

SUM of PRODUCTS

Map

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

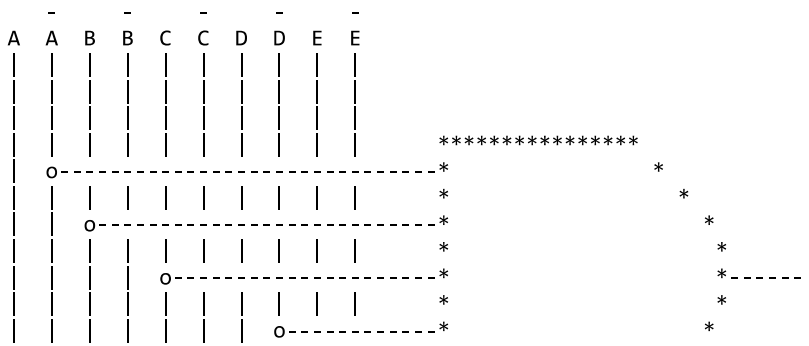
Map Layout

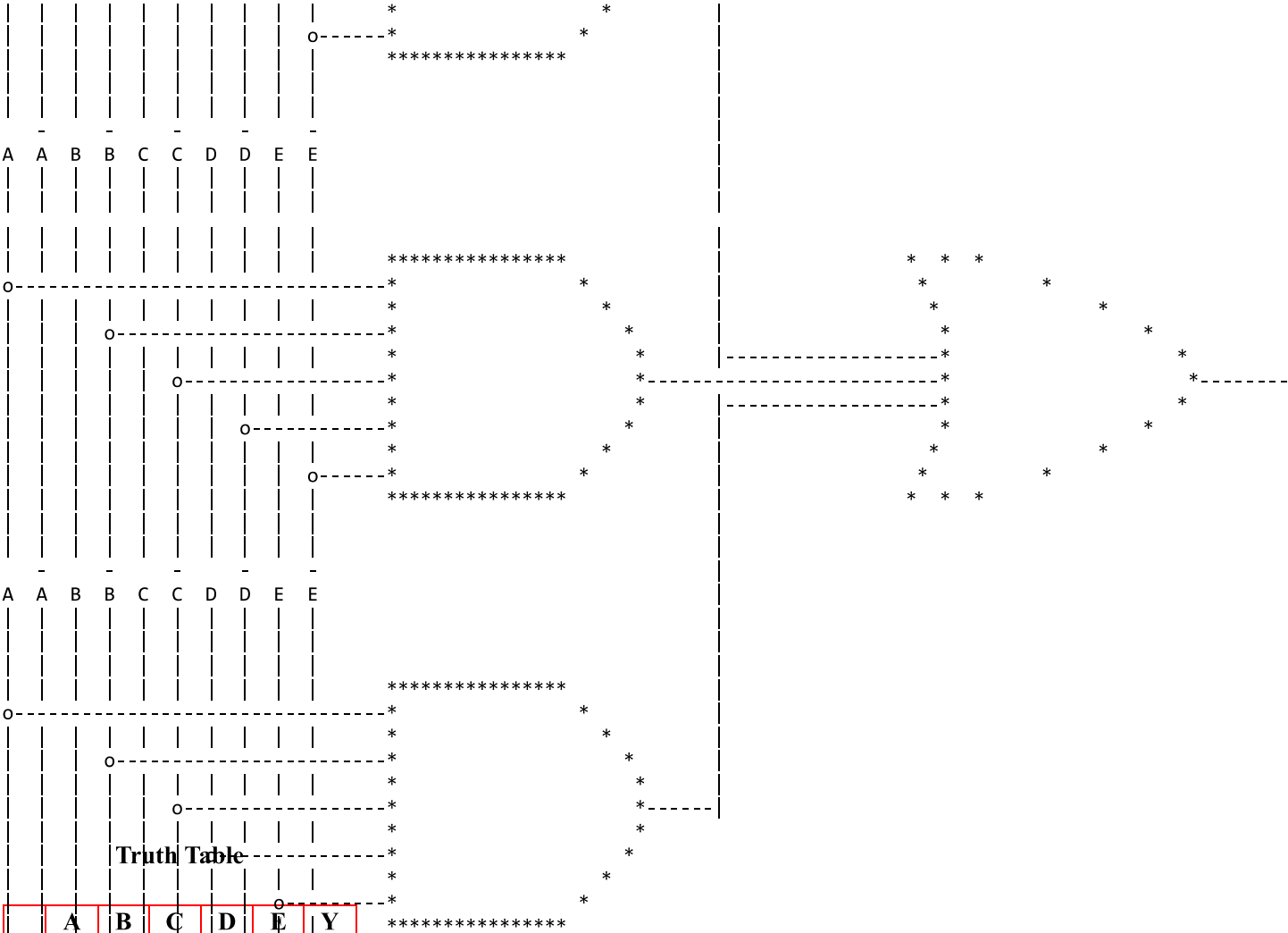
	$\overline{D}.\overline{E}$	$\overline{D}.E$	$D.E$	$D.\overline{E}$
$\overline{A}.\overline{B}.\overline{C}$	0	1	3	2
$\overline{A}.\overline{B}.C$	4	5	7	6
$\overline{A}.B.C$	12	13	15	14
$\overline{A}.B.\overline{C}$	8	9	11	10
$A.\overline{B}.\overline{C}$	16	17	19	18
$A.\overline{B}.C$	20	21	23	22
$A.B.C$	28	29	31	30
$A.B.\overline{C}$	24	25	27	26

Groups

(12)	$\overline{A}.B.C.\overline{D}.\overline{E}$
(16)	$A.\overline{B}.\overline{C}.\overline{D}.\overline{E}$
(19)	$A.\overline{B}.\overline{C}.D.E$

$$y = \overline{A}.B.C.\overline{D}.\overline{E} + A.\overline{B}.\overline{C}.\overline{D}.\overline{E} + A.\overline{B}.\overline{C}.D.E$$





Truth Table

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

22	1	0	1	1	0	0
23	1	0	1	1	1	0
24	1	1	0	0	0	0
25	1	1	0	0	1	0
26	1	1	0	1	0	0
27	1	1	0	1	1	0
28	1	1	1	0	0	0
29	1	1	1	0	1	0
30	1	1	1	1	0	0
31	1	1	1	1	1	0

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