1. PLA1 (4 個輸入)

.i 4
.0 1
.ilb a b c d
.ob F
.p 8
0000 1
0011 1
0110 1
1100 1
0101 1
1010 1
1001 1
1111 1
.e

表格化簡:

id	variable	elseEdge	thenEdge	comment
0	0	-1	-1	Boolean 0
1	a	2	3	
2	b	4	5	
3	b	6	7	
4	c	8	9	
5	c	9	8	
6	c	9	8	
7	c	8	9	
8	d	16	0	
9	d	0	16	
10	d	0	16	redundant
11	d	16	0	redundant
12	d	0	16	redundant
13	d	16	0	redundant
14	d	16	0	redundant
15	d	0	16	redundant
16	1	-1	-1	Boolean 1

id	variable	elseEdge	thenEdge	comment
0	0	-1	-1	Boolean 0
1	a	2	3	
2	b	4	5	l
3	b	5	4	l
4	c	8	9	l
5	c	9	8	l
6		9	8	redundant
7		8	9	redundant
8	d	16	0	l
9	d	0	16	l
10	d	0	16	redundant
11	d	16	0	redundant
12	d	0	16	redundant
13	d	16	0	redundant
14	d	16	0	redundant
15	d	0	16	redundant
16	1	-1	-1	Boolean 1

DOT 檔案:

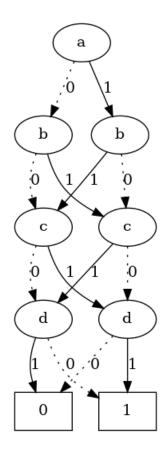
```
digraph BDD {
          {rank=same 1 }
          {rank=same 2 3 }
          {rank=same 4 5 }
          {rank=same 8 9 }

          0 [label="0", shape=box]
          1 [label="a"]
          2 [label="b"]
          3 [label="b"]
          4 [label="c"]
          5 [label="c"]
          8 [label="d"]
```

```
9 [label="d"]
16 [label="1", shape=box]
1 -> 2 [label="0", style=dotted]
1 -> 3 [label="1", style=solid]
2 -> 4 [label="0", style=dotted]
2 -> 5 [label="1", style=solid]
3 -> 5 [label="0", style=dotted]
3 -> 4 [label="1", style=solid]
4 -> 8 [label="0", style=dotted]
4 -> 9 [label="1", style=solid]
5 -> 9 [label="0", style=dotted]
5 -> 8 [label="1", style=solid]
8 \rightarrow 16 [label="0", style=dotted]
8 -> 0 [label="1", style=solid]
9 -> 0 [label="0", style=dotted]
9 -> 16 [label="1", style=solid]
```

結果圖檔:

}



2. PLA2 (5 個輸入)

.i 5
.o 1
.ilb a b c d e
.ob F
.p 4
1-1-1 1
-0-0- 1
0-0-0 1
-1-1- 1
.e

表格化簡:

١	id	variable	elseEdge	thenEdge	comment
١					
١	0	0	-1	-1	Boolean 0
١	1	a	2	3	
١	2	b	4	5	
١	3	Ь	6	7	
	4	c	8	9	
	5	С	10	11	
	6	С	12	13	
	7	С	14	15	
	8	d	32	17	
	9	d	32	0	
	10	d	17	32	
	11	d	0	32	
	12	d	32	0	
	13	d	32	27	
	14	d	0	32	
	15	d	27	32	
	16	е	32	32	redundant
	17	e	32	0	
	18	е	32	32	redundant
	19	е	0	0	redundant
	20	е	32	0	redundant
	21	е	32	32	redundant
	22	е	0	0	redundant
	23	е	32	32	redundant
	24	е	32	32	redundant
	25	е	0	0	redundant
	26	е	32	32	redundant
	27	e	0	32	
	28	е	0	0	redundant
	29	е	32	32	redundant
	30	е	0	32	redundant
	31	e	32	32	redundant
	32	1 1	-1	-1	Boolean 1

ļ	id	variable	elseEdge	thenEdge	comment
- 	0	 0	 -1	 -1	 Boolean 0
-	1	a	2	3	
	2	b	4	5	
-	3	b	6	7	
-	4	c	8	9	
	5	c	10	11	
	6	c	9	13	
	7	c	11	15	
	8	l d	32	17	
	9	d	32	0	
	10	d	17	32	
	11	d	0	32	
	12	d	32	0	redundant
	13	d	32	27	
	14	d	0	32	redundant
	15	d	27	32	
	16	е	32	32	redundant
	17	e	32	0	
	18	е	32	32	redundant
	19	е	0	0	redundant
	20	е	32	0	redundant
	21	е	32	32	redundant
	22	е	0	0	redundant
	23	е	32	32	redundant
	24	е	32	32	redundant
	25	е	0	0	redundant
	26	е	32	32	redundant
	27	e	0	32	
	28	е	0	0	redundant
	29	e	32	32	redundant
	30	e	0	32	redundant
	31	e	32	32	redundant
I	32	1 1	-1	-1	Boolean 1

DOT 檔案:

```
digraph BDD {
    {rank=same 1 }
    {rank=same 2 3 }
    {rank=same 4 5 6 7 }
    {rank=same 8 9 10 11 13 15 }
    \{ rank = same 17 27 \}
    0 [label="0", shape=box]
    1 [label="a"]
    2 [label="b"]
    3 [label="b"]
    4 [label="c"]
    5 [label="c"]
    6 [label="c"]
    7 [label="c"]
    8 [label="d"]
    9 [label="d"]
    10 [label="d"]
    11 [label="d"]
    13 [label="d"]
    15 [label="d"]
    17 [label="e"]
    27 [label="e"]
    32 [label="1", shape=box]
    1 -> 2 [label="0", style=dotted]
    1 -> 3 [label="1", style=solid]
    2 -> 4 [label="0", style=dotted]
    2 -> 5 [label="1", style=solid]
    3 -> 6 [label="0", style=dotted]
    3 -> 7 [label="1", style=solid]
    4 -> 8 [label="0", style=dotted]
    4 -> 9 [label="1", style=solid]
    5 -> 10 [label="0", style=dotted]
    5 -> 11 [label="1", style=solid]
    6 -> 9 [label="0", style=dotted]
```

```
6 -> 13 [label="1", style=solid]
7 -> 11 [label="0", style=dotted]
7 -> 15 [label="1", style=solid]
8 -> 32 [label="0", style=dotted]
8 -> 17 [label="1", style=solid]
9 -> 32 [label="0", style=dotted]
9 -> 0 [label="1", style=solid]
10 -> 17 [label="0", style=dotted]
10 -> 32 [label="1", style=solid]
11 -> 0 [label="0", style=dotted]
11 -> 32 [label="1", style=solid]
13 -> 32 [label="0", style=dotted]
13 -> 27 [label="1", style=solid]
15 -> 27 [label="0", style=dotted]
15 -> 32 [label="1", style=solid]
17 -> 32 [label="0", style=dotted]
17 -> 0 [label="1", style=solid]
27 -> 0 [label="0", style=dotted]
27 -> 32 [label="1", style=solid]
```

}

結果圖檔:

