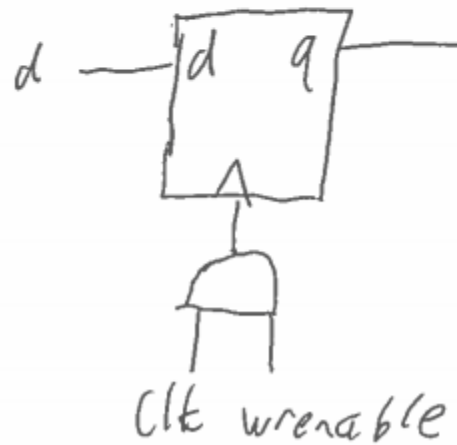
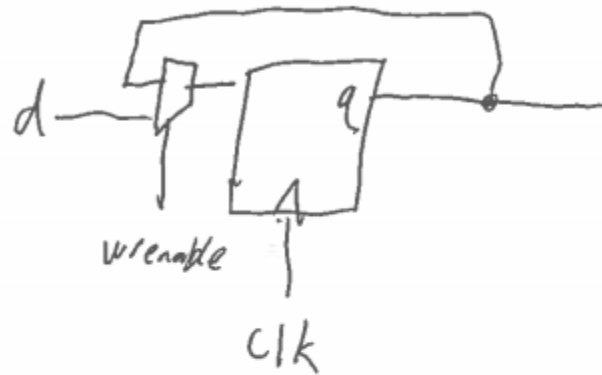


### Deliverable 1:

Deliverable 1:



### Deliverable 6:

The decoder works by shifting the bit of enable left based on the value of address. This method will cause the value of  $\text{output}[\text{address}]$  to equal the value of enable, and leave all the other values of output as 0. This ensures that at most only one bit of output is equal to 1, and only if enable is high, resulting in the behavior of a decoder.