

P2: Exercise 1

Warmup

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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));  
}
```

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