

# **P2: Exercise Introduction**

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# The Team

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# Course Materials

- SCG website (P2 course website)
- Piazza forum (P2-Piazza)
- 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 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**

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# Office Hours

- Exercise hour: Friday, 16–17
- Pool support: Tuesday 16–18 in ExWi A95
- Ask questions on Piazza (P2-Piazza)
- 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](mailto:p2-staff@list.inf.unibe.ch)

# Before you get started

- Read the first post on Piazza to know about rules to pass p2 *“Rules for passing P2 exercises”*
- Exercise slides will be available at ‘Lab slides’ under P2 course website. Check piazza post *“Exercise slides”*
- Follow the instructions to obtain your git repository *“Exercise 1: Getting started with git”*

# 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
<code>*.md</code>	README.md, exercise_01.md, ...
<code>exercise_???.md</code>	exercise_01.md, exercise_02.md, ...
<code>*nas*anas</code>	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 "*Exercise 1: Getting started with git*"
2. Wait for your repository
3. Follow the remainder of the Piazza post to clone your repository
4. Read the detailed exercise description