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Name: Pradyot Patil
Sem: VII
Roll No.: 53
/* Write a yacc specification to check the syntax of arithmetic expression
involving operators (+,-,*,/)
   and also evaluate the expression. */
/* E-> E+E| E*E|E-E|E/E|(E)|id|num
// LEX
%{
         #include "y.tab.h"
%}
%%
[A-Za-z][A-Za-z0-9] {return id;}
[+] {return '+';}
[-] {return '-';}
[*] {return '*';}
[/] {return '/';}
[(] {return '(';}
[)] {return ')';}
[\t];
[0-9]+ {yylval=atoi(yytext);return num;}
int yywrap() {
    return 1;
//YACC Program
   #include<stdio.h>
   #include<stdlib.h>
   int yyerror();
%token num id '+' '-' '*' '/'
%left '+' '-'
%left '*' '/'
%left '(' ')'
EXPR : E {printf("Result= %d\n",$$); exit(0);} E:E '+' E {$$=$1+$3 ;} |E '-' E {$$=$1-$3 ;}
 |E '*' E
              {$$=$1*$3;}
 |E '/' E {$$=$1/$3;}
 | '(' E ')' {$$=$2;}
        {$$=$1;}
 | id
 | num
            {$$=$<mark>1</mark>;}
%%
int main() {
   printf("Enter Arithmetic Expression:\t");
   yyparse();
}
int yyerror() {
    printf("Error\n");
```