

LEC 12

CSE 121**Arrays**

Questions during Class?

Raise hand or send here

sli.do **#cse121**

BEFORE WE START

Talk to your neighbors:*What's the most spontaneous thing
you've ever done?*Music: ♣ [CSE 121 25su Lecture Tunes](#) ♣**Instructor:** Hannah Swoffer**TAs:**
Abby Merav
Hannah Trey
Julia

Agenda

- **Announcements, Reminders** ←
- PCM Review
- Code Example(s)!



Announcements, Reminders

- C3 will be released today, due **Tuesday, August 12th**
- R5 will be released today, due **Tuesday, August 12th**
 - Eligible: **P1**, C2, P2
- Quiz 2 on **Thursday, August 14th**
 - Includes everything up to and including lecture today (arrays)
 - Can't make it? Email Hannah before your quiz!
- Quiz 1 grades released before Quiz 2



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PCM Review: Arrays

`int[]`

type

`arr`

name

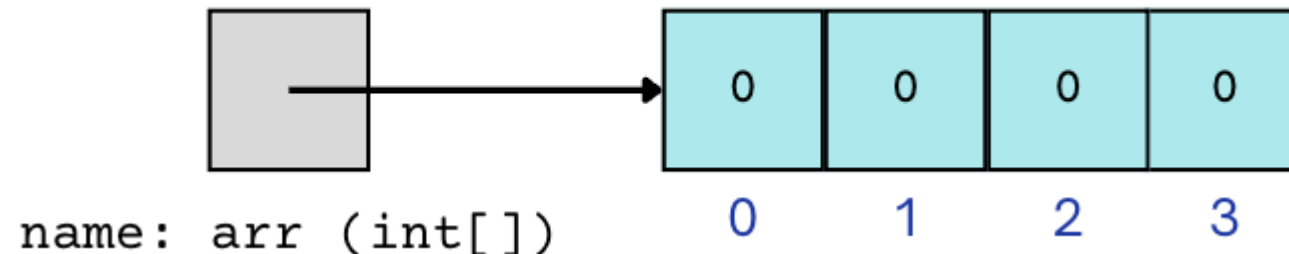
`=``new int[4];`

array creation code

New **data structure** that stores multiple items, in order

- Elements must all be the same type
- Zero-based indexing
- Must decide (and fix) size when created
- `arr.length` to get arr's length
- `Arrays.toString(arr)` to get a nice String version

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



PCM Review: Array Traversal Pattern

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





Practice: Think

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Which of these expressions gives us 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]`





Practice: Pair

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Which of these expressions gives us 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]`



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