Aufgabe 5.1

a)

<Word> ::= <Letter>\*

<Letter> ::= <Parentheses>|<Braces>|<SquareBraces>

<Parentheses> ::= ‘(‘ <Word> ‘)’

<Braces> ::= ‘{‘ <Word> ‘}’

<SquareBraces> ::= ‘[‘ <Word> ‘]’

b) (([]){()})

<Word>

<Letter>

<Parentheses>

‘(‘

<Word>

<Letter>

<Parentheses>

‘(‘

<Word>

<Letter>

<SquareBraces>

‘[‘ <Word> ‘]’

‘[‘ ‘]’

‘)’

<Letter>

<Braces>

‘{‘

<Word>

<Letter>

<Parentheses>

‘(‘ <Word> ‘)’

‘(‘ ‘)’

‘}’

‘)’

c)

<Word> ::= <ZeroPair> | <OnePair> | ´C‘

<ZeroPair> ::= ‘0‘ <Word>‘0‘

<OnePair> ::= ‘1‘ <Word>‘1‘

d) 0101C1010

<Word>

<ZeroPair>

‘0‘

<Word>

<OnePair>

´1´

<Word>

<ZeroPair>

´0´

<Word>

<OnePair>

´1‘

<Word>

´C‘

´1‘

´0‘

´1´

‘0‘