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Code:

```
%{  
  
#include <stdio.h>  
#include <string.h>  
  
int count;  
  
%}  
  
%option noyywrap  
  
letter [a-zA-Z]  
digit [0-9]  
space [' ']  
identifier ({letter}({letter}|{digit})*)  
classname (class{space}({letter}|{digit})*)  
quote \"  
datatype (int|char|float|double|void)  
keywords  
(void|class|throws|import|try|catch|finally|static|implements|extends|main  
)  
booleanvalues (true|false)  
loops (while|for)  
conditionalStatements (if|else|switch)  
string ({quote}({letter}|{digit})*{quote})  
array ({identifier}(\[\\d+\\])*  
parenthesis ([{}()];,])  
comment \"//\".*  
  
%%  
  
{space} ;  
  
[ \\t\\n] ; // Ignore whitespace
```



```
rohit@DESKTOP-3DK430M MINGW64 ~/Documents/GitHub/sem_7/ssc/lab5 (main)
$ wsl
(rs3523@DESKTOP-3DK430M)-[/mnt/c/Users/rohit/Documents/GitHub/sem_7/ssc/lab5]
$ ./a.out
Identifier: public
Classname: class input
Parenthesis: {
Unknown Token:
Identifier: public
Keyword: static
Keyword: void
Keyword: main
Parenthesis: (
Identifier: String
Unknown Token: [
Unknown Token: ]
Identifier: args
Parenthesis: )
Parenthesis: {
Unknown Token:
Comment: // This is a comment
Identifier: System
Unknown Token: .
Identifier: out
Unknown Token: .
Identifier: println
Parenthesis: (
Quote: "
Identifier: Hello
Parenthesis: ,
Identifier: World
Unknown Token: !
Quote: "
Parenthesis: )
Parenthesis: ;
Unknown Token:
Datatype: int
Identifier: num1
```