

Scope_Resolution

May 8, 2020

1 Exercise: Scope Resolution

Define the `Date::Day`, `Date::Month`, and `Date::Year` functions that are declared in the class definition.

```
In [ ]: #include <cassert>

class Date {
public:
    int Day() const { return day; }
    void Day(int day);
    int Month() const { return month; }
    void Month(int month);
    int Year() const { return year; }
    void Year(int year);

private:
    int day{1};
    int month{1};
    int year{0};
};

// TODO: Define Date::Day(int day)
void Date::Day(int day){
    if (day >= 1 && day <= 31){
        this->day = day;
    }
}

// TODO: Define Date::Month(int month)
void Date::Month(int month){
    if (month >= 1 && month <= 12){
        this->month = month;
    }
}

// TODO: Define Date::Year(int year)
```

```
void Date::Year(int year){
    this->year = year;
}

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

Compile & Run

Explain

Loading terminal (id_8pahe0k), please wait...