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#include <stdio.h>
#include <ctype.h>
#define SIZE 100
char stack[SIZE];
int top = -1;
void push(char c) {
    stack[++top] = c;
}
char pop() {
    return stack[top--];
}
int precedence(char c) {
    if(c == '*' || c == '/') return 2;
    if(c == '+' || c == '-') return 1;
    return 0;
}
void infixToPostfix(char infix[]) {
    char postfix[SIZE];
    int i = 0, j = 0;
    char ch;
    while(infix[i] != '\0') {
        ch = infix[i];
        if(isalnum(ch)) {
            postfix[j++] = ch;
        }
        else if(ch == '(') {
            push(ch);
        }
        else if(ch == ')') {
            while(stack[top] != '(') {
                postfix[j++] = pop();
            }
            pop();
        }
        else {
            while(top != -1 && precedence(stack[top]) >= precedence(ch)) {
                postfix[j++] = pop();
            }
            push(ch);
        }
        i++;
    }
    while(top != -1) {
        postfix[j++] = pop();
    }
}

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    }
    postfix[j] = '\0';
    printf("Postfix: %s\n", postfix);
}
int main() {
    char infix[SIZE];
    printf("Enter Infix Expression: ");
    scanf("%s", infix);
    infixToPostfix(infix);
    return 0;
}

```

C:\Users\upper\OneDrive\DATA STRUCTRES\ascending and decinding .exe

```

Enter number of elements in first array: 5
Enter 5 elements:
1 4 5 2 6
Enter number of elements in second array: 5
Enter 5 elements:
1 8 2 5 6
Concatenated array:
1 4 5 2 6 1 8 2 5 6

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Process exited after 13.47 seconds with return value 0
Press any key to continue . . .

```