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In [4]: # Name: Sushil Suresh Kannake
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# SUB: DAA
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In [3]: def recursive_fibonacci(n):
        if n <= 1:
            return n
        else:
            return recursive_fibonacci(n - 1) + recursive_fibonacci(n - 2)

def non_recursive_fibonacci(n):
    first = 0
    second = 1
    print(first)
    print(second)
    while n - 2 > 0:
        third = first + second
        first = second
        second = third
        print(third)
        n -= 1

if __name__ == "__main__":
    n = 10
    for i in range(n):
        print(recursive_fibonacci(i))

non_recursive_fibonacci(n)
```

```
0
1
1
2
3
5
8
13
21
34
0
1
1
2
3
5
8
13
21
34
```

