

CSE 332 Summer 18

Exercise 09

Parallel Practice II

Due Date: Monday August 6, 11:59 PM

We recommend you finish this exercise by: Wednesday August 1

Submit via your gitlab repository.

Use the `ForkJoin` framework to write the following method in 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 $\mathcal{O}(n)$ work, $\mathcal{O}(\lg n)$ 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.