

# CSE 11

# Accelerated Intro to Programming

## Discussion Section 7

Shihua Lu, Spring 2021

This discussion is being recorded

# Logistics

- PA6 due today at 11:59PM
- PA7 released
- Exam1 grading in progress

# More array and loops

- Array of primitive type:

- `int[] arr = new int[10];` *double / boolean*

- Array of class type:

- `TextTweet[] arr = new TextTweet[10];`

- Array of interface type:

- `Tweet[] arr = new Tweet[10];`

*access elements use indices*

*go through the array using for-loops*

*initialize an array using the "new" keyword /  
or using {val1, val2, ...}*

# More array and loops

- Given an array of integers, return positive integers in the array

String  
Tweet  
Text Tweet

```
int[] findPositives(int[] nums){
    int numberPositive = 0;
    for (int num: nums){
        if (num > 0){
            numberPositive += 1;
        }
    }
    int[] positives = new int[numberPositive];
    int index = 0;
    for (int num: nums){
        if (num > 0){
            positives[index] = num;
            index += 1;
        }
    }
    return positives;
}
```

length

satisfy any condition  
negative numbers /  
prime numbers /  
numbers that are prime  
and greater than 5

# More array and loops

- Given an array of strings, convert the strings into uppercase

```
String[] toUpper(String[] strs){  
    String[] upperStrs = new String[strs.length];  
    for (int i = 0; i < strs.length; i++){  
        upperStrs[i] = strs[i].toUpperCase();  
    }  
    return upperStrs;  
}
```

What if I want to  
lowercase the strings /  
keep the first 10 characters /  
replace "my" with "your"

# PA7

- Start early!
- *> 200 lines of code*

Thanks!