```
1
     #include «stdio.h»
 2
     #include < string.h>
4 int main(){{
         char nt, p1[20], p2[20];
 5
 6
         printf("Enter production (E->ab|ac): ");
7
         scanf("%c->%[^|]|%s",&nt,p1,p2);
 8
         int i=0;
9
         while(p1[i] && p2[i] && p1[i] == p2[i]) i++; ax find common prefix
10
         if(i==0) printf("No Left Factoring\n");
11 -
         else {
              printf("%c->",nt);
12
13
              for(int j=0;j<i;j++) printf("%c",pl[j]);</pre>
14
             printf("%c'\n%c'->%s|%s\n",nt,p1+i,p2+i),
15
   L ]}
16
```

```
CompileLog Debug  CFind Results  Close

Compilation results...

-----
- Errors: 0
- Warnings: 0
- Output Filename: C:\Users\sreel\OneDrive\Desktop\Untitled9.exe
- Output Size: 129.4423828125 KiB
- Compilation Time: 0.16s
```

```
#include <stdic.h>
     #include < string.h>
 2
     char str[50]; int i=0;
 3
 4
 5
     void E(); void E_(); void T(); void T_(); void F();
 6
     void E(){ T(); E_(); }
     void E_(){ if(str[i]=='+'){ i++; T(); E_(); } }
 8
     void T(){ F(); T_(); }
 9
     void T_(){ if(str[i]=='*'){ i++; F(); T_(); } }
10
11 - void F(){
12
         if(str[i]=='('){ i++; E(); if(str[i]==')') i++; else {printf("Error\n"); return;} }
13
         else if(str[i]=='i'&&str[i+1]=='d'){ i+=2; }
14
         else { printf("Error\n"); return; }
15
16
17 = int main(){{
         printf("Enter expression: ");
18
19
         scanf("%s",str);
20
         E();
         if(str[i]=='\0') printf("Parsing Successful\n");
21
         else printf("Error\n");
22
23 L
```

```
Compile Log Debug  C. Find Results  Close

Compilation results...

-----
- Errors: 0
- Warnings: 0
- Output Filename: 0:\Users\sreel\OneDrive\Desktop\Untitledic.exe
- Output Size: 129.3935546875 KiB
- Compilation Time: 0.17s
```

```
Enter expression: id+id*id
Parsing Successful
------
Process exited after 16.13 seconds with return value 0
Press any key to continue . . .
```

```
#include *stdio.h*
#include *ctype.h*

#include *math.n*

char 'p;

int E(); int T(); int F(); int P();

int E(); int v=T(); while('p=='+'||*p=='-'){ char op='p++; int n=T(); v=(op=='+')?v+n;v-n; } return v; }

int T(){ int v=F(); while('p=='*')| 'p=='/' } { char op='p++; int n=F(); v=(op=='+')?v*n;v/n; } return v; }

int F(){ int v=P(); if('p=='^*) } p++; v=pow(v,F()); } return v; }

int P(){ int v=0; if('p=='('){ p++; v=pow(v,F()); } return v; } else while(isdigit('p)) v=v*l0+('p++-'0'); return v; }

int main(){
    char s[l00]; printf("Enter expression: ");
    scanf("%s",s); p=s;
    printf("Result=%d\n",E());
```

```
CompileLog Debug LindResults Close

Compilation results...

- Errors: 0

- Warnings: 0

- Output Filename: 0:\Users\sreel\OneDrive\Desktop\Untitled13.exe

- Output Size: 151.8173818128 KiB

- Compilation Time: 0.168
```

```
Enter expression: 2+3*4
Result=14
------
Process exited after 14.76 seconds with return value 0
Press any key to continue . . .
```

```
#include (stdio.h)
       #include (ctype.h)
       #include (math.mo
       char 'p:
       int E(); int T(); int F(); int P();
        int E(){ int v=f(); while(*p==** ||*p==*-) { char op=*p+*; int r=f(); v=f(op==**-) ?v*r:v r; | return v; }
int T(){ int v=F(); while(*p==**-||*p==*-/) { char op=*p+*; int r=F(); v=f(op==**-) ?v*r:v/r; | return v; }
int F(){ int v=P(); if(*p==*^*-) { p++; v=pon(v,F()); | return v; | }
int P(){ int v=0; if(*p==*(*)( p++; v=E(); if(*p==*)*) p++; | else while(isdigit(*p)) v=v*10+(*p++-*0*); return v; | }
10
11
12
13
14 = int main(){{
15
          char s[100]; printf("Enter expression: ");
             scanf("%s",s); p=s;
printf("Result=%d\n",E());
16
17
18
```

```
CompileLog  Debug  CFind Results  Close

Compilation results...

- Errors: 0

- Warnings: 0

- Output Filename: 0:\Users\sreel\OneDrive\Desktop\Untitledi3.exe

- Output Size: 151.8173828125 KiB

- Compilation Time: 0.16s
```

```
Enter expression: a+b*c
Result=0

Process exited after 10.8 seconds with return value 0
Press any key to continue . . .
```

```
#include (stdio.h>
     #include *string.h>
4 - int check(char 's){
         int i=0,j=strlen(s)-1;
         while(i<j) if(s[i++]!='a'||s[j--]!='b') return 0;
7
         return (i););
8 L
9
10 - int main(){
         char s[50];
scanf("%s",s);
11
12
         printf(check(s)?"Valid\n":"Invalid\n");
13
14 L
```

```
CompileLog  Debug  C Find Results  Close

Compilation results...

- Errors: 0

- Warnings: 0

- Output Filename: C:\Users\sreel\OneDrive\Desktop\Untitledil.exe

- Output Size: 128.6298828125 KiB

- Compilation Time: 0.16s
```

```
#include <string.h>

struct sym{char n[20],t[10];} tab[50]; int c=0;

void ins(char 'n,char 't)( strcpy(tab[c].n,n); strcpy(tab[c++].t,t); )

int sea(char 'n)[ for(int i=0;icc;i++) if(!strcmp(tab[i].n,n)) return i; return 'l; ]

void disp()( for(int i=0;icc;i++) printf("%s\t%s\n",tab[i].n,tab[i].t); )

int main(){
    int ch; char n[20],t[10];
    while(1){
        scanf("%d",&ch);
        if(ch=1)( scanf("%s %s",n,t); ins(n,t); ]
        else if(ch=2)( scanf("%s",n); int i=sea(n); printf(i!=-12"Found\n":"Not Found\n"); }

else if(ch=3) disp();

else break;
}
```

```
CompileLog Debug G. Find Results Close

Compilation results...

- Errors: 3

- Warnings: 3

- Output Filename: 0:\Users\sreel\OneDrive\Desktop\Untitledib.exe

- Output Size: 133.0419921075 KiB

- Compilation Time: 3.17s
```