Practice questions

1. Generate the string aaabbabbba from the following grammar

S🡪aB|bA

A🡪a/aS/bAA

B🡪b/bS/aBB

By using

1. Left most derivation
2. Rightmost derivation
3. Construct a CFG for the language

L={ an bm c dm en| n, m >0 }

1. Construct a Push down automata for the following languge
2. L={am b2m }
3. Consider the following context free grammar

Q🡪0Q1

Q🡪0A1

A🡪10

Design a push down automata to recognize the language generated by the above context free grammar

1. Convert the following grammar into CNF
2. Consider G=(N,T,P,Q0) having productions

Q0🡪A Q0| B Q0|a|b

A🡪B,

B🡪C

C🡪a|b.

1. Q0🡪aA|bBC|ϵ

A🡪Aa|b| ϵ

B🡪BBC|a| ϵ

C🡪b