Infix to Postfix

```
# include (stolio.h)
#include (corio. 4)
# define MAX 50
Char stack [MAX];
int top = -1;
void push (char ch)
   if (top = = MAX-1)
   Printf ("Stack is full \n");
   else
    top ++;
    Stack [top]= ch;
   3
 char pop()
   char item ;
    if (top == -1)
     prients ("an Stack is empty");
   else
{
     item = stack [top];
     top--;
    return item;
```

```
int stackeupty()
  if (top==-1) rector
   return 1;
 élse return 0;
 cher stack top()
    if (top == -1)
      prientf ("Stack is empty\h");
    else
      return stack[top];
 int priority (cherch)
    Switch (dr)
       case '-': return (1);
       case '/': return (2);
       agricer : yeturn (0);
   3
  int main (int orge, char * *argv)
     char in fix[50];
     priv1 f("Enter tu infix expression: \n");
     inti, item;
     Scanf ("%5", infix);
    printf ("Expression: %5\n", infx);
```

```
printf ("Postfix:");
 i=0;
    while (infix [i]="\0')
     {
switch (infix[i])
       case (1; push (infix[i]);
                breaki
       (ase 1)' : while ((item=pop())!='(')
                 priest ("% c", item);
                 break;
       Ccese 1+1.
       Ccess (-1;
       Case 'X':
                while (! Stackeupty() & 4 priority(infix(i)
                          <= priority (stacktop())))
                 item = pop();
                printf (" %c", item);
                push (infix [i]);
                breaki
         default : printf ("% C", if ix (i));
                  break ;
        }
i++ j
```

```
while (! Stackeupty())

{
    chor item;
    item = pop();
    printf ("%(", item);
    }

printf ("\n");

    return 0;
}
```