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Report

The goal of this assignment was for us to familiarize ourselves with the standard library. The functionality that we used from the STL was the heap data structure. I began by creating a vector of 100 integers and creating a heap out of the integers with the make\_heap function which transformed the vector into a heap. By doing this, the largest value of the integers became the root of the data structure. When I added a new integer into the heap which was the mean I had to call push\_heap to extend the range of the heap to accompany the new value. Sorting was done by calling the sort function. The STL is an essential tool in C++ programming but understanding what is happening underneath is critical for a full understanding.