

Homework 7

(8 points)

- Genome sequence is a character string that includes A,T,G,C.
- Create a program that creates 100 random genome sequences each should be 10 characters long, e.g. ATGGCAACAG, CAACATCAGC, TTCTCTGTTT.
- After creating this program now use concurrency to make this program faster. For example, we can use five threads to create 20 genome sequences each.
- Report the differences between single thread and multithread run. Having no significant differences is not a problem.

Evaluation

Your homework grade will be calculated based on the following criteria

Does the code compile? If not, you can not get its mark.

Does it perform all tasks that has been asked in the assignment?

Is the code readable, did you put enough comments, respect java naming conventions, etc.

Does it include a descriptive [read.me](#) file.

Are you able to explain your code and answer my questions about this. Cheating will not be tolerated at any cost.

- Any delay on assignment submission will result in a grade deduction, 10% per day. After two days later the assignment will not get accepted at all.
- If there is an extreme circumstance such as getting sick or the death of relatives, you can communicate with me about the late assignment. However, I would not accept anything without proper evidence.