COMP(2041|9044) 22T2 — Python Functions

https://www.cse.unsw.edu.au/~cs2041/22T2/

Course Topics

- unix filters

- regular expressions

- shell

- git

- python

- make

- linux tools and admin

Course Assessment

- 15% Labs

- 10% Weekly Programming Tests

- 15% Assignment 1 — due week 7

- 15% Assignment 2 — due week 11

- 45% Final Exam

Above marks may be scaled to ensure an appropriate distribution

To pass you must:

- score at least 50/100 overall

- score at least 18/45 on final exam

For example:

55/100 overall, 17/45 on final exam $\Rightarrow$ **55 UF** not 55 PS

Labs and Tests

- 9 labs - weeks 1-5,7-10:
    - max lab mark 2 marks with challenge exercises (if any)
    - max lab mark ~1.6 marks without challenge exercises (2 if there aren't challenges)
    - 9 labs marks summed and capped at 15
    - you could get 100% for lab mark without challenge exercises
        - because 2 labs didn't have challenge exercises
    - most people will get 12+/15
- 8 tests - weeks 3...10:
    - max test mark 1.7
    - best 6 of 8 test marks summed and capped at 10.
    - most people will get 7+/10

Exam

- Run under similar conditions to Weekly Tests
    - except you can access course web pages & your answers to tuts, labs & weekly tests

- Except 3 hours and some question may not be coding

- Thursday 18th August 13:50 — 17:00

- Exam will be released by email at 13:50:
    - 10 minutes reading time, exam starts 14:00
    - exam finishes 3 hours later at 17:00
    - plus any ELS-approved extra time

- Announcements before & during exam will be sent to your UNSW email

- Questions during exam must be sent to **cs2041.exam@cse.unsw.edu.au**
    - the course forum will be locked during the exam

Exam Conditions

- You are not permitted to communicate (email, phone, message, talk, ...) with anyone but COMP(2041|9044) staff during exam

- You are not permitted to get help from anyone but COMP(2041|9044) staff during the exam.

- This is a closed book exam:
  - you are not permitted to access papers, books, files on your computer or the internet, with the following exceptions
  - You are permitted to access your answers to COMP(2041|9044) tut & lab questions, weekly tests and assignments
  - You are permitted to course web pages including:
    - lecture slides & lecture code examples
    - sample solutions to tuts, labs & weekly tests.
  - You are permitted to access the exam web pages on the class web site
  - You are permitted to access the language documentation on the class web site

- Deliberate violation of exam conditions will be treated as serious misconduct

Exam Format

- roughly 12 questions

- Each questions answered in a separate file.

- Some questions will ask you to write shell.

    - or perhaps a shell pipeline

- Some questions will ask you to write Python.
    - Python questions will likely specify you can not run external commands
        - e.g. can not run `subprocess`
    - Python questions may specify you not use certain packages
        - e.g. can not import `requests`

- Other languages are not permitted (e.g., Perl, C, Java, Rust, …)

- Answers will be submitted with give.

- Questions not equal difficulty

- Questions may not be worth equal marks

- 21T1 COMP(2041|9044) Final Exam will be released by noon Monday at:
  https://cgi.cse.unsw.edu.au/~cs2041/22T2/exam/practice/questions

- Encouraged to complete it as a practice exam
  - under exam conditions & with time limit

- Autotests available

- don't need to give (no marks involved!)

- Sample answers will be released noon Monday Week 12

- 22T2 exam will use similar format similar for at least some questions

Non-coding Questions

- Answers must be an specified file, e.g. `q1.txt`

- Question may specify format of file
    - e.g. 5 integers one per line
    - follow this format **EXACTLY**

- Question may give you an initial file to complete

- File will be submitted with give.

Coding Questions

For question that require you to write Shell or Python …

- Questions will usually include examples.

- You may or may not be given starting code.

- You may or may not be given test data or other files

- 1 or more autotests may be available on submission.

- Passing autotests does not guarantee any marks.
  - do your own testing.

- There may be no submission tests for some questions.

- It is not sufficient to match any supplied examples.

Marking of Coding Questions

- Answers will be run through automatic marking software.
  - Please follow the input/output format shown exactly.
  - Please make your program behave exactly as specified.
- All answers are hand marked, guided by automarking.
  - No marks awarded for style or comments ...
  - But use decent formatting so the marker can read the program!
  - Comments only necessary to tell the marker something.
- Minor errors will result in only a small penalty.
  - e.g. an answer correct except for a missing semi-colon would receive almost full marks.
- No marks just for starting a question and writing general-purpose code
  - have to be solving part of the problem to get marks

Special Exam Conditions

- any extra time specified in your ELS exam conditions is allowed in this exam

- all student see the same exam questions text

- the text shows the standard exam deadline, any extra time is additional to it

- give should be configured to allow your extra time
  - give should show a deadline **including** your extra time
  - if it does not email `cs2041.exam@cse.unsw.edu.au`

- email `cs2041.exam@cse.unsw.edu.au` immediately during exam if you have have concerns regarding ELS conditions

- if ELS conditions prevent you taking exam, alternative will be supp

Exam On Same Day

- ~180 students have exams on the same day

- some have morning exams
    - we've moved the COMP(2041|9044) exam time later to give your recovery time

- a few have all day exams

- special considerations have advised they will not give special consideration for clashes with all day exams

Problems During Exam

- if a problem occurs during the exam, e.g. internet failure or hard problem
  - document the problem immediately, e.g. take screenshots
  - email **cs2041.exam@cse.unsw.edu.au immediately**

- for problem of short duration we may be able to give you extra time

- otherwise you'll need to apply for special consideration

Special Consideration — 'Fit to Sit'

- By starting the exam, you are saying
  `"I am well enough to sit it"`.

- If unwell befor exam, see a doctor, apply for Special Consideration.

- If you become unwell during the exam

    - email **cs2041.exam@cse.unsw.edu.au**
    - if you can't continue the exam you will need to see a doctor and apply for Special Consideration.

What to study

- Important Areas to Focus Your Study On
  - anything covered in a standard lab exercise
  - anything covered in a weekly test
  - anything covered by assignments (except hardest subset)
- Less Important Areas
  - challenge lab exercise
  - topics not covered in labs, tests or assignments
  - anything covered by hardest subset of assignment
  - may still be questions on these topics but not many

Provisional Results

- Exam marks will be made available via class webpage when marking is complete.

- We will send an email announcing this.

- Marking will probably take 10 days.

- You will receive marks for individual exam questions.

- You will have the opportunity to have marking reviewed.

- Final results will appear on myUNSW.

Supplementary Assessment

- UNSW supplementary exams are run centrally.

- Supplementary exams are for students who miss original exam due to illness/misadventure.

- If this is you — apply for special consideration.

- Lecturers & schools can not offer supps.

- Students with borderline results are not offered supps.
  ...except potential graduands

- Supp exams centrally timetabled for week of ???

- Similar format to final exam

- So many important things to learn: filters, regex, shell, Python …
    - not nearly enough time to cover everything well

- labs a lot of work
    - but a good way to understand the topics (agree?)
    - and you practised some really useful skills (agree?)

- assignments a **lot** of work
    - but really improved your shell/Python (agree?)
    - and gave you deep understanding of git/sed (agree?)

- Python coverage needs to be better organized and cater better to varying Python experience of students

- missing labs on linux tools
    - need lab exercises where you manipulate a linux system

- Online lecture meant we didn't get to meet each other

- Labs & tutes (do you agree?)

- Weekly Tests (do you agree?)

- Tutors

- Students

And that's all …

- Good Luck

- I hope what you've learnt in this course will be useful.

- I hope you get the mark you deserve.