```
// CS264_Study_Material
//
   Created by Stephen O Brien on 27/11/2017.
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//
//
//Iterators\\
#include <iostream>
#include <vector>
using namespace std;
int main() {
    /* we declare a vector that takes integers.
     */
vector <int> col;
    /* This next loop uses the built in function of
     "variable_name.push_back(int)", to push an
     integer onto the vector named "col". It then outputs the vector col slot at
      ſil.
     */
    for (int i= 0; i<10; i++)
        col.push_back(i);
        cout<<col[i]<<endl;
    }
    /* this next loop uses an iterator which needs to be declared in the for loop.
     has a set of functions (begin and end) that can be used to determine the
     parameters
     of the vector.
     Under the current parameters, i will start at thhe beginning of the vector.
     It will keep running once i is not equal to the end of the vector (i!
     =col.end)
     and it increments i before it uses it.
     line 42 shows us that '*i' finds the value in the slot at vector [i]. we can
     actually manipulate this value at this point.
     */
    for (vector<int>::iterator i = col.begin(); i!=col.end();++i)
        cout<<*i<<endl;
    return 0;
}
```