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## Fibonacci series in c

Fibonacci series in c programming: c program for Fibonacci series without and with [recursion](#). Using the code below you can print as many number of terms of series as desired. Numbers of Fibonacci sequence are known as Fibonacci numbers. First few numbers of series are 0, 1, 1, 2, 3, 5, 8 etc, Except first two terms in sequence every other term is the sum of two previous terms, For example  $8 = 3 + 5$  (addition of 3, 5). This sequence has many applications in mathematics and Computer Science.

### Fibonacci series in c using for loop

```
/* Fibonacci Series c language */
#include<stdio.h>

main()
{
    int n, first = 0, second = 1, next, c;

    printf("Enter the number of terms\n");
    scanf("%d",&n);

    printf("First %d terms of Fibonacci series are :-\n",n);

    for ( c = 0 ; c < n ; c++ )
    {
        if ( c <= 1 )
            next = c;
        else
        {
            next = first + second;
            first = second;
            second = next;
        }
        printf("%d\n",next);
    }

    return 0;
}
```

Output of program:

```
Enter the number of terms
10
First 10 terms of fibonacci series are :
0
1
1
2
3
5
8
13
21
34
```

## Fibonacci series program in c using recursion

```
#include<stdio.h>

int Fibonacci(int);

main()
{
    int n, i = 0, c;

    scanf("%d",&n);

    printf("Fibonacci series\n");

    for ( c = 1 ; c <= n ; c++ )
    {
        printf("%d\n", Fibonacci(i));
        i++;
    }

    return 0;
}

int Fibonacci(int n)
{
    if ( n == 0 )
        return 0;
    else if ( n == 1 )
        return 1;
    else
        return ( Fibonacci(n-1) + Fibonacci(n-2) );
}
```

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Best

Thanks it works....

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thanks

thank you.

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Good

Well done

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[thanks for source code](#)

Above source code works fine to print fibonacci series.

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Thanks

Thanks for giving this solution

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Use above code to find numbers of fibonacci series and store numbers in an array and then [Reverse array](#).

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Great

Thank you

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Thanks for Fibonacci program in c language

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very easy for understanding.....

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very nice for the all students

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Thanks for fibonacci series, matrix & prime number code.

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