

LEC 13

CSE 121

Arrays



BEFORE WE START

Talk to your neighbors:

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

Music:  [CSE 121 25au Lecture Tunes](#) 

Instructors: Brett Wortzman & James Weichert

TAs:	Trey	Ava	Caleb	Elden	Anya
	Amogh	Reese	Anum	Suyash	Minh
	Samrutha	Hayden	Abdul	Sthiti	TJ
	Dalton	Aki	Janvi	Paul	Zach
	Ailsa	Spencer	Navya	Shayna	Cayden
	Ryan	Savannah	Sam	Jesse	Johnathan
	Anant	Tamsyn	Jessica	Nhan	

Questions during Class?

Raise hand or send here

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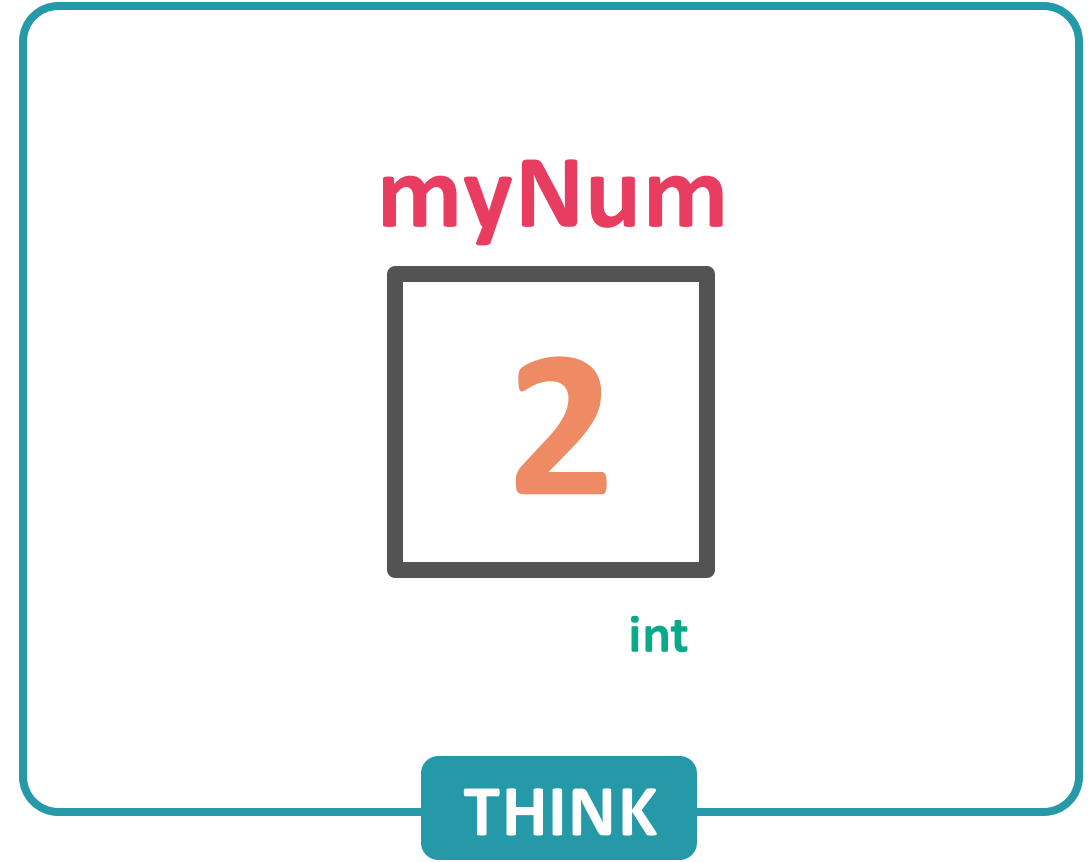
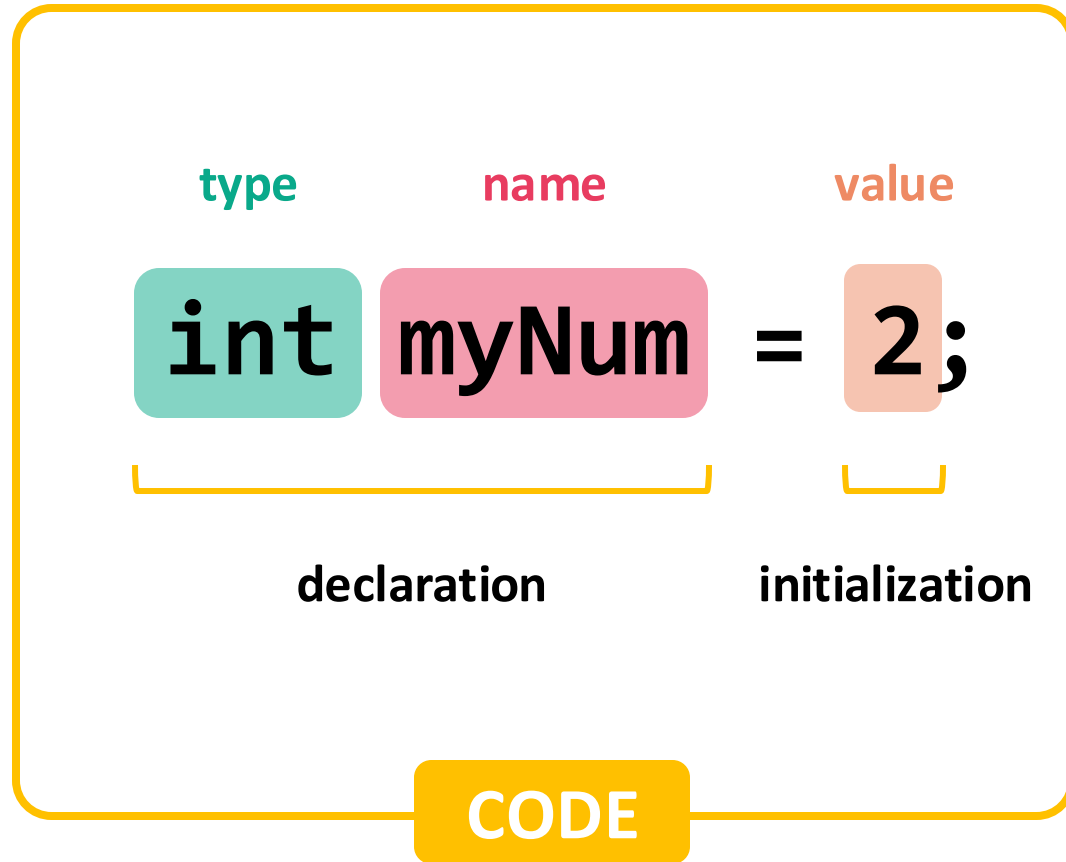


Announcements, Reminders

- P2 due next **Tuesday, November 11th**
- R4 released, due **Thursday, November 13nd** (eligible: **C1**, P1, C2)
- Quiz 2 on **Thursday, November 20th**
 - Includes everything through next Wed's lecture
 - Can't make it?
 - Email cse121-instructors@cs.uw.edu *before* your quiz!
- Quiz 1 grades released before Quiz 2



Recall: Variables



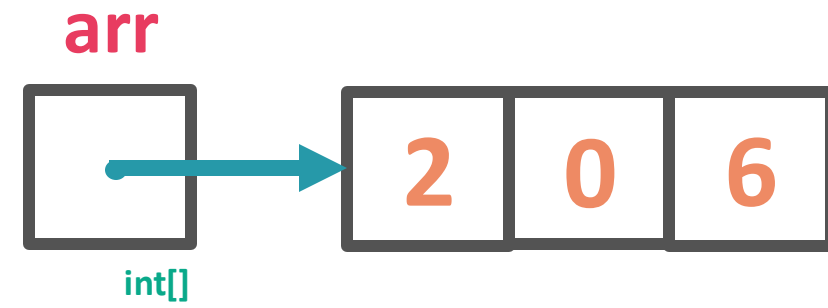
Arrays

type name value

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

declaration initialization

CODE



THINK



PCM Review: Arrays

`int[]`

type

`arr`

name

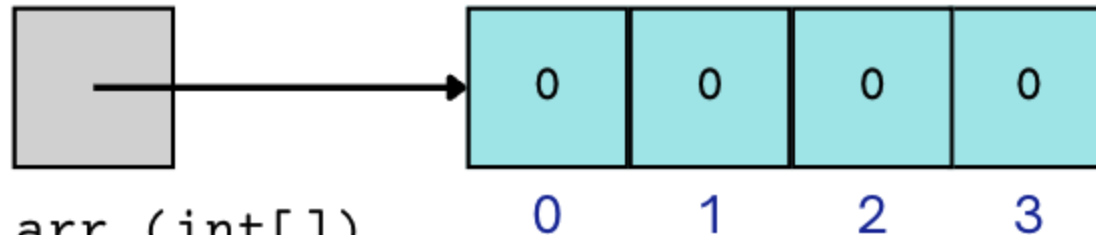
`=``new int[4];`

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[])`



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

[sli.do](#)[#cse121](#)

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]`

