Challenge 3: Return Sequence of Fibonacci Numbers

Use iterators to return a list containing the Fibonacci sequence.

WE'LL COVER THE FOLLOWING

Problem Statement

Edit the following iterator class to return the Fibonacci sequence from the first element up to the `n` th element.

> The **Fibonacci Sequence** is the series of numbers in which the next term is found by adding the two previous terms:
>
> ```
> 0, 1, 1, 2, 3, 5, 8, 13, 21, 34, ...
> ```
>
> Here , the number 0 is the first term, 1 is the second term, 1 is the third term and so on...

Input

A number `n`

Output

The range of fibonacci numbers from 0 to n

Sample Input

8

Sample Output

[0, 1, 1, 2, 3, 5, 8, 13]

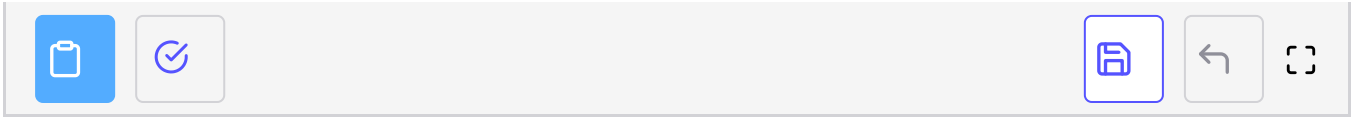
Coding Exercise

Write your code below. It is recommended that you try solving the exercise yourself before viewing the solution.

```
class MyRange:
  def __init__(self, n):
    self.n = n

  def __iter__(self):
    return self

  def next(self):
    #write your code here
    pass
```



The next lesson discusses the solution to this challenge in detail.