

Online C Compiler

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Interactive C Course

main.c

Run

Output

Clear

```
1 #include <stdio.h>
2 #include<math.h>
3
4 int series(float,float);
5
6 int main()
7
8 {
9
10     float x,n,series_value;
11     printf("Enter the value of x: ");
12     scanf("%f",&x);
13     printf("\nEnter the value of n: ");
14     scanf("%f",&n);
15     series_value=series(x,n);
16     printf("\nValue of series sin (%.2f) is: %f\n",x,series_value);
17     return 0;
18 }
19
20 int series(float x,float n)
21
22 {
23
24     int i,sum=0,sign=-1;
```

```
/tmp/f5nk0CJG57.o
Enter the value of x: 100
Enter the value of n: 1000
Floating point exception
```

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```
main.c
14 scanf("%f",&n);
15 series_value=series(x,n);
16 printf("\nValue of series sin (%.2f) is: %f\n",x,series_value);
17 return 0;
18 }
19
20 int series(float x,float n)
21 {
22 {
23
24 int i,sum=0,sign=-1;
25 int j,fact=1,p=1;
26 for (i=1; i<=(2*n)-1; i+=2)
27 {
28     for (j=1; j<=i; j++)
29     {
30         p=p*j;
31         fact=fact*j;
32     }
33     sign=-1*sign;
34     sum=sum + sign*p/fact;
35 }
36 return (sum);
37 }
```

```
Output
/tmp/f5nk0CJG57.o
Enter the value of x: 100
Enter the value of n: 1000
Floating point exception
```