

# Lesson 70: FortuneTeller Lab (W23D2)

Balboa High School

Michael Ferraro

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# Do Now

- 1 Predict what the method below does.
  - 2 Create project L70.
  - 3 Test your theory by creating class DoNow, including the method below, and having `main()` make calls to the method.
- 

```
public static int doNowMystery(int[] myInts) {  
    return myInts[0] + myInts[myInts.length - 1];  
}
```

Students will work on the FortuneTeller lab and answer questions relating to Java arrays.

Quoting Litvin p258:

4. An array of integers `scores` has at least two elements, and its elements are arranged in ascending order (that is, `scores[i] ≤ scores[i+1]`). Write a condition that tests whether all the elements in `scores` have the same values. *Hint: you do not need iterations.*

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→ A condition is a *Boolean expression* (i.e., one that evaluates to true or false). Examples:

★ `a <= 3 && a != 0`

★ `arr1.length > 0 && arr1[0] == -1`

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**Naïve Approach:** Check first element of array; if it's not equal to 2<sup>nd</sup> element, return `false`. Else, compare to the next element, and the next, ..., and the last. If first was equal to all others, return `true`.

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**Better Approach?** (Use the hint you're given!)

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**Better Approach:** Create class `Ch9Ex4` in project `L70`, with a method called `areAllEltsEqual()`. This method must take an array of `ints`, returning `true` if all elements are equal or `false`, otherwise.

## For the rest of class. . .

- Work on PS #12, §4: FortuneTeller Lab. (Required reading [here](#).)
- Start on PS #12, §5.

Finish §5 of PS #12.