**Tutorial of week 7: quicksort**

This week’s tutorial is attendance-based. Please submit your codes at Canvas before the deadline. No late submission will be counted.

Task: implement quicksort using vector of STL. Refer to the code in note5 (page 21). Specifically, you need to have the following components.

1. Read a file containing an integer list
2. Save the content into an integer vector (vector<int>)
3. Implement quicksort using vector. Output the final sorted list.
4. Output all the called quicksort functions (quicksort(data, p, r)). Output the values of p and r whenever this function is called. Use this to test whether you can write all the recursive functions correctly.

Feel free to use any previous codes from the lecture notes or the tutorials’ sample codes.