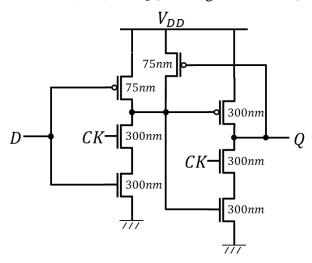
## Homework Assignment 4 (Due 4:10pm, Feb. 15)

(1) [HSpice, 20 points] Download <a href="http://eecs.wsu.edu/~ee434/Homework/hw04.zip">http://eecs.wsu.edu/~ee434/Homework/hw04.zip</a>. Unzip the file. Open hw04-1.sp in a text editor. Just translate the following circuit into a SPICE-level netlist and put it into the file. L=45nm for all the transistors. Run HSpice and submit the waveforms of D, CK, and Q (in a single screenshot).



(2) [HSpice, 30 points] Open hw04-2.sp in a text editor. Just translate the following circuit into a SPICE-level netlist and put it into the file. L=45nm and W=300nm for all the transistors. Run HSpice and submit the waveforms of D, CK, and Q (in a single screenshot). Briefly describe what the circuit does.

