Assignment 1

- Create a methods 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)`

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

Tests...

Test 1

- Is is possible to declare the variable **i** so that the following cycle never terminates?

```
while (i != i + 0) {

}
```

Test 2

- Is is possible to declare the variables **i** and **j** so that the following cycle never terminates?

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

}
```