

- print the first n prime numbers
- print the n^{th} prime number







































































































































































Sequences

infinite sequences

































































































































































































































```
fun generatePrimes(): Sequence<BigInteger> =  
    generateSequence(1) { it + 1 }  
        .map { it.toBigInteger() }  
        .filter { it.isProbablePrime(100) }
```


generatePrimes().take(n).forEach(::println)

Sequences

infinite sequences

```
fun generatePrimes(): Sequence<BigInteger> =  
    generateSequence(1) { it + 1 }  
        .map { it.toBigInteger() }  
        .filter { it.isProbablePrime(100) }
```

- print the first n prime numbers

```
generatePrimes().take(n).forEach(::println)
```

- print the nth prime number

```
var primeN = generatePrimes().drop(n - 1).first()  
println("the ${n}th prime number is $primeN")
```

Sequences

operation types