
P2: Introduction

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26 Feb 2021

The Team

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Course Materials

- SCG website ([P2 course website](#))
- Q & A Forum ([ILIAS P2 Q&A Forum](#))
- Podcast on ILIAS ([P2 Podcast Channel](#))
- Your git repository (later)

Logistics

- Group of 2 students
- Both members **must** work
- Each student must have at least 20% of the total number of commits, spread out over the entire semester (not only at the end)

Logistics

- There are assignments throughout the semester
- Between 1 and 3 weeks to solve
- Exercises are mandatory

There are a few optional ones (announced later), but you can only skip one

- Made available via git, usually Friday afternoon
- Use git to submit your solutions

Logistics

- Deadline: Friday at 13:00
 - Exception: No exception
- Be punctual. We will look at the last commit before the deadline.
- Can't make it? Ask for an extension **before the deadline.**
- 2 extensions in a row, 3 in total
- 2 revises in a row, one revision for one exercise

Solutions and Corrections

- No grades (only pass/fail)

Wow very good solution

Ok accepted solution

Revise revision required by next week

Fail failed

****** deadline extended (not automatically!)

- Available in your git repository at a later date (usually within one week)

Handing in Solutions

- **Do not copy solutions**
- Ask for help if you can't make it
- We can talk about everything, but do not accept copied solutions
- University rules apply
http://www.unibe.ch/universitaet/organisation/rechtliches/rechtssammlung/reglemente_richtlinien_weisungen_der_universitaetsleitung/wissenschaftliche_integritaet/index_ger.html

Office Hours

- Exercise hour: Friday, 14:30–16 (In the lecture Q&A session: [zoom Q&A session](#))
- Pool support: Tuesday 16-18 on [Discord](#)
- Ask questions on ([ILIAS P2 Q&A Forum](#))
- Email us for extra meetings (p2-staff@list.inf.unibe.ch)

Before you get started

- Register on ILIAS
 - Announcements, Q&A, deadline reminders
- Find a project partner
 - If you can't find anyone:
 - mention in your text file (about ssh key)
 - post on ILIAS
 - let us know at p2-staff@list.inf.unibe.ch

Before you get started

- Read the post “[Rules for passing P2 exercises](#)” on ILIAS to know about rules to pass p2
- Follow the instructions “[Exercise 01: Getting started with Git](#)” to obtain your git repository
- Send your ssh key as described in the “[Required data](#)” in the P2 Exercise tab on ILIAS.

Exercise 1: Warmup

- Establish workflow for exercises
- Set up environment
 - IntelliJ, Eclipse, Git
- Implement simple program in Java, submit using git

Glob patterns

- Used to match filenames

E.g., when selecting files in a terminal (`ls *.txt`)

- Two special characters

- * Match any number of arbitrary characters

- ? Match one arbitrary character

Glob patterns: examples

Pattern

Match

***.md**

README.md, exercise_01.md, ...

exercise_??\.md

exercise_01.md, exercise_02.md ...

***nas*anas**

ananasananas

Tasks

- Parser for glob patterns
 - Initialization of pattern (e.g., *.md)
 - **Input:** Filename (e.g., exercise_01.md)
 - **Output:** Boolean answer whether the filename matches the pattern

Tasks

```
// Create new Pattern
public FilePattern(String pattern) {
    // your implementation
}

// Return whether the pathname matches the pattern.
public boolean matches(String filename) {
    // your implementation
}
```


Tasks

- Test cases
 - Make sure your implementation behaves as expected
 - We provide some test cases
 - You should come up with your own

Tasks

```
@Test
public void starDotTxtShouldMatchFnameDotTxt() {
    FilePattern pattern = new FilePattern("*.txt");
    assertTrue(pattern.matches("fname.txt"));
}
```

JUnit

- Testing framework
 - Covered in more detail in lecture 4
- **Goal:** Make sure program behaves as expected
- **JUnit:** Individual, independent tests.

Get the exercise

```
@Test  
public  
    F  
    a  
}
```

The exercise comes with some existing tests for reference.

```
xt() {  
xt");
```

More in exercise_01.md
git pull p2-exercises master

Tasks

- Read the instructions [“Exercise 01: Getting started with Git”](#)
- Wait for your git repository
- Follow the remainder of the post to clone your repository
- Read the detailed exercise description
- Submit it via git.

Thank you