

Online C Compiler

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Interactive C Course

main.c

Run

Output

Clear

```
1 #include <stdio.h>
2
3 // Function to calculate the following series
4 int Series(int n)
5 {
6     int i;
7     int sums = 0;
8     for (i = 1; i <= n; i++)
9         sums += (i * i);
10    return sums;
11 }
12
13 // Driver Code
14 int main()
15 {
16     int n = 3;
17     int res = Series(n);
18     printf("%d", res);
19 }
```

/tmp/4gz6DbGvMt.o

14

JS

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Output

Clear

```
1 #include<stdio.h>
2 int main() {
3     int n,i;
4     int sum=0;
5     printf("Enter the n i.e. max values of series: ");
6     scanf("%d",&n);
7     sum = (n * (n + 1) * (2 * n + 1)) / 6;
8     printf("Sum of the series : ");
9     for (i =2;i<=n;i+=2) {
10         if (i != n)
11             printf("%d^2 + ",i); else
12             printf("%d^2 = %d ",i,sum);
13     }
14     return 0;
15 }
```

Sum of the series : 2^2 + 4^2 + 6^2 + 8^2 + 10^2 + 12^2 + 14^2 + 16^2 + 18^2 + 20^2 + 22^2 + 24^2 + /tmp/4gz6DbGvMt.o

Enter the n i.e. max values of series: 25

Sum of the series : 2^2 + 4^2 + 6^2 + 8^2 + 10^2 + 12^2 + 14^2 + 16^2 + 18^2 + 20^2 + 22^2 + 24^2 +

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```
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8     printf("Sum of the series : ");
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10         if (i != n)
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Sum of the series : 2^2 + 4^2 + 6^2 + 8^2 + 10^2 + 12^2 + 14^2 + 16^2 + 18^2 + 20^2 + 22^2 + 24^2 + /tmp/4gz6DbGvMt.o

Enter the n i.e. max values of series: 25

Sum of the series : 2^2 + 4^2 + 6^2 + 8^2 + 10^2 + 12^2 + 14^2 + 16^2 + 18^2 + 20^2 + 22^2 + 24^2 +

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```
1 #include<stdio.h>
2 int main() {
3     int n,i;
4     int sum=0;
5     printf("Enter the n i.e. max values of series: ");
6     scanf("%d",&n);
7     sum = (n * (n + 1) * (2 * n + 1)) / 6;
8     printf("Sum of the series : ");
9     for (i =1;i<=n;i++) {
10         if (i != n)
11             printf("%d^2 + ",i); else
12             printf("%d^2 = %d ",i,sum);
13     }
14     return 0;
15 }
```

Run

Output

Clear

```
/tmp/bH15yKqim.o
Enter the n i.e. max values of series: 60
Sum of the series : 1^2 + 2^2 + 3^2 + 4^2 + 5^2 + 6^2 + 7^2 + 8^2 + 9^2 + 10^2 +
11^2 + 12^2 + 13^2 + 14^2 + 15^2 + 16^2 + 17^2 + 18^2 + 19^2 + 20^2 + 21^2 +
22^2 + 23^2 + 24^2 + 25^2 + 26^2 + 27^2 + 28^2 + 29^2 + 30^2 + 31^2 + 32^2 +
33^2 + 34^2 + 35^2 + 36^2 + 37^2 + 38^2 + 39^2 + 40^2 + 41^2 + 42^2 + 43^2 +
44^2 + 45^2 + 46^2 + 47^2 + 48^2 + 49^2 + 50^2 + 51^2 + 52^2 + 53^2 + 54^2 +
55^2 + 56^2 + 57^2 + 58^2 + 59^2 + 60^2 = 73810
```

JS

php

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Clear

```
1 #include <stdio.h>
2 int series_sum(int n)
3 {
4     if (n % 2 == 0)
5         return -(n / 2);
6     else
7         return ((n + 1) / 2);
8 }
9 int main()
10 {
11     int n;
12     printf("Series:1-2+3-4+5-6+7-8.....N\n");
13     printf("Want some up to N terms?\nEnter the N term:");
14     scanf("%d", &n);
15     printf("Sum is:%d", series_sum(n));
16     return 0;
17 }
```

```
/tmp/bH15ycKqim.o
Series:1-2+3-4+5-6+7-8.....N
Want some up to N terms?
Enter the N term:20
Sum is:-10
```

JS

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Run

Output

Clear

```
1 #include <stdio.h>
2 int main()
3 {
4     int i, n, sum=0;
5     printf("Enter any number: ");
6     scanf("%d", &n);
7     for(i=1; i<=n; i+=2)
8     {
9         sum =sum+1;
10    }
11    printf("Sum of all odd numbers from 1 to %d: %d", n, sum);
12    return 0;
13 }
```

```
/tmp/bH15yckQim.o
Enter any number: 9
Sum of all odd numbers from 1 to 9: 5
```

JS

php

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Run

Output

Clear

```
1 #include <stdio.h>
2 int main()
3 {
4     int n,sum=0;
5     printf("enter a value:");
6     scanf("%d",&n);
7     for(int i=2;i<=n;i+=2)
8     {
9         printf("%d+",i);
10        sum+=i;
11    }
12    printf("\b=%d",sum);
13    return 0;
14 }
```

```
/tmp/rGthuug4zp.o
enter a value:4
2+4+=6
```

JS

php

36°C  
Mostly sunny

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IN


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Run

Output

Clear

```
1 #include <stdio.h>
2 int main()
3 {
4     int n,sum=0;
5     printf("enter n value:");
6     scanf("%d",&n);
7     for(int i=1;i<=n;i++)
8     {
9         printf("%d+",i);
10        sum+=i;
11    }
12    printf("\b=%d",sum);
13    return 0;
14 }
```

/tmp/rGthuug4zp.o  
enter n value:10  
1+2+3+4+5+6+7+8+9+10+=55

JS

php

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Run

Output

Clear

```
1 #include <stdio.h>
2 int main() {
3     int i, n;
4     int t1 = 0, t2 = 1;
5     int nextTerm = t1 + t2;
6     printf("enter the number of terms: ");
7     scanf("%d",&n);
8     printf("fibonacci series: %d,%d, ", t1, t2);
9     for (i = 3; i <= n; ++i) {
10         printf("%d,", nextTerm);
11         t1 = t2;
12         t2 = nextTerm;
13         nextTerm = t1 + t2;
14     }
15     return 0;
16 }
```

```
/tmp/rGthuug4zp.o
enter the number of terms: 10
fibonacci series: 0,1, 1,2,3,5,8,13,21,34,
```

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Run

Output

Clear

```
1 #include <stdio.h>
2 int main()
3 {
4     int i,n,sum=0;
5     printf("Enter the even numbers: ");
6     scanf("%d", &n);
7     for(i=2; i<=n; i+=2)
8     {
9         sum += i;
10    }
11    printf("sum of all even number between 1 to %d =%d", n, sum);
12    return 0;
13 }
```

```
/tmp/C1ZSeQqJR9.o
Enter the even numbers: 2
sum of all even number between 1 to 2 =2
```

JS

php

33°C Mostly cloudy

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