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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()
```

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

OUTPUT: