```
%{
        #include <stdio.h>
        #include <stdlib.h>
%}
[\t\n ]+
                {}
double
int
do
cout
return
case
switch
then
include
        fprintf(yyout, "%s --> KEYWORD\n", yytext);
[0-9]+{}
        fprintf(yyout, "%s --> INTEGER\n", yytext);
[0-9]+"."[0-9]* {
        fprintf(yyout, "%s --> FLOATING POINT\n", yytext);
[a-zA-Z][a-zA-Z0-9]*
        fprintf(yyout, "%s --> IDENTIFIER\n", yytext);
}
"*"
        fprintf(yyout, "%s --> OPERATOR\n", yytext);
}
"//"[a-zA-Z0-9' '\t]* {
        fprintf(yyout, "%s --> COMMENT\n", yytext);
}
"/*"[a-zA-Z0-9' '\t\n]*"*""/" {
        fprintf(yyout, "%s --> COMMENT\n", yytext);
}
. {}
%
int main()
{
        char in_file_name[100];
        printf("Enter the input file name : ");
        scanf("%123s",in_file_name);
        extern FILE *yyin;
        extern FILE *yyout;
        yyin = fopen(in_file_name, "r");
```