```
1: function ForwardSubstitution()
        imporse an order on the nonterminals, A_1, A_2, \dots, A_n
        for i \leftarrow 1 to n do
            for i \leftarrow 1 to i - 1 do
                if \exists a production A_i \rightarrow A_i \gamma then
                     replace A_i \to A_i \gamma with one or more productions that expand A_i
 6:
                end if
                 rewrite the productions to eliminate any direct left recursion on A_i
            end for
        end for
10:
11: end function
```