Stringstreams Solutions

Stringstreams

- What is a stringstream?
  - A stringstream is a class which has an std::string and the same interface as a stream

- Why are stringstreams useful?
  - Stringstreams are doing for doing intermediate steps in input/output operations
  - Output stringstreams are useful for building up data before outputting it, particularly when the output is formatted
  - Input stringstreams are useful for validating and checking input data before processing it

ostringstream example

- Write a program using ostringstream that
  - Reads data from input, repeatedly
  - Prints out all the data in a single statement, using setw() to format the output
- Consider how you would write this program without using ostringstream

istringstream example

- Write a program using stringstreams that
  - Opens a file containing the following data
  - Reads the data and stores it in a vector
  - Prints out all the elements of the vector
    - 23 45 6 1 8
    - 19 27 46 33 99 12
    - 6 79
    - 48 34 68 73