PROJECT 2: Sorting

Give a presentation to the class on the strategies for sorting, i.e., for putting a set of numbers in increasing order. Your presentation should include straightforward sorting and at least one of the non-straightforward methods given in Numerical Recipes, Secs. 8.0–8.3, i.e., Shell's method, Quicksort, and Heapsort.

Write a code, that you use in your presentation, to do an efficient sort on a large number of random numbers; this code is to be distributed to all students before your presentation. In your code, the user should specify N the number of random numbers generated, then the code should return N ordered random numbers.