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#include <iostream>
#include <string>
using namespace std;
// Base class Publication
class Publication {
protected:
    string title;
    float price;
public:
    // Default constructor
    Publication() : title(""), price(0.0) {}
    // Function to input data for Publication
    void inputData() {
        cout << "Enter title: ";</pre>
        cin.ignore(); // To ignore leftover newline from previous input
        getline(cin, title);
        cout << "Enter price: ";</pre>
        cin >> price;
    }
    // Function to display Publication data
    void displayData() {
   cout << "Title: " << title << endl;</pre>
        cout << "Price: " << price << endl;</pre>
    }
};
// Derived class Book
class Book : public Publication {
private:
    int pageCount;
public:
    // Default constructor
    Book() : pageCount(0) {}
    // Function to input data for Book
    void inputData() {
        Publication::inputData(); // Call the base class function
        cout << "Enter page count: ";</pre>
        cin >> pageCount;
    }
    // Function to display Book data
    void displayData() {
        Publication::displayData(); // Call the base class function
        cout << "Page count: " << pageCount << endl;</pre>
    }
};
// Derived class Tape
class Tape : public Publication {
private:
    float playingTime;
public:
```

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// Default constructor
    Tape() : playingTime(0.0) {}
    // Function to input data for Tape
    void inputData() {
        Publication::inputData(); // Call the base class function
        cout << "Enter playing time in minutes: ";</pre>
        cin >> playingTime;
    }
    // Function to display Tape data
    void displayData() {
        Publication::displayData(); // Call the base class function
        cout << "Playing time: " << playingTime << " minutes" << endl;</pre>
    }
};
int main() {
    try {
        Book book;
        Tape tape;
        // Input data for Book
        cout << "Enter data for Book:\n";</pre>
        book.inputData();
        // Input data for Tape
        cout << "\nEnter data for Tape:\n";</pre>
        tape.inputData();
        // Display data
        cout << "\nDisplaying data for Book:\n";</pre>
        book.displayData();
        cout << "\nDisplaying data for Tape:\n";</pre>
        tape.displayData();
    catch (...) {
        cout << "Exception caught! Resetting data to zero values." << endl;</pre>
        // Reset all data to zero
        Book book;
        Tape tape;
        book.displayData();
        tape.displayData();
    }
    return 0;
}
```