

Assignment 1

- create a method, which prints out names of all files, that are in a given folder and contains a given word
 - and searches the folder in parallel
- create a method, which works as the previous one, but prints out also a number of occurrences of the given word in each of the files
- create a method, which works as the first one, but searches also subfolders

Assignment 2

- create a method, which returns a file with the largest occurrence of the given word in the given folder
 - the method searches the folder in parallel
 - and is asynchronous
 - i.e., return Future

Assignment 3

- create a simple **net** todo manager
 - 2 programs – server and client
 - server
 - manages data
 - can serve several clients concurrently
 - all clients shares single data
 - client
 - communicates with the server
 - usage via parameters of command line
 - as the previous assignment
- use sockets
- make up a communication protocol between client and server
- do not forget to manage communication errors
 - e.g. the server termination while a client is still running

Tests...

Test 1

- Is it possible to declare the variable `i` so that the following cycle never terminates?

```
while (i != i) {  
  
}
```

Test 2

- What is printed out?

```
public class Increment {
    public static void main(String[] args) {
        int j = 0;
        for (int i = 0; i < 100; i++) {
            j = j++;
        }
        System.out.println(j);
    }
}
```

- A 100
- B 101
- C 0
- D something else
- E cannot be compiled



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