## For Loops

Section 5.6

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# for loops (5.6)

• Just like a while loop, but more concise!

```
// initialize test update
for (int count = 0; count < 5; count++)
{
   cout << count << endl;
}</pre>
```

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## For vs While

This for loop
for (int count = 1; count <= 9; count += 3)
{
 cout << count << endl;
}
is equivalent to what while loop?</pre>

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Example

#### **Localized Declarations**

```
for (int i = 0; i < 10; i++)
{
  cout << i << endl;
}
cout << i << endl; // This will cause an error
• i is declared ONLY in the loop</pre>
```

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### Potential Pitfalls

• What is the output of the following loop
int count;
for (count = 0; count < 5; count++)
{
 cout << count << end1;
 count++;
}</pre>

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#### Problem

- Write a program that allows the user to enter 20 integers, you should then print out the following:
  - o The sum of all integers inputted
  - o The average of all integers inputted
  - $_{\circ}\,$  The largest integer of all integers inputted

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