

# 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.2019.01

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