IT5001 Practical Exam

Instructions:

- If you failed to submit your screen recording or failed to keep your proctoring camera, your PE will result in **ZERO mark** no matter what you submitted onto Coursemology.
- This is a test, not an assignment. The public test cases are for you to make sure that your function interface is correct, but NOT for you to verify answers. You think of some test cases to verify your answers like other written tests or quizzes. We will NOT grade you on public cases but only on private and evaluation cases.
    - Namely, you may still get zero mark even if you passed all public test cases.
- This PE consists of **THREE** parts and each part should be submitted in a separated file. Namely `part1.py`, `part2.py` and `part3.py`. Each file is independent, e.g. you cannot expect that the answer in `part2.py` calls a function in `part1.y` that is not in `part2.y`. If you want to reuse some function from another file, you need to copy them into that file. For example, you just need to copy the function you want to call in `part1.py` into `part2.py`.
- No mark will be given *if your code cannot run*, namely any syntax errors or crashes.
    - Your tutors will just grade what you have submitted and they will **not** fix your code.
    - Comment out any part that you do not want.
- Workable code that can produce correct answers in the given test cases will only give you *partial* marks. Only good and efficient code that can pass ALL test cases will give you full marks. Marks will be deducted if your code is unnecessarily long, hard-coded, or in poor programming style, including irrelevant code or test code.
- You must use the same function names as those in the skeleton files given. Also, you must NOT change the file names.
- If the function input is mutable, you should not modify the input.
- You ***cannot import*** any additional packages or functions. The only exception is that you can import the math package in Part 3.
- Your code should be efficient and able to complete *each* example function call in this paper within 1 second.
- In all parts, you should **return** values instead of **printing** your output. In another word, you should not need any "`print()`" in this entire PE for submission.
- You should remove all your test cases before submission. If you submit more code than required, it will result in **penalty** because you code is "unnecessarily long".
- You can access the pdf files in coursemology only, but not the rest of the features such as video and forums.
    - And you cannot access other websites or documents online.
- Reminder: Any type of plagiarism like copying code and then modify will be caught, that include adding comments, changing variable names, changing the order of the lines/functions, adding useless statements, etc.