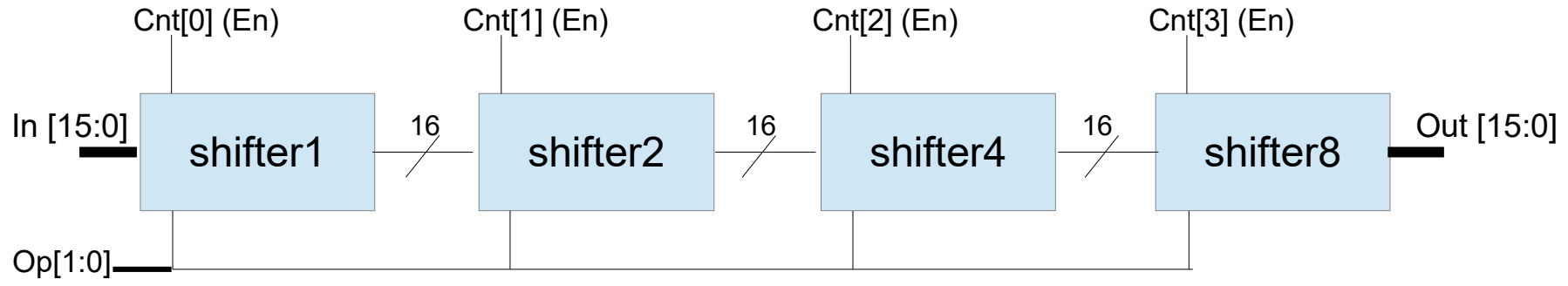
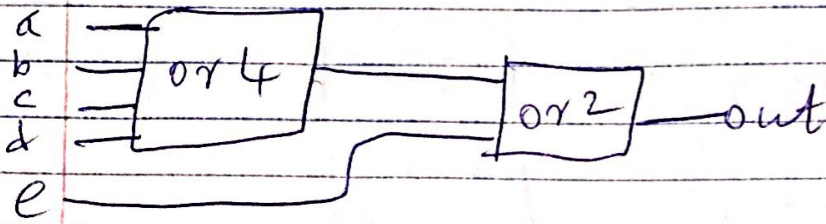


shifter.v : 16 bit barrel shifter top-hier

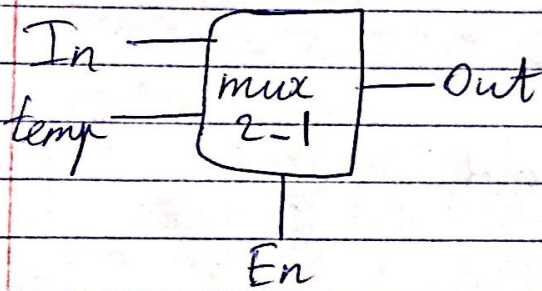
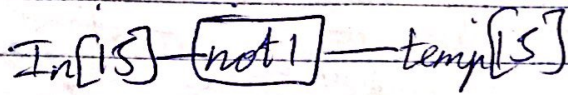


or5:



(or16 uses or2, and16 uses and2).

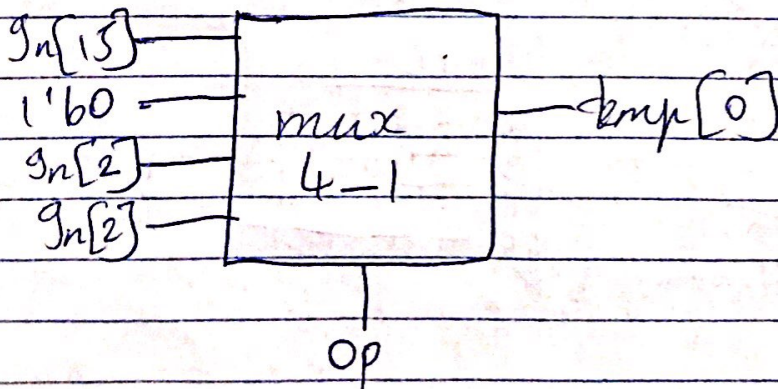
inv16:



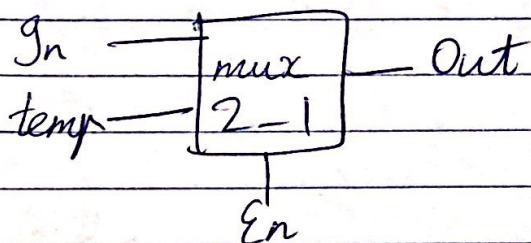
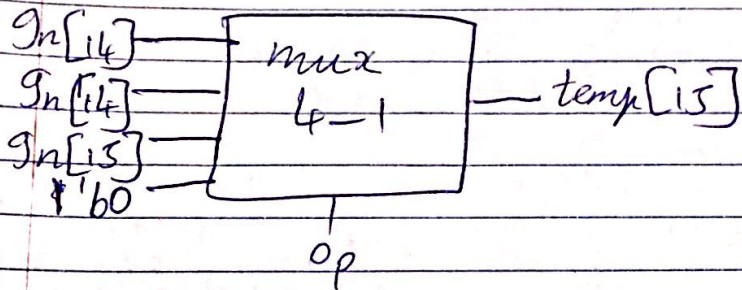
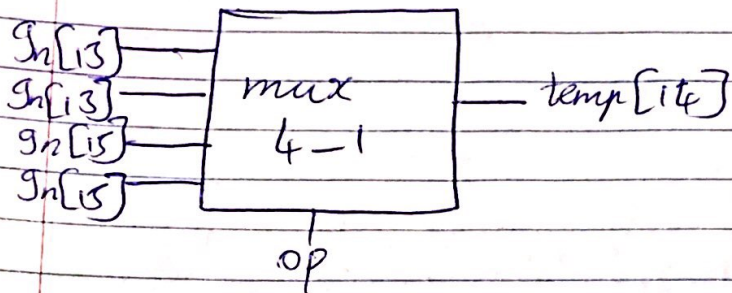
Shifters similar except how they start (Eg. Shifter1 starts with In[15] and 1'b0).

Shifter2 starts with In[14], 1'b0 and In[15], 1'b0

Shifter1:



shifter1.v



In shifter 2, last 2 D inputs of mux4-1 are zeros.
In shifter 4, last 4 D inputs of mux4-1 are zeros.
Similarly, for shifter 8, last 8 are zeros.