```
1: push $
 2: push start state s_0
 3: word \leftarrow NextWord()
 4: loop forever
       state \leftarrow top of stack
       if Action[state, word] = "reduce A \rightarrow \beta_1 \beta_2 \cdots \beta_k" then
           ▷ 因为每次都push两个元素: 一个是符号(终结符或非终结符), 另一个是语法分析的状态
           pop 2k symbols
           state \leftarrow top of stack
           push A
10:
           push Goto[state, A]
11:
       else if Action[state, word] = "shift s_i" then
12:
           push word
13:
14:
           push s_i
           word \leftarrow NextWord()
15:
       else if Action[state, word] = "accept" then
16:
           break
17:
       else
18:
19:
           Fail()
       end if
20:
21: end
22: report success
```