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# Div : A

**Lex Program :**

%{

#include<stdio.h>

%}

%%

[0.9]+[0-9]+printf("%s is a floating point number\n",yytext); int|float|char|double|voidprintf("%s is a datatype\n",yytext); [0-9]+ printf("%s is an integer number\n",yytext);

[a-z]+[()] printf("%s is a function \n",yytext); [a-z]+ printf("%s is an identifier\n",yytext); [+=\*/-] printf("%s is an operator\n",yytext); printf("%s is an delimeter\n",yytext); printf("%s is a separator\n",yytext);

[#][a-z/.h]+ printf("%s is a preprocessor\n",yytext);

%%

int yywrap(void) {} int main()

{

freopen("test.c","r",stdin); yylex();

return 0;

}

**C program:** #include<stdio.h> int main()

{

int a=4; if(a%2==0) printf("Even"); else printf("Odd"); return 0;

}

# OUTPUT:

