| CFG | First | follow |
|---|---|---|
| E → E + T | First (E) = { (, id } | Follow (E) = { +, ), $ } |
| E → T | First (T) = { (, id } | Follow (T) = { +, *, ), $ } |
| T → T * F | First (F) = { (, id } | Follow (F) = { +, *, ), $ } |
| T → F | | |
| F → ( E ) | | |
| F → id | | |

Parse tree    ( id + id ) * id $
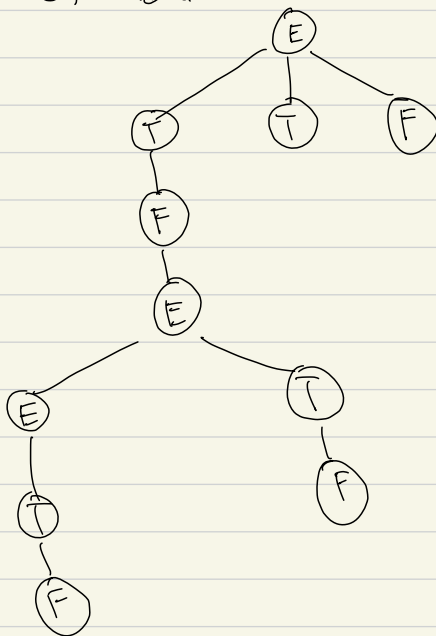
① Shift (
② Shift id
③ reduce by rule 6 (F→id)
④ reduce by rule 4 (T→F)
⑤ reduce by rule 2 (E→T)
⑥ Shift '+'
⑦ Shift id
⑧ reduce by rule 6 (F→id)
⑨ reduce by rule 4 (T→F)
⑩ reduce by rule 1 (E→E+T)
⑪ Shift )
⑫ reduce by rule 5 (F→(E))
⑬ reduce by rule 4 (T→F)
⑭ Shift '*'
⑮ Shift id
⑯ reduce by rule 6 (F→id)
⑰ reduce by rule 3 (T→T*F)

Id Id $



① Shift (

② reduce rule 6 (F→Id)

③ reduce by rule 4 (T→F)

④ Shift *

⑤ Shift Id

⑥ reduce by rule 6 (F→Id)

⑦ reduce by rule 3 (T→T*F)
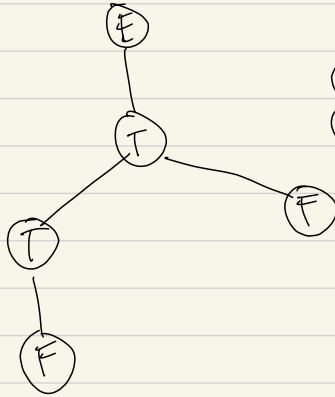
⑧ reduce by rule 2 (E→T)

⑨ accept

(Id *) $  :  not accepted

① Shift to State 4

② Shift to State 5

③ reduce to rule 6 (F→Id)

④ reduce by rule 4 (T→F)

⑤ Shift State 7

⑥ none

Cannot be accepted