```
'C:\Program Files\Java\jdk1.8.0_71\bin\java" "-javaagent:C
   :\Program Files\JetBrains\IntelliJ IDEA 2017.2.6\lib\
   idea_rt.jar=52082:C:\Program Files\JetBrains\IntelliJ IDEA
   2017.2.6\bin" -Dfile.encoding=UTF-8 -classpath "C:\
   Program Files\Java\jdk1.8.0_71\jre\lib\charsets.jar;C:\
   Program Files\Java\jdk1.8.0_71\jre\lib\deploy.jar;C:\
   Program Files\Java\jdk1.8.0_71\jre\lib\ext\access-bridge-
   64.jar;C:\Program Files\Java\jdk1.8.0_71\jre\lib\ext\
   cldrdata.jar;C:\Program Files\Java\jdk1.8.0_71\jre\lib\ext
   \dnsns.jar;C:\Program Files\Java\jdk1.8.0_71\jre\lib\ext\
   jaccess.jar;C:\Program Files\Java\jdk1.8.0_71\jre\lib\ext\
   jfxrt.jar;C:\Program Files\Java\jdk1.8.0_71\jre\lib\ext\
   localedata.jar;C:\Program Files\Java\jdk1.8.0_71\jre\lib\
   ext\nashorn.jar;C:\Program Files\Java\jdk1.8.0_71\jre\lib\
   ext\sunec.jar;C:\Program Files\Java\jdk1.8.0_71\jre\lib\
   ext\sunjce_provider.jar;C:\Program Files\Java\jdk1.8.0_71\
   jre\lib\ext\sunmscapi.jar;C:\Program Files\Java\jdk1.8.
   0_71\jre\lib\ext\sunpkcs11.jar;C:\Program Files\Java\jdk1.
   8.0_71\jre\lib\ext\zipfs.jar;C:\Program Files\Java\jdk1.8.
   0_71\jre\lib\javaws.jar;C:\Program Files\Java\jdk1.8.0_71\
   jre\lib\jce.jar;C:\Program Files\Java\jdk1.8.0_71\jre\lib\
   jfr.jar;C:\Program Files\Java\jdk1.8.0_71\jre\lib\jfxswt.
   jar;C:\Program Files\Java\jdk1.8.0_71\jre\lib\jsse.jar;C:\
   Program Files\Java\jdk1.8.0_71\jre\lib\management-agent.
   jar;C:\Program Files\Java\jdk1.8.0_71\jre\lib\plugin.jar;C
   :\Program Files\Java\jdk1.8.0_71\jre\lib\resources.jar;C:\
   Program Files\Java\jdk1.8.0_71\jre\lib\rt.jar;C:\projet\
   out\production\Compilation;C:\projet\antlr-4.7-complete.
   jar" MainClass
 2
  ERRORS SEMANTIC DETECTED:
 3
 4
              ---->: | ERRORS
  Error N°O : DOUBLE DECLARATION DE LA VARIABLE : a
  Error N°1 : DOUBLE DECLARATION DE LA VARIABLE :
  Error N°2 : VARIABLE N'A PAS DE VALEUR : b
  Error N°3 : VARIABLE N'A PAS DE VALEUR : k
  Error N°4 : INCOMPATIBLITE DE TYPE DANS L'EXPRESSION: a=b+
   k;
10 Error N°5 : VARIABLE NON DECLARER :
11 Error N°6 : VARIABLE NON DECLARER : y
  Error N°7 : VARIABLE NON DECLARER : z
12
13 Error N°8 : VARIABLE N'A PAS DE VALEUR : c
  Error N°9 : VARIABLE NON DECLARER : t
14
  Error N°10 : INCOMPATIBLITE DE TYPE DANS LA CONDIT
15
   !=k
16
  Error N°11 : VARIABLE NON DECLARER : f
  Error N°12 : INCOMPATIBLITE DE TYPE DANS L'EXPRESSION: b=f
17
18 Error N°13 : VARIABLE NON DECLARER : e
```

```
Error N°14 : VARIABLE NON DECLARER : o
20
21
22
23
                         [SYMBOL TABLE]
                                       <:
24
25
                 declared
                              defined
      name
                                             type
26
27
                             defined:1 | type:'intcompil
     name: 'a'
                declared:1
28
                declared:1 | defined:1 | type:'intcompil
     name: 'b'
29
               declared:1 | defined:0 | type:'intcompil
    name:'c'
     name:'vb'
30
               | declared:1 | defined:0 | type:'intcompil'|
                declared:1 | defined:0 | type:'floatcompil
31
     name: 'k'
32
                declared:1 | defined:1 | type:'floatcompil'
    name:'n'
33
34
35
  ---->: OUADRUPLE
                        :<----
36
37
           ( + , k , b , Temp1 )
   Q0
38
   Q1
            = , Temp1 , a )
            BNE , 15 , a , c )
39
   Q2
            + , b , 5 , Temp2 )
40
   Q3
            = , , Temp2 , a )
41
   04
42
   Q5
             BE , 8 , t , k )
43
            + , c , b , Temp3 )
   Q6
44
                  , Temp3 , a )
   07
45
   08
            BL , 14 , y , b )
46
   09:
                  , f
47
   Q10 :
                   , c , Temp4 )
                , Temp4 , b , Temp5
48
    011:
             + , e , Temp5 , Temp6
   012:
49
50
   Q13:
              = , , Temp6 , b )
            ( BR , 19 ,
51
   014:
52
   Q15:
            ( / , o , z , Temp7 )_
                , , Temp7, x)
53
   Q16:
54
   Q17
            ( + , 6 , b , Temp8 )
                   , Temp8 , n )
55
   018:
            ( + , a , c , Temp9 )_
56
   019:
57
            (=, Temp9, n)
   Q20 :
58
   021 : |
            (END, 22,
59
60
61
62
63
64
65
66
67
```

```
----:> [OBJECT CODE] <:-----
 68
 69
                               MOV AX, k
                               ADD AX, b
 70
 71
                               MOV Temp1, AX
                               MOV AX, Temp1
 72
 73
                               MOV a, AX
                               MOV AX, b
 74
                               ADD AX,5
 75
 76
                               MOV Temp2, AX
                               MOV AX, Temp2
 77
                               MOV a, AX
 78
 79
                               MOV AX,c
                               ADD AX, b
 80
 81
                               MOV Temp3, AX
                               MOV AX, Temp3
 82
 83
                               MOV a, AX
 84
                               ETIQ8:
 85
                               MOV AX, f
                               MOV b, AX
 86
 87
                               MOV AX, f
                               DIV AX, c
 88
                               MOVTemp4, AX
 89
 90
                               MOV AX, Temp4
 91
                               ADD AX,b
 92
                               MOV Temp5, AX
 93
                               MOV AX, e
 94
                               ADD AX, Temp5
 95
                               MOV Temp6, AX
                               MOV AX, Temp6
 96
                               MOV b, AX
 97
 98
                               ETIQ14:
 99
                               JMP ETIQ 19
100
                               ETIQ15:
101
                               MOV AX, o
                               DIV AX,z
102
                               MOVTemp7, AX
103
104
                               MOV AX, Temp7
                               MOV x, AX
105
                               MOV AX, 6
106
                               ADD AX, b
107
108
                               MOV Temp8, AX
                               MOV AX, Temp8
109
                               MOV n, AX
110
                               ETIQ19:
111
                               MOV AX, a
112
113
                               ADD AX,c
                               MOV Temp9, AX
114
                               MOV AX, Temp9
115
                               MOV n, AX
116
117
```

```
118
119
120
121
                         ->: OUADRUPLE
122
123 l
        + , k , b , Temp1
      , b , k , b+k )
      (=,], Temp1, a
124
        , b+k , a )
125
       ( + , b , 5 , Temp2
        5 , b , 5+b )
      (=, Temp2, a
126
        , 5+b , a )
127
       + , c , b , Temp3
      , b , c , b+c )
128
      (=,,Temp3,a
      , , b+c , a )
129
        , f , b )
      ( / , f , c , Temp4
130
       c , f , c/f )
       + , Temp4 , b , Temp5
131
       , b , c/f , b+c/f )
      (+,e,Temp5,Temp6]
132
      , b+c/f , e , b+c/f+e )
      (=, Temp6, b)
133
        , b+c/f+e , b )
134
      (/,o,z, Temp7
       z , o , z/o )
       = , \overline{}, Temp7 , \overline{}
135
       , z/o , x )
136
      ( + , 6 , b , Temp8
      , b , 6 , b+6 )
137
          , , Temp8 , n
```

```
137
          , b+6 , n )
138
      ( + , a , c , Temp9
        c , a , c+a )
139
       = , Temp9 , n
          , c+a , n )
140
141
142
143 Process finished with exit code 0
144
```