```
#include <stdio.h>
#include <ctype.h>
#include <stdlib.h>
#define SIZE 40
int pop();
void push(int);
char postfix[SIZE];
int stack[SIZE], top = -1;
int main()
{
   int i, a, b, result, pEval;
   char ch;
   for(i=0; i<SIZE; i++)
   {
      stack[i] = -1;
   }
   printf("\nEnter a postfix expression: ");
   scanf("%s",postfix);
   for(i=0; postfix[i] != '\0'; i++)
   {
      ch = postfix[i];
      if(isdigit(ch))
      {
         push(ch-'0');
      }
      else if(ch == '+' || ch == '-' || ch == '*' || ch ==
'/')
      {
         b = pop();
         a = pop();
         switch(ch)
         {
            case '+': result = a+b;
            break;
            case '-': result = a-b;
            break;
            case '*': result = a*b;
            break;
            case '/': result = a/b;
            break;
            case '%':result = a%b;
            break;
         }
         push(result);
      }
```

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    }
    pEval = pop();
    printf("\nThe postfix evaluation is: %d\n",pEval);
    return 0;
}
void push(int n)
{

    if (top < SIZE -1)
    {
        stack[++top] = n;
    }
    else
    {
        printf("Stack is full!\n");
        exit(-1);
    }
}
int pop()
{
    int n;
    if (top > -1)
    {
        n = stack[top];
        stack[top--] = -1;
        return n;
    }
    else
    {
        printf("Stack is empty!\n");
        exit(-1);
    }
}
```