

Lesson 8: Removing Elements

The Social Media Dilemma

You are writing an algorithm for your favorite social media app. This algorithm uses an array to store the names of every user someone is following. We know that people sometimes “break up” with friends for whatever reason. Therefore, the user needs the ability to unfollow or remove a friend from their list.

How is the `remove()` method different from how we would remove items from an array?

Similar	Different
<ul style="list-style-type: none">••	<ul style="list-style-type: none">••

Removing with an Enhanced for Loop

Enhanced for Loop: Arrays

```
for(int price : prices) {  
    System.out.println(price);  
}
```

Enhanced for Loop: ArrayList

```
for(Integer price : prices) {  
    System.out.println(price);  
}
```

WORD BANK

ConcurrentModificationException enhanced loop ArrayList array

Using an _____ while adding or removing elements from an ArrayList may cause a _____.

_____s are immutable, which means the size cannot change.

Using remove() with an _____ completely removes the element, shifting the rest of the items.

Reflection

Question of the Day: How is removing data from an `ArrayList` different from removing data from an array?

How does the idea of removing elements connect with what you already know?