

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

- 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 13:00
 - 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|COMP9044) 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 will likely specify you can not use external libraries
 - 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

- a small number of 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 before 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.