Week 2

Exercise 12

../12/data/data.h 1 #ifndef INCLUDED_DATA_ 2 #define INCLUDED_DATA_ 3 4 #include <vector> 5 #include <memory> 6 #include <string> 7 8 class Data 9 10 typedef std::vector<std::shared_ptr<std::string>> DataVector; 11 DataVector d_data; 12 13 public: 14 typedef std::string value_type; // Needs to be public // Custom push_back for back_ins. 15 void push_back(std::string stringInput); // Just for testing 16 void print() const; 17}; 18 #endif 19 ../12/data/data.ih 1 #include "data.h" 2 3 #include <iostream> 4 using namespace std; ../12/data/print.cc #include "data.ih" 1 2 3 void Data::print() const 4 for (size_t idx = 0; idx != d_data.size(); ++idx) 5 6 cout << *d_data[idx] << '\n';</pre> 7 } ../12/data/push_back.cc 1 #include "data.ih" 2 3 void Data::push_back(string anyInput) 4 d_data.push_back(make_shared < string > (anyInput)); 5 6 ../12/main.ih #define ERR(msg) printf("%s : %d", (msg), __LINE__) 3 #include "data/data.h" 4 #include <iostream> 5 #include <iterator> 7 using namespace std;

Programming in C/C++ Tjalling Otter & Emiel Krol

../12/main.cc

```
1
  #include "main.ih"
2
3
  int main(int argc, char const **argv)
4
  {
5
    Data myData;
6
    copy(istream_iterator<string>(cin), istream_iterator<string>(), back_inserter(
        myData));
7
    myData.print();
8
  }
```