Weekly Exercise 3 - 1

- For the purpose of this Weekly Exercise, we shall define a test case to be composed of
  - input data and
  - expected results

  (what else can be found in a test case? <- for your thinking pleasure!)

- First, make sure your Tasks 4, 9 and 10 of Lab 2 have been successfully graded by the grading robot. Then ...
Weekly Exercise 3 - 2

**Our challenge:**

1. List all the test cases one would need in order to completely test
   - Your function *scrambled* (Task 4 of Lab 2),
   - Your program *verticalgraph.c* (Task 9 of Lab 2) and
   - Your function *InRectangle* (Task 10 of Lab 2)

**Note:** “completely” means that all statements in your function/program have been exercised (executed), i.e., tested!
Weekly Exercise 3 - 3

- Our challenge (cont’d):
  2. Note that you cannot list 2 test cases that test the same statements in your function/program!!!

  - This is to say that each of your 3 sets of test cases must be the smallest possible set of test cases for the function/program.
Weekly Exercise 3 - 4

- **Our challenge (cont’d):**
  - For example, when testing your function scrambled, you can use ...
    - **Test Case A**
      - Input data: arr1={2,1,3,4,5}, arr2 = {1,2,4,3,5}
      - Expected output: 1
    - **Test Case B**
      - Input data: arr1={7,6,8,9,10}, arr2 = {6,7,9,8,10}
      - Expected output: 1
  - But both test cases test the same statements in your function, so you could only list one of them
Weekly Exercise 3 - 5

Submission:
- Enter your test cases in the text field of the Weekly Exercise 3 on CourSys
- Make sure you label your test cases clearly such as:

  Lab 2 – Task 4
  • Test case 1 - input data: blah, expected results: blah
  • ...
  • Test case n - input data: blah, expected results: blah

  Lab 2 – Task 9
  • Test case 1 - input data: blah, expected results: blah
  • ...
  • Test case p - input data: blah, expected results: blah

  Lab 2 – Task 10
  • Test case 1 - input data: blah, expected results: blah
  • ...
  • Test case s - input data: blah, expected results: blah

Due date:
- TH June 6 at 4pm (no late submission accepted)