A Fibonacci series (starting from 1) written in order without any spaces in between, thus producing a sequence of digits.

```
def fib_seq(n: Int):Seq[Int] = {
       var num1 = 0
       var num2 = 1
       for(i \leftarrow 1 to n) yield {
         var num3 = num1 + num2
         num1 = num2
         num2 = num3
         num1
       }
    }
      println(fib_seq(10))
Output
Vector(1, 1, 2, 3, 5, 8, 13, 21, 34, 55)
fib_seq: (n: Int)Seq[Int]
Write a Scala application to find the Nth digit in the sequence.
o Write the function using standard for loop
val mySeq = Seq(1,2,3,4,5,6,7,8,9,10)
      for (i <- 0 to mySeq.length - 1)</pre>
         println(mySeq(i))
      }
output
1
2
3
4
5
6
7
8
9
mySeq: Seq[Int] = List(1, 2, 3, 4, 5, 6, 7, 8, 9, 10)
```

```
Write the function using recursion
```

```
def nthRecursive[A](n: Int, ls: Seq[A]): A = (n, ls) match {
        case (0, h :: _ ) => h
        case (n, _ :: tail) => nthRecursive(n - 1, tail)
        case (_, Nil ) => throw new NoSuchElementException
}
        nthRecursive(6,mySeq)

Output
nthRecursive: [A](n: Int, ls: Seq[A])A
res33: Int = 5
```