```
/*
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     Roll: PE29
     SSC Practical Exam Chit 6
 6
 7
8
     %option noyywrap
9
10
         #include<stdio.h>
11
         #include<string.h>
12
         struct SymbolTable
13
14
             char symbol[10];
15
             char type[10];
16
         }SymbolTable[10];
17
    int count = 0;
18
   char data[10];
19 char type[10];
20 void insert();
21 void display();
22
   letter[a-zA-Z]
23
24 digit[0-9]
25
    num({digit}{digit}*)
     KEYWORDS "class"|"static"
26
     datatype(int|char|float|void)
27
28
    CONDITIONAL "if" | "else" | "else if" | "switch" | "case"
29
    SC ";"
30
    array(\{id\}(\setminus [))
    id({letter}({letter}|{digit})*)
31
32
     ARITH OP "+"|"-"|"/"|"%"|"*";
     LOGICAL OP "&&"|"||"|"!"|"!="
33
     REL OP "<"|">"|"<="|">="|"=="
34
     UNARY "++"|"--"
35
36
     응응
37
38
     {num} {printf("%s is a NUMBER\n", yytext);}
39
     {KEYWORDS} {printf("%s is a KEYWORDS\n", yytext);}
40
     {id} {printf("%s is an identifier\n", yytext); insert(yytext, "id");}
41
     {UNARY} {printf("%s is an UNARY OP\n", yytext);}
42
     {ARITH OP} {printf("%s is a ARITHMETIC OPERATOR\n", yytext);}
43
     {LOGICAL OP} {printf("%s is LOGICAL OP\n", yytext);}
44
     {array} {printf("%s is an array\n",yytext);insert(yytext,"array");}
45
     {SC} {printf("%s is DELIMITER\n",yytext);}
46
     "{" {printf("%s\t==> BLOCK BEGIN\n", yytext);}
     "}" {printf("%s\t==> BLOCK END\n",yytext);}
47
48
49
50
    int main()
51
52
         yylex();
53
         display();
54
         return 0;
55
56
    void insert(char data[10], char type[10])
57
58
         strcpy(SymbolTable[count].symbol,data);
59
         strcpy(SymbolTable[count].type,type);
60
         ++count;
61
62
     void display()
63
64
65
         printf("----Symbol Table----");
66
         for(int i=0;i<count;i++)</pre>
67
68
             printf("\n%s\t%s",SymbolTable[i].symbol,SymbolTable[i].type);
69
```

}

Command Prompt

