Expecting f

Expecting f

Garbage following <S>-string

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Chapter 4, problems 1, 2, 3
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1. Write a parser based on the following grammar:
      <S> → 'a' <S> 'b'
      <S> → 'c'
   Test your parser with c, acb, aacbb, \lambda, ca, ab, acbb, aacb, and bca.
def S():
    if token == 'a':
         advance()
         S()
         consume('b')
    elif token == 'c':
         advance()
    else:
         raise RuntimeError('expecting a or c')
beesannekurzum@Beesannes-MacBook-Pro Lab4 % python3 q1.py c
beesannekurzum@Beesannes-MacBook-Pro Lab4 % python3 q1.py acb
beesannekurzum@Beesannes-MacBook-Pro Lab4 % python3 q1.py aacbb
beesannekurzum@Beesannes-MacBook-Pro Lab4 % pvthon3 g1.pv ''
expecting a or c
beesannekurzum@Beesannes-MacBook-Pro Lab4 % python3 g1.py ca
Garbage following <S>-string
beesannekurzum@Beesannes-MacBook-Pro Lab4 % python3 q1.py ab
expecting a or c
beesannekurzum@Beesannes-MacBook-Pro Lab4 % python3 q1.py acbb
Garbage following <S>-string
beesannekurzum@Beesannes-MacBook-Pro Lab4 % python3 q1.py aacb
Expecting b
beesannekurzum@Beesannes-MacBook-Pro Lab4 % python3 q1.py bca
expecting a or c
 2. Write a parser based on the following grammar:
     <S> → 'a' <B> 'd'
    <B> → ('b''b')* ['c']
  Test your parser with ad, acd, abbcd, abbbd, abbbbd, abbbbcd, \lambda, abd, abcd, adc, and accd.
def S():
    if token == 'a':
         advance()
         B()
         consume('d')
    elif token == 'd':
         advance()
    else:
         raise RuntimeError ('expecting a')
def B():
    while token == 'b':
         advance()
         consume('b')
    if token == 'c':
         advance()
beesannekurzum@Beesannes-MacBook-Pro Lab4 % python3 q1.py ad
beesannekurzum@Beesannes-MacBook-Pro Lab4 % python3 q1.py acd
beesannekurzum@Beesannes-MacBook-Pro Lab4 % python3 g1.py abbcd
beesannekurzum@Beesannes-MacBook-Pro Lab4 % python3 q1.py abbd
beesannekurzum@Beesannes-MacBook-Pro Lab4 % python3 q1.py abbbbd
beesannekurzum@Beesannes-MacBook-Pro Lab4 % python3 q1.py abbbbcd
beesannekurzum@Beesannes-MacBook-Pro Lab4 % python3 q1.py ''
expecting a
beesannekurzum@Beesannes-MacBook-Pro Lab4 % python3 q1.py abd
Expecting b
beesannekurzum@Beesannes-MacBook-Pro Lab4 % python3 q1.py abcd
Expecting b
beesannekurzum@Beesannes-MacBook-Pro Lab4 % python3 q1.py adc
Garbage following <S>-string
beesannekurzum@Beesannes-MacBook-Pro Lab4 % python3 q1.py accd
Expecting d
3. Write a parser based on the following grammar:
     <S> → 'a'* <B>
     <B> → 'b'* <C>
     <C> → 'c'['d'|'e']'f'
  Test your parser with cf, cdf, cef, aabbcf, acf, bcf, \lambda, cdef, cff, and abc.
def S():
    while token == 'a':
         advance()
    B()
def B():
    while token == 'b':
         advance()
    C()
def C():
    consume('c')
    if token == 'd':
         advance()
    elif token == 'e':
         advance()
    consume('f')
beesannekurzum@Beesannes-MacBook-Pro Lab4 % python3 q1.py cf
beesannekurzum@Beesannes-MacBook-Pro Lab4 % python3 q1.py cdf
beesannekurzum@Beesannes-MacBook-Pro Lab4 % python3 q1.py cef
beesannekurzum@Beesannes-MacBook-Pro Lab4 % python3 q1.py aabbcf
beesannekurzum@Beesannes-MacBook-Pro Lab4 % python3 g1.py acf
beesannekurzum@Beesannes-MacBook-Pro Lab4 % python3 q1.py bcf
beesannekurzum@Beesannes-MacBook-Pro Lab4 % python3 q1.py ''
Expecting c
beesannekurzum@Beesannes-MacBook-Pro Lab4 % python3 q1.py cdef
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beesannekurzum@Beesannes-MacBook-Pro Lab4 % python3 q1.py cff

beesannekurzum@Beesannes-MacBook-Pro Lab4 % python3 q1.py abc