Weekly Exercise 3 - 1

- For the purpose of this Weekly Exercise, we shall define a **test case** to be composed of
  - **input data** (called *Sample Input* in our labs) and
  - **expected results** (called *Sample Output* in our labs)
    (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 list of test cases must be the smallest possible list of test cases for the function/program you are testing.

  - You will need 3 lists of test cases:
    - 1 list of test cases to test `scrambled`
    - 1 list of test cases to test `verticalgraph.c` and
    - 1 list of test cases to test `InRectangle`
Weekly Exercise 3 - 4

- Our challenge (cont’d):
  - For example, when testing your function scrambled, you can use …
    - Test Case A in your list of test cases could be:
      - Input data: arr1={2,1,3,4,5}, arr2 = {1,2,4,3,5}
      - Expected output: 1
    - Test Case B in that same list of test cases could be:
      - 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 these test cases in your list
Weekly Exercise 3 - 5

Submission:
- Enter your 3 lists of 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 Oct. 3 at 4pm (no late submission accepted)