```
 1  %%
 2
 3  %int
 4
 5  %{
 6      String cadena = "";
 7      String variable = "";
 8      String valor = "";
 9      Boolean asignacion = true;
10  %}
11
12  %xstate METODO VARIABLE PRINT IGUAL
13
14  %%
15
16  <YYINITIAL> {
17
18      class                   { System.out.print(yytext()); }
19
20      [a-zA-Z_][a-zA-Z_0-9]*  { System.out.print(" " + yytext() + "_rmj "); }
21
22
23      "{"                     {
24                                  System.out.println(yytext());
25                                  yybegin(METODO);
26                              }
27
28      [^] {}
29
30  }
31
32  <METODO> {
33
34      .*"{"                                           {
        System.out.println(yytext()); }
35
36      String                                          { yybegin(VARIABLE); }
37
38      [a-zA-Z_][a-zA-Z_0-9]*                          {
39                                                        variable = yytext();
40                                                        asignacion = false;
41                                                        yybegin(IGUAL);
42                                                      }
43
44      [\t ]*System.out.println[ \t]*"("[ \t]*         {
45  "\"");                                                System.out.print(yytext() +
46                                                        yybegin(PRINT);
47                                                      }
48
49      [\t ]*System.out.print[ \t]*"("[ \t]*           {
50  "\"");                                                System.out.print(yytext() +
51                                                        yybegin(PRINT);
52                                                      }
```

```
52
53
54      [\t]*"}"                                        {
        System.out.println(yytext()); }
55
56      [^] {}
57
58  }
59
60  <VARIABLE> {
61
62      [a-zA-Z_][a-zA-Z_0-9]*          {
63                                          if(asignacion){
64                                              variable = yytext();
65                                              asignacion = false;
66                                          }else{
67                                              valor += TablaSimbolos.get(yytext());
68                                          }
69                                      }
70
71      \"[^\"]*\"                      { valor += yytext().substring(1,
        yytext().length()-1); }
72
73      ;                               {
74                                          TablaSimbolos.put(variable, valor);
75                                          variable = "";
76                                          valor = "";
77                                          asignacion = true;
78                                          yybegin(METODO);
79                                      }
80
81      [^] {}
82  }
83
84  <IGUAL> {
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86      [a-zA-Z_][a-zA-Z_0-9]*              {
87                                              if(asignacion){
88                                                  variable = yytext();
89                                                  asignacion = false;
90                                              }else{
91                                                  valor +=
        TablaSimbolos.get(yytext());
92                                              }
93                                          }
94
95      \"["\n""\t""\"""\\"]*[^+]*\"     { valor += yytext().substring(1,
        yytext().length()-1); }
96
97      \"[^\"]*\"                       { valor += yytext().substring(1,
        yytext().length()-1); }
98
99      ;                               {
100                                          TablaSimbolos.put(variable,
        valor);
101                                          variable = "";
```

```
101                                                 vuriubie =    ,
102                                                 valor = "";
103                                                 asignacion = true;
104                                                 yybegin(METODO);
105                                             }
106
107
108     [^]   {}
109 }
110
111 <PRINT> {
112
113     [a-zA-Z_][a-zA-Z_0-9]*              { cadena +=
    TablaSimbolos.get(yytext()); }
114
115     ");"                               {
116                                            System.out.println(cadena + "\""
                                               + yytext());
117                                            cadena = "";
118                                            yybegin(METODO);
119                                        }
120
121     \+                                 {}
122
123     \"["\n""\t""\"""\\"]*[^+]*\"        { cadena += yytext().substring(1,
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39                                                      variable = yytext();
40                                                      asignacion = false;
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44      [\t ]*System.out.println[ \t]*"("[ \t]*        {
45  "\"");                                              System.out.print(yytext() +

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49      [\t ]*System.out.print[ \t]*"("[ \t]*          {
50  "\"");                                              System.out.print(yytext() +

51                                                      yybegin(PRINT);
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53
54     [\t]*"}"                                      {
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63                                       if(asignacion){
64                                           variable = yytext();
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66                                       }else{
67                                           valor += TablaSimbolos.get(yytext());
68                                       }
69                                   }
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71     \"[^\"]*\"                     { valor += yytext().substring(1,
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73     ;                             {
74                                       TablaSimbolos.put(variable, valor);
75                                       variable = "";
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79                                   }
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81     [^] {}
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86     [a-zA-Z_][a-zA-Z_0-9]*            {
87                                           if(asignacion){
88                                               variable = yytext();
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91                                               valor +=
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92                                           }
93                                       }
94
95     \"["\n""\t""\""\\"]*[^+]*\"    { valor += yytext().substring(1,
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121     \+                            {}
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36      String                                      { yybegin(VARIABLE); }
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39                                                    variable = yytext();
40                                                    asignacion = false;
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45      "\"");                                        System.out.print(yytext() +

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49      [\t ]*System.out.print[ \t]*"("[ \t]*       {
50      "\"");                                        System.out.print(yytext() +

51                                                    yybegin(PRINT);
52                                                  }
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53
54      [\t]*"}"
   System.out.println(yytext()); }

55
56      [^] {}
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60  <VARIABLE> {
61
62      [a-zA-Z_][a-zA-Z_0-9]*        {
63                                         if(asignacion){
64                                             variable = yytext();
65                                             asignacion = false;
66                                         }else{
67                                             valor += TablaSimbolos.get(yytext());
68                                         }
69                                    }
70
71      \"[^\"]*\"                    { valor += yytext().substring(1,
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73      ;                            {
74                                         TablaSimbolos.put(variable, valor);
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88                                                variable = yytext();
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95      \"["\n""\t""\"""\\"]*[^+]*\"     { valor += yytext().substring(1,
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96
97      \"[^\"]*\"                       { valor += yytext().substring(1,
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99      ;                               {
100                                           TablaSimbolos.put(variable,
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```

```
101                                               vuriubie =   ,
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113     [a-zA-Z_][a-zA-Z_0-9]*          { cadena +=
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114
115     ");"                            {
116                                           System.out.println(cadena + "\""
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117                                           cadena = "";
118                                           yybegin(METODO);
119                                       }
120
121     \+                              {}
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123     \"["\n""\t""\"""\\"]*[^+]*\"    { cadena += yytext().substring(1,
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23      "{"                     {
24                                  System.out.println(yytext());
25                                  yybegin(METODO);
26                              }
27
28      [^] {}
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31
32  <METODO> {
33
34      .*"{"                                   {
    System.out.println(yytext()); }
35
36      String                                  { yybegin(VARIABLE); }
37
38      [a-zA-Z_][a-zA-Z_0-9]*                  {
39                                                variable = yytext();
40                                                asignacion = false;
41                                                yybegin(IGUAL);
42                                              }
43
44      [\t ]*System.out.println[ \t]*"("[ \t]* {
45                                                System.out.print(yytext() +
    "\"");
46                                                yybegin(PRINT);
47                                              }
48
49      [\t ]*System.out.print[ \t]*"("[ \t]*   {
50                                                System.out.print(yytext() +
    "\"");
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```

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53
54      [\t]*"}"                                    {
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59
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61
62      [a-zA-Z_][a-zA-Z_0-9]*        {
63                                          if(asignacion){
64                                              variable = yytext();
65                                              asignacion = false;
66                                          }else{
67                                              valor += TablaSimbolos.get(yytext());
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69                                      }
70
71      \"[^\"]*\"                     { valor += yytext().substring(1,
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72
73      ;                              {
74                                          TablaSimbolos.put(variable, valor);
75                                          variable = "";
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79                                      }
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81      [^] {}
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86      [a-zA-Z_][a-zA-Z_0-9]*            {
87                                              if(asignacion){
88                                                  variable = yytext();
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91                                                  valor +=
    TablaSimbolos.get(yytext());
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94
95      \"["\n""\t""\"""\\"]*[^+]*\"   { valor += yytext().substring(1,
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96
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    yytext().length()-1); }
98
99      ;                                  {
100                                             TablaSimbolos.put(variable,
    valor);
101                                             variable = "";
```

```
101                                              var table =    ,
102                                              valor = "";
103                                              asignacion = true;
104                                              yybegin(METODO);
105                                          }
106
107
108      [^]   {}
109 }
110
111 <PRINT> {
112
113      [a-zA-Z_][a-zA-Z_0-9]*        { cadena +=
    TablaSimbolos.get(yytext()); }
114
115      ");"                          {
116                                        System.out.println(cadena + "\""
                                        + yytext());
117                                        cadena = "";
118                                        yybegin(METODO);
119                                    }
120
121      \+                           {}
122
123      \"["\n""\t""\"""\\"]*[^+]*\"  { cadena += yytext().substring(1,
    yytext().length()-1); }
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22
23      "{"                      {
24                                   System.out.println(yytext());
25                                   yybegin(METODO);
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34      .*"{"                                      {
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36      String                                     { yybegin(VARIABLE); }
37
38      [a-zA-Z_][a-zA-Z_0-9]*                     {
39                                                   variable = yytext();
40                                                   asignacion = false;
41                                                   yybegin(IGUAL);
42                                                 }
43
44      [\t ]*System.out.println[ \t]*"("[ \t]*    {
45  "\""); System.out.print(yytext() +
46                                                   yybegin(PRINT);
47                                                 }
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49      [\t ]*System.out.print[ \t]*"("[ \t]*      {
50  "\""); System.out.print(yytext() +
51                                                   yybegin(PRINT);
52                                                 }
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53
54     [\t]*"}"                              {
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62     [a-zA-Z_][a-zA-Z_0-9]*         {
63                                         if(asignacion){
64                                             variable = yytext();
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71     \"[^\"]*\"                     { valor += yytext().substring(1,
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74                                         TablaSimbolos.put(variable, valor);
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101                                          vuriubte = ",
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39                                                            variable = yytext();
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24                                   System.out.println(yytext());
25                                   yybegin(METODO);
26                               }
27
28     [^] {}
29
30 }
31
32 <METODO> {
33
34     .*"{"                                              {
   System.out.println(yytext()); }
35
36     String                                             { yybegin(VARIABLE); }
37
38     [a-zA-Z_][a-zA-Z_0-9]*                             {
39                                                          variable = yytext();
40                                                          asignacion = false;
41                                                          yybegin(IGUAL);
42                                                        }
43
44     [\t ]*System.out.println[ \t]*"("[ \t]*           {
45 "\"";                                                    System.out.print(yytext() +

46                                                          yybegin(PRINT);
47                                                        }
48
49     [\t ]*System.out.print[ \t]*"("[ \t]*             {
50 "\"";                                                    System.out.print(yytext() +

51                                                          yybegin(PRINT);
52                                                        }
```

```flex
53
54    [\t]*"}"                                           {
System.out.println(yytext()); }

56      [^] {}

57
58  }

59
60  <VARIABLE> {

61
62      [a-zA-Z_][a-zA-Z_0-9]*        {
63                                        if(asignacion){
64                                            variable = yytext();
65                                            asignacion = false;
66                                        }else{
67                                            valor += TablaSimbolos.get(yytext());
68                                        }
69                                    }

71      \"[^\"]*\"                    { valor += yytext().substring(1,
yytext().length()-1); }

73      ;                             {
74                                        TablaSimbolos.put(variable, valor);
75                                        variable = "";
76                                        valor = "";
77                                        asignacion = true;
78                                        yybegin(METODO);
79                                    }

81      [^] {}
82  }

83
84  <IGUAL> {

85
86      [a-zA-Z_][a-zA-Z_0-9]*            {
87                                            if(asignacion){
88                                                variable = yytext();
89                                                asignacion = false;
90                                            }else{
91                                                valor +=
TablaSimbolos.get(yytext());
92                                            }
93                                        }

95      \"["\n""\t""\"""\\"]*[^+]*\"      { valor += yytext().substring(1,
yytext().length()-1); }

97      \"[^\"]*\"                        { valor += yytext().substring(1,
yytext().length()-1); }

99      ;                                {
100                                           TablaSimbolos.put(variable,
valor);
101                                           variable = "";
```

```flex
101                                          variable = "",
102                                          valor = "";
103                                          asignacion = true;
104                                          yybegin(METODO);
105                              }
106
107
108     [^]    {}
109 }
110
111 <PRINT> {
112
113     [a-zA-Z_][a-zA-Z_0-9]*       { cadena +=
    TablaSimbolos.get(yytext()); }
114
115     ");"                         {
116                                      System.out.println(cadena + "\""
    + yytext());
117                                      cadena = "";
118                                      yybegin(METODO);
119                              }
120
121     \+                          {}
122
123     \"["\n""\t""\"""\\"]*[^+]*\"  { cadena += yytext().substring(1,
    yytext().length()-1); }
124
125     \"[^\"]*\"                   { cadena += yytext().substring(1,
    yytext().length()-1); }
126
127     [^] {}
128 }
```

```
 1  %%
 2
 3  %int
 4
 5  %{
 6      String cadena = "";
 7      String variable = "";
 8      String valor = "";
 9      Boolean asignacion = true;
10  %}
11
12  %xstate METODO VARIABLE PRINT IGUAL
13
14  %%
15
16  <YYINITIAL> {
17
18      class                   { System.out.print(yytext()); }
19
20      [a-zA-Z_][a-zA-Z_0-9]*  { System.out.print(" " + yytext() + "_rmj "); }
21
22
23      "{"                     {
24                                  System.out.println(yytext());
25                                  yybegin(METODO);
26                              }
27
28      [^] {}
29
30  }
31
32  <METODO> {
33
34      .*"{"                                           {
        System.out.println(yytext()); }
35
36      String                                          { yybegin(VARIABLE); }
37
38      [a-zA-Z_][a-zA-Z_0-9]*                          {
39                                                        variable = yytext();
40                                                        asignacion = false;
41                                                        yybegin(IGUAL);
42                                                      }
43
44      [\t ]*System.out.println[ \t]*"("[ \t]*         {
45      "\"");                                            System.out.print(yytext() +
46                                                        yybegin(PRINT);
47                                                      }
48
49      [\t ]*System.out.print[ \t]*"("[ \t]*           {
50      "\"");                                            System.out.print(yytext() +
51                                                        yybegin(PRINT);
52                                                      }
```

```flex
53
54     [\t]*"}"                                    {
   System.out.println(yytext()); }
55
56     [^] {}
57
58 }
59
60 <VARIABLE> {
61
62     [a-zA-Z_][a-zA-Z_0-9]*        {
63                                       if(asignacion){
64                                           variable = yytext();
65                                           asignacion = false;
66                                       }else{
67                                           valor += TablaSimbolos.get(yytext());
68                                       }
69                                   }
70
71     \"[^\"]*\"                    { valor += yytext().substring(1,
   yytext().length()-1); }
72
73     ;                            {
74                                       TablaSimbolos.put(variable, valor);
75                                       variable = "";
76                                       valor = "";
77                                       asignacion = true;
78                                       yybegin(METODO);
79                                   }
80
81     [^] {}
82 }
83
84 <IGUAL> {
85
86     [a-zA-Z_][a-zA-Z_0-9]*            {
87                                           if(asignacion){
88                                               variable = yytext();
89                                               asignacion = false;
90                                           }else{
91                                               valor +=
   TablaSimbolos.get(yytext());
92                                           }
93                                       }
94
95     \"["\n""\t""\"""\\"]*[^+]*\"       { valor += yytext().substring(1,
   yytext().length()-1); }
96
97     \"[^\"]*\"                         { valor += yytext().substring(1,
   yytext().length()-1); }
98
99     ;                                 {
100                                          TablaSimbolos.put(variable,
   valor);
101                                          variable = "";
```

```
101                                                var.uu.c = ,
102                                                valor = "";
103                                                asignacion = true;
104                                                yybegin(METODO);
105                                            }
106
107
108     [^]    {}
109 }
110
111 <PRINT> {
112
113     [a-zA-Z_][a-zA-Z_0-9]*                 { cadena +=
    TablaSimbolos.get(yytext()); }

114
115     ");"                                   {
116                                                System.out.println(cadena + "\""
                                               + yytext());

117                                                cadena = "";
118                                                yybegin(METODO);
119                                            }
120
121     \+                                     {}
122
123     \"["\n""\t""\"""\\"]*[^+]*\"           { cadena += yytext().substring(1,
    yytext().length()-1); }

124
125     \"[^\"]*\"                             { cadena += yytext().substring(1,
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127     [^] {}
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11
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13
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15
16  <YYINITIAL> {
17
18      class                  { System.out.print(yytext()); }
19
20      [a-zA-Z_][a-zA-Z_0-9]*  { System.out.print(" " + yytext() + "_rmj "); }
21
22
23      "{"                    {
24                                 System.out.println(yytext());
25                                 yybegin(METODO);
26                             }
27
28      [^] {}
29
30  }
31
32  <METODO> {
33
34      .*"{"                                         {
        System.out.println(yytext()); }
35
36      String                                        { yybegin(VARIABLE); }
37
38      [a-zA-Z_][a-zA-Z_0-9]*                        {
39                                                      variable = yytext();
40                                                      asignacion = false;
41                                                      yybegin(IGUAL);
42                                                    }
43
44      [\t ]*System.out.println[ \t]*"("[ \t]*       {
45                                                      System.out.print(yytext() +
        "\"");
46                                                      yybegin(PRINT);
47                                                    }
48
49      [\t ]*System.out.print[ \t]*"("[ \t]*         {
50                                                      System.out.print(yytext() +
        "\"");
51                                                      yybegin(PRINT);
52                                                    }
```

```flex
53
54     [\t]*"}"                              {
System.out.println(yytext()); }

55
56     [^] {}

57
58 }

59
60 <VARIABLE> {

61
62     [a-zA-Z_][a-zA-Z_0-9]*       {
63                                      if(asignacion){
64                                          variable = yytext();
65                                          asignacion = false;
66                                      }else{
67                                          valor += TablaSimbolos.get(yytext());
68                                      }
69                                  }

70
71     \"[^\"]*\"                   { valor += yytext().substring(1,
   yytext().length()-1); }

72
73     ;                            {
74                                      TablaSimbolos.put(variable, valor);
75                                      variable = "";
76                                      valor = "";
77                                      asignacion = true;
78                                      yybegin(METODO);
79                                  }

80
81     [^] {}
82 }

83
84 <IGUAL> {

85
86     [a-zA-Z_][a-zA-Z_0-9]*           {
87                                          if(asignacion){
88                                              variable = yytext();
89                                              asignacion = false;
90                                          }else{
91                                              valor +=
   TablaSimbolos.get(yytext());
92                                          }
93                                      }

94
95     \"["\n""\t""\"""\\"]*[^+]*\"      { valor += yytext().substring(1,
   yytext().length()-1); }

96
97     \"[^\"]*\"                        { valor += yytext().substring(1,
   yytext().length()-1); }

98
99     ;                                {
100                                         TablaSimbolos.put(variable,
   valor);
101                                         variable = "";
```

```
101                                             variable = "",
102                                             valor = "";
103                                             asignacion = true;
104                                             yybegin(METODO);
105                                         }
106
107
108     [^]    {}
109 }
110
111 <PRINT> {
112
113     [a-zA-Z_][a-zA-Z_0-9]*          { cadena +=
    TablaSimbolos.get(yytext()); }
114
115     ");"                            {
116                                         System.out.println(cadena + "\""
                                            + yytext());
117                                         cadena = "";
118                                         yybegin(METODO);
119                                     }
120
121     \+                              {}
122
123     \"["\n""\t""\""""\\"]*[^+]*\"    { cadena += yytext().substring(1,
    yytext().length()-1); }
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13
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15
16  <YYINITIAL> {
17
18      class                   { System.out.print(yytext()); }
19
20      [a-zA-Z_][a-zA-Z_0-9]*  { System.out.print(" " + yytext() + "_rmj "); }
21
22
23      "{"                     {
24                                  System.out.println(yytext());
25                                  yybegin(METODO);
26                              }
27
28      [^] {}
29
30  }
31
32  <METODO> {
33
34      .*"{"                                       {
        System.out.println(yytext()); }
35
36      String                                      { yybegin(VARIABLE); }
37
38      [a-zA-Z_][a-zA-Z_0-9]*                      {
39                                                    variable = yytext();
40                                                    asignacion = false;
41                                                    yybegin(IGUAL);
42                                                  }
43
44      [\t ]*System.out.println[ \t]*"("[ \t]*     {
45  "\"";                                             System.out.print(yytext() +

46                                                    yybegin(PRINT);
47                                                  }
48
49      [\t ]*System.out.print[ \t]*"("[ \t]*       {
50  "\"";                                             System.out.print(yytext() +

51                                                    yybegin(PRINT);
52                                                  }
```

```
53
54      [\t]*"}"                                          {
     System.out.println(yytext()); }
55
56      [^] {}
57
58   }
59
60   <VARIABLE> {
61
62      [a-zA-Z_][a-zA-Z_0-9]*        {
63                                        if(asignacion){
64                                            variable = yytext();
65                                            asignacion = false;
66                                        }else{
67                                            valor += TablaSimbolos.get(yytext());
68                                        }
69                                    }
70
71      \"[^\"]*\"                     { valor += yytext().substring(1,
     yytext().length()-1); }
72
73      ;                              {
74                                        TablaSimbolos.put(variable, valor);
75                                        variable = "";
76                                        valor = "";
77                                        asignacion = true;
78                                        yybegin(METODO);
79                                    }
80
81      [^] {}
82   }
83
84   <IGUAL> {
85
86      [a-zA-Z_][a-zA-Z_0-9]*            {
87                                            if(asignacion){
88                                                variable = yytext();
89                                                asignacion = false;
90                                            }else{
91                                                valor +=
     TablaSimbolos.get(yytext());
92                                            }
93                                        }
94
95      \"["\n""\t""\""\\"]*[^+]*\"     { valor += yytext().substring(1,
     yytext().length()-1); }
96
97      \"[^\"]*\"                      { valor += yytext().substring(1,
     yytext().length()-1); }
98
99      ;                                {
100                                           TablaSimbolos.put(variable,
     valor);
101                                           variable = "";
```

```
101                              vuriuble = ,
102                              valor = "";
103                              asignacion = true;
104                              yybegin(METODO);
105                          }
106
107
108     [^]   {}
109 }
110
111 <PRINT> {
112
113     [a-zA-Z_][a-zA-Z_0-9]*        { cadena +=
    TablaSimbolos.get(yytext()); }
114
115     ");"                          {
116                                       System.out.println(cadena + "\""
    + yytext()));
117                                       cadena = "";
118                                       yybegin(METODO);
119                                   }
120
121     \+                            {}
122
123     \"["\n""\t""\"""\\"]*[^+]*\"  { cadena += yytext().substring(1,
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17
18      class                    { System.out.print(yytext()); }
19
20      [a-zA-Z_][a-zA-Z_0-9]*  { System.out.print(" " + yytext() + "_rmj "); }
21
22
23      "{"                      {
24                                   System.out.println(yytext());
25                                   yybegin(METODO);
26                               }
27
28      [^] {}
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31
32  <METODO> {
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34      .*"{"                                          {
    System.out.println(yytext()); }
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36      String                                         { yybegin(VARIABLE); }
37
38      [a-zA-Z_][a-zA-Z_0-9]*                         {
39                                                        variable = yytext();
40                                                        asignacion = false;
41                                                        yybegin(IGUAL);
42                                                     }
43
44      [\t ]*System.out.println[ \t]*"("[ \t]*        {
45  "\"");                                                System.out.print(yytext() +

46                                                        yybegin(PRINT);
47                                                     }
48
49      [\t ]*System.out.print[ \t]*"("[ \t]*          {
50  "\"");                                                System.out.print(yytext() +

51                                                        yybegin(PRINT);
52                                                     }
```

```
53
54      [\t]*"}"                             {
System.out.println(yytext()); }

56      [^] {}

58 }

60 <VARIABLE> {

62      [a-zA-Z_][a-zA-Z_0-9]*       {
63                                           if(asignacion){
64                                               variable = yytext();
65                                               asignacion = false;
66                                           }else{
67                                               valor += TablaSimbolos.get(yytext());
68                                           }
69                                       }

71      \"[^\"]*\"                    { valor += yytext().substring(1,
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73      ;                             {
74                                           TablaSimbolos.put(variable, valor);
75                                           variable = "";
76                                           valor = "";
77                                           asignacion = true;
78                                           yybegin(METODO);
79                                       }

81      [^] {}
82 }

84 <IGUAL> {

86      [a-zA-Z_][a-zA-Z_0-9]*           {
87                                               if(asignacion){
88                                                   variable = yytext();
89                                                   asignacion = false;
90                                               }else{
91                                                   valor +=
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95      \"["\n""\t""\"""\\"]*[^+]*\"   { valor += yytext().substring(1,
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99      ;                             {
100                                              TablaSimbolos.put(variable,
   valor);
101                                              variable = "";
```

```
101                                         variable = "",
102                                         valor = "";
103                                         asignacion = true;
104                                         yybegin(METODO);
105                                     }
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107
108     [^]    {}
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113     [a-zA-Z_][a-zA-Z_0-9]*              { cadena +=
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114
115     ");"                               {
116                                             System.out.println(cadena + "\""

                                                + yytext()));
117                                             cadena = "";
118                                             yybegin(METODO);
119                                     }
120
121     \+                                 {}
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123     \"["\n""\t""\""""\\"]*[^+]*\"       { cadena += yytext().substring(1,
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39                                                       variable = yytext();
40                                                       asignacion = false;
41                                                       yybegin(IGUAL);
42                                                     }
43
44      [\t ]*System.out.println[ \t]*"("[ \t]*        {
45  "\"";                                                System.out.print(yytext() +
46                                                       yybegin(PRINT);
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50  "\"";                                                System.out.print(yytext() +
51                                                       yybegin(PRINT);
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53
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63                                          if(asignacion){
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74                                          TablaSimbolos.put(variable, valor);
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87                                              if(asignacion){
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101                                                         variable = "",
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115      ");"                                {
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39                                                      variable = yytext();
40                                                      asignacion = false;
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45  "\"");                                              System.out.print(yytext() +

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47                                                    }
48
49      [\t ]*System.out.print[ \t]*"("[ \t]*         {
50  "\"");                                              System.out.print(yytext() +

51                                                      yybegin(PRINT);
52                                                    }
```

```
53
54     [\t]*"}"                                {
System.out.println(yytext()); }

56     [^] {}

58 }

60 <VARIABLE> {

62     [a-zA-Z_][a-zA-Z_0-9]*          {
63                                         if(asignacion){
64                                             variable = yytext();
65                                             asignacion = false;
66                                         }else{
67                                             valor += TablaSimbolos.get(yytext());
68                                         }
69                                     }

71     \"[^\"]*\"                      { valor += yytext().substring(1,
yytext().length()-1); }

73     ;                               {
74                                         TablaSimbolos.put(variable, valor);
75                                         variable = "";
76                                         valor = "";
77                                         asignacion = true;
78                                         yybegin(METODO);
79                                     }

81     [^] {}
82 }

84 <IGUAL> {

86     [a-zA-Z_][a-zA-Z_0-9]*              {
87                                             if(asignacion){
88                                                 variable = yytext();
89                                                 asignacion = false;
90                                             }else{
91                                                 valor +=
TablaSimbolos.get(yytext());
92                                             }
93                                         }

95     \"["\n""\t""\"""\\"]*[^+]*\"     { valor += yytext().substring(1,
yytext().length()-1); }

97     \"[^\"]*\"                       { valor += yytext().substring(1,
yytext().length()-1); }

99     ;                               {
100                                         TablaSimbolos.put(variable,
valor);
101                                         variable = "";
```

```
101                                                      vuriuble = "",
102                                                      valor = "";
103                                                      asignacion = true;
104                                                      yybegin(METODO);
105                                                  }
106
107
108      [^]   {}
109 }
110
111 <PRINT> {
112
113      [a-zA-Z_][a-zA-Z_0-9]*           { cadena +=
    TablaSimbolos.get(yytext()); }
114
115      ");"                             {
116                                           System.out.println(cadena + "\""
                                             + yytext());
117                                           cadena = "";
118                                           yybegin(METODO);
119                                       }
120
121      \+                               {}
122
123      \"["\n""\t""\"""\\"]*[^+]*\"     { cadena += yytext().substring(1,
    yytext().length()-1); }
124
125      \"[^\"]*\"                        { cadena += yytext().substring(1,
    yytext().length()-1); }
126
127      [^] {}
128 }
```

```
 1  %%
 2
 3  %int
 4
 5  %{
 6      String cadena = "";
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 8      String valor = "";
 9      Boolean asignacion = true;
10  %}
11
12  %xstate METODO VARIABLE PRINT IGUAL
13
14  %%
15
16  <YYINITIAL> {
17
18      class                   { System.out.print(yytext()); }
19
20      [a-zA-Z_][a-zA-Z_0-9]*  { System.out.print(" " + yytext() + "_rmj "); }
21
22
23      "{"                     {
24                                  System.out.println(yytext());
25                                  yybegin(METODO);
26                              }
27
28      [^] {}
29
30  }
31
32  <METODO> {
33
34      .*"{"                                       {
        System.out.println(yytext()); }
35
36      String                                      { yybegin(VARIABLE); }
37
38      [a-zA-Z_][a-zA-Z_0-9]*                      {
39                                                    variable = yytext();
40                                                    asignacion = false;
41                                                    yybegin(IGUAL);
42                                                  }
43
44      [\t ]*System.out.println[ \t]*"("[ \t]*     {
45                                                    System.out.print(yytext() +
        "\"");
46                                                    yybegin(PRINT);
47                                                  }
48
49      [\t ]*System.out.print[ \t]*"("[ \t]*       {
50                                                    System.out.print(yytext() +
        "\"");
51                                                    yybegin(PRINT);
52                                                  }
```

```flex
53
54      [\t]*"}"
     System.out.println(yytext()); }
55
56      [^] {}
57
58  }
59
60  <VARIABLE> {
61
62      [a-zA-Z_][a-zA-Z_0-9]*        {
63                                        if(asignacion){
64                                            variable = yytext();
65                                            asignacion = false;
66                                        }else{
67                                            valor += TablaSimbolos.get(yytext());
68                                        }
69                                    }
70
71      \"[^\"]*\"                    { valor += yytext().substring(1,
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72
73      ;                            {
74                                        TablaSimbolos.put(variable, valor);
75                                        variable = "";
76                                        valor = "";
77                                        asignacion = true;
78                                        yybegin(METODO);
79                                    }
80
81      [^] {}
82  }
83
84  <IGUAL> {
85
86      [a-zA-Z_][a-zA-Z_0-9]*            {
87                                            if(asignacion){
88                                                variable = yytext();
89                                                asignacion = false;
90                                            }else{
91                                                valor +=
     TablaSimbolos.get(yytext());
92                                            }
93                                        }
94
95      \"["\n""\t""\"""\\"]*[^+]*\"    { valor += yytext().substring(1,
     yytext().length()-1); }
96
97      \"[^\"]*\"                        { valor += yytext().substring(1,
     yytext().length()-1); }
98
99      ;                                {
100                                           TablaSimbolos.put(variable,
     valor);
101                                           variable = "";
```

```
101                                                    vurtuvtc =    ,
102                                                    valor = "";
103                                                    asignacion = true;
104                                                    yybegin(METODO);
105                                                }
106
107
108     [^]   {}
109 }
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111 <PRINT> {
112
113     [a-zA-Z_][a-zA-Z_0-9]*            { cadena +=
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114
115     ");"                              {
116                                           System.out.println(cadena + "\""
    + yytext()));
117                                           cadena = "";
118                                           yybegin(METODO);
119                                       }
120
121     \+                                {}
122
123     \"["\n""\t""\"""\\"]*[^+]*\"      { cadena += yytext().substring(1,
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22
23      "{"                     {
24                                  System.out.println(yytext());
25                                  yybegin(METODO);
26                              }
27
28      [^] {}
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32  <METODO> {
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34      .*"{"                                       {
    System.out.println(yytext()); }
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36      String                                      { yybegin(VARIABLE); }
37
38      [a-zA-Z_][a-zA-Z_0-9]*                      {
39                                                    variable = yytext();
40                                                    asignacion = false;
41                                                    yybegin(IGUAL);
42                                                  }
43
44      [\t ]*System.out.println[ \t]*"("[ \t]*     {
45                                                    System.out.print(yytext() +
    "\"");
46                                                    yybegin(PRINT);
47                                                  }
48
49      [\t ]*System.out.print[ \t]*"("[ \t]*       {
50                                                    System.out.print(yytext() +
    "\"");
51                                                    yybegin(PRINT);
52                                                  }
```

```
53
54      [\t]*"}"                                    {
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56      [^] {}
57
58  }
59
60  <VARIABLE> {
61
62      [a-zA-Z_][a-zA-Z_0-9]*          {
63                                          if(asignacion){
64                                              variable = yytext();
65                                              asignacion = false;
66                                          }else{
67                                              valor += TablaSimbolos.get(yytext());
68                                          }
69                                      }
70
71      \"[^\"]*\"                      { valor += yytext().substring(1,
      yytext().length()-1); }

73      ;                               {
74                                          TablaSimbolos.put(variable, valor);
75                                          variable = "";
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78                                          yybegin(METODO);
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81      [^] {}
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86      [a-zA-Z_][a-zA-Z_0-9]*              {
87                                              if(asignacion){
88                                                  variable = yytext();
89                                                  asignacion = false;
90                                              }else{
91                                                  valor +=
      TablaSimbolos.get(yytext());

92                                              }
93                                          }
94
95      \"["\n""\t""\""\\"]*[^+]*\"      { valor += yytext().substring(1,
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99      ;                               {
100                                         TablaSimbolos.put(variable,
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101                                         variable = "";
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101                                         variable = "",
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105                                     }
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107
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22
23      "{"                     {
24                                  System.out.println(yytext());
25                                  yybegin(METODO);
26                              }
27
28      [^] {}
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34      .*"{"                                       {
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38      [a-zA-Z_][a-zA-Z_0-9]*                      {
39                                                    variable = yytext();
40                                                    asignacion = false;
41                                                    yybegin(IGUAL);
42                                                  }
43
44      [\t ]*System.out.println[ \t]*"("[ \t]*     {
45                                                    System.out.print(yytext() +
        "\"");
46                                                    yybegin(PRINT);
47                                                  }
48
49      [\t ]*System.out.print[ \t]*"("[ \t]*       {
50                                                    System.out.print(yytext() +
        "\"");
51                                                    yybegin(PRINT);
52                                                  }
```

```flex
53
54      [\t]*"}"
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58 }

60 <VARIABLE> {

62      [a-zA-Z_][a-zA-Z_0-9]*          {
63                                              if(asignacion){
64                                                  variable = yytext();
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67                                                  valor += TablaSimbolos.get(yytext());
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71      \"[^\"]*\"                      { valor += yytext().substring(1,
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74                                              TablaSimbolos.put(variable, valor);
75                                              variable = "";
76                                              valor = "";
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78                                              yybegin(METODO);
79                                      }

81      [^] {}
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84 <IGUAL> {

86      [a-zA-Z_][a-zA-Z_0-9]*              {
87                                                  if(asignacion){
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99      ;                               {
100                                             TablaSimbolos.put(variable,
valor);

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```

```
101                                         vuriuucc —    ,
102                                         valor = "";
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22
23      "{"                      {
24                                   System.out.println(yytext());
25                                   yybegin(METODO);
26                               }
27
28      [^] {}
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    System.out.println(yytext()); }
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36      String                                        { yybegin(VARIABLE); }
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38      [a-zA-Z_][a-zA-Z_0-9]*                        {
39                                                      variable = yytext();
40                                                      asignacion = false;
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44      [\t ]*System.out.println[ \t]*"("[ \t]*       {
45                                                      System.out.print(yytext() +
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49      [\t ]*System.out.print[ \t]*"("[ \t]*         {
50                                                      System.out.print(yytext() +
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53
54      [\t]*"}"                                          {
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73      ;                             {
74                                          TablaSimbolos.put(variable, valor);
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87                                              if(asignacion){
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99      ;                             {
100                                         TablaSimbolos.put(variable,
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```
101                                              vuriubic =     ,
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26                             }
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39                                                     variable = yytext();
40                                                     asignacion = false;
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45                                                     System.out.print(yytext() +
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53
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```
101                                                    vartaure = ,
102                                                    valor = "";
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38      [a-zA-Z_][a-zA-Z_0-9]*                        {
39                                                      variable = yytext();
40                                                      asignacion = false;
41                                                      yybegin(IGUAL);
42                                                    }
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44      [\t ]*System.out.println[ \t]*"("[ \t]*       {
45      "\"");                                          System.out.print(yytext() +

46                                                      yybegin(PRINT);
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54      [\t]*"}"                               {
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69                                      }
70
71      \"[^\"]*\"                       { valor += yytext().substring(1,
     yytext().length()-1); }
72
73      ;                               {
74                                          TablaSimbolos.put(variable, valor);
75                                          variable = "";
76                                          valor = "";
77                                          asignacion = true;
78                                          yybegin(METODO);
79                                      }
80
81      [^] {}
82  }
83
84  <IGUAL> {
85
86      [a-zA-Z_][a-zA-Z_0-9]*            {
87                                              if(asignacion){
88                                                  variable = yytext();
89                                                  asignacion = false;
90                                              }else{
91                                                  valor +=
     TablaSimbolos.get(yytext());
92                                              }
93                                          }
94
95      \"["\n""\t""\"""\\"]*[^+]*\"       { valor += yytext().substring(1,
     yytext().length()-1); }
96
97      \"[^\"]*\"                         { valor += yytext().substring(1,
     yytext().length()-1); }
98
99      ;                                 {
100                                            TablaSimbolos.put(variable,
     valor);
101                                            variable = "";
```

```
101                                    vuriuoic = ",
102                                    valor = "";
103                                    asignacion = true;
104                                    yybegin(METODO);
105                                }
106
107
108     [^]   {}
109 }
110
111 <PRINT> {
112
113     [a-zA-Z_][a-zA-Z_0-9]*       { cadena +=
    TablaSimbolos.get(yytext()); }
114
115     ");"                         {
116                                    System.out.println(cadena + "\""
                                       + yytext());
117                                    cadena = "";
118                                    yybegin(METODO);
119                                }
120
121     \+                           {}
122
123     \"["\n""\t""\"""\\"]*[^+]*\"  { cadena += yytext().substring(1,
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```

```
 1  %%
 2
 3  %int
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 6      String cadena = "";
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11
12  %xstate METODO VARIABLE PRINT IGUAL
13
14  %%
15
16  <YYINITIAL> {
17
18      class                    { System.out.print(yytext()); }
19
20      [a-zA-Z_][a-zA-Z_0-9]*   { System.out.print(" " + yytext() + "_rmj "); }
21
22
23      "{"                      {
24                                   System.out.println(yytext());
25                                   yybegin(METODO);
26                               }
27
28      [^] {}
29
30  }
31
32  <METODO> {
33
34      .*"{"                                        {
    System.out.println(yytext()); }
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36      String                                       { yybegin(VARIABLE); }
37
38      [a-zA-Z_][a-zA-Z_0-9]*                       {
39                                                     variable = yytext();
40                                                     asignacion = false;
41                                                     yybegin(IGUAL);
42                                                   }
43
44      [\t ]*System.out.println[ \t]*"("[ \t]*      {
45                                                     System.out.print(yytext() +
    "\"");
46                                                     yybegin(PRINT);
47                                                   }
48
49      [\t ]*System.out.print[ \t]*"("[ \t]*        {
50                                                     System.out.print(yytext() +
    "\"");
51                                                     yybegin(PRINT);
52                                                   }
```

```
52
53
54      [\t]*"}"
     System.out.println(yytext()); }

55
56      [^] {}
57
58  }
59
60  <VARIABLE> {
61
62      [a-zA-Z_][a-zA-Z_0-9]*       {
63                                       if(asignacion){
64                                           variable = yytext();
65                                           asignacion = false;
66                                       }else{
67                                           valor += TablaSimbolos.get(yytext());
68                                       }
69                                   }
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71      \"[^\"]*\"                   { valor += yytext().substring(1,
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72
73      ;                            {
74                                       TablaSimbolos.put(variable, valor);
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87                                            if(asignacion){
88                                                variable = yytext();
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99      ;                                {
100                                           TablaSimbolos.put(variable,
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101                                              vuriub tc =     ,
102                                              valor = "";
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108        [^]   {}
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115    ");"                             {
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38      [a-zA-Z_][a-zA-Z_0-9]*                      {
39                                                    variable = yytext();
40                                                    asignacion = false;
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42                                                  }
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44      [\t ]*System.out.println[ \t]*"("[ \t]*     {
45                                                    System.out.print(yytext() +
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49      [\t ]*System.out.print[ \t]*"("[ \t]*       {
50                                                    System.out.print(yytext() +
        "\"");
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52                                                  }
```

```flex
53
54      [\t]*"}"
System.out.println(yytext()); }

55
56      [^] {}

57
58 }

59
60 <VARIABLE> {

61
62      [a-zA-Z_][a-zA-Z_0-9]*          {
63                                          if(asignacion){
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67                                              valor += TablaSimbolos.get(yytext());
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71      \"[^\"]*\"                      { valor += yytext().substring(1,
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86      [a-zA-Z_][a-zA-Z_0-9]*              {
87                                              if(asignacion){
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99      ;                               {
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101                                             variable =   ,
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22
23      "{"                      {
24                                   System.out.println(yytext());
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27
28      [^] {}
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34      .*"{"                                        {
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36      String                                       { yybegin(VARIABLE); }
37
38      [a-zA-Z_][a-zA-Z_0-9]*                       {
39                                                     variable = yytext();
40                                                     asignacion = false;
41                                                     yybegin(IGUAL);
42                                                   }
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44      [\t ]*System.out.println[ \t]*"("[ \t]*      {
45                                                     System.out.print(yytext() +
        "\"");
46                                                     yybegin(PRINT);
47                                                   }
48
49      [\t ]*System.out.print[ \t]*"("[ \t]*        {
50                                                     System.out.print(yytext() +
        "\"");
51                                                     yybegin(PRINT);
52                                                   }
```

```
53
54      [\t]*"}"                                          {
System.out.println(yytext()); }
55
56      [^] {}
57
58 }
59
60 <VARIABLE> {
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62      [a-zA-Z_][a-zA-Z_0-9]*          {
63                                          if(asignacion){
64                                              variable = yytext();
65                                              asignacion = false;
66                                          }else{
67                                              valor += TablaSimbolos.get(yytext());
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69                                      }
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71      \"[^\"]*\"                      { valor += yytext().substring(1,
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73      ;                               {
74                                          TablaSimbolos.put(variable, valor);
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87                                              if(asignacion){
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95      \"["\n""\t""\""\\"]*[^+]*\"      { valor += yytext().substring(1,
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97      \"[^\"]*\"                       { valor += yytext().substring(1,
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98
99      ;                               {
100                                          TablaSimbolos.put(variable,
   valor);
101                                          variable = "";
```

```
101                                                 vurtubtc =   ,
102                                                 valor = "";
103                                                 asignacion = true;
104                                                 yybegin(METODO);
105                                             }
106
107
108     [^]    {}
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113     [a-zA-Z_][a-zA-Z_0-9]*          { cadena +=
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115     ");"                             {
116                                          System.out.println(cadena + "\""
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117                                          cadena = "";
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121     \+                               {}
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123     \"["\n""\t""\"""\\"]*[^+]*\"      { cadena += yytext().substring(1,
    yytext().length()-1); }                yytext().length()-1); }
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```
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11
12 %xstate METODO VARIABLE PRINT IGUAL
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19
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22
23     "{"                     {
24                                 System.out.println(yytext());
25                                 yybegin(METODO);
26                             }
27
28     [^] {}
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32 <METODO> {
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34     .*"{"                                           {
   System.out.println(yytext()); }
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36     String                                          { yybegin(VARIABLE); }
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38     [a-zA-Z_][a-zA-Z_0-9]*                          {
39                                                       variable = yytext();
40                                                       asignacion = false;
41                                                       yybegin(IGUAL);
42                                                     }
43
44     [\t ]*System.out.println[ \t]*"("[ \t]*         {
45                                                       System.out.print(yytext() +
   "\"");
46                                                       yybegin(PRINT);
47                                                     }
48
49     [\t ]*System.out.print[ \t]*"("[ \t]*           {
50                                                       System.out.print(yytext() +
   "\"");
51                                                       yybegin(PRINT);
52                                                     }
```

```
52                                                                                 }
53
54      [\t]*"}"                                                                {
     System.out.println(yytext()); }
55
56      [^] {}
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58 }
59
60 <VARIABLE> {
61
62      [a-zA-Z_][a-zA-Z_0-9]*          {
63                                              if(asignacion){
64                                                  variable = yytext();
65                                                  asignacion = false;
66                                              }else{
67                                                  valor += TablaSimbolos.get(yytext());
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71      \"[^\"]*\"                      { valor += yytext().substring(1,
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73      ;                               {
74                                              TablaSimbolos.put(variable, valor);
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79                                      }
80
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87                                              if(asignacion){
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99      ;                               {
100                                             TablaSimbolos.put(variable,
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```

```
101                                            variable = "";
102                                            valor = "";
103                                            asignacion = true;
104                                            yybegin(METODO);
105                                        }
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107
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113     [a-zA-Z_][a-zA-Z_0-9]*          { cadena +=
    TablaSimbolos.get(yytext()); }
114
115     ");"                            {
116                                        System.out.println(cadena + "\""
                                            + yytext());
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119                                    }
120
121     \+                              {}
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123     \"["\n""\t""\"""\\"]*[^+]*\"     { cadena += yytext().substring(1,
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38     [a-zA-Z_][a-zA-Z_0-9]*                              {
39                                                           variable = yytext();
40                                                           asignacion = false;
41                                                           yybegin(IGUAL);
42                                                         }
43
44     [\t ]*System.out.println[ \t]*"("[ \t]*             {
45 "\""); 
                                                          System.out.print(yytext() +

46                                                           yybegin(PRINT);
47                                                         }
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49     [\t ]*System.out.print[ \t]*"("[ \t]*               {
50 "\"");
                                                          System.out.print(yytext() +

51                                                           yybegin(PRINT);
52                                                         }
```

```flex
53
54      [\t]*"}"                                                    {
    System.out.println(yytext()); }

56      [^] {}

58  }

60  <VARIABLE> {

62      [a-zA-Z_][a-zA-Z_0-9]*          {
63                                              if(asignacion){
64                                                  variable = yytext();
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101                                                     variable = "",
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86      [a-zA-Z_][a-zA-Z_0-9]*            {
87                                            if(asignacion){
88                                                variable = yytext();
89                                                asignacion = false;
90                                            }else{
91                                                valor +=
     TablaSimbolos.get(yytext());
92                                            }
93                                        }
94
95      \"["\n""\t""\""\\"]*[^+]*\"    { valor += yytext().substring(1,
     yytext().length()-1); }
96
97      \"[^\"]*\"                    { valor += yytext().substring(1,
     yytext().length()-1); }
98
99      ;                                {
100                                           TablaSimbolos.put(variable,
     valor);
101                                           variable = "";
```

```
101                                              variable = "",
102                                              valor = "";
103                                              asignacion = true;
104                                              yybegin(METODO);
105                                          }
106
107
108     [^]   {}
109 }
110
111 <PRINT> {
112
113     [a-zA-Z_][a-zA-Z_0-9]*        { cadena +=
    TablaSimbolos.get(yytext()); }
114
115     ");"                          {
116                                      System.out.println(cadena + "\""
                                          + yytext());
117                                      cadena = "";
118                                      yybegin(METODO);
119                                   }
120
121     \+                            {}
122
123     \"["\n""\t""\"""\\"]*[^+]*\"  { cadena += yytext().substring(1,
    yytext().length()-1); }
124
125     \"[^\"]*\"                    { cadena += yytext().substring(1,
    yytext().length()-1); }
126
127     [^] {}
128 }
```