

Basic Number series problems in C

1) Find the Nth term of the series 2, 3, 10, 15, 26...

Input: N = 2

Output: 3

$$\begin{aligned} \text{2nd term} &= (2*2)-1 \\ &= 3 \end{aligned}$$

2) Find the Nth term in series 12, 35, 81, 173, 357,

Input: N = 2

Output: 35

$$\begin{aligned} \text{2nd term} &= (12*2) + 11 \\ &= 35 \end{aligned}$$

3) Find Nth term of the series 4, 2, 2, 3, 6,

Input: N = 2

Output: 2

4) Find nth Term of the Series 1 2 2 4 4 4 4 8 8 8 8 8 8 8 8

Input: n = 9

Output: 8

5) Find Nth term of the series 5, 13, 25, 41, 61

Input : 3

Output : 25

For N = 3

Nth term = $3*3 + (3+1)*(3+1)$

= 25

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