

7 Digital Logic Latches and Flip-flops

Submission form revision December 30, 2025

I am submitting my own work, and I accept penalties will be assessed against me if I submit work that isn't mine.

Point Scale
4: Exemplary
3: Complete
2: Incomplete
1: Minor effort
0: Not submitted

Print Name _____ Sign Name _____ Date _____ Asst. Signature _____

Requirements	Pts	x Wt =	Score
1. Implement a NAND basic cell		x 1 =	
2. Implement a NOR basic cell		x 1 =	
3. Design a D-latch		x 2 =	
4. PIPO register		x 2 =	
5. PISO register		x 3 =	
6. SIPO register		x 2 =	
7. Homework problems		x 2 =	

Total Score (add all rows)

Leave blank for on-time submission, or:
Enter **+6** if one or more weeks early; Enter **-11** if one or two weeks late; Enter **X** if two or more weeks late

Requirements Possible Score	52	Add the two rows above for the Requirements Earned Score Enter 0 if more than two weeks late	
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Challenges	Pts	x Wt =	Score
1. Barrel Shifter		x 3 =	
		Total Score (add all rows)	
		Leave blank for on-time submission, or Enter +2 if one or more weeks early; Enter -4 if one or two weeks late; Enter X if two or more weeks late	
Challenges Possible Score	12	Add the two rows above for the Challenges Earned Score, or Leave blank if no challenges submitted, or Enter 0 if more than two weeks late	