

Question 5

Correct

Mark 1.00 out of 1.00

Flag question

Write python code to compute and display the Fibonacci sequence of the given number.

Answer: (penalty regime: 0 %)

```
1 n = int(input())
2
3 n1, n2 = 0, 1
4 count = 0
5
6 if n <= 0:
7     print("Enter a positive number")
8 elif n == 1:
9     print(n)
10 else:
11     print("Fibonacci sequence:")
12     while count < n:
13         print(n1)
14         nth = n1 + n2
15         n1 = n2
16         n2 = nth
17         count += 1
```

Input	Expected	Got	
7 Fibonacci sequence: 0	7 Fibonacci sequence: 0	7 Fibonacci sequence: 0	✓



Input	Expected	Got	
7 Fibonacci sequence: 0 1 1 2 3 5 8	7 Fibonacci sequence: 0 1 1 2 3 5 8	7 Fibonacci sequence: 0 1 1 2 3 5 8	✓
19 Fibonacci sequence: 0 1 1 2 3 5 8 13 21 34 55 89 144 233 377 610 987 1597 2584	19 Fibonacci sequence: 0 1 1 2 3 5 8 13 21 34 55 89 144 233 377 610 987 1597 2584	19 Fibonacci sequence: 0 1 1 2 3 5 8 13 21 34 55 89 144 233 377 610 987 1597 2584	✓
13 Fibonacci sequence:	13 Fibonacci sequence:	13 Fibonacci sequence:	✓

1	1	1
2	2	2
3	3	3
5	5	5
8	8	8
13	13	13
21	21	21
34	34	34
55	55	55
89	89	89
144	144	144
233	233	233
377	377	377
610	610	610
987	987	987
1597	1597	1597
2584	2584	2584
✓ 13	13	13
Fibonacci sequence:	Fibonacci sequence:	Fibonacci sequence:
0	0	0
1	1	1
1	1	1
2	2	2
3	3	3
5	5	5
8	8	8
13	13	13
21	21	21
34	34	34
55	55	55
89	89	89
144	144	144

Passed all tests! ✓

8	8	8
13	13	13
21	21	21
34	34	34
55	55	55
89	89	89
144	144	144

Passed all tests! ✓

Question author's solution (Python3):

```
1 nterms = int(input())
2 n1, n2 = 0, 1
3 count = 0
4 if nterms <= 0:
5     print("Please enter a positive integer")
6 elif nterms == 1:
7     print("Fibonacci sequence upto",nterms,":")
8     print(n1)
9 else:
10    print("Fibonacci sequence:")
11    while count < nterms:
12        print(n1)
13        nth = n1 + n2
14        n1 = n2
15        n2 = nth
16        count += 1
```

Marks for this submission: 1.00/1.00.