

IZRAČUNLJIVOST IN RAČUNSKA ZAHTEVNOST

Domača naloga: Skladovni avtomati

Zapiši skladovne avtomate (SA), ki razpoznavajo sledeče jezike.

1. $L_1 = \{w \in \{a, b\}^* \mid \#_a(w) = 3\}$
2. $L_2 = \{a^n b^n \mid n \geq 0\}$
3. $L_3 = \{w \in \{a, b\}^* \mid \#_a(w) = \#_b(w)\}$
4. $L_4 = \{a^{2n} b^n \mid n \geq 0\}$
5. $L_5 = \{a^n b^{2n} \mid n \geq 0\}$
6. $L_6 = \{a^n b^m \mid n \leq m \leq 2n\}$
7. $L_7 = \{a^i b^j c^k \mid i + j = k\}$
8. $L_8 = \{a^i b^j c^k \mid i + k = j\}$
9. $L_9 = \{w \in \{a, b\}^* \mid w = w^R\}$

Pretvori sledeče KNG v SA.

10. $S \rightarrow aSb \mid aS \mid \varepsilon$
11. $S \rightarrow aB \mid bA$
 $A \rightarrow a \mid aS \mid bAA$
 $B \rightarrow b \mid bS \mid aBB$