Postlab 6

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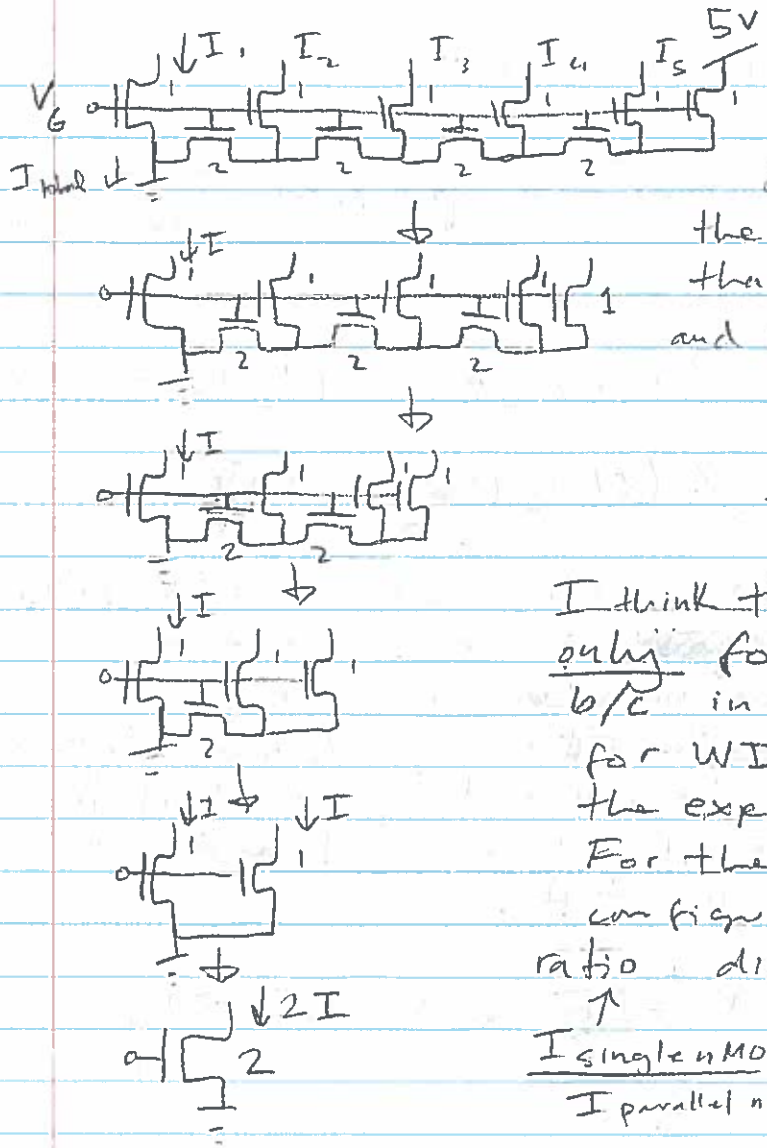

from breaking down the ladder, we see that if $I_1 = I$, $I_{total} = 2I$ and $I_2 = \frac{1}{2} I$

$I_3 = \frac{1}{4} I$

$I_4 = \frac{1}{8} I$

$I_5 = \frac{1}{16} I$

I think the relationship holds only b/c in exp 2 the ratio for WI ~~was~~ was not the expected ratio. For the parallel configuration, ~~output~~ the ratio did not reach $\frac{1}{2}$.

$\frac{I_{single\ nMOS}}{I_{parallel\ nMOS}}$

extending the ladder too much results in ~~too~~ ~~small~~ of V_{DS} → too small and V_{GS} → too small to maintain the ratio. ~~I~~ You ~~could~~ can only hold V_G so high, so V_{GS} is a limiting factor on the ladder extension.