

Rewrite the following code that uses an array to use an `ArrayList` instead. In the comments write why you think an `ArrayList` is a better data structure to use than an array for this problem.

Run

11/10/2024, 12:23:00 PM - 4 of 4

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Pair?

```
1 // Code by Akshat Garg
2 import java.util.*;
3
4 public class ToDoList
5 {
6     public static void main(String[] args)
7     {
8         // Rewrite this code to use an ArrayList instead of an array
9         ArrayList<String> toDoList = new ArrayList<String>();
10        toDoList.add("Do homework");
11        toDoList.add("Help make dinner");
12        toDoList.add("Call grandma");
13
14        // changing element 1
15        toDoList.set(1, "Order pizza");
16
17        System.out.println(toDoList.size() + " things to do!");
18        System.out.println("Here's the first thing to do: " + toDoList.get(0));
19
20        // remove item 0 and move everything down
21        // (this can be done in one method call with ArrayList)
22        toDoList.remove(0);
23
24        System.out.println("Here's the next thing to do: " + toDoList.get(0));
25
26        // Why is an ArrayList better than an array for a toDoList?
27        // Answer: If you need to cross off or remove an item,
28        //           it will move everything down so there are no empty spaces
29    }
30 }
31 }
32
33
```

```
3 things to do!
Here's the first thing to do: Do homework
Here's the next thing to do: Order pizza
```

Result	Expected	Actual	Notes
Pass	3 things to do! Here's the first thing to do: Do homework Here's the next thing to do: Order pizza	3 things to do! Here's the first thing to do: Do homework Here's the next thing to do: Order pizza	Output is the same
Pass	true	true	Declare ArrayList
Pass	false	false	Checking that code contains ["]

You got 3 out of 3 correct. 100.00%

Activity: 7.2.7.1 ActiveCode (challenge-7-2-array-to-arraylist)

I messed up a little with the `todoList.size()`, forgot the `()` was necessary as it was a method call. Also didn't notice the `todoList[0]` needed to be changed, and got an error there too. Switched everything over, added a comment about why it was easier to use arraylists over arrays in this case, and everything passed!