

C Programming Practice Question

Chapter-3(Iterative Statement-Loops)

Questions on Series (VVI)

1. $1 + 2 + 3 + 4 + 5 + 6 = ?$
2. $1 + 2 + 3 + 4 + 5 + 6 + \dots + 20 = ?$
3. $1 + 2 + 3 + 4 + 5 + \dots + N = ?$
4. $2 + 4 + 6 + \dots + 10 = ?$
5. $2 + 4 + 6 + \dots + N = ?$
6. $1 + 3 + 5 + \dots + N = ?$
7. $1 + 3 + 5 + \dots + 10 = ?$
8. $1^2 + 2^2 + 3^2 + \dots + n^2 = ?$
9. $1 + 1/2 + 1/3 + 1/4 + 1/5 \dots 1/n = ?$

Test Data:

Input the number of terms: 5

Expected Output:

$1/1 + 1/2 + 1/3 + 1/4 + 1/5 +$

Sum of Series up to 5 terms: 2.283334

10. $9 + 99 + 999 + 9999 + \dots = ?$

Test Data:

Input the number of terms:5

Expected Output:

9 99 999 9999 99999

The summation of the series = 111105

11. Find the sum of the first 10 terms of the arithmetic series: 3, 7, 11, 15,

12. $1/1! + 1/2! + 1/3! + 1/4! + \dots + 1/n!$