

Low Level Design made easy

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:

```
public String strip()
```

```
public String stripLeading()
```

```
public String stripTrailing()
```

Example:

```
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 isEmpty()
```

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);
    }
}
```

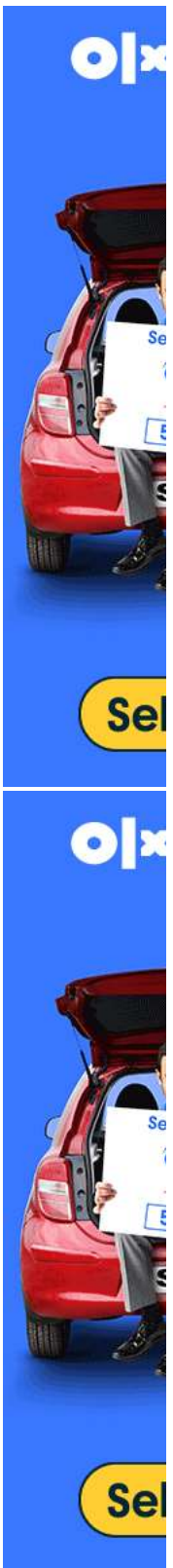
```
false
true
```

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
```



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Repeating

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

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

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

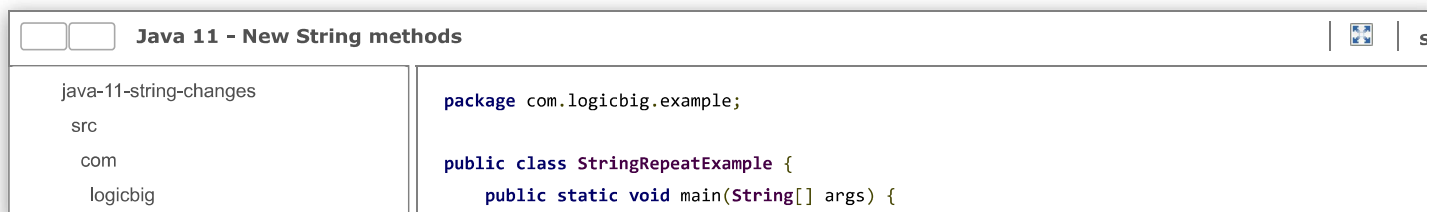
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Example Project

Dependencies and Technologies Used:

- JDK 9,0,1



```

example
StringIsBlankExample.java
StringLinesExample.java
StringRepeatExample.java
StringStripExample.java
StringStripVsTrimExample.java

```

```

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

```

Project Structure

```

java-11-string-changes
src
com
logicbig
example
StringIsBlankExample.java
StringLinesExample.java
StringRepeatExample.java
StringStripExample.java
StringStripVsTrimExample.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

```

package com.logicbig.example;

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

```

```
}  
}
```

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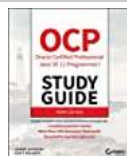
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        String s = "-";  
        String newString = s.repeat(10);  
        System.out.println(newString);  
    }  
}
```

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```
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);  
    }  
}
```

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```
package com.logicbig.example;  
  
public class StringStripVsTrimExample {  
    public static void main(String[] args) {  
        String s = "test string\u00205F";  
        String striped = s.strip();  
        System.out.printf("%s%n", striped);  
  
        String trimmed = s.trim();  
        System.out.printf("%s%n", trimmed);  
    }  
}
```

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