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Tutorials   Core Java Tutorials   Java 11 Features

Low Level Design made easy

Pr

Java 11 - String Changes

[Last Updated: Sep 29, 2018]

Java 11, added various new methods in `java.lang.String`. Let's see each one of them with examples.

Stripping white spaces

Following new methods have been added to remove white spaces:

```java
public String strip()
```

```java
public String stripLeading()
```

```java
public String stripTrailing()
```

Example:

```java
package com.logicbig.example;

public class StringStripExample {
  public static void main(String[] args) {
      String s = "  test string   ";
      System.out.printf("'%s'%n", s);
      String striped = s.strip();
      System.out.printf("strip():%n '%s'%n", striped);

      striped = s.stripLeading();
      System.out.printf("stripLeading():%n '%s'%n", striped);

      striped = s.stripTrailing();
      System.out.printf("stripTrailing():%n '%s'%n", striped);
  }
}
```

```
'  test string  '
strip():
 'test string'
stripLeading():
 'test string  '
stripTrailing():
 '  test string'
```

strip() vs trim()

`strip()` is Unicode whitespace aware, whereas the existing method `trim()` removes any space which is less than or equal to (\u0020).

Following example uses medium mathematical space \u205F, (list of whitespace unicodes   )

```
public class StringStripVsTrimExample {
  public static void main(String[] args) {
      String s = "test string\u205F";
      String striped = s.strip();
      System.out.printf("'%s'%n", striped);

      String trimmed = s.trim();
      System.out.printf("'%s'%n", trimmed);
  }
}
```

```
'test string'
'test string '
```

See also JDK-8200378 .

Blank strings

```
public boolean isBlank()
```

This method returns true if the string is empty or contains only white space codepoints, otherwise false. The existing method `isEmpty()` returns true if length() is 0.

```
public class StringIsBlankExample {

  public static void main(String[] args) {
      String s = "   ";
      //old isEmpty() method
      boolean empty = s.isEmpty();
      System.out.println(empty);
      //new isBlank()
      boolean blank = s.isBlank();
      System.out.println(blank);
  }
}
```
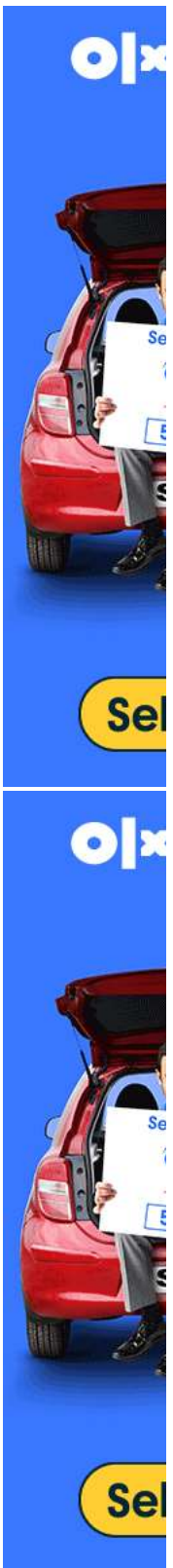
```
false
true
```

Streaming lines

```
public Stream<String> lines()
```

```
public class StringLinesExample {
  public static void main(String[] args) {
      String s = "jujube\nsatsuma\nguava";
      s.lines()
       .forEach(System.out::println);
  }
}
```

```
jujube
satsuma
```

        guava

Repeating

```
public String repeat(int count)
```

This method returns a string whose value is repeated 'count' times

```java
public class StringRepeatExample {
  public static void main(String[] args) {
      String s = "-";
      String newString = s.repeat(10);
      System.out.println(newString);
  }
}
```
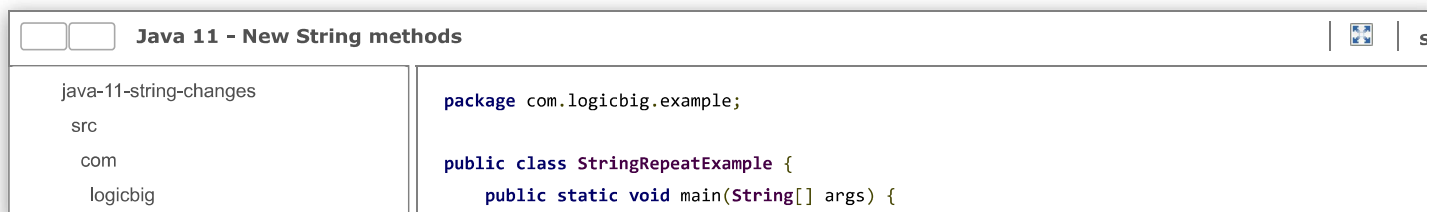
```
    ----------
```

Example Project

Dependencies and Technologies Used:

- JDK 9.0.1

Java 11 - New String methods

```
java-11-string-changes
  src
    com
      logicbig
```

```java
package com.logicbig.example;


public class StringRepeatExample {
    public static void main(String[] args) {
```

```java
        String s = "-";
        String newString = s.repeat(10);
        System.out.println(newString);
    }
}
```

Project Structure

```java
package com.logicbig.example;

public class StringIsBlankExample {

    public static void main(String[] args) {
        String s = "   ";
        //old isEmpty() method
        boolean empty = s.isEmpty();
        System.out.println(empty);
        //new isBlank()
        boolean blank = s.isBlank();
        System.out.println(blank);
    }
}
```

UP

```java
package com.logicbig.example;

public class StringLinesExample {
    public static void main(String[] args) {
        String s = "jujube\nsatsuma\nguava";
        s.lines()
          .forEach(System.out::println);
```
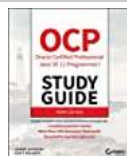
```
        }
    }
```

UP

```java
package com.logicbig.example;

public class StringRepeatExample {
    public static void main(String[] args) {
        String s = "-";
        String newString = s.repeat(10);
        System.out.println(newString);
    }
}
```

UP

```java
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public class StringStripExample {
    public static void main(String[] args) {
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        String striped = s.strip();
        System.out.printf("strip():%n '%s'%n", striped);

        striped = s.stripLeading();
        System.out.printf("stripLeading():%n '%s'%n", striped);

        striped = s.stripTrailing();
        System.out.printf("stripTrailing():%n '%s'%n", striped);
    }
}
```

UP

```java
package com.logicbig.example;

public class StringStripVsTrimExample {
    public static void main(String[] args) {
        String s = "test string\u205F";
        String striped = s.strip();
        System.out.printf("'%s'%n", striped);

        String trimmed = s.trim();
        System.out.printf("'%s'%n", trimmed);
    }
}
```

UP