0	0	1
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	0
37	1	0	0	1	0	1	0
38	1	0	0	1	1	0	0
39	1	0	0	1	1	1	0
40	1	0	1	0	0	0	x
41	1	0	1	0	0	1	x
42	1	0	1	0	1	0	x
43	1	0	1	0	1	1	x
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

Addresses

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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Addresses