# Srinivasa Ramanujan Institute of Technology

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## Aim:

Implement the C program which computes the sum of the first n terms of the series

Exp. Name: Implement the C program which computes the sum of the first n

```
Sum = 1 - 3 + 5 - 7 + 9 + \dots
```

terms of the series

## Sample Input and Output - 1:

```
Enter the value of n: 99
The sum of first 99 terms of the series is: 99
```

### **Source Code:**

```
sum.c
```

```
#include<stdio.h>
int main()
{
   int n,i,sum=0,sumn=0,sump=0;
   printf("Enter the value of n: ");
   scanf("%d",&n);
   for(i=0;i<n;i++)</pre>
      if(i%2==0)
         sump += 2*i + 1;
      }
      else
         sumn+=-(2*i+1);
      }
   }
   sum=sump+sumn;
   printf("The sum of first %d terms of the series is: %d\n",n,sum);
}
```

# Execution Results - All test cases have succeeded!

```
Test Case - 1
User Output
Enter the value of n: 789
The sum of first 789 terms of the series is: 789
```

```
Test Case - 2
User Output
Enter the value of n: 76
The sum of first 76 terms of the series is: -76
```

User Output Enter the value of n: 99 The sum of first 99 terms of the series is: 99