

Assignment 1

Question 1

Write a **sequential** Java program to estimate the value of PI using the Monte-Carlo method. For an explanation of this approach see: <http://learntofish.wordpress.com/2010/10/13/calculating-pi-with-the-monte-carlo-method/>

Question 2

Write a **parallel** Java program to estimate PI using the Monte-Carlo method.

Hint: the tricky parts of this exercise are:

- Making sure you update the counts of inside and outside the circle correctly (**inside + outside = total number of tries** or you got it wrong).
- Coming up with a strategy for controlling the amount of parallelism (simply starting up thousands of threads will overwhelm your machine).