

CSE 121 – Lesson 16

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Spring 2023

Music: [121 23sp Lecture Vibes](#) 



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TAs:

<i>Jasmine</i>	<i>Atharva</i>	<i>Mia</i>	<i>Justin</i>
<i>Shananda</i>	<i>Julia</i>	<i>Archit</i>	<i>Aishah</i>
<i>Vidhi</i>	<i>Anju</i>	<i>Grace</i>	<i>Claire</i>
<i>Larry</i>	<i>Lydia</i>	<i>Kailye</i>	<i>Lydia</i>
<i>Jacqueline</i>	<i>Jonus</i>	<i>Joshua</i>	<i>Kai</i>
<i>Afifah</i>	<i>Hugh</i>	<i>James</i>	

Announcements, Reminders

- P3 will be released later today – last assignment!
 - Focus on arrays!
 - No resubmissions due to the timing at the end of the quarter
- Gumball Visit on Monday, June 5 1:00pm-3:00pm
- Final Exam: **Thursday, June 8 2:30pm-4:20pm**
 - Left-Handed Seating Request form posted on Ed and closes Mon 5/29 EOD

Final Exam Details

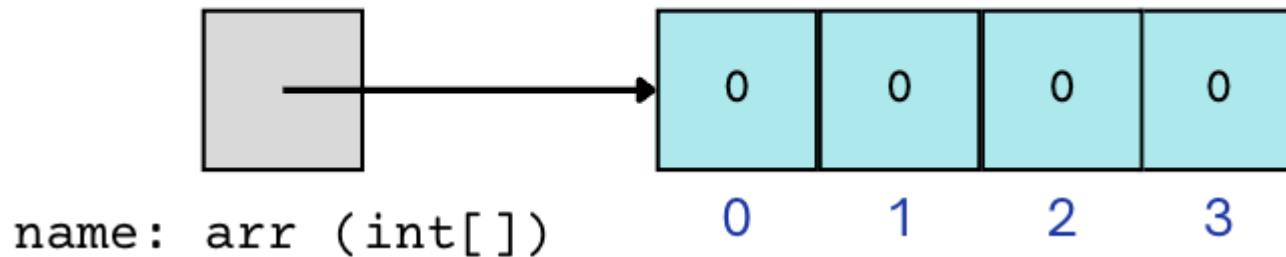
- Final Exam: **Thursday, June 8 2:30pm-4:20pm**
- In-person, on paper, with assigned seating
- No collaboration – should be completed individually
- You may bring in **one 8.5x11-inch** sheet of notes, handwritten or typed, double-sided
- Focused on behavior (not style)
- You should make every attempt to write correct Java syntax
- **Final Exam Review Session Tuesday, June 6 4:30pm-7:00pm in GUG220**

(PCM) Arrays

- Elements (must all be the same type)
- Indices (starting at 0)
- Must decide size when created
- `arr.length` to get arr's length
- `Arrays.toString(arr)` to get a nice String version

`int[]` `arr` = `new int[4];`
type name array creation code

```
int[] arr = new int[4];
```



(PCM) Array Traversal Pattern

```
for (int i = 0; i < arr.length; i++) {  
    // do something with arr[i]  
}
```

Poll in with your answer!



How can we get the last element of an array `arr`?

- A. `arr[arr.length()]`
- B. `arr[length()]`
- C. `arr[arr.length]`
- D. `arr[arr.length() - 1]`
- E. `arr[arr.length - 1]`

Poll in with your answer!



What would the array a store at the end of this arrayMystery method if $\{-20, 20, 26, 32, 50, 3\}$ was passed in?

```
public static void arrayMystery(int[] a) {  
    for (int i = a.length - 1; i >= 1; i--) {  
        if (a[i] > a[i - 1] + 10) {  
            a[i - 1] = a[i - 1] + 5;  
        }  
    }  
}
```

- A. $\{-20, 20, 26, 32, 50, 3\}$
- B. $\{-15, 25, 31, 37, 55, 8\}$
- C. $\{-15, 25, 31, 37, 50, 3\}$
- D. $\{-15, 20, 26, 37, 50, 3\}$