8/15/2020 COMP2521 Final Exam

COMP2521 Final Exam

The University of New South Wales

COMP2521 Data Structures & Algorithms Final Exam

[Instructions] [Website] [C] [Q1] [Q2] [Q3] [Q4] [Q5] [Q6] [Q7] [Q8]

The University of New South Wales

COMP2521 Data Structures & Algorithms Final Exam

Sat 15 August, 2020

- 1. Time Required: ~3 hours
- 2. Reading Time: as long as you like
- 3. Total number of questions: 8
- 4. Total marks available: 60
- 5. Questions are not of equal value.
- 6. Marks are shown on each question.

Read **all** of the instructions below before commencing. You will need to scroll until *End of Notes* to see everything

About the Exam duration:

- the exam will be open from 10am AEST Sat 15 August
- the exam will close at 10am AEST Sun 16 August.
- you can work on the exam any time during that period
- you should definitely start before 7am AEST Sun 16 August
- anything submitted after 10am AEST on Sunday will be ignored

About this Exam web-site:

- the Instructions and the Questions use one browser tab
- the C language info sheet has its own tab
- · browser tabs are created the first time you access a page
- · use the tabs to navigate once they're open

General Instructions:

- · Answer all questions.
- Questions are not worth equal marks.
- Questions may be answered in any order.
- Calculator apps (e.g. bc, xcalc) are available on your workstation.
- During the Exam, you must **not** communicate with other students

Data Structures & Algorithms

- · Answers to all questions are submitted online
 - for Q1, type your answer into the file stu.c (in the q1 directory)
 - for Q2, type your answer into the file gist.c (in the q2 directory)
 - for Q3..Q8, type your answer into the file with .txt suffix (e.g. q2.txt)
 - submit your answers using the give command
 - either use the Exam Qx pages in Webcms3
 - or copy the files to CSE and use give on the command line

If you believe that insufficient information has been provided to answer

a given question, then you should write any assumptions that you think are

necessary to complete the question and continue work from there. If the

assumptions are reasonable, you can still obtain full marks for the question.

Note that marks are awarded for primarily for working, not just for getting

the correct final answer. If you get an incorrect final answer in one part of

a question and use it in a later part of that question, it is still possible

to achieve full marks for the later part if all working is correct.

For the programming questions, you can only receive full marks for a

correctly-working program that compiles with no warnings. In all other

cases, you receive partial-marks based on how close the program

is to being correct.

Submitting an unchanged stu.c or gist.cis worth zero marks.

End of Notes