Exercise 09

Parallel Practice II

Due Date: Monday August 12, 11:59 PM
We recommend you finish this exercise by: Wednesday August 7
Submit via your gitlab repository.

Use the ForkJoin framework to write the following method in Java:

```java
public static int getLongestSequence(int val, int[] arr, int seqCutoff)
    Returns the length of the longest consecutive sequence of val in arr.
```

For example, if `arr` is `[2, 17, 17, 8, 17, 17, 17, 0, 17, 1]`,
then `getLongestSequence(17, arr) == 3`
and `getLongestSequence(35, arr) == 0`.

Your code must have \(O(n)\) work, \(O(\log n)\) span, where \(n\) is the length of `arr`,
and actually use the `seqCutoff` argument as a sequential cutoff. We have
provided you with an extra class `SequenceRange`. We recommend you use
this class as your return value, but this is not required.