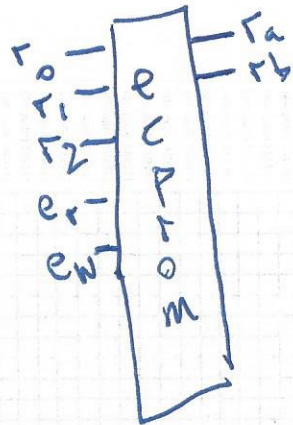
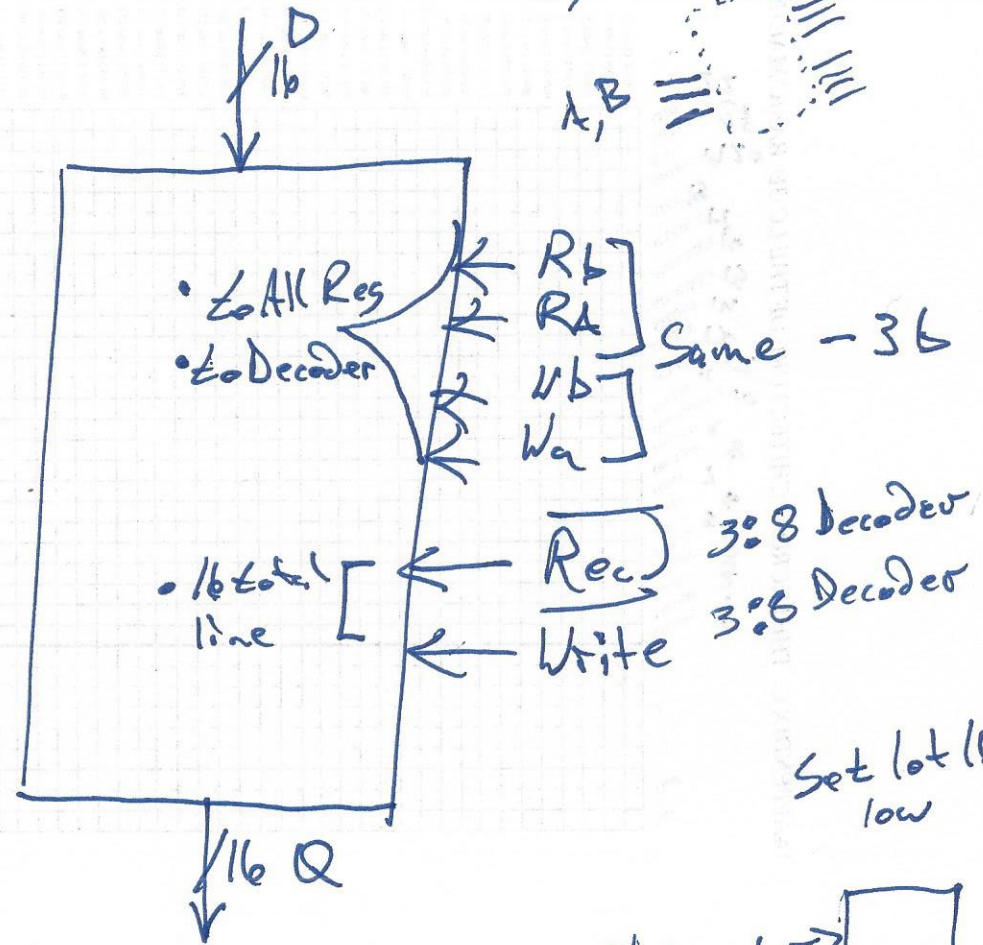


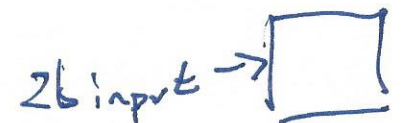
ce: 11in  
8out



$Q=W, 3b$   
 $Q, 1$   
 $W, 1$

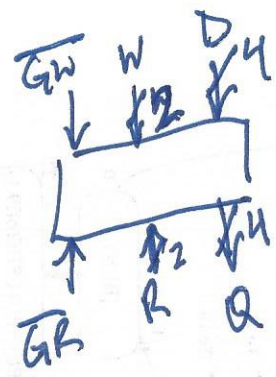
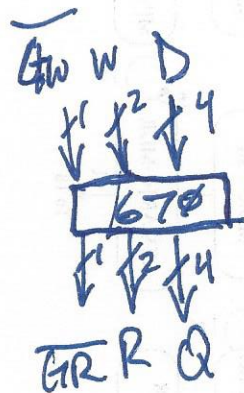


Set lot 16 bits  
low

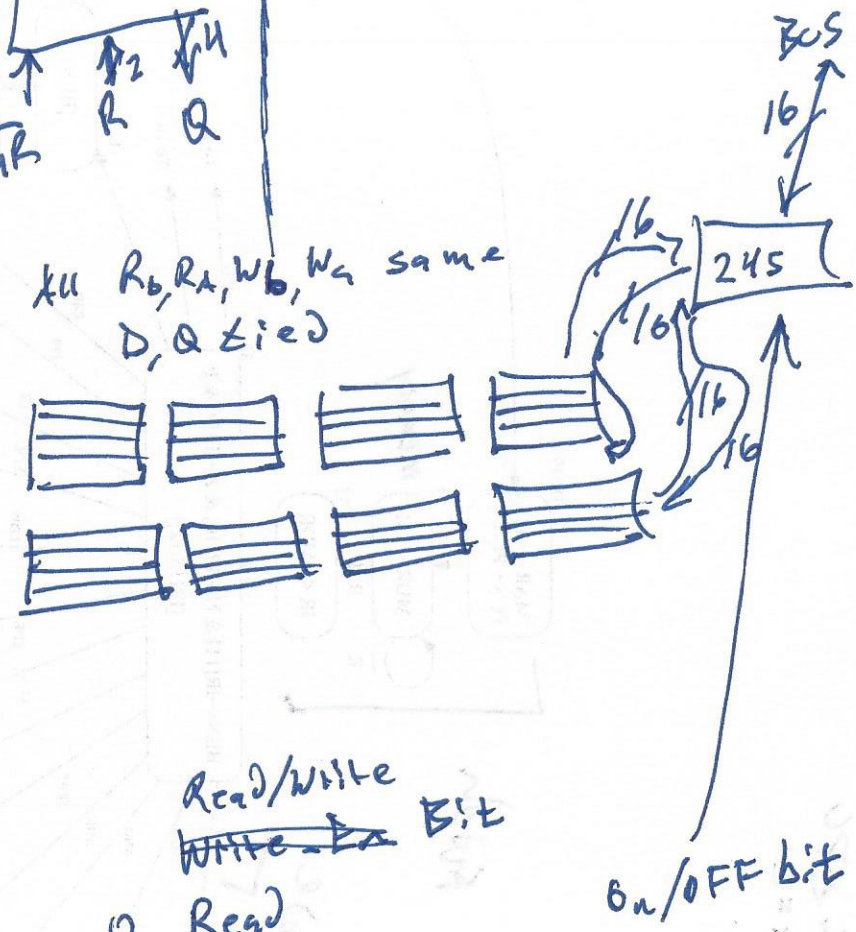


8 Registers  
Need 3 bits

Pick Reg (0-7)  
Write or Read  
Bus On/OFF



All  $R_b, R_a, W_b, W_a$  same  
D, Q tied



Read/Write  
~~Write~~ Bit

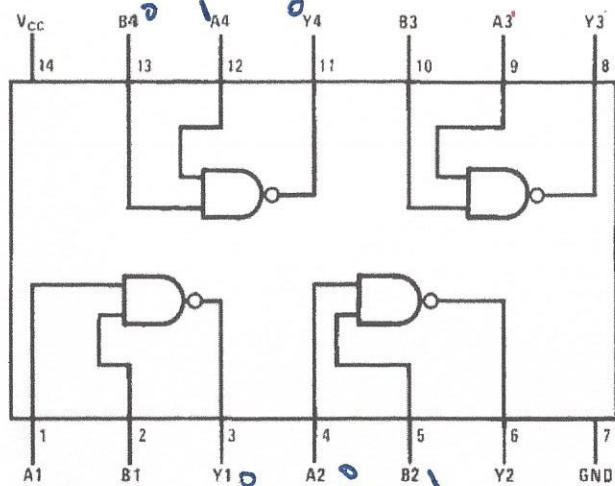
0  
1  
Read  
Write

On/OFF bit

W/R OFF  
Set Row  
Set W/R bit  
W/R OFF

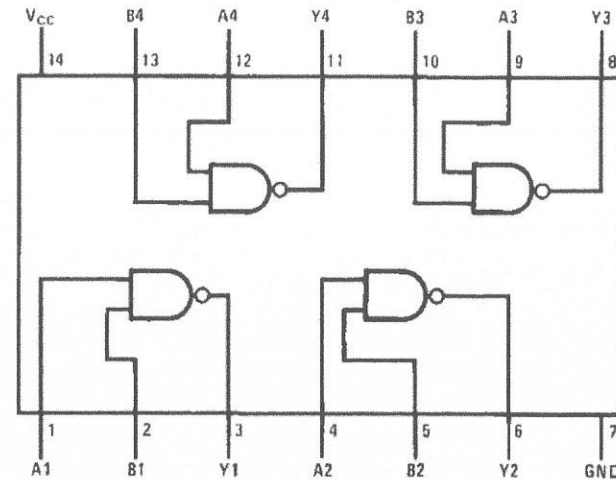
- 000
- 001
- 010
- 011
- 100
- 101
- 110
- 111

Read Top  
Write Rec

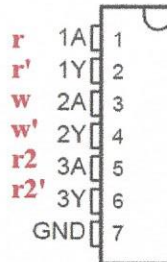


r w' r2

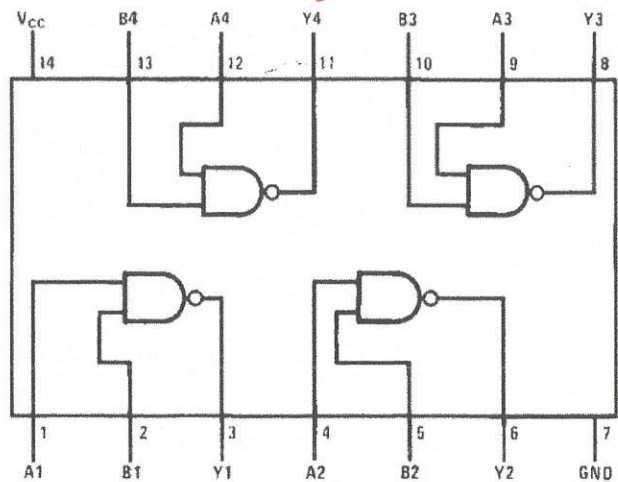
Read Top  
Ws



w r' r2

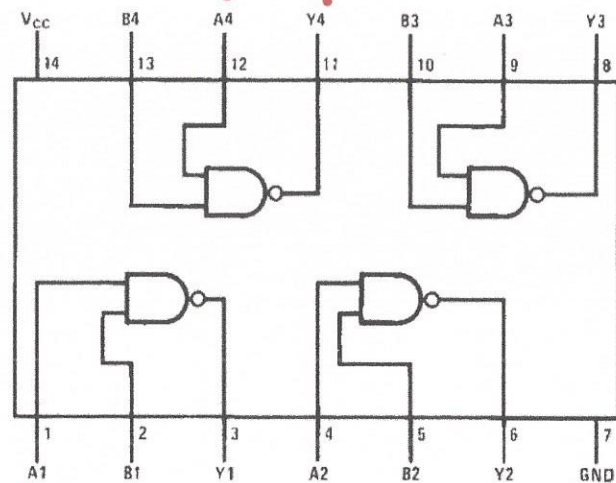


Read Bot



r2 r

Write Bot



r2 w

$$\begin{aligned}
 ga &= r' + w + r2 \\
 wa &= w' + r + r2 \\
 rb &= r2' + r' + w \\
 wb &= r2' + w' + r
 \end{aligned}$$