

[Instructions] [C language]  
[Q1] [Q2] [Q3] [Q4] [Q5] [Q6]

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# COMP9024 Sample Final Exam

**February 2019**

**Questions: 5**

**Marks: 50**

**Time: 3 hours**

Read **all** of the instructions below while you are waiting.  
You will most likely need to scroll to see everything.

## About this Exam web-site:

- the Instructions and the Questions use one browser tab
- note: all of the files for the practical questions were copied into your working directory when you logged in to the exam environment
- your working directory should contain template files (`q3.txt` to `q6.txt`) and two subdirectories (`q1` and `q2`) containing files for the practical questions

## Start-of-Exam Instructions:

- Switch off your laptop/phone.
- Place all laptops/phones/etc. off the desk (preferably in a bag).
- Place your student card on the desk.
- Fill in your name/id on the cover of the exam booklet
- *Wait* for the supervisor to tell you to start reading the questions.

## End-of-Exam Instructions:

- Stop typing when the supervisor tells you.
- Log out from your workstation.
- Take all of your belongings.
- Hand your exam booklet to the supervisor as you leave.

## General Instructions:

- Answer **all** questions.
- Questions may not be worth equal marks.
- Questions may be answered in any order.
- Answers must be submitted using the `submit` command
- Each question contains instructions on using `submit`
- all answers must be submitted online via the `submit` command
- Calculators/textbooks/notes/phones/laptops are **not** permitted.
- Calculator apps (e.g. `bc`, `xcalc`) are available on your workstation.
- During the Exam, you must **not**
  - communicate with other students in *any* way
  - access any of your own files
  - access any web pages except those attached to this web site

## Important:

- Note that marks are awarded primarily for your solution algorithm, not just for getting the correct final answer.
- For programming questions, you can only receive marks for a correctly-working program that compiles with no warnings.

If a question requires you to write a math formula, use the following conventions (which are easy to type in a `qX.txt` file):

Math	Written as ...
$x^n$	<code>x^n</code> or <code>pow(x, n)</code>
$x_i$	<code>x_n</code> or <code>x[i]</code>
$\log_k n$	<code>log_k(n)</code> or <code>log(k, n)</code>

**End of instructions.**

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