From ι to stateful λ

Some Test

```
TEST(SomeNonInterestingTest)
{
  vector<char> v = {'a', 'b', 'c', 'd', 'e', 'f', 'g', 'h', 'i', 'j'};
  // Do something with v
   …
}
```

Using std::iota

```
TEST(SomeNonInterestingTest)
{
  vector<char> v(26);
  iota(begin(v), end(v), 'a');
  // v now is {'a', 'b', 'c', 'd', 'e', 'f', …, 'x', 'y', 'z'}
   …
}
```

Using std::generate_n

```
TEST(SomeNonInterestingTest)
{
  vector<char> v;
  generate_n(back_inserter(v), 26,
             [c = 'a']() mutable {
               return c++;
             });
  // v now is {'a', 'b', 'c', 'd', 'e', 'f', …, 'x', 'y', 'z'}
}
```

A more complex example

```
struct Employee
{
    int id;
    string name;
    time_point joining_date;
    int dept;
};
```

```
TEST(SomeNonInterestingTest)
{
  vector<char> v;
  generate_n(back_inserter(v), 20,
      [i = 1000, join = system_clock::now()-hours(600*24)] () mutable {
            ++i; join -= hours(i/10*24);
            return Employee{i, "Name_"+to_string(i), join, i%12};
      });
}
```

References

std::iota - cppreference.com

C++ Weekly - Ep 37 - Stateful Lambdas - YouTube

C++ Weekly - Ep 51 - Advanced Stateful Lambdas - YouTube

C++ Weekly - Ep 68 - std::iota