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## Aim:

Write a program to display the fibonacci series up to the given number of terms using recursion process.

```
The fibonacci series is 0 1 1 2 3 5 8 13 21 34......
```

number of terms using Recursion

At the time of execution, the program should print the message on the console as:

```
Enter value of n :
```

For example, if the user gives the input as:

```
Enter value of n : 6
```

then the program should **print** the result as:

```
The fibonacci series of 6 terms are : 0 1 1 2 3 5
```

Note: Write the recursive function fib() in Program908a.c.

## **Source Code:**

## Program908.c

```
#include <stdio.h>
#include "Program908a.c"

void main() {
   int n, i;
   printf("Enter value of n : ");
   scanf("%d", &n);
   printf("The fibonacci series of %d terms are : ", n);
   for (i = 0; i < n; i++) {
      printf(" %d ", fib(i));
   }
}</pre>
```

## Program908a.c

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

Test Case - 1
User Output
Enter value of n : 4
The fibonacci series of 4 terms are : 0 1 1 2

Te	est Case - 2	2	
User Output			
Enter value of n : 8			
The fibonacci series of 8 terms are :	0 1 1	2 3 5 8	13

Te:	st Ca	se -	3										
User Output													
Enter value of n : 14													
The fibonacci series of 14 terms are :	0	1	1	2	3	5	8	13	21	34	55	89	14

Test Case - 4
User Output
Enter value of n : 3
The fibonacci series of 3 terms are : 0 1 1