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/spring2017/p22417)
- 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 11 assignments
- Solve 10
- One of the later exercises is going to count double
- 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)

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Wow        very good solution
Ok         accepted solution
Revise     revision required by next week
Fail       failed
**         deadline extended (not automatically!)

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• Available in your git repository a week later
Office Hours

- Exercise hour: Friday, 16–17
- Pool support: Tuesday 16–18 in ExWi A95
- Ask questions on Piazza (piazza.com/unibe.ch/spring2017/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 (p2-staff@list.inf.unibe.ch)

- Read the first post on Piazza and follow the instructions to obtain your git repository
  https://piazza.com/class/iwc4p1vmj9b9n?cid=10
Exercise 1: Warmup
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

- Examples:

<table>
<thead>
<tr>
<th>Pattern</th>
<th>Match</th>
</tr>
</thead>
<tbody>
<tr>
<td>*.md</td>
<td>README.md, exercise_01.md, ...</td>
</tr>
<tr>
<td>exercise_???.md</td>
<td>exercise_01.md, exercise_02.md, ...</td>
</tr>
</tbody>
</table>
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

// 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!

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

1. Read the Piazza post

   https://piazza.com/class/iwc4p1vmj9b9n?cid=10

2. Wait for your repository

3. Follow the remainder of the Piazza post to clone your repository

4. Read the detailed exercise description