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1  Parser Aritmetiche Formula Infissa
2  Esercizio 3.1
3  Ming Su
4  912239
5
6  E-->TE'
7  E'-->+TE' | -TE' | ε          NULL
8  T-->FT'
9  T'-->*FT' | /FT' | ε          NULL
10 F-->(E) | NUM
11
12 FIRST:
13 FIRST(E) == FIRST(TE')=FIRST(T) = { (, NUM }
14 FIRST(E') == FIRST(+TE') U FIRST (-TE') U FIRST(ε) = { +, - }
15 FIRST(T) == FIRST(FT')=FIRST(FIRST F) = { (, NUM }
16 FIRST(T') == FIRST(*FT') U FIRST(/FT') U FIRST(ε) = { *, / }
17 FIRST(F) == FIRST((E)) U FIRST(NUM) = { (, NUM ) }
18
19 FOLLOW:
20 $FOLLOW(E)
21 E -->TE' { +, - } = FIRST(E') <= FOLLOW(T)
22                     FOLLOW(E) <= FOLLOW(T)
23                     FOLLOW(E) <= FOLLOW(E')
24 E' -->+TE' = FIRST(E') <= FOLLOW(T)
25 E' -->-TE' = FIRST(E') <= FOLLOW(T)
26 T -->FT' = FIRST(T') <= FOLLOW(F)
27           FOLLOW(T) <= FOLLOW(F)
28 T' -->*FT' = FIRST(T') <= FOLLOW(F)
29 F -->(E) = F FIRST() <= FOLLOW(E)
30
31 TAB:
32 X FOLLOW(X)
33 -----
34 E { $, ) }
35 E' { $, ) }
36 T { $, ) , +, - }
37 T' { $, ) , +, - }
38 F { $, ) , +, -, *, / }
39
40 GUIDA:
41
42 GUIDA(E-->TE') = FIRST(TE')=FIRST(T) = { (, NUM }
43 GUIDA(E'-->+TE') = FIRST(+TE') = { + }
44 GUIDA(E'-->ε) = FIRST(ε) U FOLLOW(E') = { $, ) }
45 GUIDA(E'-TE') = FIRST(-TE') = { - }
46 GUIDA(T-->FT') = FIRST(FT') = { (, NUM }
47 GUIDA(T'-->*FT') = FIRST(*FT') = { * }
48 GUIDA(T'-->ε) = FIRST(ε) U FOLLOW(T') = { $, ) , +, - }
49 GUIDA(E-->/FT') = FIRST(/FT') = { / }
50 GUIDA(F-->(E)) = FIRST((E)) = { ( }
51 GUIDA(F-->NUM) = FIRST(NUM) = { NUM }
52

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