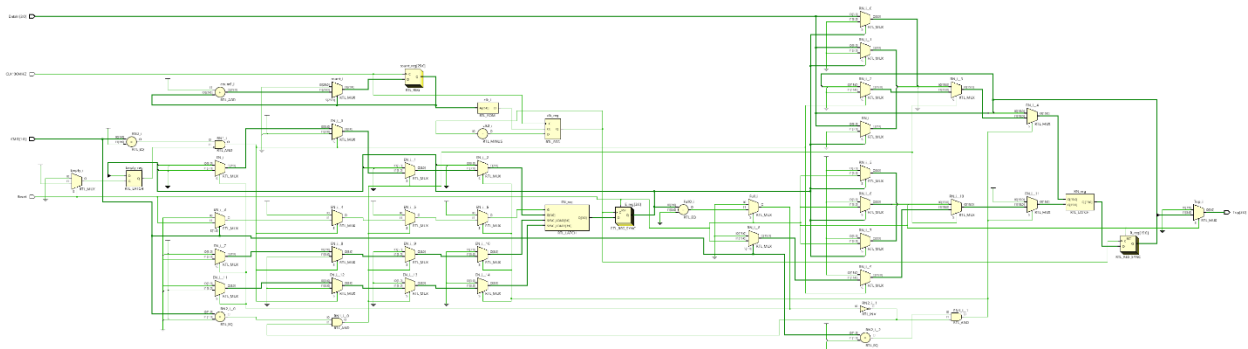
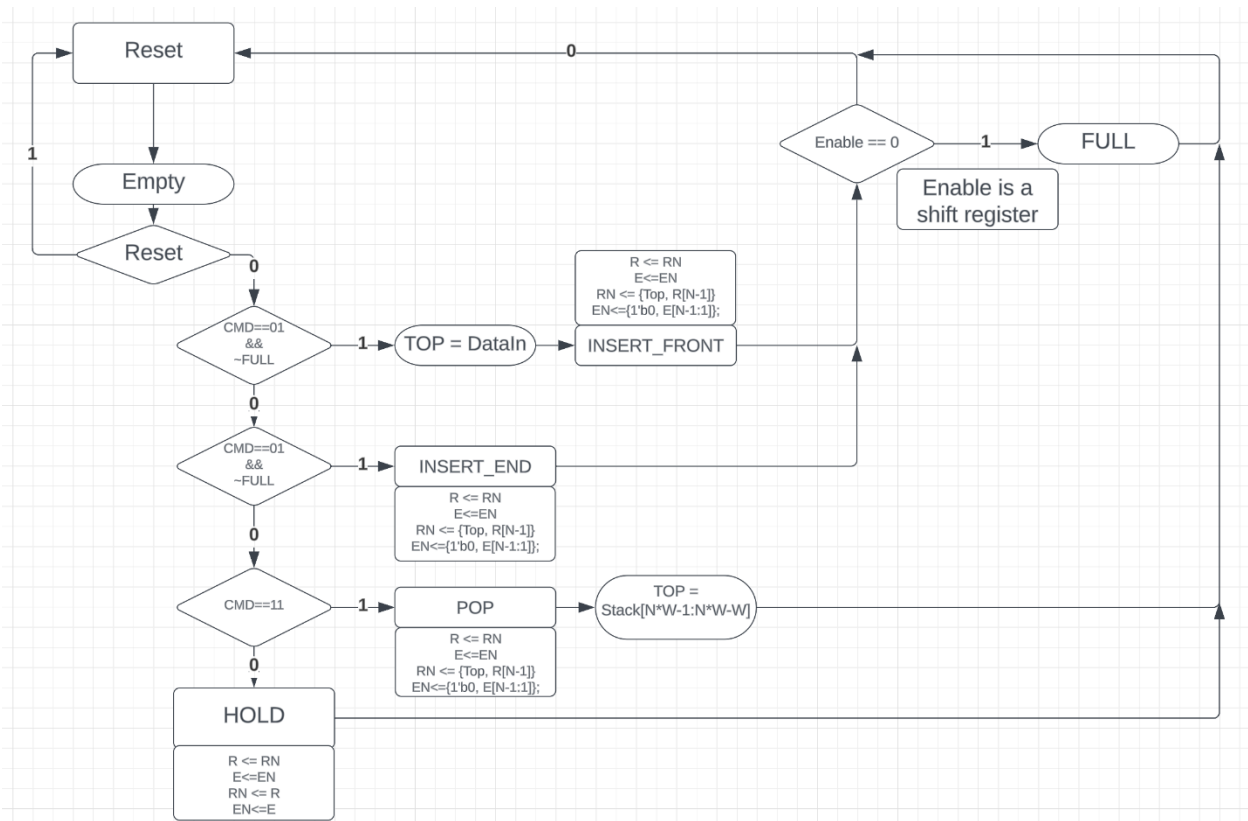


Task 1:



```

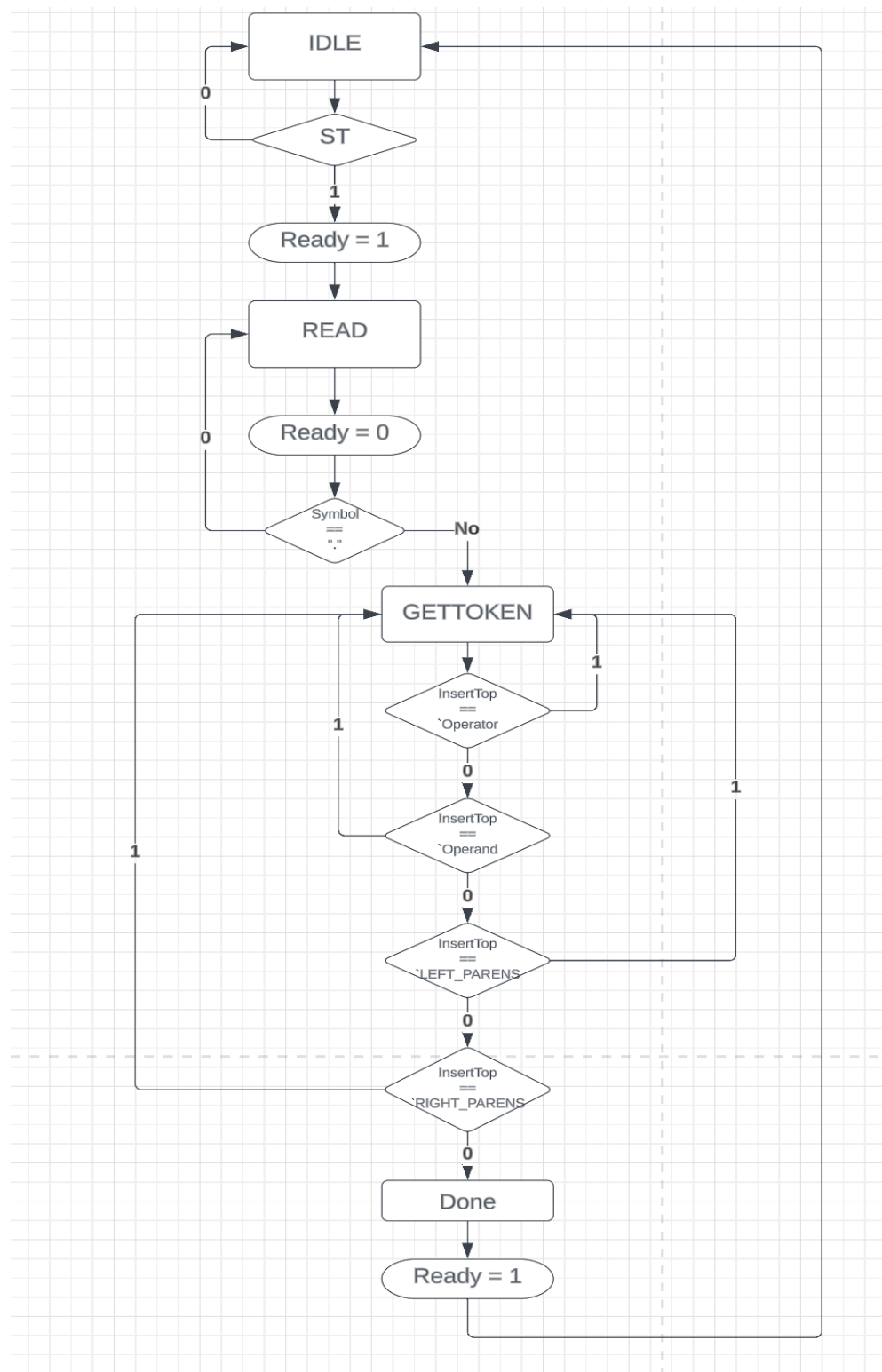
VCD info: dumpfile Stack.vcd opened for output.
$time =          0 CMD = xx DataIn = xxxxxxxx, Full = x, Empty = x, Top = xxxxxxxx
$time =         20 CMD = xx DataIn = xxxxxxxx, Full = 0, Empty = x, Top = 00000000
$time =         40 CMD = xx DataIn = xxxxxxxx, Full = 1, Empty = 0, Top = 00000000
$time =         60 CMD = xx DataIn = xxxxxxxx, Full = 0, Empty = 1, Top = 00000000
$time =        63 CMD = 10 DataIn = 00000001, Full = 0, Empty = 1, Top = 00000000
$time =        80 CMD = 10 DataIn = 00000001, Full = 0, Empty = 0, Top = 00000001
$time =        83 CMD = 10 DataIn = 00000010, Full = 0, Empty = 0, Top = 00000001
$time =       100 CMD = 10 DataIn = 00000010, Full = 0, Empty = 0, Top = 00000010
$time =       103 CMD = 01 DataIn = 00000011, Full = 0, Empty = 0, Top = 00000010
$time =       123 CMD = 01 DataIn = 00000100, Full = 0, Empty = 0, Top = 00000010
$time =       343 CMD = 00 DataIn = 00000100, Full = 0, Empty = 0, Top = 00000010
$time =       363 CMD = 10 DataIn = 01100111, Full = 0, Empty = 0, Top = 00000010
$time =       380 CMD = 10 DataIn = 01100111, Full = 0, Empty = 0, Top = 01100111
$time =       583 CMD = 11 DataIn = 01100111, Full = 0, Empty = 0, Top = 01100111
$time =       603 CMD = 10 DataIn = 01100111, Full = 0, Empty = 0, Top = 01100111
$time =       760 CMD = 10 DataIn = 01100111, Full = 1, Empty = 0, Top = 01100111
$time =       823 CMD = 00 DataIn = 01100111, Full = 1, Empty = 0, Top = 01100111
$time =       843 CMD = 10 DataIn = 11111111, Full = 1, Empty = 0, Top = 01100111
$time =       863 CMD = 11 DataIn = 11111111, Full = 1, Empty = 0, Top = 01100111
$time =       880 CMD = 11 DataIn = 11111111, Full = 0, Empty = 0, Top = 01100111
$time =      1240 CMD = 11 DataIn = 11111111, Full = 0, Empty = 0, Top = 00000010
$time =      1260 CMD = 11 DataIn = 11111111, Full = 0, Empty = 0, Top = 00000001
$time =      1280 CMD = 11 DataIn = 11111111, Full = 0, Empty = 0, Top = 00000011
$time =      1300 CMD = 11 DataIn = 11111111, Full = 0, Empty = 0, Top = 00000010
$time =      1500 CMD = 11 DataIn = 11111111, Full = 0, Empty = 1, Top = 00000000
$time =      1520 CMD = 11 DataIn = 11111111, Full = 0, Empty = 0, Top = 00000000
$time =      1540 CMD = 11 DataIn = 11111111, Full = 0, Empty = 0, Top = 00000000
$time =      1883 CMD = 00 DataIn = 11111111, Full = 0, Empty = 0, Top = 00000000
$time =      1903 CMD = 10 DataIn = 11111111, Full = 0, Empty = 0, Top = 00000000
$time =      1920 CMD = 10 DataIn = 11111111, Full = 0, Empty = 0, Top = 11111111
$time =      1923 CMD = 00 DataIn = 11111111, Full = 0, Empty = 0, Top = 11111111
FlexibleInsertStack.v:225: $finish called at 2423 (1s)
[Done] exit with code=0 in 0.24 seconds

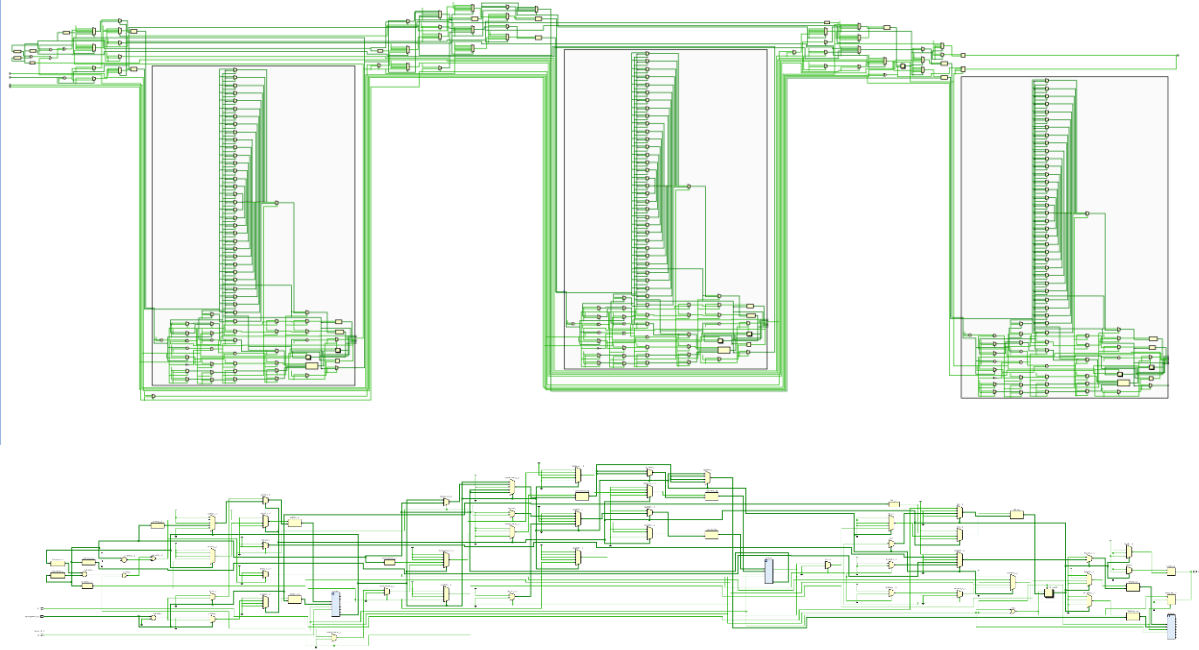
```

Task 2:

The farthest left two switches are CMD[1:0]. The switches farthest to the right are DataIn[3:0]. The corresponding lights above those switches are the Top[3:0] bits. The center button is the Reset bit. The middle LED is the Empty signal and the Full signal is to the left of it.

Task 3:





```
[Running] Infix2Postfix.v
VCD info: dumpfile IntoPost.vcd opened for output.
Infix2Postfix.v:261: $finish called at 136 (1s)
Infix Expression = 9+8*(7-2*(6+5*4*(3+2*9)/8)).
Postfix Expression = 9872654*329*+*8/+*-*+
[Done] exit with code=0 in 0.133 seconds
```