

CSE 2221 - Project 6

Task

Gain familiarity of the **NaturalNumber** classes and their respective functions.

Original Project Instructions

[Project 6 Instructions from CSE2221 Project Site](#)

Program Requirements

- Exact same requirements as what was given in the lab:
 - Variable names must be `lowEnough`, `tooHigh`, and `guess` as we mentioned in lab (okay... so guess isn't all that important, but the others are REQUIRED), they must also represent the correct variables they are supposed to represent
 - You must not compute $\sqrt[n]{n}$ directly, use the interval halving algorithm we went over
 - Using the provided code skeleton, reimplement the algorithm using `NaturalNumbers`

Rules

- You may use any `NaturalNumber` method EXCEPT `root`
- You should have no need to use the `toInt` or `toString` methods
- Keep the `newInstance` method in mind
- Know when to use the `transferFrom` method over the `copyFrom` method

Steps

1. Copy and paste the *ProjectTemplate* project to create a new project folder for this project
2. Name the project *NaturalNumberRoot*
3. Open the *src* folder, then open (*default package*)
4. Rename any ONE file to *NaturalNumberRoot.java*
5. Delete the other files
6. Open *NaturalNumberRoot.java*
7. Go to [this page](#) and copy and paste the source code there into *NaturalNumberRoot.java*
8. Edit the `root` function to where it looks like the correct solution from the lab (with changes necessary to make it work for `NaturalNumbers` instead of integers)
9. This is a straightforward lab, just follow the rules
10. Submit to Carmen