

SEARCH

RESOURCES

CONCEPTS

1. Classes and OOP

2. Bjarne On Classes In C++

3. Jupyter Notebooks

4. Structures

5. Member Initialization

6. Access Specifiers

7. Classes

8. Encapsulation and Abstraction

9. Bjarne on Encapsulation

10. Constructors

11. Scope Resolution

12. Initializer Lists

13. Initializing Constant Members

14. Encapsulation

15. Accessor Functions

16. Mutator Functions

17. Quiz: Classes In C++

18. Exercise: Pyramid Class

19. Exercise: Student Class

20. Encapsulation in C++

21. Bjarne On Abstraction

22. Abstraction

23. Exercise: Sphere Class

24. Exercise: Private Method

25. Exercise: Static Members

26. Exercise: Static Methods

27. Bjarne On Solving Problems

Constructor

Define a constructor for class `Date` that accepts a day, a month, and a year as arguments and assigns its member variables to the corresponding values.

In []: `#include <cassert>`

```
class Date {
public:
    Date(int d, int m, int y) {
        Day(d); //
        Month(m);
        Year(y);
    }
    int Day() { return day; }
    void Day(int d) {
        if (d >= 1 && d <= 31) day = d;
    }
    int Month() { return month; }
    void Month(int m) {
        if (m >= 1 && m <= 12) month = m;
    }
    int Year() { return year; }
    void Year(int y) { year = y; }

private:
    int day(1);
    int month(1);
    int year(0);
};

// Test in main
int main() {
    Date date(8, 29, 1981);
    assert(date.Day() == 8);
    assert(date.Month() == 29);
    assert(date.Year() == 1981);
}
```

Compile & Run

Explain

Loading terminal (id_zu0y01j), please wait...