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#include <iostream>
#include <vector>
#include <string>
using namespace std;
class Student {
private:
    string name;
    int rollNumber;
    int marks;
    string grade;
    void calculateGrade() {
        if (marks >= 90) grade = "A";
        else if (marks >= 80) grade = "B";
else if (marks >= 70) grade = "C";
        else if (marks >= 60) grade = "D";
        else grade = "F";
public:
    Student(string name, int rollNumber, int marks) : name(name), rollNumber(rollNumber), marks(marks) {
       calculateGrade();
    void display() const {
        cout << "Name: " << name << "\nRoll Number: " << rollNumber << "\nMarks: " << marks << "\nGrade: " << grade << endl;
};
int main() {
    vector<Student> students;
    int numStudents;
    cout << "Enter number of students: ";</pre>
    cin >> numStudents;
    for (int i = 0; i < numStudents; ++i) {</pre>
        string name;
        int rollNumber, marks;
        cout << "\nEnter name of student " << (i + 1) << ": ";</pre>
        cin.ignore(); // to clear input buffer
        getline(cin, name);
        cout << "Enter roll number: ";</pre>
       cin >> rollNumber;
        cout << "Enter marks: ";</pre>
        cin >> marks;
        students.push_back(Student(name, rollNumber, marks));
    cout << "\nStudent Details:\n";</pre>
    for (const Student& student : students) {
        student.display();
    return 0;
```