Program 1:

Write a program that randomly generate a one-dimensional array, and implements **quicksort** using recursion. Display the original array, and the new array.

Program 2:

Write a program that randomly generate two two-dimensional arrays, and implements **matrix multiplication** using logical loop – for example, **for** loop. Display the two original matrixes, and the new matrix.

Instructions:
1. Submit the source file for both programs on blackboard.
2. Using comments to show your name, the purpose of the program, and the date in the source code.
3. Students can work as pair; individual lab has to be submitted by each student.