

CS-182
C++ Program #7
List of Vectors

Date Assigned: **Wednesday, February 07, 2001**
Date Due: **Thursday, February 15, 2001**

The objective of this assignment is to use the STL classes list and vector to redo the sorting program from an earlier lab assignment. Basically, the program is to prompt the user for a size (say 10, for example), and initialize a vector containing the numbers in reverse order (in this case, from 10 down to 1). Then, the sort algorithm is to make $n-1$ passes through the list, storing the result of each pass as a separate vector in a list of output vectors. The list of vectors will be returned by the sorting routine to the main program; which will in turn send it to another print routine, which will output the data from each pass as a separate line in an output file.

The output from this program will look the same as the output from your sorting program. The main difference is that the sort routine can not output the values directly. It must instead pass back a list of vectors which is to be processed by another routine (the print routine). This assignment forces the proper use of parameter passing in order to achieve the objective. In your written report, explain how you designed your routines, why they pass the type of parameters they use, and how your program meets the objectives.