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#include<stdlib.h>
#include<stdio.h>
#include<ctype.h>
#include<math.h>

int s[50] , top = -1 ;

void push(int item) {
    s[++top] = item;
}

int pop() {
    return s[top--];
}

void main() {
    printf("Enter the postfix expression : ");
    char exp[50] , *e;
    scanf("%s", exp);
    e = exp;

    while(*e != '\0') {

        if(isdigit(*e))
            push((int)(*e - '0'));

        else {

            int op1 = pop();
            int op2 = pop();

            switch(*e) {
                case '+' : push(op2 + op1);
                                                                    break;
                case '-' : push(op2 - op1);
                                                                    break;
                case '*' : push(op2*op1);
                                                                    break;
                case '/' : if(op1 != 0)
                                                                    break;

            push(op2 / op1);
                                                                    else {

printf("can't divide by zero.\n");

printf("Terminating calculation.\n");

exit(1);

}

                                                                    break;

                case '^' : push((int)pow(op2,op1));
                                                                    break;

            }

            e++;
        }

        printf("Result : %d \n", s[top]);
    }
}

```

