AHMAD MUNIF BIN BAHARUM
A24CS0038
ASSIGNMENT 4

f_s	A-Z	0-9
Q_0	Q_1	
Q_1	Q_1	Q_2
Q_2	Q_1	Q_2
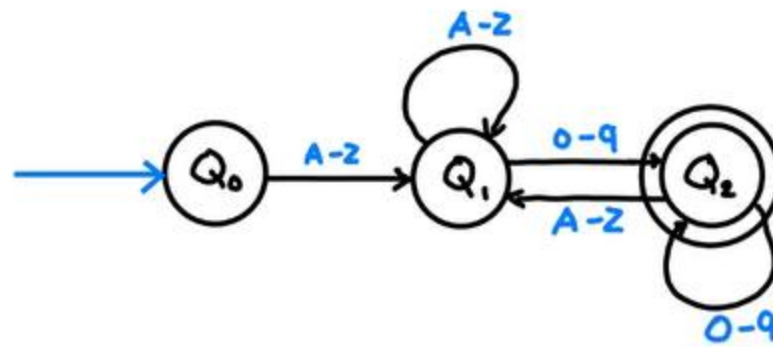
$$M = \{ \{Q_0, Q_1, Q_2\}, \{(A-Z), (0-9)\}, Q_0, f_s, Q_2 \}$$

$$S = \{Q_0, Q_1, Q_2\}$$
$$F = \{Q_2\}$$
$$\text{initial} = \{Q_0\}$$

$$a9 : \quad Q_0 \xrightarrow{a} Q_1 \xrightarrow{9} Q_2$$

$$XY12 : \quad Q_0 \xrightarrow{x} Q_1 \xrightarrow{y} Q_1 \xrightarrow{1} Q_2 \xrightarrow{2} Q_2$$

$$a1b2c3 : \quad Q_0 \xrightarrow{a} Q_1 \xrightarrow{1} Q_2 \xrightarrow{b} Q_1 \xrightarrow{2} Q_2 \xrightarrow{c} Q_1 \xrightarrow{3} Q_2$$