

UNIVERSITÄT BERN

# P2: Exercise 1 Warmup

Claudio Corrodi

### Goals

- Establish workflow for exercises
- Set up environment
  - Eclipse, ...
  - Git
- Implement simple program in Java
  - Make sure it is correct using unit tests

#### **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

Pattern	Match
*.md	README.md, exercise_01.md,
exercise_??.md	exercise_01.md, exercise_02.md,

#### **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

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

// Return whether the pathname matches the pattern.
public boolean accept(File pathname) {
    // 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");
    File pathname = new File("fname.txt");
    assertTrue(pattern.accept(pathname));
}
```

#### License

http://creativecommons.org/licenses/by-sa/2.5/



Attribution-ShareAlike 2.5

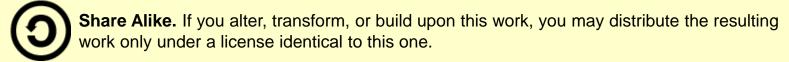
#### You are free:

- · to copy, distribute, display, and perform the work
- to make derivative works
- to make commercial use of the work

#### Under the following conditions:



**Attribution.** You must attribute the work in the manner specified by the author or licensor.



- For any reuse or distribution, you must make clear to others the license terms of this work.
- Any of these conditions can be waived if you get permission from the copyright holder.

Your fair use and other rights are in no way affected by the above.