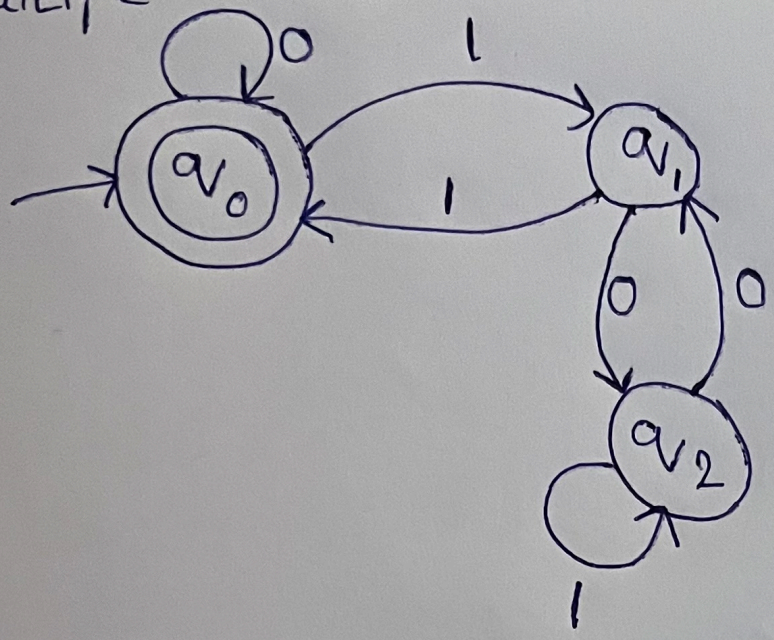
In-Class Assignment

1) DFA to accept binary strings that are multiple of 3.



2) $L_K = \{ w \mid K^{th}$ character from end of w is 1$\}$

The language of L_K when $K=2$ is

$L_2 = \{ 10, 11, 010, 011, 110, 111, 1010, 0010, 0011, 1011, ------ \}$

The language of L_K when $K=3$ is

$L_3 = \{ 100, 101, 110, 111, 0100, 1100, 0101, 1101, 0110, 1110, 0111, 1111, ------ \}$