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CSE 2221 Homework 16

Professor Bucci

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- 1. We implement the given static method:
 - i. False
 - ii. False
 - iii. { 'x', 'y', 'z' }
 - iv. {'w', 'x', 'y', 'z' }
 - **v.** {'x', 'y'}
 - **vi.** { }
 - vii. $\{'z'\}$
 - **viii.** { }
 - ix. True
 - **x.** False
 - **xi.** 3
 - **xii.** {'a', 'b', 'c'}
- **2.** Step 1:

CTGTTTTCGTTA

AGCTGTTTTCGTT

10 character overlap: CTGTTTTCGTT

 ${\bf AGCTGTTTTCGTTA}$

 $\begin{array}{c} {\rm Step}\ 2:\\ {\rm AGCTGTTTTCGTTA}\\ {\rm TTTCGTTATACAT} \end{array}$

```
8 character overlap: TTTCGTTA
AGCTGTTTTTCGTTATACAT
  Step 3:
AGCTGTTTTCGTTATACAT
{\tt CATTTTAGCTGTT}
7 character overlap: AGCTGTT
{\tt CATTTTAGCTGTTTTTCGTTATACAT}
  Step 4:
CATTTTAGCTGTTTTTCGTTATACAT
CACTCCATTTTA
7 character overlap: CATTTTA
CACTCCATTTTAGCTGTTTTTCGTTATACAT
  Step 5:
{\tt CACTCCATTTTAGCTGTTTTCGTTATACAT}
TATACAT
7 character overlap: TATACAT
{\tt CACTCCATTTTAGCTGTTTTCGTTATACAT}
3.
    Instance
    public void flip() {
        Queue<Integer > q1 = new Queue1L<Integer >();
        q1.transferFrom(this);
        for (int i = 0; i < q1.length(); i++) {
            int entry = this.dequeue();
            q1.enqueue(entry);
        this.transferFrom(q1);
    }
4.
    Static
    public static void flip(Queue<Integer> q) {
        Queue<Integer > q1 = new Queue1L<Integer >();
        q1.transferFrom(q);
        for (int i = 0; i < q1.length(); i++) {
```

int entry = q.dequeue();

q1.enqueue(entry);

q.transferFrom(q1);

}