



```
1  #include<conio.h>
2  #include<stdio.h>
3
4  char arr[18][3] = {{ 'E', '+', 'F' }, { 'E', '*', 'F' }, { 'E', '(', 'F' }, { 'E', ')', 'F' }, { 'E', 'i', 'F' }, { 'E', '$', 'F' },
5  { 'F', '+', 'F' }, { 'F', '*', 'F' }, { 'F', '(', 'F' }, { 'F', ')', 'F' }, { 'F', 'i', 'F' }, { 'F', '$', 'F' }, { 'T', '+', 'F' },
6  { 'T', '*', 'F' }, { 'T', '(', 'F' }, { 'T', ')', 'F' }, { 'T', 'i', 'F' }, { 'T', '$', 'F' }};
7
8  char prod[] = "EETTF";
9  char res[6][3] = {{ 'E', '+', 'T' }, { 'T', '\0' }, { 'T', '*', 'F' }, { 'F', '\0' }, { '(', 'E', ')' }, { 'i', '\0' }};
10 char stack[5][2];
11 int top = -1;
12
13 void install(char pro, char re) {
14     int i;
15     for (i = 0; i < 18; ++i) {
16         if (arr[i][0] == pro && arr[i][1] == re) {
17             arr[i][2] = 'T';
18             break;
19         }
20     }
21     ++top;
22     stack[top][0] = pro;
23     stack[top][1] = re;
24 }
25
26
27 int main() {
28     int i = 0, j;
29     char pro, re, pri = ' ';
30
31     for (i = 0; i < 6; ++i) {
32         for (j = 0; j < 3 && res[i][j] != '\0'; ++j) {
```

Abort Compilation

Compilation results...

```
-----
- Errors: 0
- Warnings: 0
- Output Filename: C:\Users\swaro\OneDrive\Documents\exp 19.exe
- Output Size: 130.388671875 KiB
- Compilation Time: 0.20s
```





Project Classes Debug

exp 18.cpp exp 19.cpp

```
35         break;
36     }
37 }
38
39 while (top >= 0) {
40     pro = stack[top][0];
41     re = stack[top][1];
42     --top;
43     for (i = 0; i < 6; ++i) {
44         if (res[i][0] == pro && res[i][0] != prod[i]) {
45             install(prod[i], re);
46         }
47     }
48 }
49 for (i = 0; i < 18; ++i) {
50     printf("\n\t");
51     for (j = 0; j < 3; ++j)
52         printf("%c\t", arr[i][j]);
53 }
54 getch();
55 printf("\n\n");
56 for (i = 0; i < 18; ++i) {
57     if (pri != arr[i][0]) {
58         pri = arr[i][0];
59         printf("\n\t%c -> ", pri);
60     }
61     if (arr[i][2] == 'I')
62         printf("%c ", arr[i][1]);
63 }
64 getch();
65 }
66 }
```

Compiler Resources Compile Log Debug Find Results Close

Abort Compilation

Compilation results...

```
-----
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```

Line: 66 Col: 1 Sel: 0 Lines: 66 Length: 1873 Insert Done parsing in 0 seconds



E	+	T
E	*	T
E	(	T
E	)	F
E	i	T
F	\$	F
F	+	F
F	*	F
F	(	T
F	)	F
F	i	T
F	\$	F
T	+	F
T	*	T
T	(	T
T	)	F
T	i	T
T	\$	F

```
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