**CFG rules**

1. S -> aSb | bSa | ba | ab | ε
2. S -> aSbSbS | bSbSaS | bSaSbS | ε
3. S -> aSa | bSb | aTb | bTa, T -> aT | bT | ε S -> aaaT, T-> aaTb | ε
4. S -> aS | aB, B -> aBb | ε