

# How to get Substring of a String in Kotlin?

## Kotlin – Get Substring of a String

To get substring of a String in Kotlin, use `String.subSequence()` method.

Given a string `str1`, and if we would like to get the substring from index `startIndex` until the index `endIndex`, call `subSequence()` method on string `str1` and pass the indices `startIndex` and `endIndex` respectively as arguments to the method as shown below.

```
str1.subSequence(startIndex, endIndex)
```

`subSequence()` method returns the substring of this string.

## Example 1 – Get Substring in String

In this example, we will take a string in `str1`, and get the substring from this string that starts at index `2` and ends at index `7`.

### Kotlin Program

```
fun main(args: Array<String>) {  
    val str1 = "abcdefghij"  
    val startIndex = 2  
    val endIndex = 7  
    val substring = str1.subSequence(startIndex, endIndex)  
    println("The substring is : " + substring)  
}
```

### Output

```
The substring is : cdefg
```

### Explanation

string	a	b	c	d	e	f	g	h	i	j
index	0	1	2	3	4	5	6	7	8	9
startIndex			*							
endIndex								*		
substring			-----							
			c	d	e	f	g			

## Example 2 – Index Out of Bounds for String

If the any of the start index or end index is out of bounds for the given string, the `subSequence()` method throws `java.lang.StringIndexOutOfBoundsException`.

### Kotlin Program

```
fun main(args: Array<String>) {  
    val str1 = "abcdefghij"  
    val startIndex = -2  
    val endIndex = 7  
    val substring = str1.subSequence(startIndex, endIndex)  
    println("The substring is : " + substring)  
}
```

### Output

```
Exception in thread "main" java.lang.StringIndexOutOfBoundsException: begin -2, end 7, length 10  
    at java.base/java.lang.String.checkBoundsBeginEnd(String.java:3107)  
    at java.base/java.lang.String.substring(String.java:1873)  
    at java.base/java.lang.String.subSequence(String.java:1912)  
    at KotlinExampleKt.main(KotlinExample.kt:5)
```

## Conclusion

In this [Kotlin Tutorial](#), we learned how to get the substring of a given string using `String.subSequence()` method, with the help of Kotlin example programs.

### Kotlin Java

- ◆ [Kotlin Tutorial](#)

### Getting Started

- ◆ [Setup Kotlin\(Java\) Project](#)

- ◆ [Kotlin Example Program](#)

- ◆ [Convert Java to Kotlin](#)

- ◆ [Kotlin Main Function](#)

- ◆ [Kotlin Loops](#)

- ◆ [Kotlin For Loop](#)

## Control Flow

- ◆ Kotlin While, Do While Loops
- ◆ Kotlin Repeat
- ◆ Kotlin Ranges
- ◆ Kotlin When

## Object Oriented Concepts

### Classes

- ◆ Kotlin - Class, Primary and Secondary Constructors
- ◆ Kotlin Sealed Class
- ◆ Kotlin Data Class
- ◆ Kotlin Enum
- ◆ Kotlin - Extension Functions

### Inheritance

- ◆ Kotlin Inheritance
- ◆ Kotlin Override Method of Super Class

### Abstraction

- ◆ Kotlin Abstraction
- ◆ Kotlin Abstract Class
- ◆ Kotlin - Interfaces
- ◆ Kotlin Null Safety

## Exception Handling

- ◆ Kotlin Try Catch
- ◆ Kotlin Throw Exception
- ◆ Kotlin Custom Exception

## Fix Compilation Errors

- ◆ Kotlin - Variable must be initialized
- ◆ Kotlin - Primary Constructor call expected
- ◆ Kotlin - Null can not be a value of a non-null type String
- ◆ Kotlin - Cannot create an instance of an abstract class

## **Kotlin - String Operations**

- ◆ [Kotlin - Compare Strings](#)
- ◆ [Kotlin - Replace String](#)
- ◆ [Kotlin - Split String](#)
- ◆ [Kotlin - Split String to Lines](#)
- ◆ [Kotlin - String Capitalize](#)

## **Kotlin - Functions**

- ◆ [Kotlin Function - Default Arguments](#)
- ◆ [Kotlin - Use Function](#)

## **Kotlin Collections**

### **Kotlin List**

- ◆ [Kotlin List](#)
- ◆ [Kotlin List forEach](#)

## **Kotlin File Operations**

- ◆ [Kotlin - Create File](#)
- ◆ [Kotlin - Read File](#)
- ◆ [Kotlin - Read File as List of Lines](#)
- ◆ [Kotlin - Write to File](#)
- ◆ [Kotlin - Append Text to File](#)
- ◆ [Kotlin - Check if File Exists](#)
- ◆ [Kotlin - Copy a File to Other](#)
- ◆ [Kotlin - Iterate through all files in a directory](#)
- ◆ [Kotlin - Delete Recursively](#)
- ◆ [Kotlin - Get File Extension](#)

## **Kotlin Interview Q/A**

- ◆ [Kotlin Interview Questions](#)

## **Kotlin Android**

- ◆ [Kotlin Android Tutorial](#)

## Useful Resources

- ◆ [How to Learn Programming](#)