

P2: Exercise Introduction

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The Team

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Course Materials

- SCG website (scg.unibe.ch/teaching/p2)
- Piazza forum (piazza.com/unibe.ch/spring2018/p22417)
- Podcast on ILIAS
- Your git repository (more later)

Logistics

- Groups 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 Thursday afternoon
- Use git to submit your solutions

Logistics

- Deadline: Thursday at 13:00
 - Exception: First week, Friday at 13:00
- Be punctual. We will look at the last commit before the deadline.
- Can't make it? Ask for an extension **before the deadline.**

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, 16–17
- Pool support: Tuesday 16–18 in ExWi A95
- Ask questions on Piazza
piazza.com/unibe.ch/spring2018/p22417
- Email us for extra meetings

Before you get started

- Register on Piazza

Announcements, Q&A, deadline reminders, ...

Requires unibe.ch mail address!

- Find a project partner

If you can't find anyone, let us know at
p2-staff@list.inf.unibe.ch

Before you get started

- Read the first post on Piazza and follow the instructions to obtain your git repository
- <https://piazza.com/class/jd1rv33fnsl6ol?cid=8>

Exercise 1: Warmup

- Establish workflow for exercises
- Set up environment
 - 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
 - You should come up with your own!

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

Tasks

1. Read the Piazza post
<https://piazza.com/class/jd1rv33fns16ol?cid=8>
2. Wait for your repository
3. Follow the remainder of the Piazza post to clone your repository
4. Read the detailed exercise description