

Student Management Systems - Code Comparison and Notes

1. Student Grading System

- Base class: Person
- Derived class: Student with marks, average, and grade
- Features:
 - Add/search/modify/delete/sort students by average
 - File I/O to store name, roll number, and marks

2. Student Admission System

- Single class: Student with rollNo, name, course, and admissionDate
- Features:
 - Add/search/modify/delete students
 - File I/O with line-by-line reading/writing

3. Struct-Based Student Management (Incomplete)

- struct Student { int rollNumber; string name; float marks; }
- Code is incomplete and contains errors:
 - s.input(); and s.display(); are called, but Student is a struct and doesn't define these functions

4. Batch Version (Cut Off)

- Ends abruptly at: cout << "Enter student's name: ";
- Likely another version meant to track students with batch info

Suggestions

- Decide the purpose: combine features or explore independently
- Fix compilation issues in the struct version
- Unify file handling methods
- Modularize the code using separate files
- Add unique IDs to avoid duplicates