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$\underline{SUM\ of\ PRODUCTS}$

Map

Ad	ldresses								
		$\overline{D}.\overline{E}.\overline{F}$	$\overline{\mathrm{D}}.\overline{\mathrm{E}}.\mathrm{F}$	$\overline{\mathrm{D}}.\mathrm{E.F}$	$\overline{\mathrm{D}}.\mathrm{E}.\overline{\mathrm{F}}$	$D.\overline{E}.\overline{F}$	D.E.F	D.E.F	$D.E.\overline{F}$
	$\overline{A}.\overline{B}.\overline{C}$	1	0	0	1	0	0	0	1
	$\overline{A}.\overline{B}.C$	1	0	0	1	1	0	0	1
	\overline{A} .B.C	1	1	1	0	0	0	1	1
	\overline{A} .B. \overline{C}	1	1	1	0	1	1	1	1
	$A.\overline{B}.\overline{C}$	1	0	1	0	1	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

	$\overline{D}.\overline{E}.\overline{F}$	$\overline{D}.\overline{E}.F$	D.E.F	$\overline{\mathrm{D}}.\mathrm{E}.\overline{\mathrm{F}}$	$D.\overline{E}.\overline{F}$	D.Ē.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)	$\overline{\mathrm{D}}.\overline{\mathrm{E}}.\overline{\mathrm{F}}$
(8,10,12,14,40,42,44,46)	$\overline{\mathrm{B}}.\mathrm{C}.\overline{\mathrm{F}}$
(16,17,20,21,48,49,52,53)	$B.\overline{C}.\overline{E}$
(17,19,25,27,49,51,57,59)	B.D.F
(22,23,30,31,54,55,62,63)	B.D.E
(32,36,40,44,48,52,56,60)	$A.\overline{E}.\overline{F}$

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(2,6,10,14)	$\overline{A}.\overline{B}.E.\overline{F}$
(35,43,51,59)	$A.\overline{D}.E.F$

y = D'E'F' + B'CF' + BC'E' + BD'F + BDE + AE'F' + A'B'EF' + AD'EF

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

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Addresses

Truth Table

	A	В	C	D	E	F	Y
0	0	0	0	0	0	0	1
1	0	0	0	0	0	1	0
2	0	0	0	0	1	0	1
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	1
7	0	0	0	1	1	1	0
8	0	0	1	0	0	0	1
9	0	0	1	0	0	1	0
10	0	0	1	0	1	0	1
11	0	0	1	0	1	1	0
12	0	0	1	1	0	0	1
13	0	0	1	1	0	1	0
14	0	0	1	1	1	0	1
15	0	0	1	1	1	1	0
16	0	1	0	0	0	0	1

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	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	1
	21	0	1	0	1	0	1	1
	22	0	1	0	1	1	0	1
Αċ	23 dress	0	1	0	1	1	1	1
110	24	0	1	1	0	0	0	1
	25	0	1	1	0	0	1	1
	26	0	1	1	0	1	0	0
	27	0	1	1	0	1	1	1
	28	0	1	1	1	0	0	0
	29	0	1	1	1	0	1	0
	30	0	1	1	1	1	0	1
	31	0	1	1	1	1	1	1
	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	1
	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	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

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	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
Ad	59 dress	1 es	1	1	0	1	1	X
<u> </u>	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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