

Concurrency with AsyncTasks

Lab Manipulation N°2

A)

- Complete the following AsyncTask specification to determine the value of the n^{th} prime in the list of prime numbers.
- Create an Activity that uses an instance of this AsyncTask to display the value of that n^{th} prime. Clicking on a button displays the prime's value. Steps to fulfill the lab are given in comments.
-

```
public class NthPrime extends AsyncTask</*params*/, /*progress*/, /*result*/> {
    private TextView resultView;

    public NthPrime(/* Declare the right arguments for this constructor */) {
        // Set constructor's arguments appropriately.
    }

    @Override
    protected /*???*/ doInBackground(/* Arguments for background processing */) {
        // Search  $n^{\text{th}}$  prime
    }

    @Override
    protected void onPostExecute(/* Arguments for result display */) {
        // Display, on UI, in resultView, the result value of background
        // processing
    }
} // end of NthPrime class
```

B)

- Complete Activity display by indicating progress of the n^{th} prime's value calculation.

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