

Serie 9 - Fairness and Optimism

Exercise 1

Answer the following questions:

1. What criteria might you use to prioritize threads?
2. What are different possible denitions of fairness?
3. What are Pass-Throughs and Lock-Splitting?
4. When should you provide a policy for upgrading readers to writers?
5. When should you consider using optimistic methods?

Exercise 2

We need a class that represents graphical objects that consist of an x-coordinate, a y-coordinate, a width and a height. It has to have at least the following methods:

- increase the x-coordinate by 10% and decrease the y-coordinate by 20%
- increase the width by 50% and decrease the height by 80%
- increase the y-coordinate by 40% and decrease the height by 60%

Implement it once using Lock-Splitting and once using Pass-Throughs (Use the interface in geom.zip).