# 程序代写代做 CS编程辅导



The following is important information for the 2022 mid-semester examine (PMP2500) 100. This if the fair is required to complete some of the questions, please review this document prior to the exam (seriously, this is actually part of the exam, not practice questions).

Congratulations! You just got a job working on a new microentroller board Help called the messel gnment Project Exam Help

The **megabit** is a *lot* like the micro:bit, except that it's really big and so it has room for a much larger LED display. (25 x 25 LEDs).



Figure 1: The megabit is just like the microbit, but it's huge. (incl. image by RoseBox on Unsplash)

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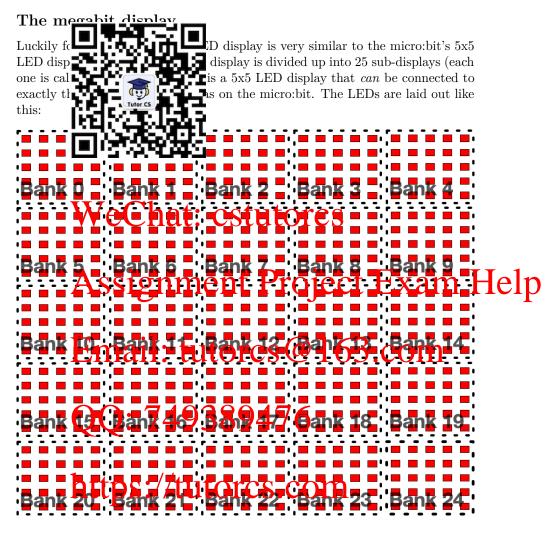


Figure 2: The megabit's 25 LED banks

### The display bank control register

The megabit has one extra memory mapped register used to switch between LED banks so that you can address every LED on the display.

The display bank control register (DBCR), is located at 0x50000600 (no offset). Bits 0-24 of this register connect the LED GPIO pins to the rows and columns of the corresponding LED banks when they are set. Bits 25-31 of the register have no effect.

Multiple banks can be controlled at once (so that the same row and column will be connected in each bank). The configuration of the DBCR can be summarised

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as follows		상태		
Access	SUMM	Value ID	Value	Description
RW				Bank i
		<b>D</b> isconnected	0	Bank is disconnected from GPIO
	Tutor CS	Connected	1	Bank is connected to GPIO
	INTLANTA	49 <del>4</del> 1		
Notos		<b>834</b> 5		

#### Notes

- Any GPIO pins that are high will be high on all connected banks.
- On banks that are not connected, all GPIO pins are low.
- The paper between the logistal the dwe and columns of each bank is the same as on the microbit. To summarise:

Row	GPIO Pin	Column	GPIO P	<del>_</del> in	<b>TT 1</b>
Asusig	mmen	tcoPro	1eet	Exam	Help
Row	P0.22	Col 2	<b>₽</b> 0.11		1
Row 3	P0.15	Col 3	P0.31		
Row 4	P0.24	Col 4	P1.05		
Enga 1	Po.tguto	res (a	)P). <b>6</b> 3	.com	

And remember that to light an LED, the row must be high and column must be low. OO: 749389476

### Example:

- 1. Bits 0, 3 and 8 are set in the DBCR, all other bits are clear.
- 2. Po DHUi 21Sind 28 have lead set S. CUT M
- 3. P0 OUT but 21 has been set to HIGH
- 4. The top left LED of banks 0, 3, and 8 will light up. All other LEDs are unlit.

### Thinking time:

- How would you implement your assignment 1 on the megabit?
- What impact would the DBCR have on controlling the LEDs?
- Are there any smart ways you can think of to control the LEDs that would save time in certain circumstances?