```
Initialize:
  Set Stream to the input text string
  Set currentPosition to 0 and internalQuoteFlag to false
  Set delimiterSet to ', .;:!?() <>+ "\n\t space
  Set whiteSpace to \t\n space
Procedure getNextToken:
  L1: cursor := currentPosition; ch := charAt(cursor);
     If ch = endOfStream then return null; endif
  L2: while ch is not endOfStream nor instanceOf(delimiterSet) do
       increment cursor by 1; ch := charAt(cursor);
    endwhile
     If ch = endOfStream then
       If cursor = currentPosition then return null; endif
    endif
     If ch is whiteSpace then
       If currentPosition = cursor then
         increment currentPosition by 1 and goto L1;
       else
         Token := substring(Stream,currentPosition,cursor-1);
         currentPosition := cursor+1; return Token;
       endif
    endif
     If ch = 'then
       If charAt(cursor-1) = instanceOf(delimiterSet) then
         internalQuoteFlag := true; increment currentPosition by 1; goto L1;
       endif
       If charAt(cursor+1) != instanceof(delimiterSet) then
          increment cursor by 1; ch := charAt(cursor); goto L2;
       elseif internalQuoteFlag = true then
         Token := substring(Stream,currentPosition,cursor-1);
         internalQuoteFlag := false:
       else
         Token := substring(Stream,currentPosition,cursor);
       currentPosition := cursor+1; return Token;
    endif
     If cursor = currentPosition then
       Token := ch; currentPosition := cursor+1;
    else
       Token := substring(Stream,currentPosition,cursor-1);
       currentPosition := cursor:
    endif
    return Token;
endprocedure
```

Fig. 2.2 Tokenization algorithm

Input: a text with periods

Output: same text with End-of-Sentence (EOS) periods identified

Rules:

All?! are EOS

If " or ' appears before period, it is EOS

If the following character is not white space, it is not EOS

If))] before period, it is EOS

If the token to which the period is attached is capitalized and is < 5 characters and the next token begins uppercase, it is not EOS

If the token to which the period is attached has other periods, it is not EOS

If the token to which the period is attached begins with a lowercase letter and the next token following whitespace is uppercase, it is EOS

If the token to which the period is attached has < 2 characters, it is not EOS

If the next token following whitespace begins with \$ ({ [" ' it is EOS Otherwise, the period is not EOS