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SUM of PRODUCTS

Map

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

	$\overline{D}.\overline{E}.\overline{F}$	$\overline{D}.\overline{E}.F$	D.E.F	$\overline{\mathrm{D}}.\mathrm{E}.\overline{\mathrm{F}}$	$D.\overline{E}.\overline{F}$	$D.\overline{E}.F$	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

(33,35,41,43,49,51,57,59)	A.D.F
(34,35,42,43,50,51,58,59)	A.D.E
(20,22,52,54)	$B.\overline{C}.D.\overline{F}$
(31,63)	B.C.D.E.F

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$$y = AD'F + AD'E + BC'DF' + BCDEF$$

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

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Addresses

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

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

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Truth Table

	A	В	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

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	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	0
Αċ	12 dress	0	0	1	1	0	0	0
110	13	0	0	1	1	0	1	0
	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	0
	19	0	1	0	0	1	1	0
	20	0	1	0	1	0	0	1
	21	0	1	0	1	0	1	0
	22	0	1	0	1	1	0	1
	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	0
	30	0	1	1	1	1	0	0
	31	0	1	1	1	1	1	1
	32	1	0	0	0	0	0	0
	33	1	0	0	0	0	1	1
	34	1	0	0	0	1	0	1
	35	1	0	0	0	1	1	1
	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

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	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
Αċ	48 dress	1 es	1	0	0	0	0	X
-14	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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