

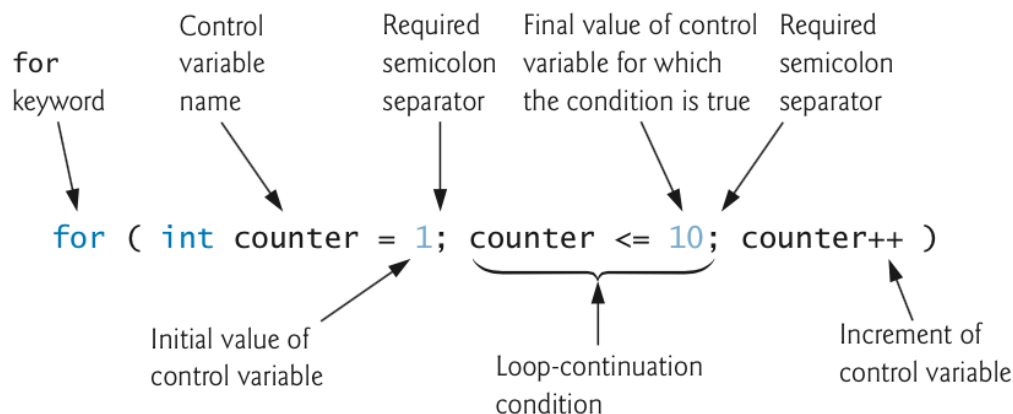


Adapted from C++ Tutorial at <http://www.cplusplus.com/doc/tutorial/control/>
and C++ How To Program edited for our own purposes

Iteration Statements – for loop

In addition to while, C++ provides the for repetition statement, which specifies the counter-controlled repetition details in a single line of code. The syntax is:

`for (initialization; condition; update) { statement };`



An example:

```
1  #include <iostream>
2  using namespace std;
3
4  int main()
5  {
6      int total = 0; // initialize total
7
8
9      // total even integers from 2 through 20
10     for ( int number = 2; number <= 20; number += 2 )
11     {
12         total += number;
13     }
14
15     cout << "Sum is " << total << endl; // display results
16 }
```