CSE 373 QuickCheck 1	Name:	Student ID:

The picture shows two states of a ListNode p. In the lines below, write Java code to turn *Before* to *After*.
 Do not modify the data instance variable, introduce any new variables, or use the new keyword.



2. Give a tight asymptotic runtime bound for mystery as a function of N, the length of the array, in the **best** case, worst case, and overall. Give a $\Theta(\cdot)$ bound if it exists. Otherwise, give both an $O(\cdot)$ and $\Omega(\cdot)$ bound.

```
static boolean mystery(int[] a, int target) {
    int N = a.length;
    for (int i = 0; i < N; i += 1) {
        if (a[i] == target) {
            return true;
        }
    }
    return false;
}
Best case
Worst case
Overall</pre>
```