

# CSE 11

# Accelerated Intro to Programming

## Lecture 12

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This lecture is being recorded

# Announcements

- PA2 & PA3 resubmissions due tomorrow @ 11:59pm
  - No tutoring hours on Friday
- Lecture Quiz 5 due tomorrow @ 11:59pm
- Lecture Quiz 6 due Sunday @ 11:59pm
- Exam 1
  - Starts tomorrow
  - Details on Piazza

# For-each Loop (enhanced for loop)

```
for (<type> <name> : <array>) {  
    <body>  
}
```

# Counted For Loop

- Three parts (besides the loop body)
  - Initializer
    - Usually, a variable definition
  - Test / condition
    - Expression that must evaluate to a boolean
  - Update
    - Usually, a variable update

# Counted For Loop

```
for ( <initializer> ; <test> ; <update> ) {  
    <loop body>  
}
```

# Nested Loops

- Loops are a kind of statement
  - They can go inside loop bodies!

```
for (int row = 0; row < height; row += 1) {  
    for (int col = 0; col < width; col += 1) {  
        <loop body>  
    }  
}
```