

Constructors

May 7, 2020

1 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 <iostream>
        #include <cassert>
        using std::cout;

        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(29,8,1981);  
    assert(date.Day() == 29);  
    assert(date.Month() == 8);  
    assert(date.Year() == 1981);  
    cout<<date.Day()<<"/"<<date.Month()<<"/"<<date.Year()<<"\n";  
}
```

Compile & Run

Explain

Loading terminal (id_zu0y01j), please wait...