Complier Homework 4

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Problem

Write down Regular Expression, Regular Grammar and DFA for L.

L is a string consist of even number of letter a and letter b.

Regular Expression

((aa|bb) | (ab|ba)(aa|bb)*(ab|ba))*

Regular Grammar

S --> CS
S --> ε
A --> aa | bb
B --> ab | ba
C --> A | D
D --> BEBD
D --> ε
E --> A
E --> ε

DFA