LEC 13

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 25sp Lecture Tunes 🌸

Instructor: Miya Natsuhara

TAs:

Chloë	Hibbah	Sushma
Ailsa	Julia	Kelsey
Johnathan	Sahej	Shayna
Christian	Ruslana	Hannah
Merav	Hanna	Zach
Judy	Maitreyi	
Janvi	Ayesha	

Announcements, Reminders

- P2 due next **Tuesday, May 20th**
- R4 released, due **Thursday, May 22nd** (eligible: **C1**, P1, C2)
- Quiz 2 on **Thursday, May 29th**
  - Includes everything up to next Wed's lecture
  - Can't make it? Email Miya before your quiz!
- Quiz 1 grades released before Quiz 2

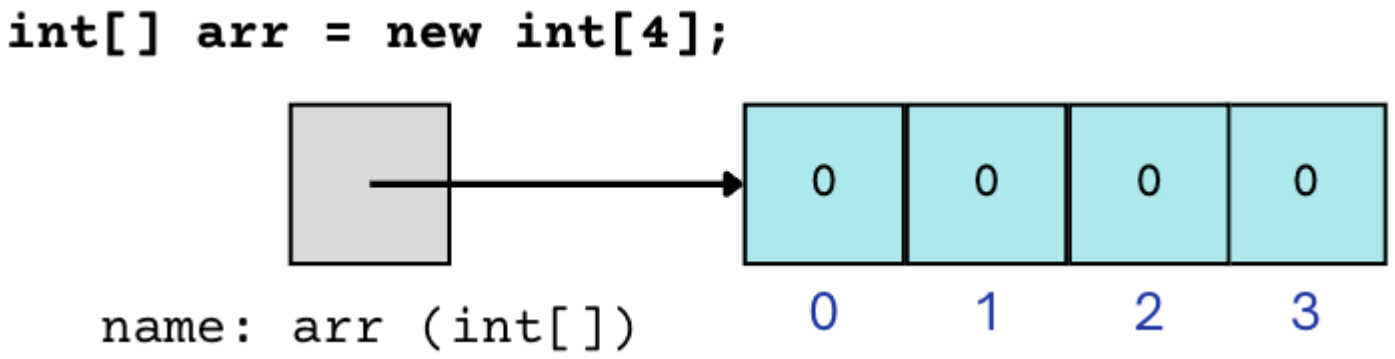
PCM Review: Arrays

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

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

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



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`?

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B. `arr[length()]`

C. `arr[arr.length]`

D. `arr[arr.length() - 1]`

E. `arr[arr.length - 1]`