

CSE 11

Accelerated Intro to Programming

Lecture 11

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Announcements

- PA2 & PA3 resubmissions due Friday @ 11:59pm
 - No tutoring hours on Friday
- Lecture Quiz 5 due Friday @ 11:59pm
- Exam 1
 - This week on Friday/Saturday
 - 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>  
    }  
}
```