CSE 332: Data Structures and Parallelism

Exercises (Parallelism)

Directions: Submit your solutions using gitlab. You must fill out the partners form for para to get access to your repository. Choosing a partner is disabled, because these exercises are solo.

EX14. getLeftMostIndex (20 points)

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

```
public static int getLeftMostIndex(char[] needle, char[] haystack, int
sequentialCutoff)

Returns the index of the left-most occurrence of needle in haystack (think of needle and haystack as
Strings) or -1 if there is no such occurrence.

For example, getLeftMostIndex("cse332", "Dudecse4ocse332momcse332Rox") == 9 and
getLeftMostIndex("sucks", "Dudecse4ocse332momcse332Rox") == -1.
```

Your code must actually use the sequentialCutoff argument. You may assume that needle.length is much smaller than haystack.length. A solution that solves overlapping subproblems will be significantly cleaner and simpler than one that does not.