Testing FibonacciRunner.java

Test 1

```
Enter n:
10
1
1
2
3
5
8
13
21
34
55
```

pass

Student files

FibonacciGenerator.java:

```
1   /**
2      Class used to generate a Fibonacci number with a given input.
3   */
4   public class FibonacciGenerator
5   {
6      int n1;
7      int n2;
8      int n;
9
10
11     /**
12        Construct a FibonacciGenerator object to generate a Fibonacci number.
13     */
14     public FibonacciGenerator()
15     {
16         n1 = 1;
17         n2 = 1;
18         n = 0;
19     }
20
21     /**
22        Method used to calculate a fibonacci number.
23        @return fNew the fibonacci number
24     */
25     public int nextNumber()
26     {
27        n++;
28        if (n == 1)
29        {
30            return n1;
31        }
32        else if (n == 2)
33        {
34            return n2;
35        }
36        else
37        {
38            int n3 = n1 + n2;
39            n1 = n2;
40            n2 = n3;
```

```
41             return n3;
42          }
43       }
44    }
```

Provided files

FibonacciRunner.java:

```
1    import java.util.Scanner;
2
3    public class FibonacciRunner
4    {
5       public static void main(String[] args)
6       {
7          Scanner in = new Scanner(System.in);
8
9          System.out.println("Enter n:");
10         int n = in.nextInt();
11
12         FibonacciGenerator fg = new FibonacciGenerator();
13
14         for (int i = 1; i <= n; i++)
15            System.out.println(fg.nextNumber());
16      }
17   }
```

Score

1/1

Download

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