## 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.

## EX11. hasOver (20 points)

Use the ForkJoin framework to write the following method in 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  $\mathcal{O}(n)$  work,  $\mathcal{O}(\lg n)$  span, where n is the length of arr, and actually use the sequentialCutoff argument.