

# CS 284: Quiz 4 – Fall 2020

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Student Names:

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## Exercise 1

Implement `public void removeAll(E item)` that removes all copies of `item` in the recipient list. For example, removing all 2's from:

- `[1,2,2,3]` gives `[1,3]`
- `[]` gives `[]`
- `[2,2,2,2,9,5]` gives `[9,5]`
- `[2,2,2,2]` gives `[]`
- `[1,2,2,3,9,5,2,2,2]` gives `[1,3,9,5]`

You may **not** use any methods from the `SLL` class. Here is the stub (implementing the last example above).

```
public class SLL<E> {
    public static class Node<F> { ... }
    public void removeAll(E item) {
        // TODO
    }
    public static void main(String[] args) {

        SLL<Integer> l = new SLL<>();

        l.add(1);
        l.add(2); l.add(2);
        l.add(3);
        l.add(9);
        l.add(5);
        l.add(2); l.add(2); l.add(2);
        System.out.println(l);
        l.removeAll(2);
        System.out.println(l);
    }
}
```