npda examples

Thursday, October 31, 2024 11:57 AM

ex

$L = \{a^n b^n : n \geq 0\}$

$M = (\{q_0, q_1, q_f\}, \{a, b\}, \{a, \$\}, \delta, q_0, \$, \{q_f\})$

$(q_0, a, \$) = (q_0, a\$)$ // 1st a

$(q_0, a, a) = (q_0, aa)$ // subsequent a

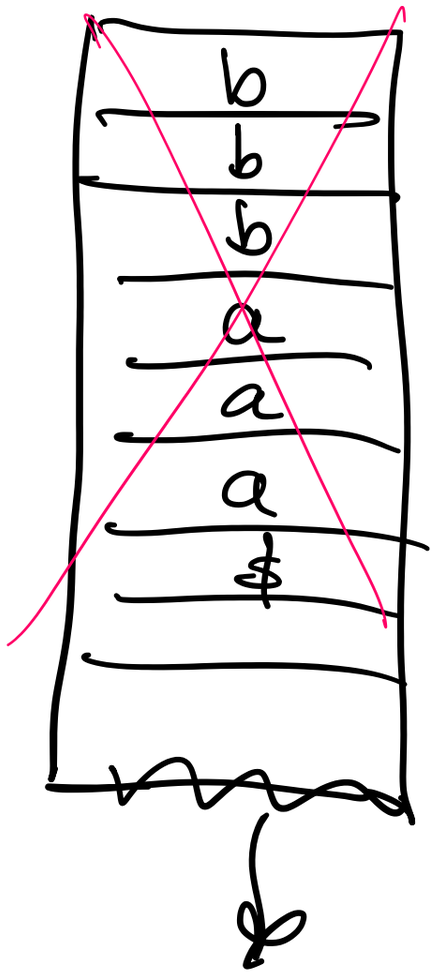
$(q_0, b, a) = (q_1, \lambda)$ // 1st b

$(q_1, b, a) = (q_1, \lambda)$ // subsequent b

$(q_1, \lambda, \$) = (q_f, \lambda)$

$(q_0, \lambda, \$) = (q_f, \lambda)$ // empty string

s = ab
s = aabb
s = aaabbb



ex $L = \{a^n b^{n+1} : n \geq 0\}$

finish for assignment

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

$(q_0, b, \$) = \ldots$

$(q_0, b, \$) = (q_t, b\$)$ ✓