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.

EX12. hasOver (20 points)
Use the ForkJoin framework to write the following method in Java:

```java
public static boolean hasOver(int val, int[] arr, int sequentialCutoff)
```

Returns true if `arr` has any elements strictly larger than `val`.

For example, if `arr` is `[21, 17, 35, 8, 17, 1]`, then

hasOver(21, arr) == true and hasOver(35, arr) == false.

Your code must have $O(n)$ work, $O(\lg n)$ span, where $n$ is the length of `arr`, and actually use the `sequentialCutoff` argument.