

$G(\{a, b, c\}, \{A, B\}, P, A)$

$P: A \rightarrow aBcc \mid Acc$

$B \rightarrow aABb \mid \lambda \mid aBcc$

Домашняя работа

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47-713

№22

б) $L = \{w \mid w \in \{a, b, c\}^* \text{ и } w \text{ не } a^nb^nc\}$

~~нужно построить~~

$P(\{q_0, q_1\}, \{a, b, c\}, \{a, b, Z\}, \delta, q_0, Z, \{q_1\})$

1) $\delta(q_0, a, Z) = (q_0, aZ)$ 12) $\delta(q_1, c, Z) = (q_1, Z)$

2) $\delta(q_0, b, Z) = (q_0, bZ)$ 13) $\delta(q_1, c, a) = (q_1, a)$

3) $\delta(q_0, c, Z) = (q_1, Z)$ 14) $\delta(q_1, c, b) = (q_1, b)$

4) $\delta(q_1, a, Z) = (q_1, aZ)$ 15) $\delta(q_1, a, b) = (q_1, \epsilon)$

5) $\delta(q_0, a, a) = (q_0, aa)$ 16) $\delta(q_1, b, a) = (q_1, \epsilon)$

6) $\delta(q_0, b, b) = (q_0, bb)$ 17) $\delta(q_0, a, b) = (q_0, \epsilon)$

7) $\delta(q_0, c, a) = (q_1, a)$ 18) $\delta(q_0, b, a) = (q_0, \epsilon)$

8) $\delta(q_0, c, b) = (q_1, b)$ 19) $\delta(q_0, \epsilon, Z) = \delta(q_1, \epsilon)$

9) $\delta(q_1, b, Z) = (q_1, bZ)$ 20) $\delta(q_1, \epsilon, Z) = \delta(q_1, \epsilon)$

10) $\delta(q_1, a, a) = (q_1, aa)$

11) $\delta(q_1, b, b) = (q_1, bb)$

КС-грамм:

$G(\{a, b, c\}, \{A, B\}, P, A)$

$P: A \rightarrow abB | baB | aBb | bBa | B$

$B \rightarrow ccA | cc$

7) $L = \{ (ab)^n c^{n+k} a^{2k} \mid k > 0, n > 0 \}$