

Assignment 1

- create as simple scheduler (a „TODO“ list)
 - data are stored in a file
 - manipulation via parameters of the command line
 - `java balicek.TODO -a priority messaga`
 - adds the message with given priority
 - priority is integer (can be even negative)
 - `java balicek.TODO -l`
 - prints out the messages sorted by priority decreasingly
 - `java balicek.TODO -r`
 - prints out the messages sorted by priority increasingly
 - `java balicek.TODO -d`
 - interactive
 - prints out all messages (formated as order number then message)
 - asks the user which message should be deleted
 - deletes the message

Assignment 2

- Create a method that returns the biggest value in an array
 - create a multi-threaded implementation
 - a) use the threads directly
 - b) use an executor
 - c) use data streams
- Create a “synchronized” counter for Long
 - 2 methods
 - long get() - returns the counter value
 - void inc() - increases the counter value

Tests...

Test 1

- What is printed out

```
public class Test01 {  
    private static java.util.Random rnd = new java.util.Random();  
  
    public static void main(String[] args) {  
        StringBuffer word = null;  
        switch (rnd.nextInt(2)) {  
            case 1: word = new StringBuffer('P');  
            case 2: word = new StringBuffer('G');  
            default: word = new StringBuffer('M');  
        }  
        word.append('a');  
        word.append('i');  
        word.append('n');  
        System.out.println(word);  
    }  
}
```

- A Pain or Gain or Main, differently each start
- B always Pain
- C always Gain
- D always Main
- E something else
- F cannot be compiled

Test 2

- What is printed out

```
public class Test02 {  
    public static void main(String args[]) {  
        System.out.println("H" + "a");  
        System.out.println('H' + 'a');  
    }  
}
```

- A Ha Ha
- B Ha
- C something else
- D cannot be compiled



Slides version P09.en.2018.01

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