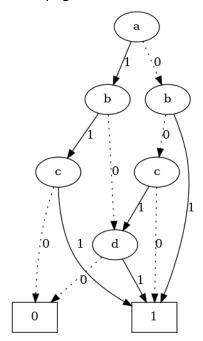
Digital System Design Project 1 – ROBDD Generation B11030001 葉衍巖

```
Test1.PLA file:
  Boolean function : F = ab'd + a'c' + bcd' + cd
  Content:
  .i 4
  .01
  .ilb a b c d
  .ob F
  .p 4
  10-1 1
  0-0-1
  -110 1
  --11 1
  .e
Out1.dot file:
     Content:
     digraph ROBDD {
       {rank=same 1}
       {rank=same 2 3}
       {rank=same 4 7}
       {rank=same 9}
       0 [label=0, shape=box]
       1 [label="a"]
       2 [label="b"]
       3 [label="b"]
       4 [label="c"]
       7 [label="c"]
       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 -> 16 [label="1", style=solid]
       3 -> 9 [label="0", style=dotted]
```

```
3 -> 7 [label="1", style=solid]
4 -> 16 [label="0", style=dotted]
4 -> 9 [label="1", style=solid]
7 -> 0 [label="0", style=dotted]
7 -> 16 [label="1", style=solid]
9 -> 0 [label="0", style=dotted]
9 -> 16 [label="1", style=solid]
}
```

Out1.png:



Test2.PLA file:

0-1-11

```
Boolean function : F = a b'e' + a'cde' + a'ce + a'be + ac'd + b'c

Content :
.i 5
.o 1
.ilb a b c d e
.ob F
.p 6
10--0 1
0-110 1
```

```
01--11
  1-01-1
  -01-- 1
  .e
Out2.dot file:
    Content:
     digraph ROBDD {
       {rank=same 1}
       {rank=same 2 3}
       {rank=same 4 5 6 7}
       {rank=same 11 12 14}
       {rank=same 20 24}
       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"]
       11 [label="d"]
       12 [label="d"]
       14 [label="d"]
       20 [label="e"]
       24 [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 -> 0 [label="0", style=dotted]
       4 -> 32 [label="1", style=solid]
       5 -> 20 [label="0", style=dotted]
```

```
5 -> 11 [label="1", style=solid]
6 -> 12 [label="0", style=dotted]
6 -> 32 [label="1", style=solid]
7 -> 14 [label="0", style=dotted]
7 -> 0 [label="1", style=solid]
11 -> 20 [label="0", style=dotted]
11 -> 32 [label="1", style=solid]
12 -> 24 [label="0", style=dotted]
12 -> 32 [label="1", style=solid]
14 -> 0 [label="0", style=dotted]
14 -> 32 [label="1", style=solid]
20 -> 0 [label="0", style=dotted]
20 -> 32 [label="1", style=solid]
24 -> 32 [label="1", style=solid]
24 -> 32 [label="0", style=dotted]
```

Out2.png:

}

