Assignment 12

Automata & Theory of Computation

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1. Eliminate all useless productions from the grammar

$$S \rightarrow aS \mid \mathcal{E}D \mid E$$
,
 $A \rightarrow aaA \mid b$,
 $B \rightarrow bbB \mid a$,
 $C \rightarrow bCD$,
 $D \rightarrow CC \mid \lambda$,
 $E \rightarrow bE \mid \lambda$.