LEC 13

CSE 121

Arrays

Questions during Class?

Raise hand or send here

sli.do   #cse121

BEFORE WE START

Talk to your neighbours:

What hobby do you want to pick up?

Music: [121 25wi lecture playlist](#) ❄

Instructor: Matt Wang

TAs:

Ailsa	Alice	Chloë	Christopher
Ethan	Hanna	Hannah	Hibbah
Janvi	Judy	Julia	Kelsey
Lucas	Luke	Maitreyi	Merav
Ruslana	Samrutha	Sam	Shayna
Sushma	Vivian		

Announcements, Reminders

- P2 due next **Tuesday, Feb 25th**

- R4 released, due **Thursday, Feb 27th** tomorrow (eligible: **C1**, P1, C2)

- Quiz 2 on **Thursday, Mar 6th**
  - includes everything up to next Wed's lecture
  - can't make it? <u>email me</u> before your quiz!

- Quiz 1 grades released before Quiz 2

- reminder: <u>tell us your thoughts on structured section practice!</u>

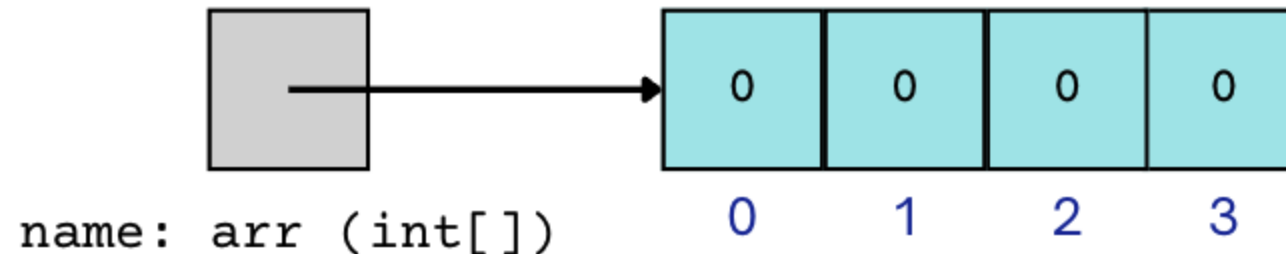# PCM Review: Arrays

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

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

- elements must <u>all</u> 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];`

name: arr (int[]) | 0 | 0 | 0 | 0 |
                       0   1   2   3

PCM Review: Array Traversal Pattern

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

Practice: Think

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

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]`

Announcements, Reminders (again)

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