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| --- | --- | --- | --- |
| Non-Terminals | First Set | Follow Set | Selection Set |
|  |  |  |  |
| <start> | def  f(Class)  f(for)  f(while)  f(if)  f(try)  f(del)  f(initialize)  € | ~  Fo(start)  Fo(start)  Fo(start)  Fo(start)  Fo(start)  Fo(start)  Fo(start)  Fo(start) |  |
| <initialize> | ID  F(const)  \*  accessModifier  f(static\_final) | nl  Fo(global)  Fo(S\_St)  nl |  |
| <init1> | AsOp  =  F(init2) | Fo(initialize)  Fo(s\_st) |  |
| <init2> | \*, DM, PM, RelOp, And, Or, in | Fo(initialize)  Fo(init1) |  |
| <init3> | accessModifier  f(init4) | Fo(initialize) |  |
| <init4> | F(static\_final)  ID | Fo(init3)  Fo(init3) |  |
| <init5> | F(const)  ID  F(list)  F(dict)  F(class\_call) |  |  |
| <init6> | =  F(OE) | Fo(initialize)  Fo(init1)  Fo(init4)  Fo(init4)  Fo(init6) |  |
| <AM> | accessModifier, € | ID  F(function\_) |  |
| <static\_final> | static, final | ID  ID  ID |  |
| <s\_final> | final, € | Fo(static\_final) |  |
| <id\_const> | ID  F(const) | F(OE)  F(list4)  :  F(dictionary6) |  |
| <const> | int\_const, float\_const, string\_const, char\_const, bool\_const | F(init2)  F(OE)  Fo(id\_const)  F(In) |  |
| <Global> | global | Fo(S\_St) |  |
| <pointer> | \*, € | ID  ID |  |
| <OE> | F(exp\_MDM) | Fo(init)  Fo(init5)  Fo(init6) |  |
| <exp> | F(expAND) | )  Fo(S\_St)  F(arg\_list\_call1)  F(arg\_list\_call1)  )  )  )  ]  Fo(lambda) |  |
| <exp\_OR> | Or, € | F(in)  Fo(OE)  Fo(exp) Fo(exp\_OR) |  |
| <expAND> | F(expRELOP) | F(exp\_OR)  F(exp\_OR)  F(exp\_OR) |  |
| <exp\_AND> | AND, € | F(exp\_OR)  F(exp\_OR)  Fo(expAND) Fo(exp\_AND) |  |
| <expRELOP> | F(expPM) | F(exp\_AND)  F(exp\_AND)  F(exp\_AND) |  |
| <exp\_RELOP> | RelOp, € | F(exp\_AND)  F(exp\_AND)  Fo(expRELOP) Fo(exp\_RELOP) |  |
| <expPM> | F(expMDM) | F(exp\_RELOP)  F(exp\_RELOP)  F(exp\_RELOP) |  |
| <exp\_PM> | PM, € | F(exp\_RELOP)  F(exp\_RELOP)  Fo(expPM) Fo(exp\_PM) |  |
| <expMDM> | F(exp\_F) | F(exp\_PM)  F(exp\_PM)  F(exp\_PM) |  |
| <exp\_MDM> | DM, \*, € | F(exp\_PM)  F(exp\_PM)  Fo(expMDM) Fo(exp\_MDM) |  |
| <exp\_F> | F(this)  F(const)  (  Not  F(lambda) | F(exp\_MDM)  F(exp\_MDM)  F(exp\_MDM)  F(exp\_MDM)  Fo(exp\_F) |  |
| <ID\_rel> | [, (, AcOp, € | F(init1)  =  =  =  F(init6)  F(in)  Fo(ID\_rel)  Fo(ID\_rel1)  F(init1) |  |
| <ID\_rel1> | AcOp  F(ID\_rel2) | Fo(ID\_rel)  Fo(ID\_rel)  Fo(ID\_rel2) |  |
| <ID\_rel2> | [, € | Fo(ID\_rel1) |  |
| <This> | this, € | ID |  |
|  |  |  |  |
|  |  |  |  |
| <In> | in, € | Fo(init2)  Fo(exp\_F)  Fo(exp\_F) |  |
| <In\_> | ID  F(List) | Fo(Init2)  Fo(in) |  |
| <body> | F(S\_St)  nl  pass | Fo(constructor)  Fo(function\_)  Fo(function\_)  Fo(for)  Fo(while)  F(elif)  F(elif)  Fo(else)  F(except)  F(except)  Fo(finally) |  |
| <M\_St> | F(S\_St) | IndentOut  Fo(M\_St\_) |  |
| <M\_St\_> | F(M\_St)  € | Fo(M\_St) |  |
| <S\_St> | Return  F(for)  F(while)  F(if)  F(try)  F(del)  F(global)  this  F(initialize) | nl  nl |  |
| <NL> | nl, € | F(m\_st\_)  IndentOut |  |
| <Class> | Class | F(start) |  |
| <Inherit> | ID, € | ) |  |
| <Inherit\_> | ,, € | Fo(inherit) |  |
| <class\_body> | F(class\_body1)  pass | IndentOut |  |
| <class\_body1> | F(initialize)  def | Fo(class\_body) |  |
| <class\_body2> | F(constructor)  F(function) | F(class\_body3) |  |
| <class\_body3> | F(class\_body1)  € | Fo(class\_body1)  Fo(class\_body1) |  |
| <Class\_call> | New | Fo(init5) |  |
| <constructor> | F(AM) | Fo(class\_body2) |  |
| <arg\_list> | F(data\_type)  € | )  ) |  |
| <arg\_list1> | ,, € | Fo(arg\_list)  Fo(arg\_list1) |  |
| <arg\_list\_call> | F(exp)  € | )  )  )  ) |  |
| <arg\_list\_call1> | ,, € | Fo(arg\_list\_call)  Fo(arg\_list\_call1) |  |
| <function> | F(data\_type) | F(start)  Fo(class\_body2) |  |
| <function\_> | F(static\_final)  ID | Fo(function) |  |
| <data\_type> | DT, string | F(pointer)  F(pointer)  F(AM) |  |
| <For> | for | F(start)  Fo(S\_St) |  |
| <For\_> | (, € | : |  |
| <While> | while | F(start)  Fo(S\_St) |  |
| <If> | If | F(start)  Fo(S\_St) |  |
| <Elif> | elif  F(else) | Fo(if)  Fo(elif) |  |
| <Else> | else, € | Fo(elif) |  |
| <List> | F(list2)  List | Fo(init5)  Fo(in\_) |  |
| <List1> | F(List2)  ID | ) |  |
| <List2> | [ | Fo(list)  Fo(list1)  F(list4) |  |
| <List3> | F(List5)  € | ] |  |
| <List4> | ,, € | Fo(list5)  Fo(list5) |  |
| <List5> | F(id\_const)  F(list2) | Fo(list3)  Fo(list4) |  |
| <Dictionary> | F(Dictionary2)  dict | Fo(init5) |  |
| <Dictionary1> | ID  F(Dictionary2) | ) |  |
| <Dictionary2> | { | Fo(dictionary)  Fo(dictionary1)  F(dictionary6) |  |
| <Dictionary3> | F(id\_const) | }  Fo(dictionary6) |  |
| <Dictionary4> | F(id\_const)  F(Dictionary2) | Fo(dictionary3) |  |
| <Dictionary6> | ,, € | Fo(dictionary4)  Fo(dictionary4) |  |
| <Del> | del | Nl  Fo(S\_St) |  |
| <Del\_> | [, € | Fo(del) |  |
| <Try> | try | F(start)  Fo(S\_St) |  |
| <Except> | F(finally)  except | Fo(try)  Fo(except) |  |
| <Finally> | finally | Fo(except) |  |
| <exception> | exception | ) |  |
| <Lambda> | lambda | Fo(exp\_F) |  |
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