

Theory of Computation

Exercise 13&14: (Pumping Lemma for NonCFL)

Prove by P.L. that the following languages are not CFL.

1. $L1 = \{a^n b^{n+1} c^{n+2} : n \geq 0\}$

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Proof: Assume that $L1$ is CFL. There is PDA accepts $L1$ with m number of states

① ଚିରାଣୀ string $w = a^m b^{m+1} c^{m+2}$

path ସମ୍ବନ୍ଧିତ loop

$$2. L2 = \{ w \in \{a, b, c\}^* : n_a(w) = \min(n_b(w), n_c(w)) \}$$