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BSCS-5A

#131818

Lab 6 of Compiler Construction

**Code:**

%{

#include<stdio.h>

#define stack\_size 25

static int s\_ptr, stack [stack\_size];

static void push(int input){

if(++s\_ptr<stack\_size){

printf("\n%d",input);

stack[s\_ptr]=input;}

else

printf("\nstack is full!\n");

}

static int pop(){

if(s\_ptr>=0){

printf("\n%d",stack[s\_ptr]);

return stack[s\_ptr--];

}

}

%}

%%

[0-9]+ {push (atoi(yytext));}

"+" {printf ("\n\n+"); push (pop() + pop()); }

"\*" {printf ("\n\n\*"); push (pop() \* pop());}

"-" {printf ("\n\n-"); int rhs= pop(); push (pop() - rhs);}

"/" {printf ("\n\n/"); int rhs= pop(); push (pop() / rhs);}

; {printf ("\n%d\n", pop());}

[ \t\n] ;

%%

int yywrap()

{

return 1;

}

int main()

{

printf("Postfix + - \* / implemented!\n");

s\_ptr=-1;

yylex();

return 0;

}

**Screenshot:**

