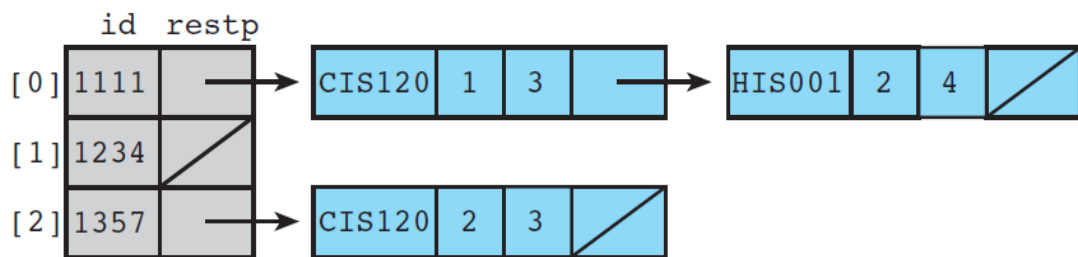


**Lab 11 - Out of Lab Assignment**

Due Saturday, May 01, 2021, 11:59 PM

Acknowledge your collaborators or source of solutions, if any. Do all of the following.

Question: Each student in the university may take a different number of courses, so the registrar has decided to use a linked list to store each student's class schedule and to use an array of structures to represent the whole student body. A portion of this data structure follows.



The records show that the first student (array element 0, id 1111) is taking Section 1 of CIS120 for 3 credits and Section 2 of HIS001 for 4 credits; the second student (array element 1, id 1234) is not enrolled, and so on.

Define the necessary data types for creating this structure.

Provide operators for creating the original array of student ID numbers, inserting a student's initial class schedule, adding a course, and dropping a course. Write a menu-driven main function to use this structure. Menu-driven main function can be something like this: After each operation that the user selects, it will show a menu and will wait for the user's input. Such as: 1-Add course, 2-Drop course, 3-Insert initial class schedule. When one menu is selected, the program should prompt for necessary inputs to accomplish that operation.