

```

//evaluation of postfix

#include <stdio.h>

#include <stdlib.h>

#include <string.h>

#include <ctype.h>

#define max 100

char s[max];

int top=-1;

void push(int value)

{

    if(top==max-1)

    {

        printf("overflow,cant push");

    }

    else{

        s[++top]=value;

    }

}

int pop()

{

    int value;

    if(top== -1){

        printf("stack underflow,cant pop\n");

        exit(1);

    }

    else{

        value=s[top--];

        return value;

    }

}

```

```

    }
}
int main()
{
    char exp[100];
    char *e;
    int value=0;
    printf("enter the exp:");
    scanf("%s",exp);
    e=exp;
    while(*e!='\0')
    {
        if(isdigit(*e))
        {
            int num=*e-'0';
            push(num);
        }
        else{
            char op1=pop();
            char op2=pop();
            switch (*e)
            {
                case '+':
                    value=op1+op2;
                    break;
                case '-':
                    value=op2-op1;
                    break;
                case '*':
                    value=op1*op2;

```

```
        break;
    case '/':
        value=op1/op2;
        break;

    }
    push(value);
}
e++;
}

printf("eval:%d",pop());
}
```

Output

```
enter the exp:12*34*+5-
eval:9
```