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 Minesweeper)
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 called *ms.c*. 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 so I can't "ignore" them ☹
Deadline	20th October 2023 (Friday afternoon, Week 4 @ 13:00)
Deliverable	Only one file : 1) A **single** file entitled ms.*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 strings. • 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, array-boundary checking.
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 drv.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 (Search/Sort)