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SUM of PRODUCTS

Map

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

	$\overline{D}.\overline{E}.\overline{F}$	$\overline{D}.\overline{E}.F$	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)	D.E.F
(8,9,10,11,40,41,42,43)	$\overline{\mathrm{B}}.\mathrm{C}.\overline{\mathrm{D}}$
(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)	$\overline{A}.\overline{B}.\overline{E}.F$

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

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

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

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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	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

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25		24	0	1	1	0	0	0	1
27		25	0	1	1	0	0	1	0
28 0 1 1 1 0 0 1 29 0 1 1 1 1 0 0 1 31 0 1 1 1 1 1 0 1 32 1 0 0 0 0 0 0 1 33 1 0 0 0 0 0 0 1 0 34 1 0 0 0 0 1 0 0 35 1 0 0 0 1 1 0 0 36 1 0 0 1 1 0 0 0 37 1 0 0 1 1 0 0 0 38 1 0 0 1 1 0 0 0 0 38 1 0 0 1 1 1 0 0 0 38 1 0 0 1 1 0 0 0 0 39 1 0 0 1 1 0 0 0 39 1 0 0 1 1 0 0 0 40 1 0 1 0 0 0 0 0 41 1 0 0 0 0 0 0 0 41 1 0 0 0 0 0 0 0 42 1 0 0 0 0 0 0 0 44 1 0 1 0 1 0 0 0 0 0 45 1 0 0 0 0 0 0 0 0 46 1 0 0 1 0 0 0 0 0 0 47 1 0 0 1 0 0 0 0 0 0 48 1 1 0 1 0 0 0 0 0 0 0 49 1 1 0 1 0 0 0 0 0 0 40 1 0 1 0 1 0 0 0 0 0 40 1 0 1 1 1 0 0 0 0 0 40 1 0 1 1 1 0 0 0 0 0 40 1 0 1 1 1 0 0 0 0 0 0 40 1 0 1 1 1 1 0 0 0 0 0 40 1 0 1 1 1 1 1 0 0 0 0 40 1 0 1 1 1 1 1 1 0 0 0 40 1 0 1 1 1 1 1 1 0 0 0 40 1 0 1 1 1 1 1 1 1 0 0 0 40 1 0 1 1 1 1 1 1 1 1 0 0 40 1 0 1 1 1 1 1 1 1 1 1 0 0 40 1 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		26	0	1	1	0	1	0	1
29		27	0	1	1	0	1	1	0
Ad		28	0	1	1	1	0	0	1
31 0 1 1 1 1 1 0 0 0 0 0 0 0 1 0 0 0 0 1 0 0 0 1 0 0 1 0 0 1 0 0 1 0 0 0 1 0		29	0	1	1	1	0	1	0
31 0 1 1 1 1 1 0 0 0 0 0 1 0 0 0 0 1 0 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 0 1 0 0 0 1 0 0 0 1 1 0	Ad	30	$_{\rm es}0$	1	1	1	1	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 0 0 40 1 0 1 0 0 0 x 41 1 0 1 0 0 0 x 42 1 0 1 0 1 1 x 44 1 0 1 1 0 0 x 45 1 0 1 1 1 1 <		31	0	1	1	1	1	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 0 x 41 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 1 1 x 46 1 0 1 1 1 x 49 </td <td></td> <td>32</td> <td>1</td> <td>0</td> <td>0</td> <td>0</td> <td>0</td> <td>0</td> <td>1</td>		32	1	0	0	0	0	0	1
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 0 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 1 0 x 47 1 0 1 1 1 1 <		33	1	0	0	0	0	1	0
36 1 0 0 1 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 0 x 41 1 0 1 0 1 0 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 1 0 x 47 1 0 1 1 1 1 x 48 1 1 0 0 0 0 x 51 </td <td></td> <td>34</td> <td>1</td> <td>0</td> <td>0</td> <td>0</td> <td>1</td> <td>0</td> <td>0</td>		34	1	0	0	0	1	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 0 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 1 0 0 x 45 1 0 1 1 1 0 0 x 47 1 0 1 1 1 1 x 48 1 1 0 0 0 0 x 51 1 1 0 0 1 1		35	1	0	0	0	1	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 0 x 45 1 0 1 1 1 0 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 51 1 1 0 0 1 x 52 </td <td></td> <td>36</td> <td>1</td> <td>0</td> <td>0</td> <td>1</td> <td>0</td> <td>0</td> <td>0</td>		36	1	0	0	1	0	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 0 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 1 x 50 1 1 0 0 1 x 51 1 1 0 1 0 x 53 1 1 </td <td></td> <td>37</td> <td>1</td> <td>0</td> <td>0</td> <td>1</td> <td>0</td> <td>1</td> <td>0</td>		37	1	0	0	1	0	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 0 x 48 1 1 0 0 0 0 x 49 1 1 0 0 0 1 x 50 1 1 0 0 1 x 51 1 1 0 0 1 x 52 1 1 0 1 0 x 53 1 1 </td <td></td> <td>38</td> <td>1</td> <td>0</td> <td>0</td> <td>1</td> <td>1</td> <td>0</td> <td>0</td>		38	1	0	0	1	1	0	0
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 0 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 1 0 x <t< td=""><td></td><td>39</td><td>1</td><td>0</td><td>0</td><td>1</td><td>1</td><td>1</td><td>0</td></t<>		39	1	0	0	1	1	1	0
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 x 53 1 1 0 1 1 x 54 1 1 0 1 1 x 55 1 1 </td <td></td> <td>40</td> <td>1</td> <td>0</td> <td>1</td> <td>0</td> <td>0</td> <td>0</td> <td>X</td>		40	1	0	1	0	0	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 x 51 1 1 0 0 1 1 x 52 1 1 0 1 0 0 x 53 1 1 0 1 1 x 54 1 1 0 1 1 x 55 1 1 0 1 1 x 56 1 1 1 </td <td></td> <td>41</td> <td>1</td> <td>0</td> <td>1</td> <td>0</td> <td>0</td> <td>1</td> <td>X</td>		41	1	0	1	0	0	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 1 0 x 54 1 1 0 1 1 1 x 55 1 1 0 1 1 x 56 1 1 1 0 0 1 x 56 </td <td></td> <td>42</td> <td>1</td> <td>0</td> <td>1</td> <td>0</td> <td>1</td> <td>0</td> <td>X</td>		42	1	0	1	0	1	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 x 56 1 1 1 0 0 0 x 57 1 1 1 0 1 0 0 0 x		43	1	0	1	0	1	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 1 0 0 0 x 58 1 1 1 0 0 1		44	1	0	1	1	0	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 1 x 57 1 1 1 0 1 0 x 58 1 1 1 0 1 0 x		45	1	0	1	1	0	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 1 0 x 58 1 1 1 0 1 0 x		46	1	0	1	1	1	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		47	1	0	1	1	1	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		48	1	1	0	0	0	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		49	1	1	0	0	0	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		50	1	1	0	0	1	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		51	1	1	0	0	1	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		52	1	1	0	1	0	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		53	1	1	0	1	0	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		54	1	1	0	1	1	0	X
57 1 1 1 0 0 1 x 58 1 1 1 0 1 0 x		55	1	1	0	1	1	1	X
58 1 1 1 0 1 0 x		56	1	1	1	0	0	0	X
		57	1	1	1	0	0	1	X
59 1 1 1 0 1 1 x		58	1	1	1	0	1	0	X
		59	1	1	1	0	1	1	X

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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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