



Kotlin

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<https://kotlinlang.org>

Operador in

- Podemos usar o operador in em condicionais e comandos de repetição

The diagram shows two examples of the 'in' operator. In the first example, 'in' is highlighted with a blue box and an arrow points from it to the word 'iteration'. The code is:

```
for (i in 'a'..'z') { ... }
```

In the second example, 'in' is again highlighted with a blue box and an arrow points from it to the text 'check for belonging'. The code is:

```
c in 'a'..'z'
```

Podemos Testar Intervalos

```
fun isLetter(c: Char) = c in 'a'..'z' || c in 'A'..'Z'  
  
isLetter('q')      // true  
isLetter('*')     // false
```

Outra forma...

```
fun isLetter(c: Char) = c in 'a'..'z' || c in 'A'..'Z'
```

c in 'a'..'z'



'a' <= c && c <= 'z'

Podemos Negar o Operador in

- Desta forma, testamos se está fora do intervalo.

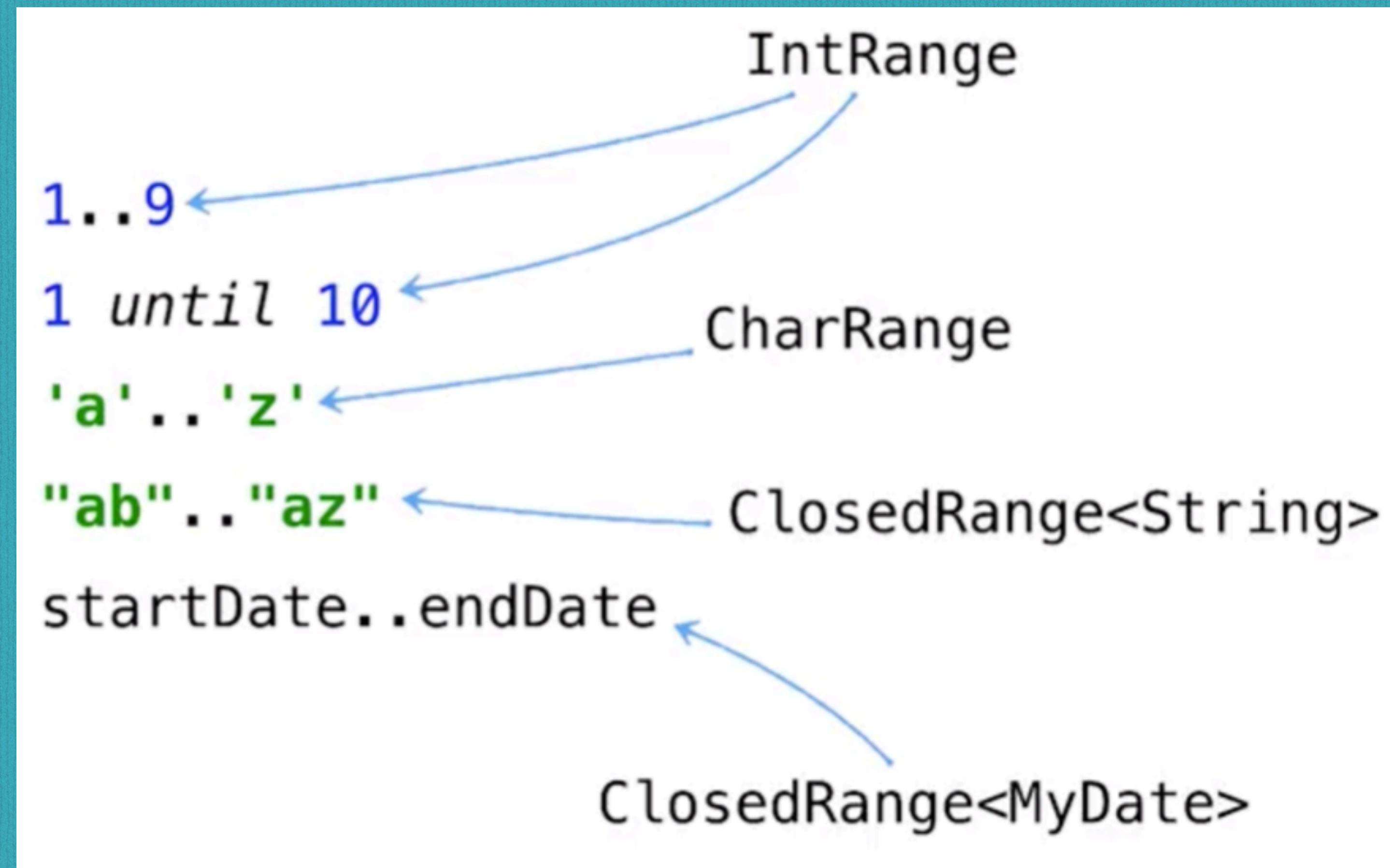
```
fun isNotDigit(c: Char) = c !in '0'..'9'
```

```
isNotDigit('x') // true
```

Operador in numa Condição when

```
fun recognize(c: Char) = when (c) {  
    in '0'..'9' -> "It's a digit!"  
    in 'a'..'z', in 'A'..'Z' -> "It's a letter!"  
    else -> "I don't know..."  
}  
  
recognize('$') // I don't know...
```

Exemplos de Intervalos



Comparação de Strings

```
"ball" in "a".."k"  
↓  
"a" <= "ball" && "ball" <= "k"  
↓  
"a".compareTo("ball") <= 0 && "ball".compareTo("k") <= 0
```

Intervalo de Strings

```
"ball" in "a".."k"      // true  
"zoo" in "a".."k"       // false
```

Intervalo de Tipos Customizados

```
class MyDate : Comparable<MyDate>

if (myDate.compareTo(startDate) >= 0 &&
    myDate.compareTo(endDate) <= 0) { ... }

if (myDate >= startDate && myDate <= endDate) { ... }
```

Teste se Pertence a uma Coleção

```
if (element in list) { ... }
```

the same as:

```
if (list.contains(element)) { ... }
```



[**https://github.com/rafael-vieira-coelho/kotlin/tree/Aula-07---
Operador-in**](https://github.com/rafael-vieira-coelho/kotlin/tree/Aula-07---Operador-in)

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