Exercise 14: Recursion

Let's test your ability to use recursion.

We'll cover the following

Problem Statement

Implement a **recursive function** that takes a number n as input, and output the nth term of the Fibonacci series.

The Fibonacci sequence is $0, 1, 1, 2, 3, 5, 8, 13, 21$ where the nth term is the sum of $(n-1)th$ and $(n-2)th$ term.

> The $0th$ term is 0 and the $1st$ term is 1. Therefore, the $2nd$ term is $0 + 1 = 1$.

Input

A `testVariable` that contains the nth term

Output

The nth term in the Fibonacci series, i.e., the element in the Fibonacci series at index `testVariable`

Sample Input

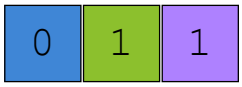
```
6
```

Sample Output

```
8
```

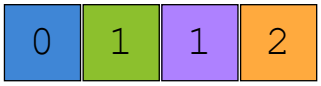
0th 1st

Add 0th and 1st term



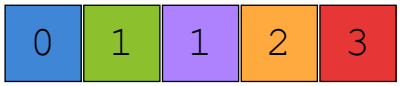
0th 1st 2nd

Add 1st and 2nd term



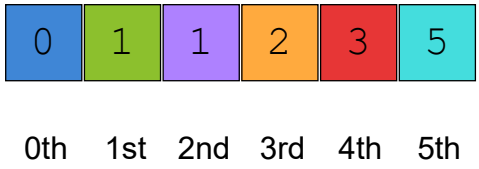
0th 1st 2nd 3rd

Add 2nd and 3rd term



0th 1st 2nd 3rd 4th

Add 3rd and 4th term



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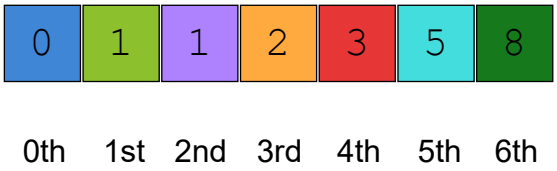
Add 4th and 5th term



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Test Yourself

Write your code in the given area. If you get stuck, you can look at the solution.

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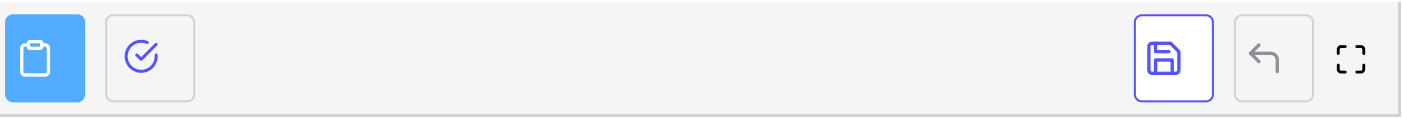
```
recursiveFibonacci <- function(testVariable)
{
    # Write your code here
}
```



Let’s move on to the solution review of this exercise.