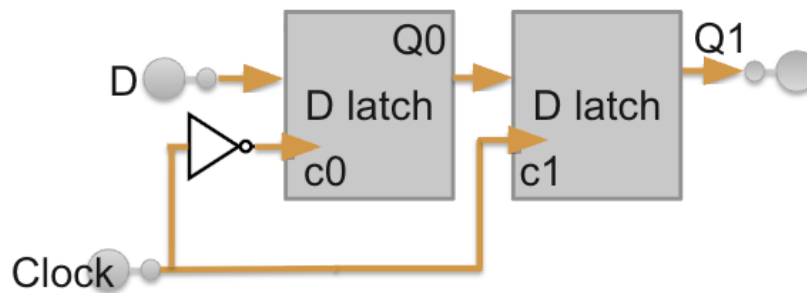


ENR 325 Assignment #7

Due: 11/6/25 10:00 pm

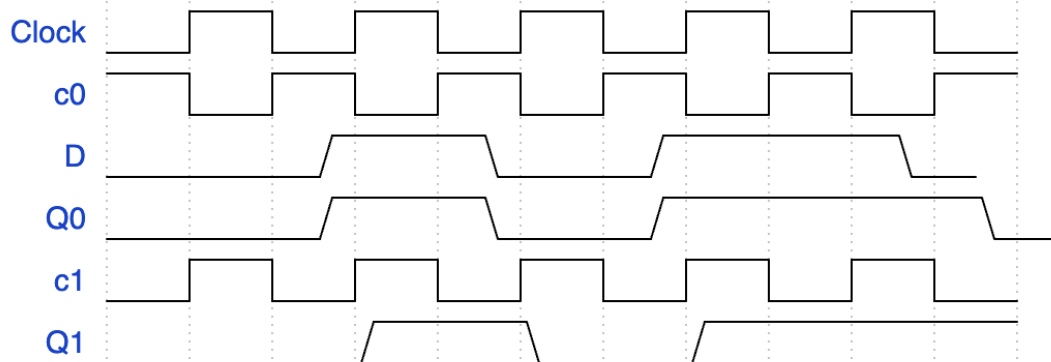
Task 1:

This Monday we did the rising edge triggered, Master-slave D type flip flops:



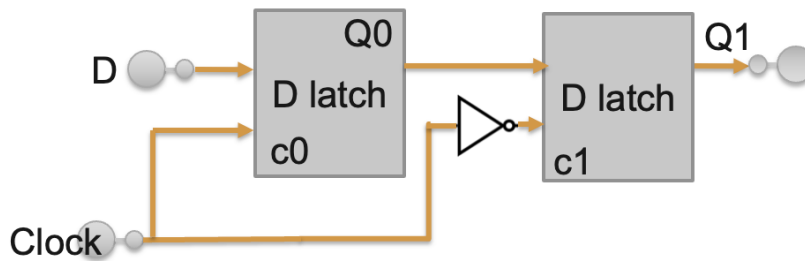
And here's the timing diagram we made in class (<https://wavedrom.com/editor.html>):

```
1 { "signal" : [  
2   { "name": "Clock", "wave": "lhhlhhlhhl" },  
3   { "name": "c0", "wave": "hlhlhlhlhlh" },  
4   { "name": "D", "wave": "0..1.0.1..0", "phase": 0.5},  
5   { "name": "Q0", "wave": "0..1.0.1...0", "phase": 0.5},  
6   { "name": "c1", "wave": "lhhlhhlhhl"},  
7   { "name": "Q1", "wave": "0..1.0.1..."},  
8 ],  
9  
10 }  
11
```

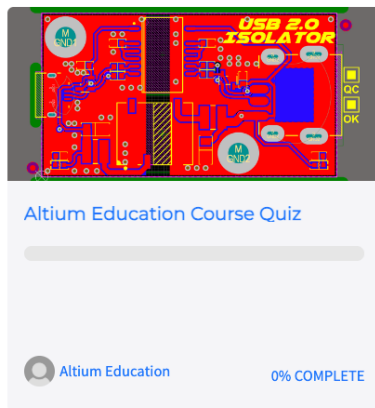


Now let's do a timing diagram for a falling edge triggered one:

You can use the same D input: 0..1.0.1..0:



Task 2: Work on and pass the Altium Education Course Quiz, there's a certificate available?



<https://education.altium.com/>

The criteria of completion are to pass the quiz. **Send me a screen capture of the finished course if you like.**