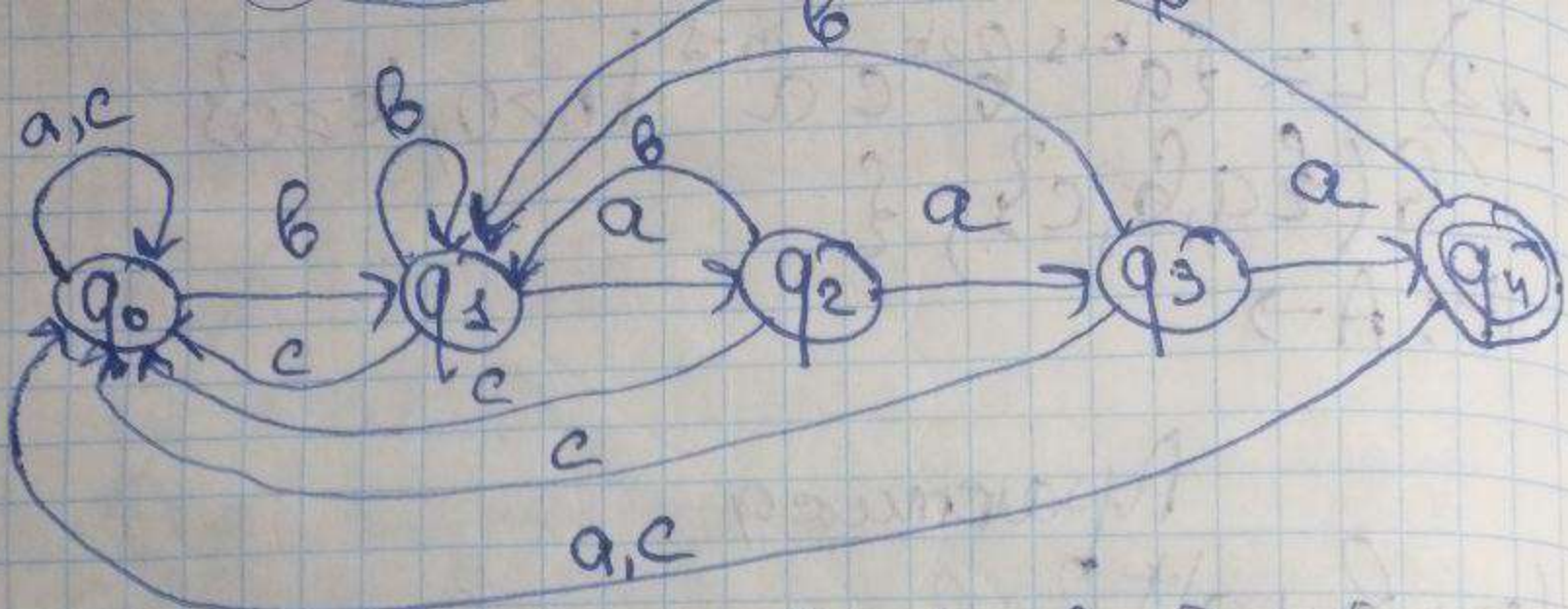

$M(\{q_0, q_1, q_2, q_3, q_4\}, \{a, b, c\}, \delta, q_0, \{q_4\})$

29.10
Михеева
ИП-713

КС - языки

'abab'

$(q_0, abab, Z) \vdash^{1} (q_0, bab, aZ) \vdash^{5} (q_0, ab, baZ)$
$\vdash^{4} (q_0, b, abaZ) \vdash$ ~~$(q_0, \varepsilon, abaZ)$~~
$(q_0, \varepsilon, abaZ)$

'aabaa'

$(q_0, aabaa, Z) \vdash (q_0, abaa, aZ) \vdash (q_1, baa, aZ)$

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$\vdash$ стоп, значит с ш. $\Sigma \vdash (q_2, baa, \varepsilon)$

$(q_0, baa, aaZ) \vdash (q_0, aa, baaZ) \vdash$

$\vdash (q_0, aa, abaaZ) \vdash \underline{(q_1, \varepsilon, baaZ)}$ ш.ш.

$(q_0, \varepsilon, aabaaZ)$

$\{w w^R \mid w \in \{a,b\}^+\}$

№20

а) $\{0^k 1^n \mid k \geq n > 0\}$

$P = (\{q_0, q_1, q_2\}, \{0,1\}, \{Z,0,1\}, \delta, q_0, Z, \{q_2\})$

1) $\delta(q_0, 0, Z) = \{q_0, 0Z\}$

2) $\delta(q_0, 0, 0) = (q_0, 00)$

3) $\delta(q_0, 1, 0) = (q_1, \varepsilon)$

4) $\delta(q_1, 1, 0) = (q_1, \varepsilon)$

5) $\delta(q_1, \varepsilon, 0) = (q_2, \varepsilon)$

6) $\delta(q_1, \varepsilon, Z) = (q_2, \varepsilon)$

Ещё вар. Трусова:

$P = (\{q_0\}, \{0,1\}, \{Z,0,1\}, \delta, q_0, Z, \{q_0\})$

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1) $\delta(q_0, 0, Z) = (q_0, 0Z)$
2) $\delta(q_0, 0, 0) = (q_0, 00)$
3) $\delta(q_0, 1, 0) = (q_0, \varepsilon)$
4) $\delta(q_0, \varepsilon, 0) = (q_0, \varepsilon)$
5) $\delta(q_0, \varepsilon, Z) = (q_0, \varepsilon)$

а) $\{0^k 1^n \mid 0 < k \leq n\}$

1) $\delta(q_0, 0, Z) = (q_0, 0Z)$
2) $\delta(q_0, 0, 0) = (q_0, 00)$
3) $\delta(q_0, 1, 0) = (q_1, \varepsilon)$
4) $\delta(q_0, 1, Z) = (q_1, Z)$
5) $\delta(q_0, \varepsilon, Z) = (q_0, \varepsilon)$

$P = (\{q_0, q_1\}, \{0, 1\}, \{Z, 0, 1\}, \delta, q_0, Z, \{q_1\})$

1) $\delta(q_0, 0, Z) = (q_0, 0Z)$
2) $\delta(q_0, 0, 0) = (q_0, 00)$
3) $\delta(q_0, 1, 0) = (q_1, 0)$
4) $\delta(q_1, 1, 0) = (q_1, \varepsilon)$
5) $\delta(q_1, 1, Z) = (q_1, Z)$
6) $\delta(q_1, \varepsilon, Z) = (q_1, \varepsilon)$

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в) $P = (\{q_0\}, \{a, b\}, \{Z, a, b\}, \delta, q_0, Z, \{q_0\})$

1) $\delta(q_0, a, Z) = (q_0, aZ)$
2) $\delta(q_0, b, Z) = (q_0, bZ)$
3) $\delta(q_0, a, a) = (q_0, aa)$
4) $\delta(q_0, b, b) = (q_0, bb)$
5) $\delta(q_0, a, b) = (q_0, \varepsilon)$
6) $\delta(q_0, b, a) = (q_0, \varepsilon)$
7) $\delta(q_0, \varepsilon, Z) = (q_0, \varepsilon)$