

Fachhochschule Bielefeld

Campus Minden

Objektorientierte Programmierung

Prof. J.Rexilius

Wael Eskeif, 23.11.2022

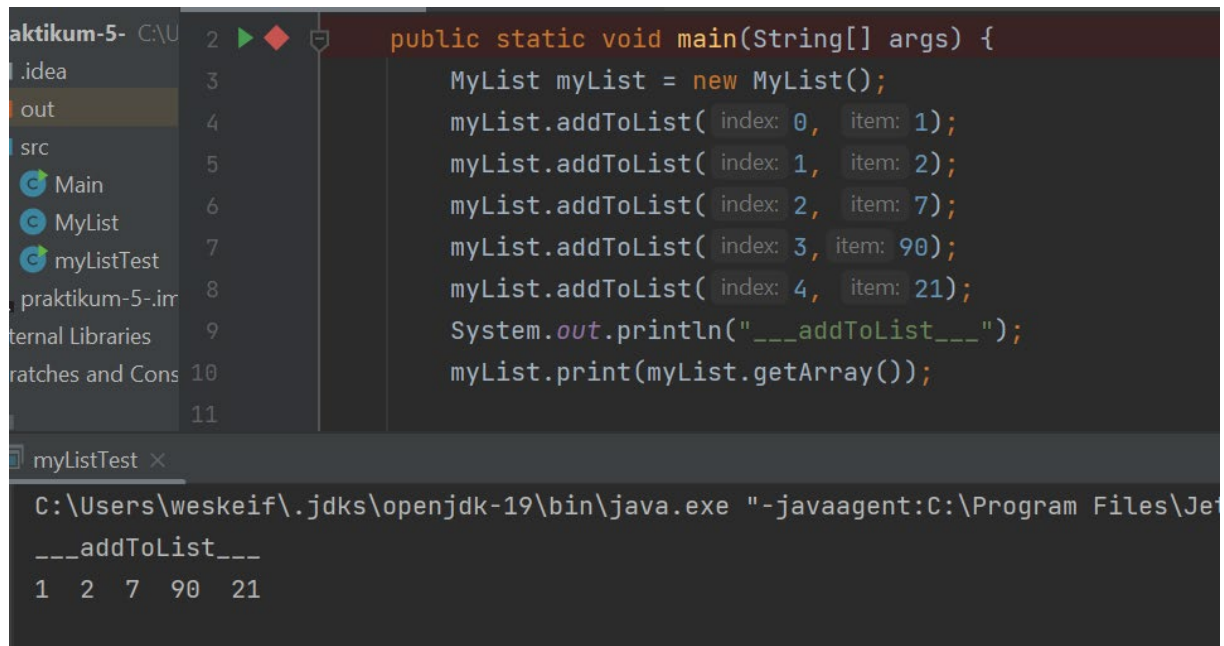
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(a).Element Hinzufügen.

addToList(int index, int item) (Test1)



The screenshot shows an IDE with a project named 'praktikum-5'. The left sidebar shows the project structure with files like 'Main', 'MyList', and 'myListTest'. The main editor displays the following Java code:

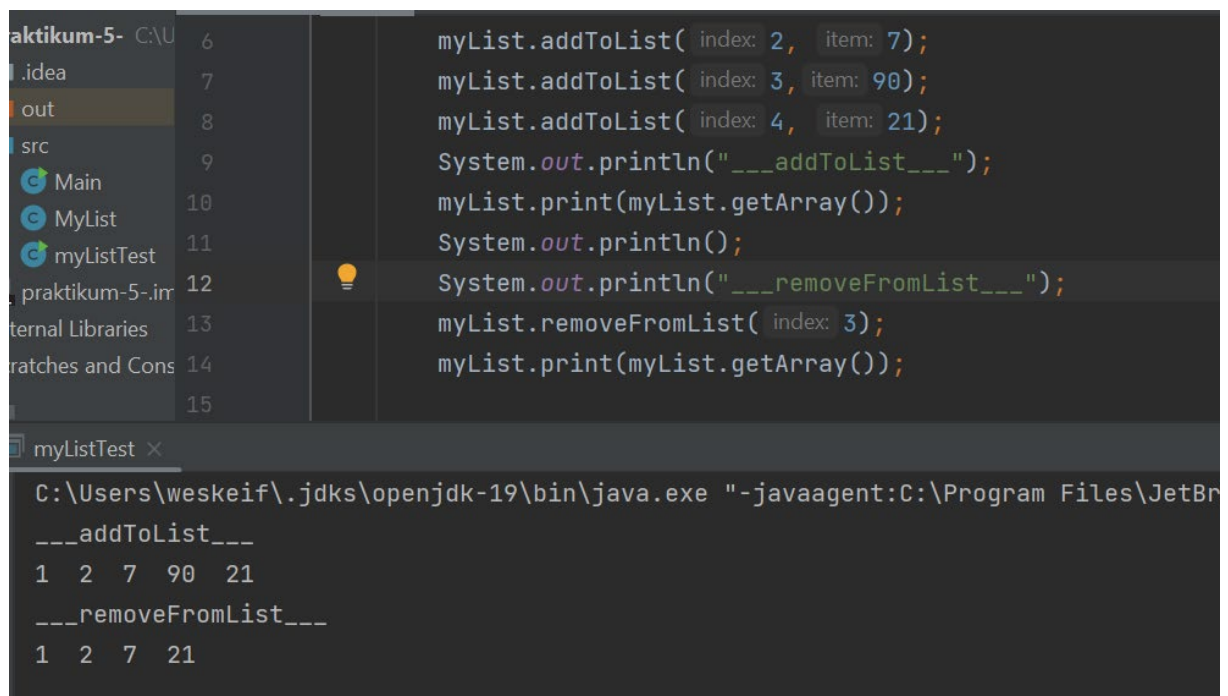
```
public static void main(String[] args) {  
    MyList myList = new MyList();  
    myList.addToList(index: 0, item: 1);  
    myList.addToList(index: 1, item: 2);  
    myList.addToList(index: 2, item: 7);  
    myList.addToList(index: 3, item: 90);  
    myList.addToList(index: 4, item: 21);  
    System.out.println("___addToList___");  
    myList.print(myList.getArray());  
}
```

Below the code editor, the 'myListTest' tab is active, showing the command prompt output:

```
C:\Users\weskeif\.jdk\openjdk-19\bin\java.exe "-javaagent:C:\Program Files\Jet  
___addToList___  
1 2 7 90 21
```

(b). Element Entfernen

removeFromList() (Test2)



The screenshot shows an IDE with a project named 'praktikum-5'. The file explorer on the left shows 'src' containing 'Main', 'MyList', and 'myListTest'. The editor displays the following Java code in 'myListTest.java':

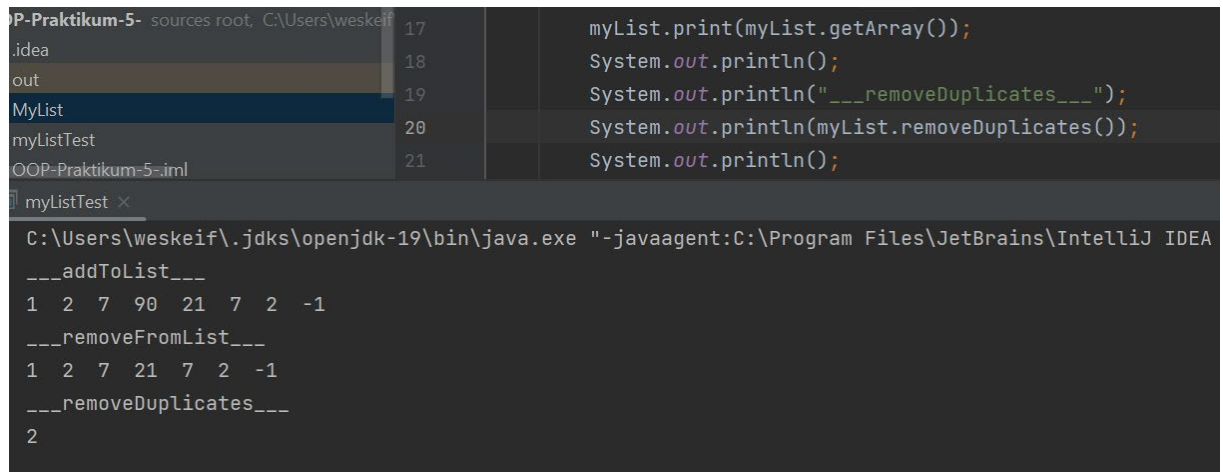
```
6 myList.addToList( index: 2, item: 7);
7
8 myList.addToList( index: 3, item: 90);
9
10 myList.addToList( index: 4, item: 21);
11 System.out.println("___addToList___");
12 myList.print(myList.getArray());
13 System.out.println();
14 System.out.println("___removeFromList___");
15 myList.removeFromList( index: 3);
16 myList.print(myList.getArray());
```

The output window at the bottom shows the execution results:

```
C:\Users\weskeif\.jdk\openjdk-19\bin\java.exe "-javaagent:C:\Program Files\JetBr
___addToList___
1 2 7 90 21
___removeFromList___
1 2 7 21
```

(c). Duplikate Entfernen

`removeDuplicates()` . (Test3)



The screenshot shows an IDE with a project named 'P-Praktikum-5'. The file explorer on the left lists 'sources root', 'C:\Users\weskeif', '.idea', 'out', 'MyList', 'myListTest', and 'OOP-Praktikum-5.iml'. The editor displays the following Java code:

```
17 myList.print(myList.getArray());
18 System.out.println();
19 System.out.println("___removeDuplicates___");
20 System.out.println(myList.removeDuplicates());
21 System.out.println();
```

Below the code, the 'myListTest' tab shows the execution output:

```
C:\Users\weskeif\.jdk\openjdk-19\bin\java.exe "-javaagent:C:\Program Files\JetBrains\IntelliJ IDEA
___addToList___
1 2 7 90 21 7 2 -1
___removeFromList___
1 2 7 21 7 2 -1
___removeDuplicates___
2
```

(d). Sortieren

sortList() (Test4)

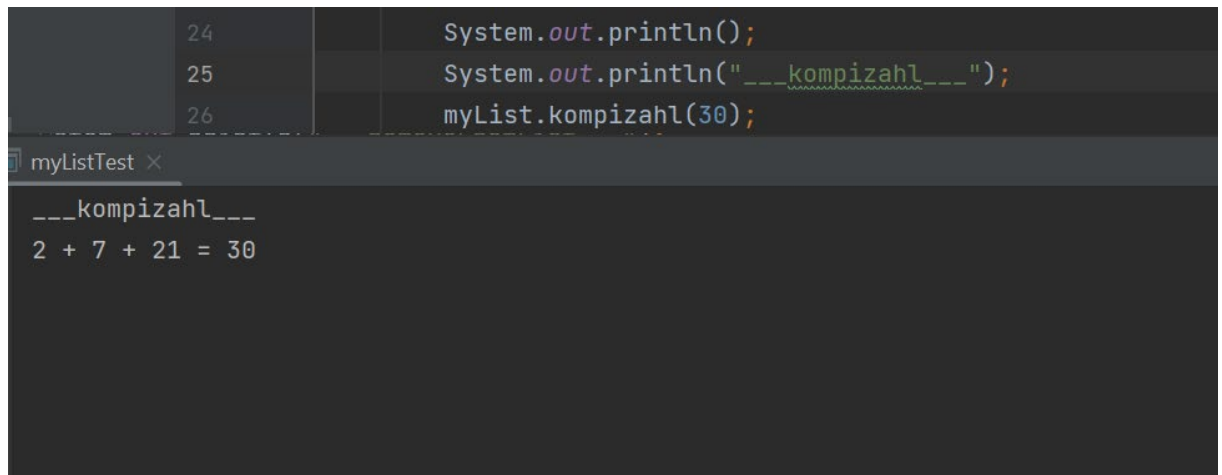
```
16      System.out.println("___sortlist___");
17      myList.sortList();
18      myList.print(myList.getArray());
19
20
```

myListTest x

```
___sortlist___
1  2  7 21
```

(e). KombiZahl

kombiZahl(int zahl) (Test5)



The screenshot shows a Java IDE with a code editor and an output window. The code editor has three lines of code: `System.out.println();`, `System.out.println("___kompizahl___");`, and `myList.kompizahl(30);`. The output window, titled "myListTest", shows the output of the code: `___kompizahl___` followed by `2 + 7 + 21 = 30`.

```
24      System.out.println();
25      System.out.println("___kompizahl___");
26      myList.kompizahl(30);
```

myListTest x

```
___kompizahl___
2 + 7 + 21 = 30
```