

```

1:  $word \leftarrow NextWord()$ 
2: push  $eof$  onto stack
3: push the start symbol,  $S$ , onto stack
4:  $focus \leftarrow$  top of stack
5: loop forever
6:   if  $focus = eof$  and  $word = eof$  then
7:     report success and exit the loop
8:   else if  $focus \in T$  or  $focus = eof$  then
9:     if  $focus$  matches  $word$  then
10:      pop stack
11:       $word \leftarrow NextWord()$ 
12:    else
13:      report an error looking for symbol at top of stack
14:    end if
15:  else  $\triangleright focus$  is a nonterminal
16:    if  $Table[focus, word]$  is  $A \rightarrow \beta_1\beta_2 \cdots \beta_k$  then
17:      pop stack
18:      for  $i \leftarrow k$  to 1 do
19:        if  $\beta_i \neq \epsilon$  then
20:          push  $\beta_i$  onto stack
21:        end if
22:      end for
23:    else
24:      report an error expanding  $focus$ 
25:    end if
26:  end if
27:   $focus \leftarrow$  top of stack
28: end

```