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## Aim:

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

## **Source Code:**

## prefixToInfix.c

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

```
}
if(top>=0)
   printf("%c\n",str[top--]);
   }
   else
   {
      printf("\n");
      }
      }
      void main()
         prefix();
```

## Execution Results - All test cases have succeeded!

Test Case - 1
User Output
Enter a Prefix expression: +AB
Infix expression:A+B

	Test Case - 2
User Output	
Enter a Prefix expression: +/AB/CD	
<pre>Infix expression:A/B+C/D</pre>	