Monday, September 13, 2021 10:48 AM

Predictive Rearsive descent parsing

1- One garse function per non-terminal

2- When parse-X() is called

- success:-tart of the input that corresponds

to x is "consumed"

- nothing else is consumed

- to consume X, we need to

consume the RHS of one of

the rules of X

- failure: syntax-error() and exit

Project

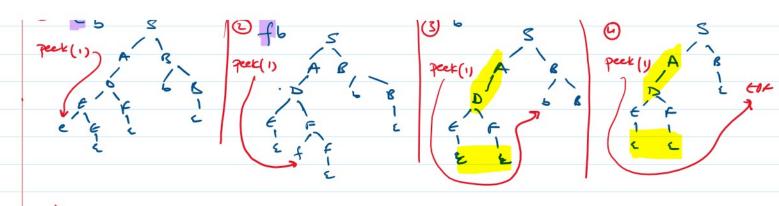
Input -> tokens-sechion =NPUT_TXT

porse-input()

```
parse_input()
{
    parse_tokens.sechion();

    expect (INPUT_TXT);

    expect (END_OF_FILE);
                       parse_S()
   S -> A B
                                                             A
   A -> a C | D
                             parse - AC);
   3 | D o <- D
                             perse - B();
   D -> E F
   E -> e E | E
   F -> f F | E
   B -> b B | E
                        parse_A()
   S -> A B
   A -> a C | D
                               t = peck(1);
   3 | D o <- D
   D -> E F
                               if (t. to ken-type == a-type)
   E -> e E | E
   F -> f F | E
                                          expect (a-type),
   B -> b B | E
                                          Pars - (();
                               3 else if ((+. toka-type == e-type) 1
(+. token-type == f-type)
Porse-D(),
                                ] else if ((+. toker-type == b-type))
(+. toker-type == 60E))
                                          parse - D()
                                 } else
syntax-error()
0 es s
```



```
S-> AB
A > a C | D
C > c C | E
D > E F
E > e E | E
F > f F | E
B > b B | E

Parse - C

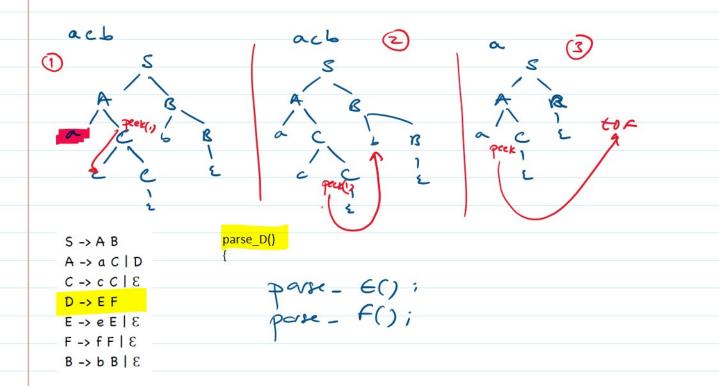
(t. to ken - type == b - type)

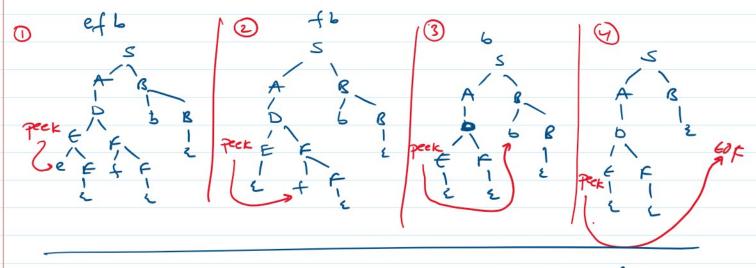
(t. to ken - type == 6 0 €)

Actural

Return | // ( -> 2

Syntax - e ror ();
```





Given a grammer, we are going to calculate FIKST sets for all symbols including & and FOCCON sets for non-terminals

