

Cse232 Homework 4

1. Define MUX Size

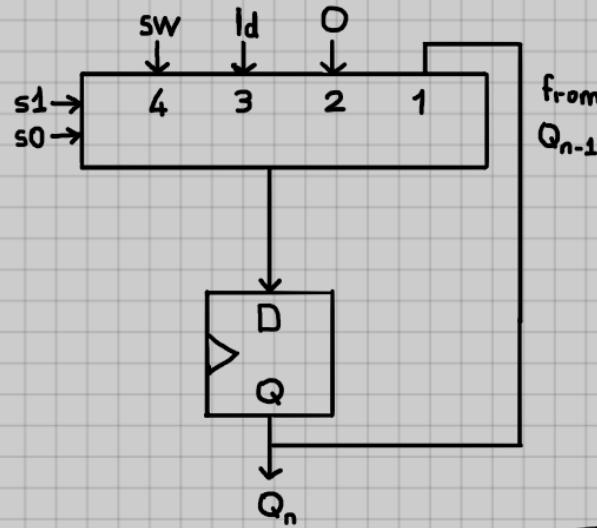
- * Clear
- * Load
- * Swap
- * Maintain Present Value
- 4 operation
- 4x1 MUX

2. Create MUX Table

	s1	s0	Operation
①	0	0	M.P.V.
②	0	1	Clear
③	1	0	Load
④	1	1	Swap

* M.P.V. → Maintain Present Value

3. Connect MUX Input



4. Map Control Lines

Priority: clear → load → swap

cl	ld	sw	s1	s0	Operation
0	0	0	0	0	Maintain Present Value
0	0	1	1	1	Switch
0	1	X	1	0	Load
1	X	X	0	1	Clear

$$s1: cl' * ld' * sw + cl' * ld$$

$$s0: cl' * ld' * sw + cl$$

