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1: #include<stdio.h>
2: #include<ctype.h>
3: #include<string.h>
4: #include<math.h>
5: int compute(char symbol,int op1,int op2)
6: {
7:     switch(symbol)
8:     {
9:         case '+': return op1+op2;
10:        case '-': return op1-op2;
11:        case '*': return op1*op2;
12:        case '/': return op1/op2;
13:        case '%': return op1%op2;
14:        case '^':
15:        case '$': return pow(op1,op2);
16:    }
17: }
18: void main()
19: {
20:     char expression[20];
21:     int op1,op2,i,top=-1,result,final;
22:     char symbol;
23:     int stack[20];
24:     printf("Enter postfix expression:\n");
25:     scanf("%s",expression);
26:     for(i=0;i<strlen(expression);i++)
27:     {
28:         symbol=expression[i];
29:         if(isdigit(symbol))
30:             stack[++top]=symbol-'0';
31:         else
32:         {
33:             op2=stack[top--];
34:             op1=stack[top--];
35:             result=compute(symbol,op1,op2);
36:             stack[++top]=result;
37:         }
38:     }
39:     final=stack[top--];
40:     printf("Value of expression: %d\n",final);
41: }

```