

Homework 19

Farhan Sadeek

November 14, 2023

1.

```
public void flip() {
    Stack<T> rev = new Stack1L<>();
    int length = this.length();
    for (int i = 0; i < length; i++) {
        T element = this.pop();
        rev.push(element);
    }
    this.transferFrom(rev);
}
```
2.

```
public void flip() {
    Sequence<T> rev = new Sequence1L<>();
    int length = this.length();
    for (int i = 0; i < length; i++) {
        T element = this.pop();
        rev.add(i, element);
    }
    this.transferFrom(rev);
}
```
3.

```
public void flip() {
    Sequence<T> rev = new Sequence1L<>();
    int length = this.length();
    this.flipHelper(rev, length);
    this.transferFrom(rev);
}

public void flipHelper(Sequence<T> dest, int n) {
    if (n < 0)
        return;
    T x = this.remove(n);
    int index = dest.length();
    dest.add(index, x);
    flipHelper(dest, n - 1);
}
```

}