CSE 11 Accelerated Intro to Programming Discussion Section 5

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Arrays orys Main 100P example

Logistics

- PA4 due today at 11:59PM
- PA5 Released
- Exam next week

Arrays

- An ordered sequence of values
 - (int, double, String, YourClass, array, ...)
- Syntax of creating an array:

```
int[] nums1 = { 4 2 7 }; - int away of sice 3
 int[] nums2 = {};
```

int[] nums4 = nums1; // Be careful!!! String[] strs1 = {"Hello", "CSE11"};

Array length:

int nums1Length = nums1.length;

String[] et = new String[5]

Arrays cont'd

index o to len -1

Use index to access elements in an array:

```
int[] nums1 = { 4, 2, 7 };
int firstElem = nums1[0]; // 4
int secondElem = nums1[1]; // 2
int thirdElem = nums1[2]; // 7
int fourthElem = nums1[3]; // Index 3 out of bounds for length 3
```

Modify elements in an array:

```
nums1[2] += 1; // nums1 becomes { 4, 2, 8}
```

- Array length is fixed:
 - Can modify elements, but cannot add/delete elements
 - nums1 = $\{4, 2, 7, 8\}$ // need to assign a different array

Main access specifier return special method • public static void main (String[] args) {...}
• You saw this in PAO.5 int main class Discussion Examples Entry point to a Java program • javac DiscussionExamples.java return — main (.) { java DiscussionExamples • There needs to be a main method in the class DiscussionExamples args – an array of Strings (command line arguments) ava DiscussionExamples some some arguments

W

4. up date , and loop sody 5. repeat from step 2 **Loop Basics** How to access elements in a very very long array? loop condition attarr = & 1,2,5 -> initialization statement For-loop < arr.length; i++) System.out.println(arr[i]); for (int element : arr) System.out.println(element); loop condition \rightarrow int i = 0: while (i < arr.length) {

System.out.println(arr[i]);

Thanks!