Theory of Computation & Compiler Design (CSE2002)

Introduction to Compilers, Analysis of Source Program & Phases of Compiler

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Outline of this Lecture

‣ *Some Problem Solving on Language Operations*

‣ *Introduction to Compilers*

‣ *Analysis of Source Program*

‣ *Phases of Compiler*

▸ Let L = {ab} than find L* and L$^+$

▸ Let L = {ab} than

$L* = L^0 \cup L^1 \cup L^2 \cup L^3 \dots \dots$

$L* = \{\varepsilon\} \cup \{ab\} \cup \{abab\} \cup \{ababab\} \dots \dots$

$L* = \{\varepsilon, ab, abab, ababab\dots \dots\}$

$L^+ = L* - \{\varepsilon\}$

$= \{ab, abab, ababab\dots \dots\}$

▸ Let L = {a, ab} than find L* and L⁺