2022-2026-CSE-B

Aim:

Write a C program to convert a Postfix expression to Prefix expression.

Source Code:

postfixToPrefix.c

```
#include<stdio.h>
#include<conio.h>
#include<string.h>
#include<stdlib.h>
# define MAX 20
char *strrev(char *str)
    char c, *front, *back;
     if(!str || !*str)
      return str;
        for(front=str,back=str+strlen(str)-1;front < back;front++,back--)</pre>
         {
             c=*front;
              *front=*back;
               *back=c;
          return str;
char str[MAX],stack[MAX];
int top=-1;
void push(char c)
    stack[++top]=c;
char pop()
{
    return stack[top--];
void post_pre()
    int n,i,j=0; char c[20];
     char a,b,op;
      printf("Enter the postfix expression:");
       scanf("%s", str);
        n=strlen(str);
         for(i=0;i<MAX;i++)</pre>
          stack[i]='\0';
           printf("Prefix expression is:");
            for(i=n-1;i>=0;i--)
                if(str[i]=='+'||str[i]=='-'||str[i]=='*'||str[i]=='/')
                    push(str[i]);
                  }
                   else
```

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Execution Results - All test cases have succeeded!

```
Test Case - 1
User Output
Enter the postfix expression: AB+
Prefix expression is:+AB
```

```
Test Case - 2

User Output

Enter the postfix expression: ABC*+D+

Prefix expression is:++A*BCD
```