## PALAK SHARMA

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#include<stdio.h>
#include<ctype.h>
char stack[100];
int top = -1;
void push(char x)
   stack[++top] = x;
}
char pop()
   if(top == -1)
      return -1;
   else
      return stack[top--];
}
int priority(char x)
   if(x == '(')
      return 0;
   if(x == '+' || x == '-')
      return 1;
   if(x == '*' || x == '/')
      return 2;
   return 0;
}
int main()
{
   char exp[100];
   char *e, x;
   printf("Enter the expression : ");
   scanf("%s",exp);
   printf("\n");
   e = exp;
   while(*e != '\0')
      if(isalnum(*e))
         printf("%c´",*e);
      else if(*e == '(')
         push(*e);
      else if(*e == ')')
         while((x = pop()) != '(')
           printf("%c ", x);
      }
      else
         while(priority(stack[top]) >= priority(*e))
           printf("%c ",pop());
         push(*e);
      }
      e++;
```

```
}
while(top != -1)
{
    printf("%c ",pop());
}return 0;
```

```
Enter the expression : a+b*c
a b c * +
```