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main.c

1#include <stdio.h>

2# define MAX 100

3char stack[MAX];

4int top=-1;

5

6void push(char ch)

7{

8 if (top==MAX-1)

9 printf("Stack is full\n");

10 else

11 {

12 top++;

13 stack[top]=ch;

14 }

15}

16char pop()

17{

18 char item;

19 if (top== -1)

20 printf("\n stack is empty !");

21 else

22 {

23 item=stack[top];

24 top--;

25 return item;

26 }

27}

28}

29

30int stackempty()

31{

32 if(top== -1) return 1;

33 else return 0;

34}

35

36char stacktop()

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Language C

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Language C

main.c

```
75      case ')' :while(( item=pop())!= ( )
76                  printf("%c",item);
77                  break;
78      case '+':
79      case '-':
80      case '*':
81      case '/':
82      case '^':
83          while(!stackempty() && priority(infix[i])<=priority(stacktop()))
84          {
85              item=pop();
86              printf("%c", item);
87          }
88          push(infix[i]);
89          break;
90      default : printf("%c", infix[i]);
91                break;
92          }
93          i++;
94      }
95      while(!stackempty())
96      {
97          char item;
98          item=pop();
99          printf("%c", item);
100      }
101      printf("\n");
102      return 0;
103  }
```

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main.c

32

if(top==1) return 1;

33

else return 0;

34

}

35

36

char stacktop()

37

{

38

if(top==1)

39

printf("\n stack is empty!");

40

else

41

return stack[top];

42

}

43

int priority(char ch)

44

{

45

switch(ch)

46

{

47

case '+':

48

case '-':return (1);

49

case '*':

50

case '/':return (2);

51

case '^': return (3);

52

default : return (0);

53

}

54

}

55

56

57

58

int main(int argc, char **argv)

59

{

60

char infix[100];

61

int i, item;

62

printf("Enter the infix expression :");

63

scanf("%s",infix);

64

printf("Expression : %s",infix);

65

printf("\n Postfix: ");

66

i=0;

67

while (infix[i]!='\0')

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Language C

main.c

63

scanf("%s",infix);

64

printf("Expression : %s",infix);

65

printf("\n Postfix: ");

66

i=0;

67

while (infix[i]!='\0')

68

{

69

70

71

switch (infix[i])

72

{

73

case '(': push(infix[i]);

74

break;

75

case ')':while((item=pop())!='(')

76

printf("%c",item);

77

break;

78

case '+':

79

case '-':

80

case '*':

81

case '/':

82

case '^':

83

while(!stackempty() && priority(infix[i])<=priority(stacktop()))

84

{

85

item=pop();

86

printf("%c", item);

87

}

88

push(infix[i]);

89

break;

90

default : printf("%c", infix[i]);

91

break;

92

}

93

i++;

94

}

95

}

96

}

97

}

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}

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Language C

main.c

```
1 #include <stdio.h>
2 # define MAX 100
3 char stack[MAX];
4 int top=-1;
5
6 void push(char ch)
```

input

```
Enter the infix expression :a*b+c-d^e/f*g
Expression : a*b+c-d^e/f*g
Postfix: ab*c+de^f/g*-

...Program finished with exit code 0
Press ENTER to exit console.
```

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main.c

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96

97

case '+':

case '-':

case '*':

case '/':

case '^':

while(!stackempty() && priority(infix[i])<=priority(stacktop()))

{

item=pop();

printf("%c", item);

}

push(infix[i]);

break;

default : printf("%c", infix[i]);

break;

}

int:

Language C

input

Enter the infix expression : (A+B) *C- (D-E) * (F+G)
Expression : (A+B) *C- (D-E) * (F+G)
Postfix: AB+C*DE-FG+*-

...Program finished with exit code 0
Press ENTER to exit console.

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