Worksheet #13:
Parallelism in Java Streams, Parallel Prefix Sums

Name: ___________________          Netid: ___________________

1. What output will the following Java Streams code print?

2. Which stream operation in this example could benefit from a parallel prefix sum implementation, and why? (Assume a larger array when answering this question, so that overheads of parallelism are not an issue.)

1. Arrays
2. .asList("a1", "a2", "b1", "c2", "c1")
3. .parallelStream()
4. .filter(s -> s.startsWith("c"))
5. .sorted()
6. .map(String::toUpperCase)
7. .forEach(System.out::println);