

Atribuição complementar - T21

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Conjunto de não terminais = { P', P, V, A, LV, D, TIPO, L, ES, ARG, CMD, LD
OPRD, COND, CAB, CP, EXP_R, R, CP_R }

Conjuntos First:

$$\text{First}(P') = \text{First}(P) = \{\text{início}\}$$

$$\text{First}(P) = \{\text{início}\}$$

$$\text{First}(V) = \{\text{ver ínicio}\}$$

$$\text{First}(LV) = \{\text{ver fim}\} \cup \text{First}(D) = \{\text{ver fim}\} \cup \text{First(TIPO)} = \{\text{ver ínicio, íntimo, real, literal}\}$$

$$\text{First}(D) = \text{First}(TIPO) = \{\text{íntimo, real, literal}\}$$

$$\text{First}(L) = \{id\}$$

$$\text{First}(TIPO) = \{\text{íntimo, real, literal}\}$$

$$\begin{aligned} \text{First}(A) &= \{\text{fim}\} \cup \text{First}(ES) \cup \text{First}(CMD) \cup \text{First}(COND) \cup \text{First}(R) \\ &= \{\text{fim, leia, escreva, id, se, repita}\} \end{aligned}$$

$$\text{First}(ES) = \{\text{leia, escreva}\}$$

$$\text{First}(ARG) = \{\text{lit, num, id}\}$$

$$\text{First}(CMD) = \{id\}$$

$$\text{First}(LD) = \text{First}(OPRD) = \{id, num\}$$

$$\text{First}(OPRD) = \{id, num\}$$

$$\text{First}(COND) = \text{First}(CAB) = \{se\}$$

$$\text{First}(CAB) = \{se\}$$

$$\text{First}(EXP_R) = \text{First}(OPRD) = \{id, num\}$$

$$\text{First}(CP) = \text{First}(ES) \cup \text{First}(CMD) \cup \text{First}(COND) = \{\text{leia, escreva, id, return}\}$$

$$\text{First}(R) = \{repita\}$$

$$\begin{aligned} \text{First}(CP_R) &= \text{First}(ES) \cup \text{First}(CMD) \cup \text{First}(COND) \cup \{\text{fim repita}\} = \\ &= \{\text{leia, escreva, id, se, fim repita}\} \end{aligned}$$

Conjunto Follow

Follow(P¹) = { \$ }

Follow(P) = { \$ }

Follow(V) = First(A) = { fim, leia, escreva, se, repita }

Follow(LV) = Follow(V) = { fim, leia, escreva, se, repita }

Follow(D) = First(LV) = { vorfim, inteiro, real, literal }

Follow(L) = First(;) = { ; }

Follow(tipo) = First(L) = { id }

Follow(A) = Follow(P) = { \$ }

Follow(ES) = First(A) \cup First(CP) \cup First(CP_R) =

= { fim, leia, escreva, id, se, repita, fimse, fimrepita }

Follow(ARG) = First(;) = { ; }, leia, escreva, id, se, repita, fimse, fimrepita

Follow(CM) = First(A) \cup First(CP) \cup First(CP_R)

= { fim, leia, escreva, id, se, repita, fimse, fimrepita }

Follow(LD) = First(;) = { ; }, leia, escreva, id, se, repita, fimse, fimrepita

Follow(OPR)) = First(opm) \cup Follow(LD) \cup First(opr) \cup Follow(EXP_R)

= { opm, (), OPR,) }

Follow(COND) = First(A) \cup First(CP) \cup First(CP_R) =

= { fim, leia, escreva, id, se, repita, fimse, fimrepita }

Follow(CAB) = First(CP) = { leia, id, escreva, se, fimse }

Follow(EXP_R) = First()) = {) }

Follow(CP) = Follow(COND) = { fim, leia, escreva, id, se, repita, fimse, fimrepita }

Follow(R) = First(A) = { fim, leia, escreva, id, se, repita }

Follow(CP_R) = { \$ }