# CSE 121 Lesson 12: Arrays

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Summer 2024





#### sli.do #cse121



### Announcements, Reminders

- P2 due next Tuesday, 8/6 @ 11:59 pm
- R4 released yesterday, due next Thursday @ 11:59 pm
- Quiz 2 in section next Thursday
  - Quiz 1 grades will be released by Monday
  - Extra quiz drop to account for quiz 2 difficulty (updated syllabus and grade calculator)
- Final Reflection Assignment Released
  - Double check gradescope!
  - More information in Ed post

## (PCM) Arrays

- Elements (must <u>all</u> be the same type)
- Indices (starting at 0)
- <u>Must</u> decide 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) Array Traversal Pattern

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



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# Poll in with your answer!

How can we get 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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## Poll in with your answer!

What would the array a store at the end of this arrayMystery method if

{-20, 20, 26, 32, 50, 3} was passed in?

```
public static void arrayMystery(int[] a) {
  for (int i = a.length - 1; i >= 1; i--) {
    if (a[i] > a[i - 1] + 10) {
        a[i - 1] = a[i - 1] + 5;
        }
    }
}
```



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A.{-20,	20,	26,	32,	50,	3}
B.{-15,	25,	31,	37,	55,	8}
C.{-15,	25,	31,	37,	50,	3}
D.{-15,	20,	26,	37,	50,	3}
E.error (index out of bounds)					