//后缀表达式求值

#include <stdio.h>

#include <stdlib.h>

#define max 100000

typedef struct LINK

{

int s[ max ];

int top;

}LINK;

int make\_end( char ch , int left, int right )

{

int num ;

switch( ch )

{

case '+': num = left + right;break;

case '-': num = left - right;break;

case '\*': num = left \* right;break;

case '/': num = left / right;break;

case '%': num = left % right;break;

}

return num;

}

int main()

{

char a[ max ]; int i = 0 , b[ max ],j = 0;

while( ( a[ i ] = getchar() ) != '@' ) i++ ;

a[ i ] = '\0'; //输入后缀表达式, len = i ;

int len = i ,num ; LINK L; L.top = -1;

for( i = 0; a[ i ] != '\0'; i++ )

{

int temp ;

if( a[ i ] >= '0' && a[ i ] <= '9' ) //提取数值

{

int k = i + 1;

temp = a[ i ] - '0';

while( a[ k ] >= '0' && a[ k ] <= '9' )

{

temp = 10 \* temp + ( a[ k ] - '0') ;

i++; k++;

}

L.top ++;

L.s[ L.top ] = temp;

}

else if( a[ i ] == '+' || a[ i ] == '-' || a[ i ] == '\*' || a[ i ] == '/' || a[ i ] == '%' )

{

num = make\_end( a[i] , L.s[ L.top - 1 ] , L.s[ L.top ] );

L.s[ L.top - 1 ] = num;

L.s[ L.top ] = 0;

L.top -- ;

}

}

printf("%d\n", L.s[ L.top ]);

return 0;

}