1.

$$(0\ U\ 1)^*\ 0\ (0\ U\ 1)^*\ 0\ (0\ U\ 1)^*$$

2a.

$$(0 U 01)^*$$

2b.

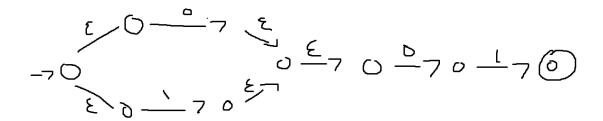
$$(0\ U\ 10)^*\ 11\ (0\ U\ 01)^*$$

2c.

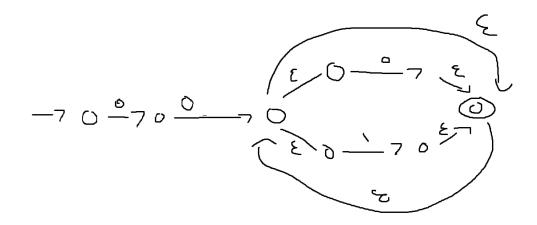
3a. There are no consecutive 1's before a zero

3b. A string that ends with a 1 in the second to last position or a 1 that in the third to last position.

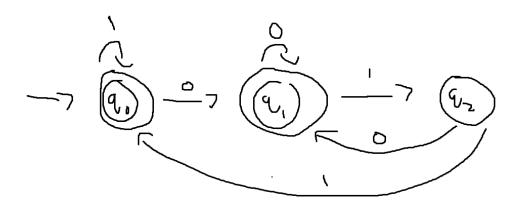
4a.



4b.



5.



6.

$$1^*(0\ U\ 011)^*(0\ U\ \epsilon)$$