

Homework 17

1.

```
/**
 * Reverses ("flips") {@code this}.
 *
 * @updates this
 * @ensures this = rev(#this)
 */
public <T> void flip(Queue<T> thiss) {
    Queue<T> temp = new Queue<>();
    for (int i = 0; i < thiss.length(); i++) {
        temp.enqueue(thiss.dequeue());
        thiss.enqueue(temp.dequeue());
    }
}
```

2.

```
/**
 * Reverses ("flips") {@code this}.
 *
 * @updates this
 * @ensures this = rev(#this)
 */
public static <T> void flip2(Queue<T> thiss) {
    Queue<T> temp = new Queue<>();
    for (int i = 0; i < thiss.length(); i++) {
        temp.enqueue(thiss.dequeue());
        thiss.enqueue(temp.dequeue());
    }
}
```

3.

CATTTTAGCTGTT + AGCTGTTTCGTT = CATTTTAGCTGTTTCGTT

TTTCGTTATACAT + CATTTTAGCTGTTTCGTT =
TTTCGTTATACATTTTAGCTGTTTCGTT

TATACAT + TTTCGTTATACATTTTAGCTGTTTCGTT =
TATACATTCGTTATACATTTTAGCTGTTTCGTT

CACTCCATTTTA + TATACATTCGTTATACATTTTAGCTGTTTCGTT =
CACTCCATTTTATACATTCGTTATACATTTTAGCTGTTTCGTT

CTGTTTCGTTA left over