Assessment Brief for Programming in C –

2D Arrays (Binary Grid)

Unit name	Programming in C
Unit code	COMSM1201
Assessment number	2 (but 1st fully marked assessment)
Assessment name	2D Arrays (Binary Grid)
Assessment prepared by	Neill Campbell
Assessment type	Coursework
Credit value	**10%** of 30cp unit
Expected time to complete*	Less than 1 week, very approximately.
Submission format	Via Blackboard – **one** file. You can submit as often as you like, old files are automatically overwritten. I'll only mark your latest submission. Any submissions that are late (even by 1 second) are automatically given a late penalty; my feedback will not show this. Penalties are enforced by our systems not me!
Deadline	21st October 2022 (Friday afternoon, Week 4 @ 13:00)
Deliverable	Only one file : 1) A **single** file entitled *bingrid.c* 2) Make sure this is spelled correctly and has been compiled in a terminal on a lab machine without warnings.
Learning outcomes being assessed	• To be able to write a program, given a brief specification that compiles and executes correctly. • To be able to convert a simple algorithm into working code. • The ability to program in the C99 C standard, and in the style outlined in the house-style guidelines. • How to utilise, amongst others: 2D arrays, structures and pointers. • To be able to build a program from a suite of small, well tested functions. • To be able to debug simple programs on your own.
Assessment criteria	Conformance to the house-style guidelines, assert testing, short readable functions.
Additional resources	Previous week 3 exercises, including rule 110.
Support for this assignment	6 hours of labs in week 4.
Additional advice to students	Use house-style guidelines. Adapt my version of *bingrid_driver*.c so that it is much simpler to begin with. Write one function, test it thoroughly, then write the next. DO NOT wait until the end to do testing – it will be obvious and have had no impact on the style of the program. **If your code doesn't work, put a comment explaining this at the top, and submit it anyway – your style/structure is still worth marks.**
Feedback mode/method	Brief written feedback from Neill, and, additionally, at any time verbally during lab sessions.
Planned feedback date	Maybe as early as Friday week 6 (?)
Useful previous feedback	Peer Assignment
Future feedback use	Next assignment