Exercise 10

Parallel Practice III

Due Date: Monday August 12, 11:59 PM
Submit via your gitlab repository.

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

```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.