

FIBONACCI

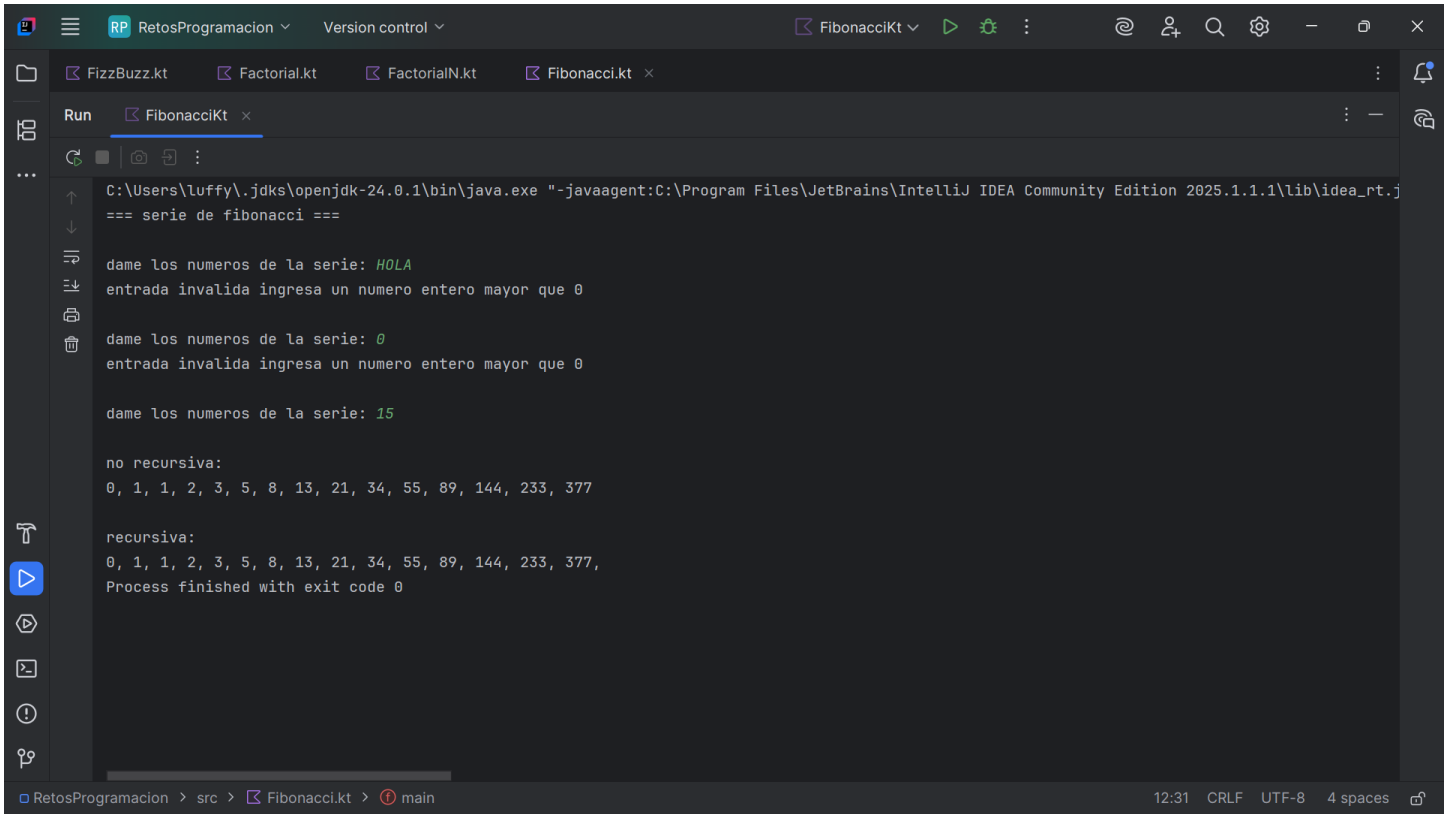
```
1 fun main() {  
2     println("=== serie de fibonacci ===")  
3     var n: Int? = null  
4     while (n == null || n <= 0) {  
5         print("\ndame los numeros de la serie: ")  
6         n = readLine()?.toIntOrNull()  
7         if (n == null || n <= 0) {  
8             println("entrada invalida ingresa un numero entero mayor que 0")  
9         }  
10    }  
11  
12    println("\nno recursiva:")  
13    println(fibonacciIterativo(n).joinToString(separator = " "))  
14  
15    println("\nrecursiva:")  
16    for (i in 0..n) {  
17        print("${fibonacciRecursivo(n = i)}, ")  
18    }  
19 }  
20  
21 fun fibonacciIterativo(n: Int): List<Int> { 1 Usage  
22     val lista = mutableListOf(0)  
23     if (n == 1) return lista  
24  
25     lista.add(1)  
26     for (i in 2..n) {  
27         lista.add(lista[i - 1] + lista[i - 2])  
28     }  
29 }
```

RetosProgramacion > src > Fibonacci.kt > main 12:31 CRLF UTF-8 4 spaces

```
1 fun main() {  
14  
15     println("\nrecursiva:")  
16     for (i in 0..n) {  
17         print("${fibonacciRecursivo(n = i)}, ")  
18     }  
19 }  
20  
21 fun fibonacciIterativo(n: Int): List<Int> { 1 Usage  
22     val lista = mutableListOf(0)  
23     if (n == 1) return lista  
24  
25     lista.add(1)  
26     for (i in 2..n) {  
27         lista.add(lista[i - 1] + lista[i - 2])  
28     }  
29     return lista  
30 }  
31  
32 fun fibonacciRecursivo(n: Int): Int { 3 Usages  
33     return if (n <= 1) n else fibonacciRecursivo(n = n - 1) + fibonacciRecursivo(n = n - 2)  
34 }  
35
```

RetosProgramacion > src > Fibonacci.kt 35:1 CRLF UTF-8 4 spaces

SALIDA EN CONSOLA



The screenshot shows the IntelliJ IDEA interface with the 'Run' console open for a file named 'Fibonacci.kt'. The console displays the output of a Java program that calculates Fibonacci numbers. The program prompts the user for input, and the console shows three different inputs: 'HOLA', '0', and '15'. For 'HOLA' and '0', the program outputs an error message: 'entrada invalida ingresa un numero entero mayor que 0'. For '15', it outputs the Fibonacci sequence for the first 15 numbers: '0, 1, 1, 2, 3, 5, 8, 13, 21, 34, 55, 89, 144, 233, 377'. The console also shows the command used to run the program: 'C:\Users\luffy\.jdk\openjdk-24.0.1\bin\java.exe "-javaagent:C:\Program Files\JetBrains\IntelliJ IDEA Community Edition 2025.1.1.1\lib\idea_rt.j...' and the final message: 'Process finished with exit code 0'.

```
C:\Users\luffy\.jdk\openjdk-24.0.1\bin\java.exe "-javaagent:C:\Program Files\JetBrains\IntelliJ IDEA Community Edition 2025.1.1.1\lib\idea_rt.j
=== serie de fibonacci ===

dame los numeros de la serie: HOLA
entrada invalida ingresa un numero entero mayor que 0

dame los numeros de la serie: 0
entrada invalida ingresa un numero entero mayor que 0

dame los numeros de la serie: 15

no recursiva:
0, 1, 1, 2, 3, 5, 8, 13, 21, 34, 55, 89, 144, 233, 377

recursiva:
0, 1, 1, 2, 3, 5, 8, 13, 21, 34, 55, 89, 144, 233, 377,
Process finished with exit code 0
```