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---- LL(1) grammar specification -----
Number of grammar variables? 5
More than one character for a variable supported
Variable 1: E
Variable 2: E'
Variable 3: T
Variable 4: T'
Variable 5: F
Number of terminals? 6
Please consider epsilon as e. You may enter more than one
character for each terminal
Terminal 1: id
Terminal 2: (
Terminal 3: )
Terminal 4: +
Terminal 5: *
Terminal 6: e
Number of rules?8
Please (in RHS) give a whitespace between successive entities
(terminals, non-terminals, or terminal non-terminal) else
the code will match largest prefix of RHS to terminal/variable
Rule 1 LHS variable: E
Rule 1 RHS string: T E'
Rule 2 LHS variable: E'
Rule 2 RHS string: + T E'
Rule 3 LHS variable: E'
Rule 3 RHS string: e
Rule 4 LHS variable: T
Rule 4 RHS string: F T'
Rule 5 LHS variable: T'
Rule 5 RHS string: * F T'
Rule 6 LHS variable: T'
Rule 6 RHS string: e
Rule 7 LHS variable: F
Rule 7 RHS string: (E)
Rule 8 LHS variable: F
Rule 8 RHS string: id
Start symbol: E
----- LL(1) grammar specifics entered -----
Variables: E E' T T' F
Terminals: id ( ) + * e
Grammar rules:
E -> T E'
E' -> + T E'
E' -> e
T -> F T'
T' -> * F T'
T' -> e
```

```
F -> ( E )
F \rightarrow id
----- FIRST SET -----
E: ( id
E': + e
T: ( id
T': * e
F: ( id
----- FOLLOW SET -----
E: $ )
E': E E' $ ) E E'
T: + e + e
T': T T' + e + e T T' ) $
F: * e * e
----- NUMBERED PRODUCTIONS -----
0: E -> T E'
1: E' -> + T E'
2: E' -> e
3: T -> F T'
4: T' -> * F T'
5: T' -> e
6: F -> ( E )
7: F -> id
----- PREDICTIVE PARSING TABLE -----
        ( ) + * e
    id
                           $
Ε
         0 -1 -1 -1 -1
E'
                 1
                        2
   -1
        -1 2
                    -1
Τ
    3
       3
            -1 -1 -1 -1
Τ'
   -1 -1
                 5
            5
                    4
                        5
                            5
        6 \quad -1 \quad -1 \quad -1 \quad -1
F
    ----- INPUT STRING -----
Enter the input string: id + id * id *
        id+id*id$
E$
TE'$
        id+id*id$
FT'E'$
            id+id*id$
idT'E'$
            id+id*id$
T'E'$
            +id*id$
eE'$
        +id*id$
E'$
        +id*id$
+TE'$
            +id*id$
TE'$
        id*id$
FT'E'$
            id*id$
idT'E'$
            id*id$
T'E'$
            *id$
*FT'E'$
            *id$
FT'E'$
            id$
idT'E'$
            id$
T'E'$
            $
eE'$
E'$
        $
```

```
e$
         $
$
         $
Underflow
----- INPUT STRING -----
Enter the input string: id
E$
         id
TE'$
         id
FT'E'$
             id
idT'E'$
             id
            INPUT STRING -----
Enter the input string: id * ( id + id ) $
E$T'E'
             id*(id+id)$
TE'$T'E'
             id*(id+id)$
FT'E'$T'E'
                  id*(id+id)$
idT'E'$T'E'
                  id*(id+id)$
T'E'$T'E'
                 *(id+id)$
*FT'E'$T'E'
                 *(id+id)$
FT'E'$T'E'
                  (id+id)$
(E)T'E'$T'E'
                  (id+id)$
E)T'E'$T'E'
                  id+id)$
TE')T'E'$T'E'
                      id+id)$
FT'E')T'E'$T'E'
                      id+id)$
idT'E')T'E'$T'E'
                      id+id)$
T'E')T'E'$T'E'
                      +id)$
eE')T'E'$T'E'
                      +id)$
E')T'E'$T'E'
                 +id)$
+TE')T'E'$T'E'
                      +id)$
TE')T'E'$T'E'
                      id)$
FT'E')T'E'$T'E'
                      id)$
idT'E')T'E'$T'E'
                      id)$
T'E')T'E'$T'E'
                      )$
eE')T'E'$T'E'
                      )$
E')T'E'$T'E'
                  )$
e)T'E'$T'E'
                  )$
)T'E'$T'E'
                  )$
T'E'$T'E'
                  $
eE'$T'E'
             $
E'$T'E'
e$T'E'
$T'E'
T'E'
         $ $ $ $
$
eE'
Ε'
e
Underflow
---- INPUT STRING ---
Enter the input string: id + $
```

```
E$
        id+$
TE'$
        id+$
FT'E'$
            id+$
idT'E'$
            id+$
T'E'$
            +$
eE'$
        +$
E'$
        +$
+TE'$
            +$
TE'$
        $
Error in parsing
----- INPUT STRING -----
Enter the input string: id $
E$E'$
            id$
TE'$E'$
            id$
FT'E'$E'$
idT'E'$E'$
                 id$
                 id$
T'E'$E'$
            $
$
$
$
eE'$E'$
E'$E'$
e$E'$
$E'$
        $
$
$
E'$
e$
$
Underflow
----- INPUT STRING -----
Enter the input string: * $
E$
        *$
Error in parsing
----- INPUT STRING -----
Enter the input string:
```