

LEC 13

CSE 121

# Arrays

Questions during Class?

Raise hand or send here

sli.do #cse121



BEFORE WE START

***Talk to your neighbors:***

*What is your favorite potato-based dish?  
(e.g. fries, aloo gobhi, gnocchi)*

Music:  [CSE 121 26wi Lecture Tunes](#) 

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<b>TAs:</b>	Amogh	Hayden	Anum	Sam	Shayna
	William	Aki	Abdul	Ethan	Jesse
	JohnathanSpencer	Janvi	Jessica	Minh	
	Anant	Savannah	Navya	Paul	Cayden
	Reese	Tamsyn	Ruslana	Carson	

# Announcements, Reminders

- P2 due next **Tuesday, February 24<sup>th</sup>**
- R4 released, due **Thursday, February 26<sup>th</sup>** (eligible: **C1**, P1, C2)
- Quiz 2 on **Thursday, March 5<sup>th</sup>**
  - Includes everything through next Wed's lecture
  - Can't make it?
    - Email [mnats@cs.washington.edu](mailto:mnats@cs.washington.edu) *before* your quiz!
- Quiz 1 grades released before Quiz 2



# Recall: Variables

type            name            value

**int** **myNum** = **2**;

CODE

**myNum**



int

THINK



# Arrays

type      name      value

```
int[] arr = {2, 0, 6};
```

CODE

arr



int[]

THINK



# PCM Review: Arrays

`int[]`

type

`arr`

name

=

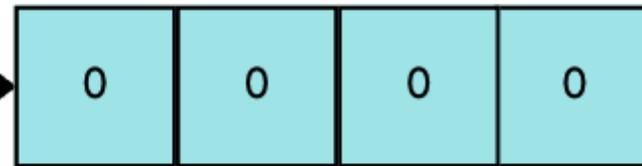
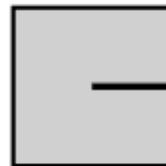
`new int[4];`

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];
```



name: `arr (int[])`

0

1

2

3



# 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]`

