

CSE 11

Accelerated Intro to Programming

Discussion Section 7

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This discussion is being recorded

Logistics

- PA7 released Sunday!
- Exam1 grading in progress. Will be done by next exam

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;  
}
```

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"

Quick Midterm Review

3	M	7/12	Lecture: Arrays and Main	PA5 Released
	Tu	7/13	Lecture: Loops and Variable Update	
			Discussion: PA5	
	W	7/14	Lecture: Counted For Loops	PA5 Due
	Th	7/15	Lecture: More Loops Practice!	PA6 Released
			Discussion: PA6	Quiz 5 Due
	F	7/16	Exam 1 (start @ 12am)	PA2 & PA3 Resubmission Due
	Sa	7/17	Exam 1 (end @ 4pm)	Quiz 6 Due
	Su	7/18		PA6 Due
4				PA7 Released (early)
	M	7/19	Lecture: Loops and Objects	
	Tu	7/20	Lecture: Generics	
			Discussion: PA7	
	W	7/21	Lecture: ArrayLists and Boxed Primitives	PA7 Due
	Th	7/22	Lecture: File I/O and Exceptions	PA8 Released
			Discussion: PA8	Quiz 7 Due
	F	7/23	Exam 2 (start @ 12am)	PA4 & PA5 Resubmission Due
	Sa	7/24	Exam 2 (end @ 4pm)	Quiz 8 Due
	Su	7/25		PA8 Due

Loops will be on the midterm!

Code Example

PA7

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

Thanks!