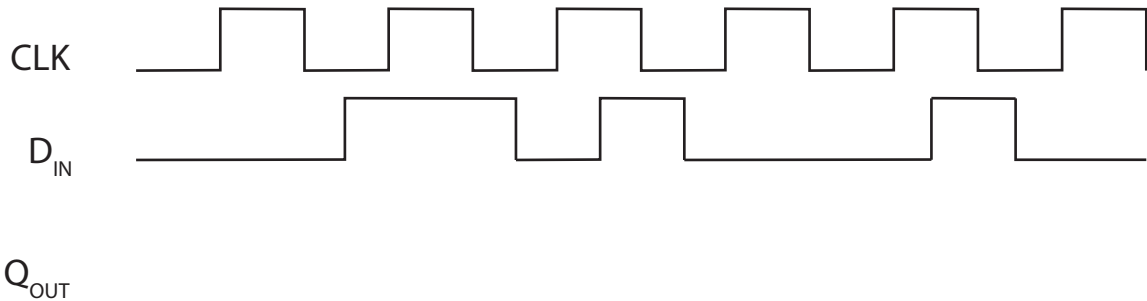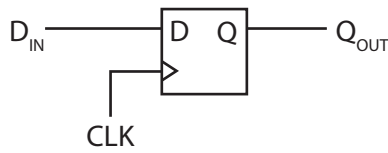# Flip Flop Homework

Due: February 4, 2022

Name:

1. (25 points) Consider the D-type flip flop below. Draw the waveform for the output Q_{OUT} to the input D_{IN}. *Hint: start by drawing dotted lines at each rising clock edge.*

2. (25 points) Consider the D-type flip flop below with an inverter feeding Q_{OUT} back to D_{IN}. The initial state of Q_{OUT} is 0, causing D_{IN} to be driven to 1. Draw the waveform for the output Q_{OUT} and D_{IN}.