OR8

O1

I1
I2

OR2

OR8

O1(0)
O1(1)
O1(2)
O1(3)
O1(4)
O1(5)
O1(6)
O1(7)

Pallindromic
check

X_bin_pal

LUT1

Prime
check

O

I0

X_prime

VCC

S

DI

MUXCY

0

1

CI

O

GND

GND

GND

GND

GND

GND

GND

N

V

Z

O2

N

Cout

F_active

OR3

Z

V