

```

#include <stdio.h>
#include <ctype.h>
#include <stdlib.h>
#define SIZE 100
int stack[SIZE];
int top = -1;
void push(int value) {
    stack[++top] = value;
}
int pop() {
    return stack[top--];
}
int evaluatePostfix(char exp[]) {
    int i, op1, op2, result;
    for(i = 0; exp[i] != '\0'; i++) {
        char ch = exp[i];
        if(isdigit(ch)) {
            push(ch - '0');
        }
        else {
            op2 = pop();
            op1 = pop();
            switch(ch) {
                case '+': result = op1 + op2; break;
                case '-': result = op1 - op2; break;
                case '*': result = op1 * op2; break;
                case '/': result = op1 / op2; break;
            }
            push(result);
        }
    }
    return pop();
}
int main() {
    char postfix[SIZE];
    printf("Enter Postfix Expression (e.g. 53*2+): ");
    scanf("%s", postfix);
    int result = evaluatePostfix(postfix);
    printf("Result = %d\n", result);
    return 0;
}

```

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

Enter Postfix Expression (e.g. 53*2+): 45+/3

Result = 3

Process exited after 20.78 seconds with return value 0
Press any key to continue . . .