%{

#include<stdio.h>

#include<string.h>

int nooper=0,nooperand=0, i=0,j=0,valid=0;

char opnd[10][10],opert[10][10];

%}

%%

"(" { valid =1;}

")" { valid=0;}

"+"|"\*" {nooper++; strcpy(opert[i],yytext);i++;}

[0-9]+ {nooperand++; strcpy(opnd[j],yytext);j++;}

[^+\*]"("[^0-9] YYFAIL();

%%

int main()

{

int k;

printf("Enter the expression\n");

yylex();

if(valid==0 &&(nooperand-nooper)==1)

{

printf("The exp is valid\n");

printf("The operator are\n");

for(k=0;k<i;k++)

printf("%s\n",opert[k]);

printf("The operands are\n");

for(k=0;k<j;k++)

printf("%s\n",opnd[k]);

}

else{

printf("The exp is invalid");

return 0;

}

}

int YYFAIL()

{

printf("Invalid");

exit(0);

}