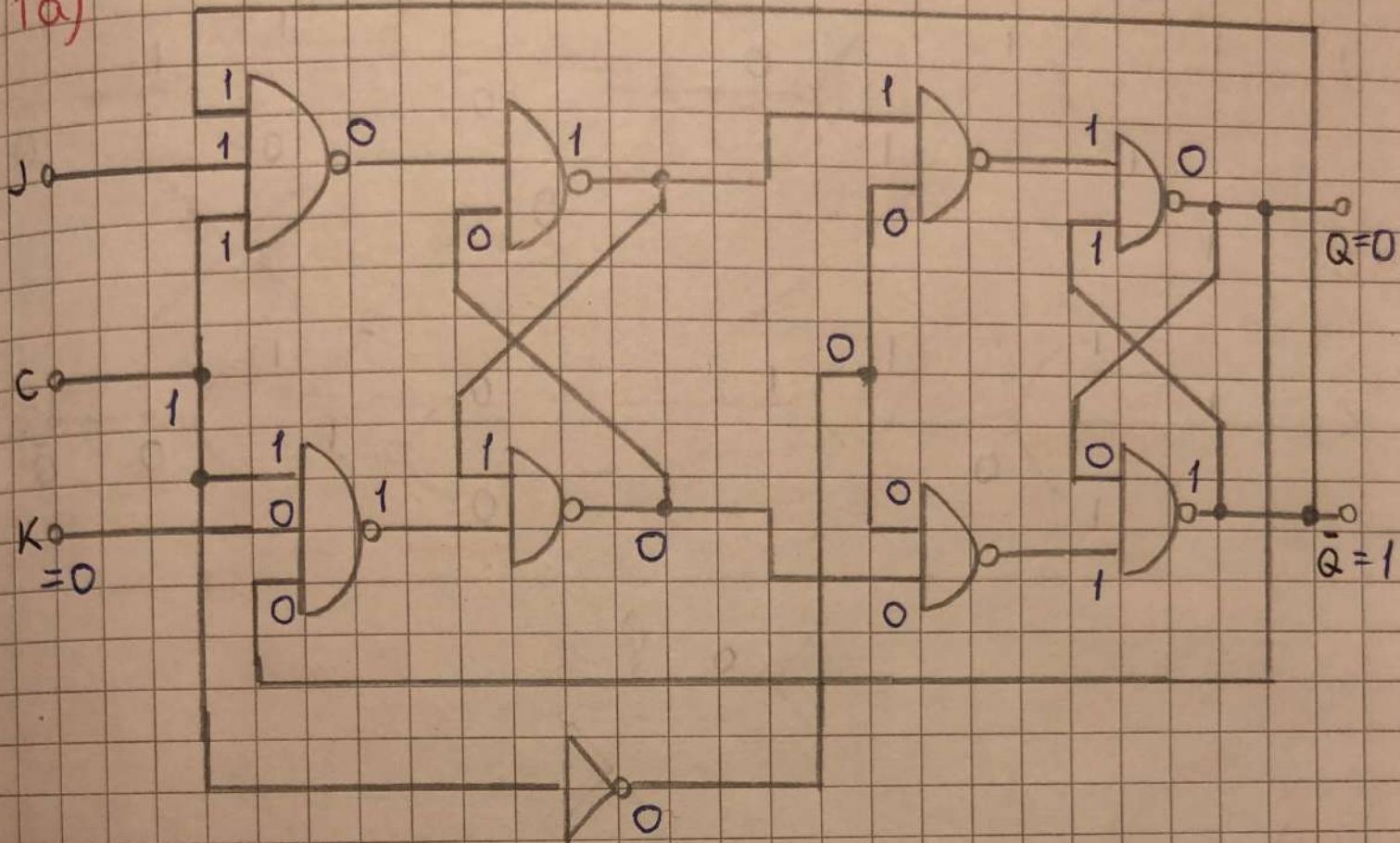
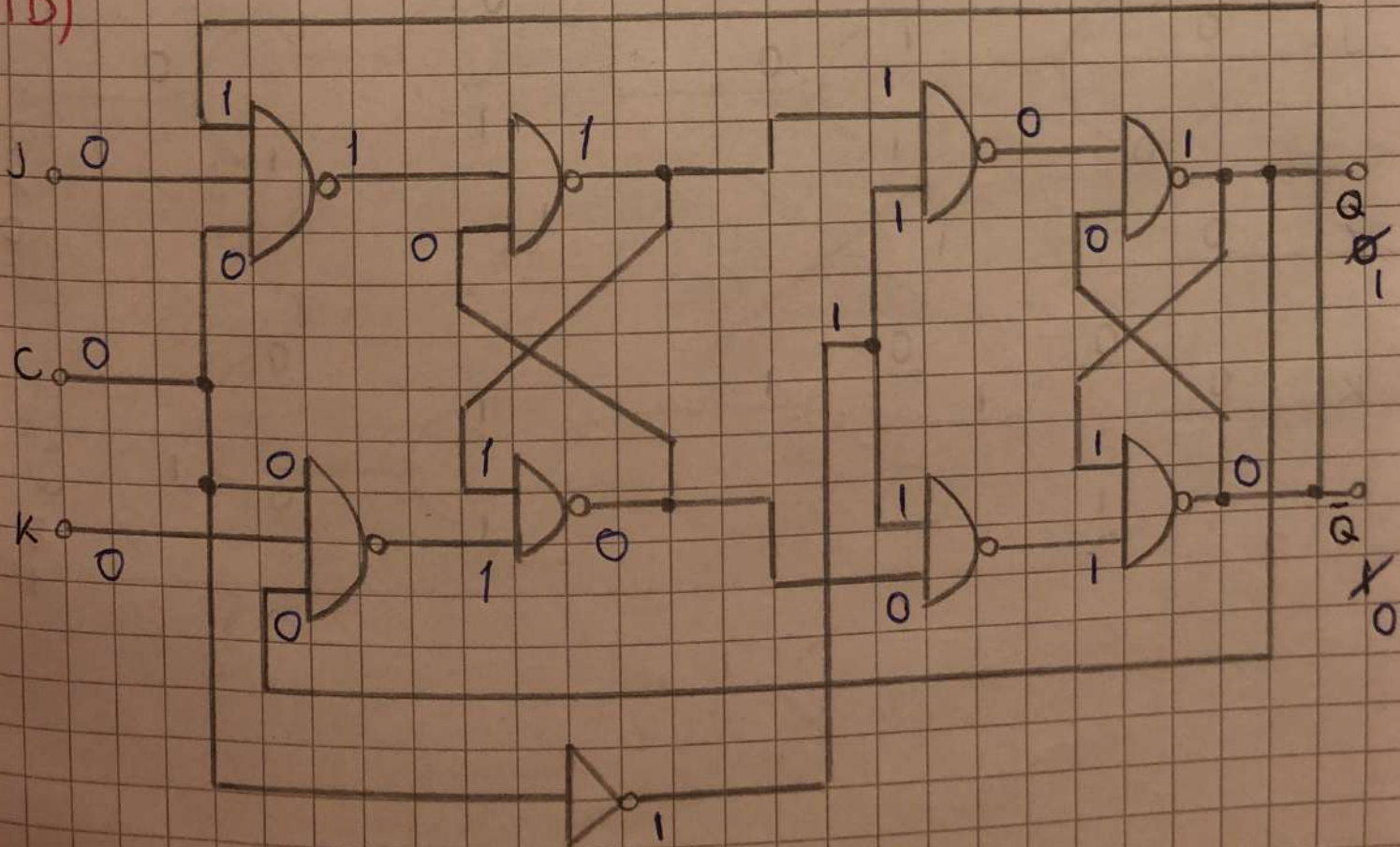


# SHEET 9

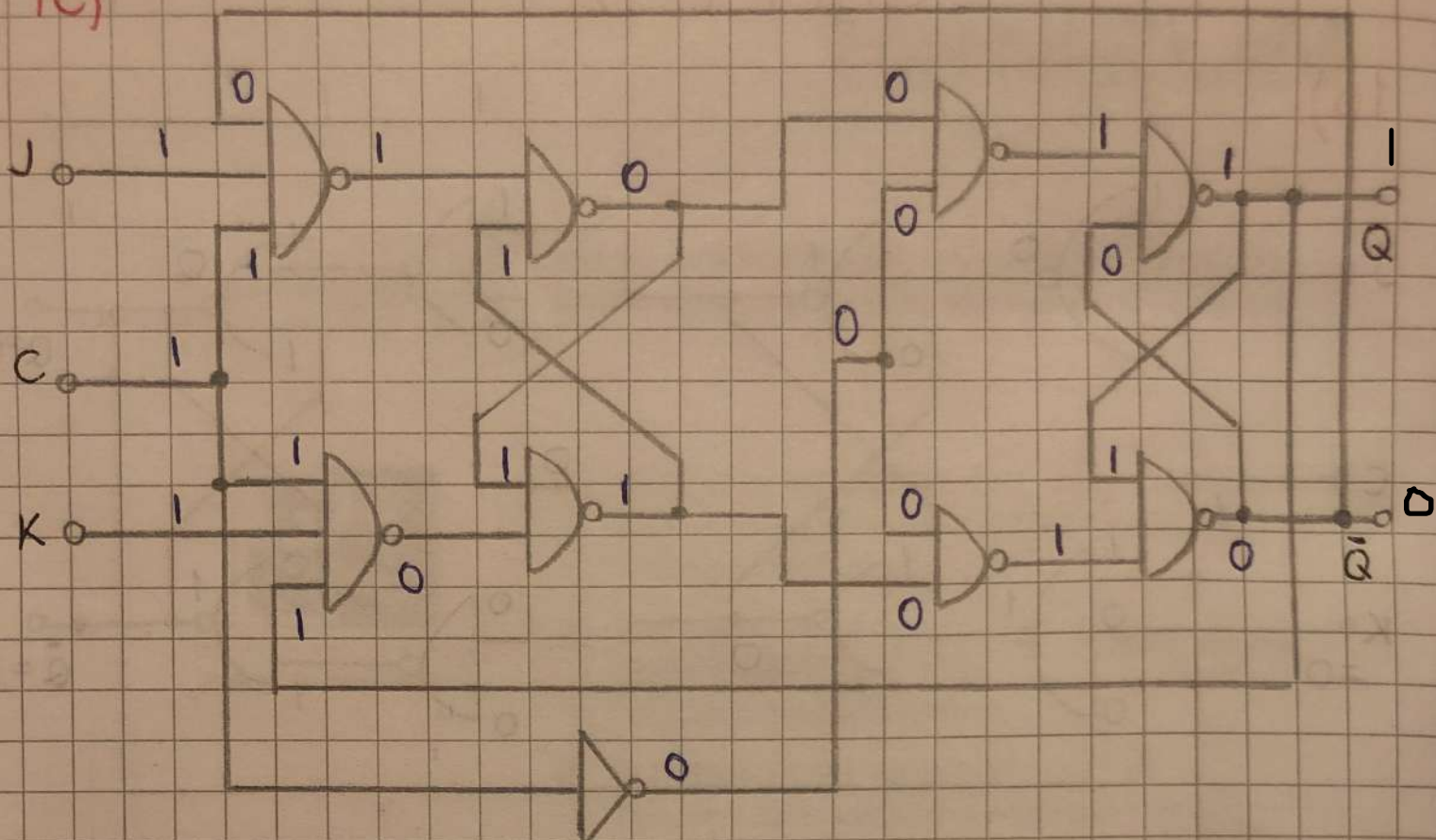
1a)



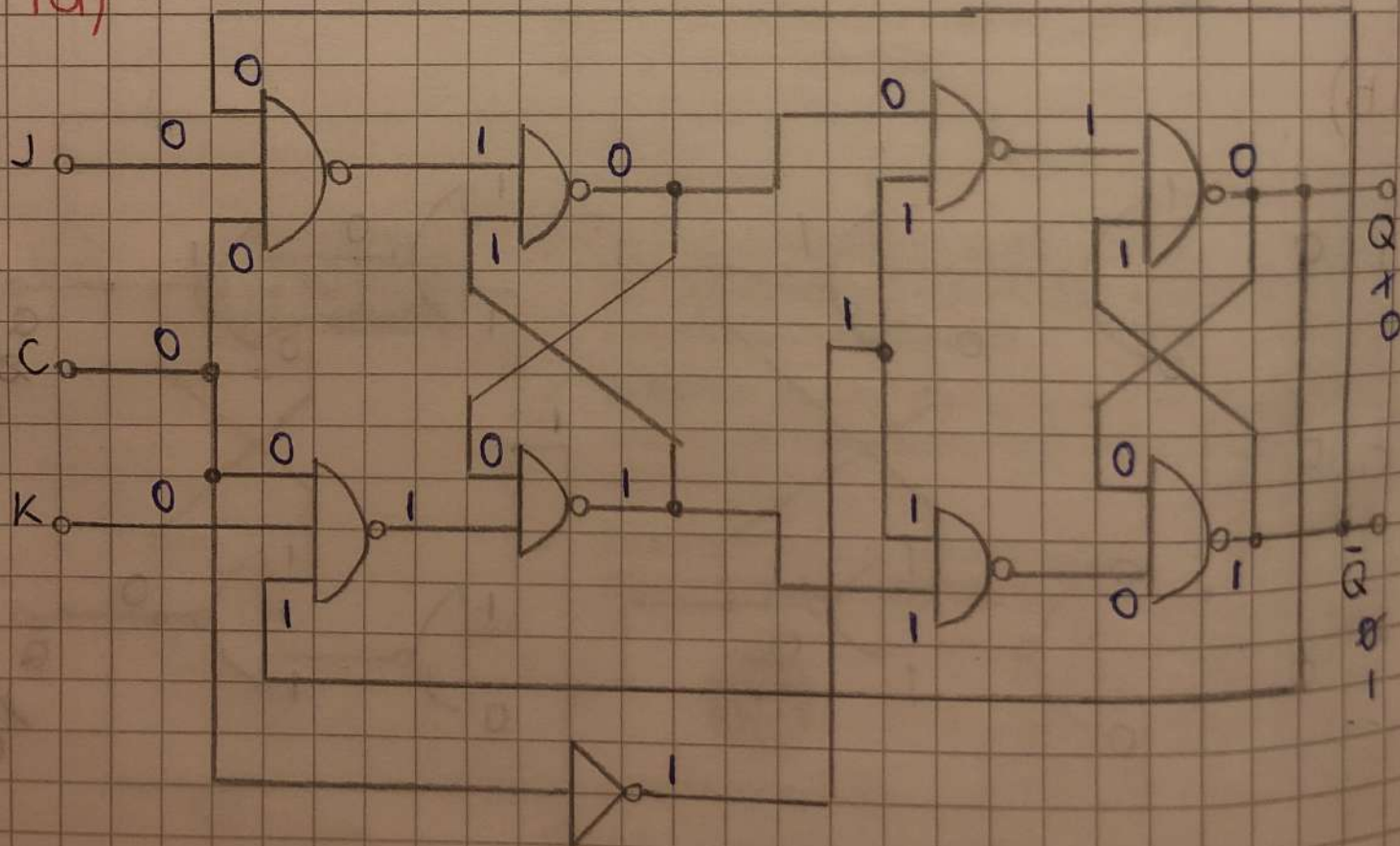
1b)



1c)

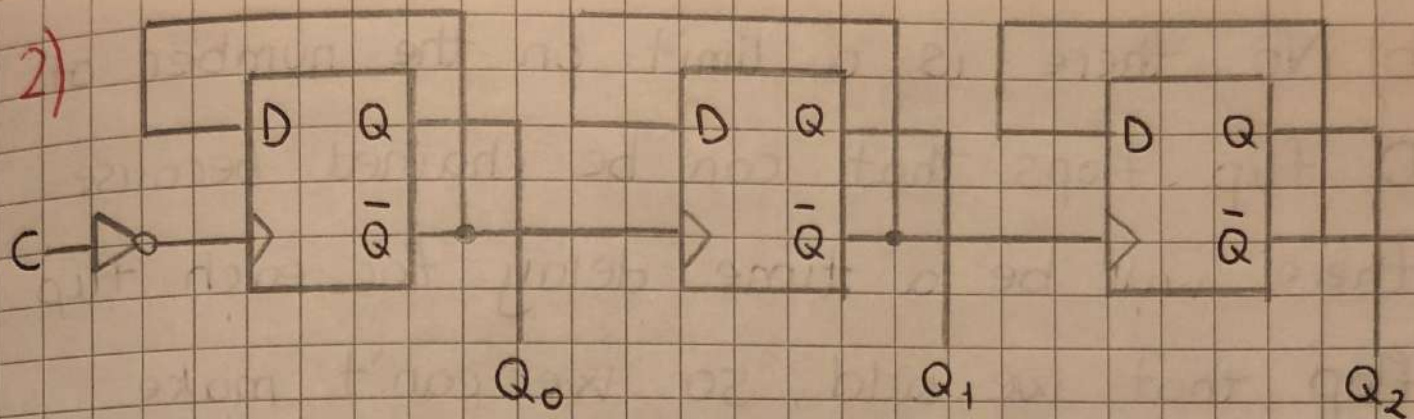


1d)

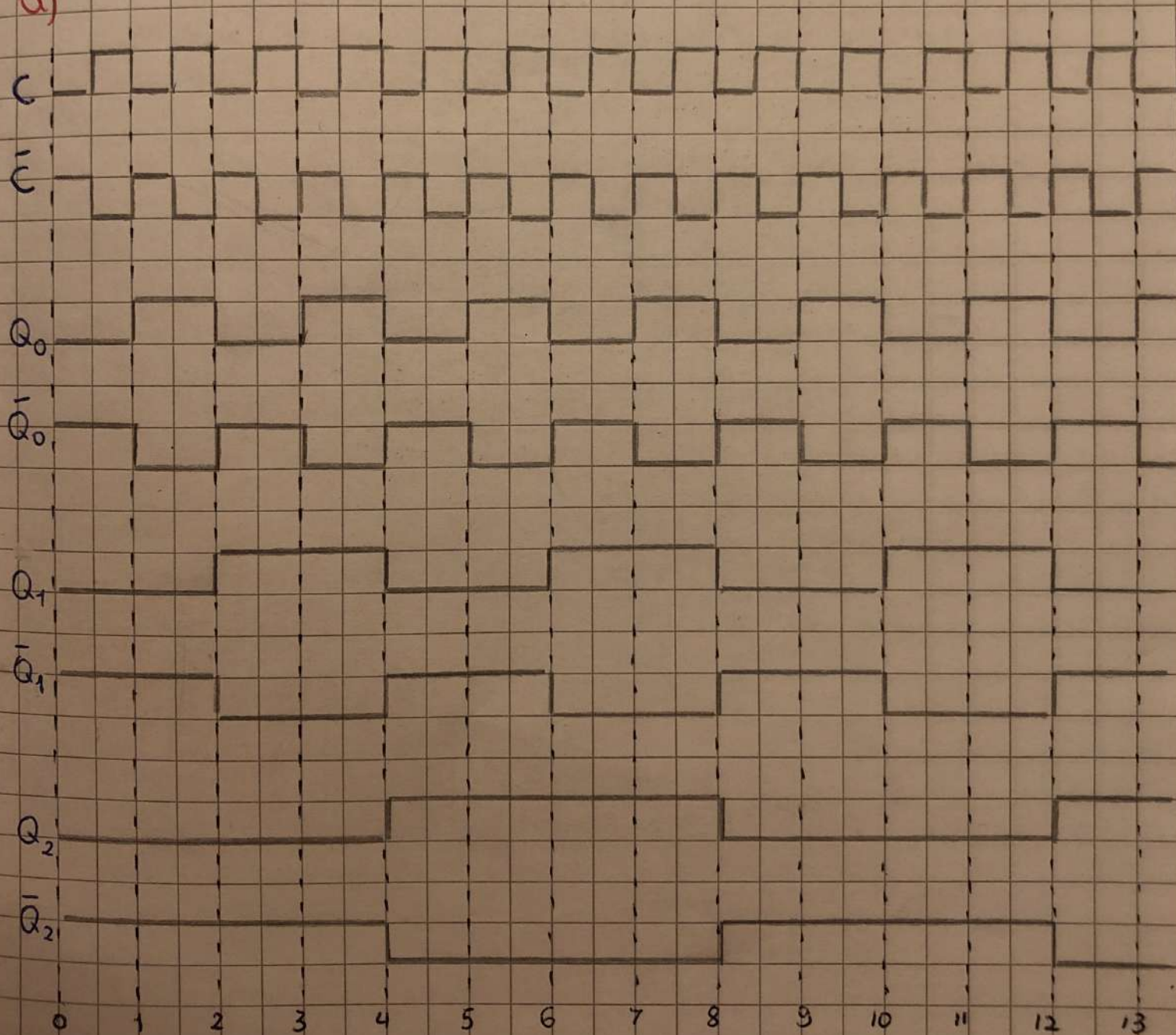




2)



a)



b) No, there is a limit on the number of D flip flops that can be chained because there will be a time delay for each flip flop that we add, so we can't make ripple counters arbitrary long.