Mitchell Gouzenko

C++ Library Design

qsort versus sort

**Introduction**

The purpose of this exercise is to investigate the differences between the c-style qsort and the c++ style sort.

**Experiment**

To test the effectiveness of these two sorting algorithms, I ran each of them on the following five containers:

• int[] - A naked array of integers

• vector<string> - A vector of strings

• vector<char\*> - A vector naked character pointers (both case-sensitive and case-insensitive)

• list<string> - A linked list of strings

I populated each of these containers with random elements of the appropriate type. Integers ranged in length from

Indirection - >move constructor.