求 First集和 Follow集

Follon看产生式名边 何!

G[s]: First集

First (s) = { a} 5->aH First (H) = {a,d} H-aMd

First (M) = (E) U First (A) = (a,e,E) H>d

First (A) = [a,e] M>Ab

M->8

F' -> * F' | E

P > (E) |a|b| 1

 $A \rightarrow aM$

A->e

例2:

First (E) = {(, a, b. 1) G(E):

First (E') = 9 +, E} E->TE

First(T) = 9 (, a, b, 1)

First (T') = { (, a, b, 1, E) E' →+E18

First(F) = 1 (, a,b, 1) T→FT' First(F') = 1 * , E)

T'>T18

First(P) = ? (, a, b, 1) F7PF'

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Follow住:
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①文法开始符: 必有个#

- ② A > Q B 可求 Follow (B) 且 B 后控,将 Follow (A) 加入到 Follow (B)中
- ③ A→ XBB 「B是一个终结符 X ,直接将 X 加至 Follow (B) P是一个非终结符》,直接将First(B)加入到Follow(B)一被常 印除去包 睹游 按回处理 代入后

例3:

求例1中文法的Follow集

何十:

{ E → E T' → E F' → E 求例2中文法的 Follow集 Follow(E) = (#,) Follow (E') = {#,) Follow (T) = {+, #,)} Follow(F) = $\{+, \#, \}$ Follow(F) = $\{(, a, b, \Lambda, +, \#, \}\}$ Follow(F') = $\{(, a, b, \Lambda, +, \#, \}\}$ Follow(P) = $\{*, (, a, b, +, \Lambda, \#, \}\}$