The learning outcome of this practical session is to understand the internals of a basic completable future.

1 Implementing CompletableFuture

Implement a simplified completable future that only consists of the following methods: supplyAsync, thenApply and get (follow the same method signature as the one from CompletableFuture). The solution can only use the following classes: Future, ExecutorService and Supplier. Moreover, to ensure that tasks are executed in sequence, you can rely on a single threaded executor such as the one provided by class Executors.

2 Revision: Parallel Prime Numbers Implementation

This algorithm seen in the second practical session is inherently sequential.
Another approach consists in relying on the collect operation as follows: any time two lists must be combined, remove from the first each multiple of any value of the second and vice versa.
Implement the collector using the interface and the algorithm seen in the second practical session.