

```

TOKEN : /* OPERATORS */
{
    < TYPE : "tnum">{System.out.println("TYPE "+image); }
| < TYPESTR : "tstr">{System.out.println("YPESTR "+image); }
| < WRITE : "write">{System.out.println("WRITE "+image); }
| < CLASS : "program" >{System.out.println("CLASS "+image); }
| < FUN : "public static void main()" >{System.out.println("FUN "+image); }
| < IF : "if" > { System.out.println("if "+ image); }
| < FOR : "for" > { System.out.println("for "+ image); }
| < PLUS : "+"|"-"|"*"|"/" >{System.out.println("PLUS "+image); }
| < NUM : ([ "0"-"9"])+>{System.out.println("NUM "+image); }
| < EQUAL : "=" >{System.out.println("EQUAL "+image); }
| < EQ : "=="|"<=">{System.out.println("EQ "+image); }
| < LP : "(" >{System.out.println("LP "+image); }
| < RP : ")" >{System.out.println("RP "+image); }
| < LR : "{" >{System.out.println("LR "+image); }
| < RR : "}" >{System.out.println("RR "+image); }
| < ID : ["A"-"Z", "a"-"z"](["A"-"Z" , "a"-"z" , "0"-"9"])* >
{System.out.println("ID "+image); }

```

```

}

```

```

void start():

```

```

{}

```

```

{

```

```

    clas()

```

```

}

```

```

void clas():

```

```

{}

```

```

{

```

```

    <CLASS > <ID > <LR > fun() <RR >

```

```

}

```

```

void fun():

```

```

{}

```

```

{

```

```

    <FUN > <LR >

```

```

(

```

```

    statement() )+ <RR >

```

```

}

```

```

void statement():

```

```

{}

```

```

{

```

```

    If() | TYPE() | yy() | Write() | For()

```

```

}

```

```

void TYPE():
{
{
(
<TYPE > | < TYPESTR >)<ID >";"
}
}

void AD():
{
{
<NUM >";"
}
}

void If():
{
{
<IF > <LP > <ID > <EQ > <NUM > <RP > <LR > (statement())+ <RR >
}
}

void Write():
{
{
< WRITE > <LP > WriteContent() <RP >";"
}
}

void WriteContent():
{
{
< NUM > | (<ID > (<PLUS > <ID >)?)

}

}

void For():
{
{
<FOR > <LP > ForContent() <RP > <LR > (statement())+ <RR >
}
}

void ForContent() :
{
{
{
<ID > <EQUAL > <NUM > ";" < ID > <EQ > <NUM > ";" yy()
}
}
}

void asign():
{
{
{
asign2(";")?
}
}
}

```

```
void asign2():  
{  
  {  
    <ID > <PLUS > ( <ID > | < NUM > )  
  }  
}
```

```
void asign3():  
{  
  {  
    <ID > <PLUS > ( <ID > | < NUM > )  
  }  
}
```

```
void yy():  
{  
  {  
    <ID > <EQUAL > (AD() | asign() )  
  }  
}
```