This project wants to teach people the importants of clean code, by letting them experiment with refactoring the code to be more obfuscated.

1.0 Rules

- · Run the tests all the time
- · Test have to be green all the time
- Do not modify the test
- The tests are complete ==> if the tests are green, the code is still correct
- Java: run tests in your IDE- or command-line ./mvnw clean test
- · Javascript: run tests in your IDE or command-line: npm install npm run test

1.1 Posible Obfuscating steps

- · Add impossible if
- Add impossible else
- Invert if
- · Eliminate return in if
- Add unused variable
- Add unused variable so that that it is used
- · Make scope for variable larger
- · Promote variable to field
- Promote variable to static
- · Promote function to static
- Make scope for function larger
- Add bi-directional changes in var
- Use several vars for the same result
- Make var mutable
- Make condition longer
- Use field ISO parameter
- · Use parameter ISO existing field
- Add confusing comments
- Add commments in a different speaking language
- Change function names in a different language
- Inline Function
- Extract Function
- Remove Final
- Add return statements all over the place
- · Self-implement language functions
- Split declaration and assignment
- Add dead code
- · Add dead code in different software language
- Rename
- Rename singular/plural
- · Rename to meaningless name
- · Rename to other meaning
- · Bad indendation (should be the last change)

1.2 A successful sequence of obfuscating steps:

A good sequence that is almost always succesful to create unreadable code.

- Extract variable
- Rename variable to meaningless name
- · Remove final
- Split into declaration and assignment
- Move declaration up a few blocks (Make scope for variable larger)
- Move assignment up a few blocks

Links

- self-register in the github organization
- this github organization

- Join the mural
- teams meeting (for screen sharing)

1.4 if you want to read more

- https://refactoring.guru/refactoring/smells
- https://refactoring.guru/refactoring
- https://en.wikipedia.org/wiki/Code_smell
- https://www.sihui.io/code-smell-cheat-sheet
- https://blog.codinghorror.com/code-smells/
- https://refactoring.guru/refactoring/techniques
- https://refactoring.guru/refactoring/catalog
- https://www.kentbeck.com/
- https://refactoring.com/
- Workflow of refactoring https://www.youtube.com/watch?v=vqEg37e4Mkw