Assignment 1

• Create a method that counts (use multiple threads) a number of primes in a given range
  
  - int countPrimes(long start, long stop)
Assignment 2

- define the Matrix and Vector classes to represent a matrix and vector
  - the type of matrix/vector entries is double

- create the methods
  - `Vector multiply(Matrix m, Vector v)`
  - `Matrix multiply(Matrix m, Matrix v)`

- implement parallel multiplication
- in a case of bad size of matrix/vector, the method throws an exception
Tests...
Test 1

• Is it possible to declare the variable `i` so that the following cycle never terminates?

```java
while (i != i + 0) {
}
```
Is is possible to declare the variables \(i\) and \(j\) so that the following cycle never terminates?

```java
while (i <= j && j <= i && i != j) {
}
```