

## DSA Lab 3 Task

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### **Task:**

Design an ADT in C++ that stores a list of students having following functionalities:

1. Add new student
  - a. Beginning
  - b. End
  - c. **Given index (optional/not mandatory/bonus)**
2. Show all students
3. Search a student (by registration number and by name)
  - a. return index if element found
  - b. -1 otherwise
4. Delete a student
  - a. Prompt user to enter the registration number of student to be deleted
  - b. Use search method to find the index
  - c. Perform delete operation

Important Notes:

- ADT must use Linked List (Single, Double or Circular)
- Program must be menu driven