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```
#include <stdio.h>
#include <stdlib.h>
```

```
#define MAX 100
```

```
float stack[MAX];
int pos=-1;
```

```
void push ( float data )
```

```
{
if ( pos == MAX - 1 )
{
    printf ( "\nStack is full" );
    exit(0);
}
else
{
    pos++;
    stack[ pos ] = data ;
}
}
```

```
float pop( )
```

```
{
float data ;

if ( pos == -1 )
{
    printf ( "\nStack is empty" );
    exit(0);
}
else
{
    data = stack[ pos ];
    pos-- ;
    return data;
}
}
```

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```
void main()
{
char str[100];
int length,i;
float data,data1,data2;

printf("Enter prefix expression: ");
scanf("%s",str);
strrev(str);

length=strlen(str);

for(i=0;i<length;i++)
{
if (isdigit(str[i]))
{
char c;
c=str[i];
data=atof(&c);
push(data);
}
else
{
data1=pop(); /*First POP is the first data*/
data2=pop(); /*Second POP is second operand*/

if (str[i]=='+') push(data1+data2);
else if (str[i]=='-') push(data1-data2);
else if (str[i]=='*') push(data1*data2);
else if (str[i]=='/') push(data1/data2);
else {printf("Invalid operator... exiting....\n");exit(0);}
}
}
data=pop();
printf("The Answer of %s = %f\n",str,data);
}
```

-OR-
push(str[i]-'0');

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