UNIVERSITY *of* SAN CARLOS

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COURSE: **CpE 1202L (Data Structures and Algorithms)**
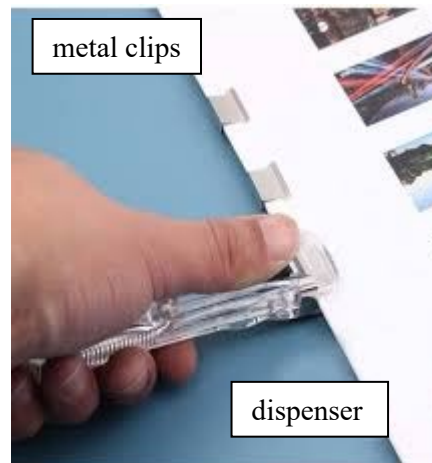RE   :   **MIDTERM EXAMS – PART 2**

INSTRUCTION:

Part 2 is good for two (2) hours only. Make sure to upload your project files in Canvas before the set deadline.
Give ample allowance in submitting/uploading your files to compensate for possible slow internet connection.
Late submissions would not be accepted once Canvas is closed.

Machine Problem. Using C language, create an app that would model the properties and basic behavior of the metal clip dispenser as shown below. **Design and choose the appropriate data structure as well as implement the essential algorithms to demonstrate the operational functionality of your metal clip dispenser.**

System Constraints.

- Each dispenser can load up to 5 metal clips.

- The dispenser may be of 3 sizes with 1.0 cm, 1.5 cm and 2.0 cm metal clip widths.

- The dispenser can be reloaded at any time if space allows.

metal clips

dispenser

Good luck!