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1. //Implementation of Infix to Postfix Conversion
2. //save the program with anyname.c
3. #include<stdio.h>
4. #include<ctvpe.h>
char stack[100];
6. int top = -1;
void push(char x)
8. {
9.
        stack[++top] = x;
10.}
11. char pop()
12. {
               if(top == -1)
13.
14.
                    return -1:
15.
               else
                    return stack[top--];
16.
17.}
18. int priority(char x)
19. {
20.
               if(x == '(')
21.
                    return 0;
               if(x == '+' || x == '-')
22.
23.
                    return 1;
24.
               if(x == '*' || x == '/')
25.
                    return 2;
26.
               return 0;
27.}
28. int main()
29. {
30.
               char exp[100];
31.
               char *e, x;
32.
               printf("Enter the expression : ");
33.
               scanf("%s",exp);
               printf("\n");
34.
35.
               e = exp;
36.
37.
               while(*e != '\0')
38.
                {
                    if(isalnum(*e))
39.
                          printf("%c ",*e);
40.
                    else if(*e == '(')
41.
42.
                          push(*e);
                     else if(*e == ')')
43.
44.
45.
                         while((x = pop())! = '(')
                              printf("%c ", x);
46.
                     }
47.
                    else
48.
49.
                     {
                          while(priority(stack[top]) >= priority(*e))
50.
                              printf("%c ",pop());
51.
                         push(*e);
52.
                     }
53.
54.
                    e++;
                }
55.
56.
57.
               while(top != -1)
58.
59.
                    printf("%c ",pop());
                }return 0;
60.
```

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62. Output:
63. yasar@yasar-Lenovo-G50-80:~/Desktop/DataStructures/lords/lab$ gcc infixTopostfix.c -o ip2
64. yasar@yasar-Lenovo-G50-80:~/Desktop/DataStructures/lords/lab$ ,/ip2
65.
66. Enter the expression : A+B
67.
68. A B +
69.
70. yasar@yasar-Lenovo-G50-80:~/Desktop/DataStructures/lords/lab$ ,/ip2
71. Enter the expression : (A+B)*(C+D)
72.
73. A B + C D + *
```

61.}