Explain how **quickSort algorithm** works.

1. Use pr19-11.cpp program to explore the quicksort() algorithm

   - Use **box tracing** method to trace the program for following array elements:
     7, 3, 9, 2, 0, 1, 8, 4, 6, 5

   - Use a table to display the array values while program is running (i.e. use debugger)

2. After you understand how quicksort works, write a report to explain it, no more than 1 page long.

Turn in
   (1) 3 test cases
            an array has even number of elements
            an array has odd number of elements
   (2) box tracing chart,
            following array elements: 7, 3, 9, 2, 0, 1, 8, 4, 6, 5
   (3) table of array values while program is running,
            using following array elements: 7, 3, 9, 2, 0, 1, 8, 4, 6, 5