

## **Test1 (new circuit)**

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new circuit

create table with 2 inputs and 2 outputs

in0 in1 c1 led1

0	0	1	1
0	1	0	1
1	0	0	0
1	1	1	0

create table with 2 inputs and 3 outputs

in2 c1 c2 c3 c4

0	0	0	0	1
0	1	0	1	1
1	0	0	1	1
1	1	1	0	1

create table with 3 inputs and 2 outputs

in3 c2 c3 c5 led2

0	0	0	0	1
0	0	1	0	1
0	1	0	1	1
0	1	1	1	1
1	0	0	0	0
1	0	1	0	0
1	1	0	1	0
1	1	1	1	1

create table with 2 inputs and 1 outputs

in4 in5 led3

0	0	0
0	1	0

1	0	0
1	1	1

create table with 3 inputs and 1 outputs

in6 in7 c5 led0

0	0	0	1
0	0	1	0
0	1	0	0
0	1	1	1
1	0	0	0
1	0	1	0
1	1	0	1
1	1	1	0

finish

input 00000000

LED0 = on

LED1 = on

LED2 = on

LED3 = off

input 00100110

LED0 = on

LED1 = on

LED2 = on

LED3 = off

input 11101101

LED0 = on

LED1 = off

LED2 = off

LED3 = off

input 01010001

LED0 = off  
LED1 = off  
LED2 = on  
LED3 = off  
input 11011011

LED0 = on  
LED1 = off  
LED2 = off  
LED3 = off  
input 10100101

LED0 = off  
LED1 = off  
LED2 = on  
LED3 = off

## **Test2 (new circuit)**

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new circuit

create table with 2 inputs and 3 outputs

in0 in2 c1 c3 led0

0	0	0	1	1
0	1	0	0	0
1	0	0	1	0
1	1	0	0	1

create table with 3 inputs and 2 outputs

in3 c1 c3 c2 c4

0	0	0	0	1
0	0	1	0	0
0	1	0	1	0

0	1	1	1	1
1	0	0	0	1
1	0	1	0	1
1	1	0	1	0
1	1	1	1	0

create table with 2 inputs and 1 outputs

c2 c3 c5

0	0	0
0	1	1
1	0	1
1	1	0

create table with 3 inputs and 1 outputs

in1 c4 c5 led1

0	0	0	0
0	0	1	1
0	1	0	0
0	1	1	0
1	0	0	1
1	0	1	1
1	1	0	0
1	1	1	1

finish

input 1111

LED0 = on

LED1 = off

LED2 = dont care

LED3 = dont care

input 0000

LED0 = on

LED1 = on

LED2 = dont care

LED3 = dont care

input 1001

LED0 = off

LED1 = off

LED2 = dont care

LED3 = dont care

input 0101

LED0 = on

LED1 = off

LED2 = dont care

LED3 = dont care

input 0010

LED0 = on

LED1 = on

LED2 = dont care

LED3 = dont care