

Laboratory work #2: variant 23

NFA:

Variant 23

$AF = (Q, \Sigma, \delta, q_0, F)$,

$Q = \{ q_0, q_1, q_2 \}$,

$\Sigma = \{ a, b \}$, $F = \{ q_2 \}$.

$\delta(q_0, a) = q_0$,

$\delta(q_0, b) = q_1$,

$\delta(q_1, b) = q_2$,

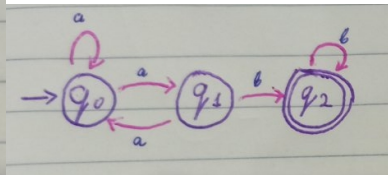
$\delta(q_1, a) = q_0$,

$\delta(q_2, b) = q_2$,

$\delta(q_2, a) = q_0$.

NFA:

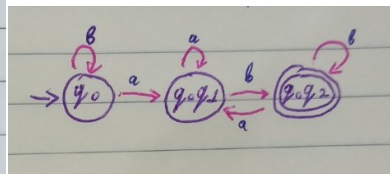
| | a | b |
|-------------------|------------|-------|
| $\rightarrow q_0$ | q_0, q_1 | q_1 |
| q_1 | q_0 | q_2 |
| $* q_2$ | q_0 | q_2 |



DFA:

DFA:

| | a | b |
|-------------------|----------|----------|
| $\rightarrow q_0$ | q_0q_1 | q_0 |
| q_0q_1 | q_0q_1 | q_0q_2 |
| $* q_0q_2$ | q_0q_1 | q_0q_2 |



$Q = \{ q_0, q_0q_1, q_0q_2 \}$

$(q_0, a) = q_0q_1$,

$(q_0, b) = q_0$,

$(q_0q_1, a) = q_0q_1$,

$(q_0q_1, b) = q_0q_2$,

$(q_0q_2, a) = q_0q_1$,

$(q_0q_2, b) = q_0q_2$.