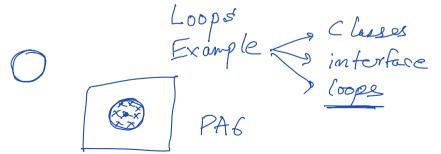
# CSE 11 Accelerated Intro to Programming Discussion Section 6

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# Logistics

- PA5 due today at 11:59PM
- PA6 Released
- Exam this week Thursday 8am Sunday 8am (PST)

# For-in loops

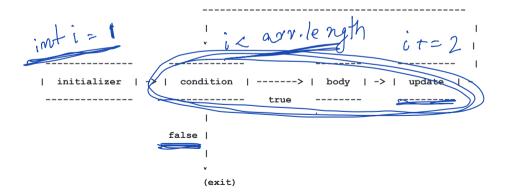
- run the body of their loops once per element in a given array
- follows the order that they appear in the array, with the "loop variable" assigned to that element
- Their syntax looks like:

```
for (/* element type */ /* variable name *(:) /* array */) {
    /* loop body */
Example:
String[] messages = {"Hello", "CSE11"};
for (String message: messages
    System.out.println(message);
prints
Hello
CSE11
```

fixed order Size

# Counted for loops

- More fine grained control compared to for-in loops these are not limited to running once per element in an array
- Their syntax looks like:



Counted for loops -- Nested for loops

body of counted for loops contain other can contain multiple Java statements, including multiple method calls, variable definitions and updates, if statements, and even other loops

```
// Start with the top header of the table
String result = \frac{1}{t2}t3\frac{1}{t5}n;
                                                                   Prints the times table from 1 to 5 to the terminal:
    // Print the left header ; ? ?
     result += i;
          result += "\t" + (i * j);
    // Add a newline to finish the row
     result += "\n";
System.out.println(result);
```

# PA6

• https://github.com/CSE11-SP21-Assignments/cse-11-sp21-pa6-starter

Thanks!