|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  |  | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | p | q | r | s | ( | ) | \* | / | + | - | = | ; | : | , | $ |
| <prog> | P |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| <identifier> | I |  |  |  |  |  |  |  |  |  |  | Le PI | Le PI | Le PI | Le PI |  |  |  |  |  |  |  |  |  |  |  |
| <post-identifier> | PI | Di PI | Di PI | Di PI | Di PI | Di PI | Di PI | Di PI | Di PI | Di PI | Di PI | Le PI | Le PI | Le PI | Le PI |  | λ | λ | λ | λ | λ | λ | λ | λ | λ |  |
| <dec-list> | DL |  |  |  |  |  |  |  |  |  |  | D : T ; | D : T ; | D : T ; | D : T ; |  |  |  |  |  |  |  |  |  |  |  |
| <dec> | D |  |  |  |  |  |  |  |  |  |  | I , D | I , D | I , D | I , D |  |  |  |  |  |  |  |  |  |  |  |
| <type> | T |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| <stat-list> | SL |  |  |  |  |  |  |  |  |  |  | S SL | S SL | S SL | S SL |  |  |  |  |  |  |  |  |  |  |  |
| <stat> | S |  |  |  |  |  |  |  |  |  |  | A | A | A | A |  |  |  |  |  |  |  |  |  |  |  |
| <write> | W |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| <str> | St |  |  |  |  |  |  |  |  |  |  | λ | λ | λ | λ |  |  |  |  |  |  |  |  |  |  |  |
| <assign> | A |  |  |  |  |  |  |  |  |  |  | I = E ; | I = E ; | I = E ; | I = E ; |  |  |  |  |  |  |  |  |  |  |  |
| <expr> | E | Te PE | Te PE | Te PE | Te PE | Te PE | Te PE | Te PE | Te PE | Te PE | Te PE | Te PE | Te PE | Te PE | Te PE | Te PE |  |  |  | Te PE | Te PE |  |  |  |  |  |
| <post-expr> | PE |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | λ |  |  | + Te PE | - Te PE |  | λ |  |  |  |
| <term> | Te | F PT | F PT | F PT | F PT | F PT | F PT | F PT | F PT | F PT | F PT | F PT | F PT | F PT | F PT | F PT |  |  |  | F PT | F PT |  |  |  |  |  |
| <post-term> | PE |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | λ | \* F PT | / F PT | λ | λ |  | λ |  |  |  |
| <factor> | F | N | N | N | N | N | N | N | N | N | N | I | I | I | I | ( E ) |  |  |  | N | N |  |  |  |  |  |
| <number> | N |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | Sn Di PN | Sn Di PN |  |  |  |  |  |
| <post-number> | PN | Di PN | Di PN | Di PN | Di PN | Di PN | Di PN | Di PN | Di PN | Di PN | Di PN |  |  |  |  |  | λ | λ | λ | λ | λ |  | λ |  |  |  |
| <sign> | Sn | λ | λ | λ | λ | λ | λ | λ | λ | λ | λ |  |  |  |  |  |  |  |  | + | - |  |  |  |  |  |
| <digit> | Di | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| <letter> | Le | p | q | r | s |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |

Predictive Parsing Table

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  |  | write | integer | “value=” | program | var | begin | end. |
| <prog> | P |  |  |  | program I, var DL begin SL end. |  |  |  |
| <identifier> | I |  |  |  |  |  |  |  |
| <post-identifier> | PI |  |  |  |  |  |  |  |
| <dec-list> | DL |  |  |  |  |  |  |  |
| <dec> | D |  |  |  |  |  |  |  |
| <type> | T |  | integer |  |  |  |  |  |
| <stat-list> | SL | S SL |  |  |  |  |  |  |
| <stat> | S | W |  |  |  |  |  |  |
| <write> | W | write ( St I ) ; |  |  |  |  |  |  |
| <str> | St |  |  | “value=” , |  |  |  |  |
| <assign> | A |  |  |  |  |  |  |  |
| <expr> | E |  |  |  |  |  |  |  |
| <post-expr> | PE |  |  |  |  |  |  |  |
| <term> | Te |  |  |  |  |  |  |  |
| <post-term> | PE |  |  |  |  |  |  |  |
| <factor> | F |  |  |  |  |  |  |  |
| <number> | N |  |  |  |  |  |  |  |
| <post-number> | PN |  |  |  |  |  |  |  |
| <sign> | Sn |  |  |  |  |  |  |  |
| <digit> | Di |  |  |  |  |  |  |  |
| <letter> | Le |  |  |  |  |  |  |  |