Homework 17

1.

/\*\*

\* Reverses ("flips") {@code this}.

\*

\* **@updates** this

\* **@ensures** this = rev(#this)

\*/

public <T> void flip(Queue<T> thiss) {

Queue<T> temp = new Queue1L<>();

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 Queue1L<>();

for (int i =0; i < thiss.length(); i++) {

temp.enqueue(thiss.dequeue());

thiss.enqueue(temp.dequeue());

}

}

3.

CATTTTAGCTGTT + AGCTGTTTTCGTT = CATTTTAGCTGTTTTCGTT

TTTCGTTATACAT + CATTTTAGCTGTTTTCGTT = TTTCGTTATACATTTTAGCTGTTTTCGTT

TATACAT + TTTCGTTATACATTTTAGCTGTTTTCGTT = TATACATTTCGTTATACATTTTAGCTGTTTTCGTT

CACTCCATTTTA + TATACATTTCGTTATACATTTTAGCTGTTTTCGTT = CACTCCATTTTATACATTTCGTTATACATTTTAGCTGTTTTCGTT

CTGTTTTCGTTA left over