Para a gramática a seguir, faça:

1. a tabela de análise preditiva tabular
2. o reconhecimento da sentença: **a + a + a**

G = ({E, T, E´}, {+, a}, P, E)

P: { E -> TE’

E’-> +TE’ | ε

T -> a

}

FIRST (E) = { a }

FIRST (E’) = { +, ε}

FIRST (T) = { a }

FOLLOW (E) = { $ }

FOLLOW (E’) = FOLLOW (E) = { $ }

FOLLOW (T) = FIRST (E’) + FOLLOW (E’) = { +, $}

TABELA DE ANÁLISE PREDITIVA TABULAR

|  |  |  |  |
| --- | --- | --- | --- |
|  | + | a | $ |
| E |  | E -> TE’ |  |
| E’ | E’-> +TE’ |  | E’-> ε |
| T |  | T -> a |  |

E -> TE’ => FIRST (TE’) = {a}

E -> TE’ => M [E, a]

E’-> +TE’ => FIRST (+TE’) = { +}

E’-> +TE’ => M [E’, +]

E’-> ε => FOLLOW (E’) = {$}

E’-> ε => M [E’, $]

T -> a => FIRST (a) = {a}

T -> a => M [T, a]

TESTAR SENTENÇA : **a + a + a**

|  |  |  |
| --- | --- | --- |
| PILHA | ENTRADA | SAÍDA |
| $E | a + a + a$ | E -> TE’ |
| $E’T | a + a + a$ | T -> a |
| $E’a | a + a + a$ |  |
| $E’ | + a + a$ | E’-> +TE’ |
| $E’T+ | + a + a$ |  |
| $E’T | a + a$ | T -> a |
| $E’a | a + a$ |  |
| $E’ | + a$ | E’-> +TE’ |
| $E’T+ | + a$ |  |
| $E’T | a$ | T -> a |
| $E’a | a$ |  |
| $E’ | $ | E’-> ε |
| $ | $ |  |