```
------Starting-----
                  <class><defs> int<Start'> main(){<MST><ret>}<defs>
<Start>
               | <enum><defs> int<Start'> main(){<MST><ret>}<defs>
               | static<st><defs> int<Start'> main(){<MST><ret>}<defs>
               | virtual<vi><defs> int<Start'> main(){<MST><ret>}<defs>
               | void ID(<argu>)<void_dec><defs> int<Start'> main(){<MST><ret>}<defs>
               const DT ID <defs1><defs> int<Start'> main(){<MST><ret>}<defs>
               | int<Start'> main(){<MST><ret>}<defs>
               | ID ID<defs3><defs> int<Start'> main(){<MST><ret>}<defs>
               | <DT_ot> ID<defs2><defs> int<Start'> main(){<MST><ret>}<defs>
               ID<defs2><defs><Start"> | NULL
                int <Start'>
<Start''>
                <class><defs>
<defs>
               | <enum><defs>
               | static<st><defs>
               | virtual<vi><defs>
               | void ID(<argu>)<void_dec><defs>
               | const DT ID <defs1><defs>
               | <DT_ot> ID<defs2><defs>
               | ID ID<defs3><defs>
               | NULL
                float | string | char | bool
<DT_ot> -
```

```
<AE> <RE><AE'>
           * && <RE><AE'> | NULL
<RE>
           <E><RE'>
          * RO <E><RE'> | NULL
         ▼ <T><E'>
<E>-
          PM <T><E'> | NULL
          <F><T'>
          MDM <F><T'> | NULL
<F> ID<dot> | <const> | (<OE>) | !<F> | inc/dec ID
<dot> ID<dot> | (<param>).ID<dot> | [<OE>]<Dim>.ID<dot> | inc/dec | NULL
           → [<OE>] | NULL
             <OE><par> | NULL
           /<OE><par> | NULL
-----Variable-----
<Dec> const DT ID = <OE><List> | DT ID <init><List>
          → = <OE> | NULL
<List> , ID <init><List> | ;
-----Function-----
         void ID(<argu>)<vi1> | DT ID(<argu>)<vi2> | ID ID(<argu>)<vi2>
          = 0; | ; | {<MST>}
<vi1>
          = 0; | ; | {<MST><ret>}
<vi2>____
```

```
<st> void ID(<argu>)<void_dec> | DT ID(<argu>)<dec> | ID ID(<argu>)<dec>
<void_dec> ; | {<MST>}
        ; | {<MST><ret>}
<ret> return <OE>;
<argu> <argu1> | ID ID<arr><argu1> | NULL
<CT> const | NULL
         , <argu2> | NULL
<argu2> DT ID<Arr><argu1> | ID ID<Arr><argu1>
→ <0E> | NULL
-----Jump-----
<jump> Jump statements; | NULL
------While-----
<while> while (<OE>)<Body_wh>
<Body_wh> ; | {<MST><jump>}
-----Func Call-----
<d'> .ID<d'> | [<OE>]<Dim>.ID<d'> | NULL
<Dim> [<OE>] | NULL
<param> <OE><par> | NULL
```

```
,<OE><par> | NULL
-----Constructor----
             ; | {<MST>} | NULL
-----Class----
               class ID<seal>;
               final {<Body>} | : Access_Modifier ID <class'> {<Body>} | {<Body>} | NULL
                , Access_Modifier ID <class'> | NULL
<class'>
                <class><Body>
<Body>
              | <enum><Body>
              | static<st><Body>
              | virtual<vi><Body>
              | void ID(<argu>)<void_dec><Body>
              | const DT ID <defs1><Body>
              | DT ID<defs2><Body>
              | ID<Bd><Body>
              | ~ID()<con'><Body>
              | Access_Modifier : <Body>
              | NULL
              ID<defs3> | (<argu>)<con'>
<Bd>"
 ------Object-----
```

```
<PC> (<OE><A>) | NULL
<other_obj> ; | ,ID<PC><other_obj>
----enum-----
<enum>
            enum ID{<values>};
             ► ID<val> | NULL
<values>
           ,ID<val> | =<const><val'> | NULL
           ID<val> | NULL
<val'> -
-----inc/dec----
<t> this. | NULL
<inc dec> <t>ID <d'><1 A> inc/dec <other inc dec>; | inc/dec <t>ID <1 A> <other inc dec>;
<other_inc_dec> ,<inc_dec> | NULL
-----For-----
          for(<F1> <F2>; <F3>) <for'>
           <Dec> | <assignment>
           <OE> | NULL
<F2>
            this.ID <d'><I_A> <SST_th>
<F3> -
            | ID <d'><I_A> <SST_th>
            | inc/dec <t>ID <I A> <other inc dec>;
            | NULL
```

```
<for'> ; | {<MST><jump>}
  ------Do While------
<do_while> do{<MST><jump>}while(<OE>);
-----If-----
<if> if(<OE>)<if'><else>
        ; | {<MST><jump>}
<else> else<if'> | NULL
-----Array-----
<A> ,<OE><A> | NULL
        <OE>]<Dim> <A7> | ]<Dim> = {<OE><A>}<A8>
        ; | ,ID[<A1>] = {<OE><A>}<A2>
<A3>
        ; | = {<A4>}
         ► ID<A5><A6>
<A4>
         (<param>) | [<OE>] | NULL
         • ,ID<A5> | NULL
<A6>
         ; | = {<OE><A>}<A2>
         *; | ,ID[<SIZE>
<88>
```

-----Assignment-----