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 ⇒ **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
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
21T2 COMP(2041|9044) Final Exam

- 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
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

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

if ELS conditions prevent you taking exam, alternative will be supp
- ~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
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 before the 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
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.
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.