

SUM of PRODUCTS

Map

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

Map Layout

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

Groups

(13,29,45,61)	$C.D.\overline{E.F}$
(11,43)	$\overline{B.C.D.E.F}$
(18,50)	$B.\overline{C.D.E.F}$

$y = CDE'F + B'CD'EF + BC'D'EF'$

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

www.
32x8
.com

Address
 $A \bar{A} B \bar{B} C \bar{C} D \bar{D} E \bar{E} F \bar{F}$

www.
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.com



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

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Truth Table

	A	B	C	D	E	F	Y
0	0	0	0	0	0	0	0
1	0	0	0	0	0	1	0
2	0	0	0	0	1	0	0
3	0	0	0	0	1	1	0
4	0	0	0	1	0	0	0
5	0	0	0	1	0	1	0
6	0	0	0	1	1	0	0
7	0	0	0	1	1	1	0
8	0	0	1	0	0	0	0
9	0	0	1	0	0	1	0
10	0	0	1	0	1	0	0
11	0	0	1	0	1	1	1
12	0	0	1	1	0	0	0
13	0	0	1	1	0	1	1

Addresses	14	0	0	1	1	1	0	0
	15	0	0	1	1	1	1	0
	16	0	1	0	0	0	0	0
	17	0	1	0	0	0	1	0
	18	0	1	0	0	1	0	1
	19	0	1	0	0	1	1	0
	20	0	1	0	1	0	0	0
	21	0	1	0	1	0	1	0
	22	0	1	0	1	1	0	0
	23	0	1	0	1	1	1	0
	24	0	1	1	0	0	0	0
	25	0	1	1	0	0	1	0
	26	0	1	1	0	1	0	0
	27	0	1	1	0	1	1	0
	28	0	1	1	1	0	0	0
	29	0	1	1	1	0	1	1
	30	0	1	1	1	1	0	0
	31	0	1	1	1	1	1	0
	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	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
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

Addresses

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