You are working on problem set: Project 4 (Pause)

Date

Language/Type: C++ classes

Write a class of objects named `Date` that remembers information about a month and day. Ignore leap years and don't store the year in your object. You must include the following public members:

member name	description
`Date(m, d)`	constructs a new date representing the given month and day
`daysInMonth()`	returns the number of days in the month stored by your date object
`getDay()`	returns the day
`getMonth()`	returns the month
`nextDay()`	advances the Date to the next day, wrapping to the next month and/or year if necessary
`toString()`	returns a string representation such as `"07/04"`

You should define the entire class including the class heading, the private member variables, and the declarations and definitions of all the public member functions and constructor.

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.

```cpp
class Date {
    private:
        int m, d;

    public:
        Date(){
            m = 0;
            d = 0;
        }

        Date(int month, int day){
            m = month;
            d = day;
        }

        int getDay(){
            return d;
        }

        int getMonth(){
            return m;
        }

        int daysInMonth(){
            switch (m) {
            case 2:
                return 28;
            case 4:
            case 6:
            case 9:
            case 11:
                return 30;
            default:
                return 31;
            }
        }

        void nextDay(){
            if(d < daysInMonth()) {
                d++;
            } else {

                d = 1;
                if(m != 12)
                    m++;
                else
                    m = 1;

            }
        }

```

```
52          string toString(){
53              string day = to_string(d);
54              string month = to_string(m);
55              if (d < 10){
56                  day = "0" + to_string(d);
57              }
58              if (m < 10){
59                  month = "0" + to_string(m);
60              }
61              string retstr = month + "/" + day;
62              return retstr;
63          }
64  };
```

Class: Write a complete C++ class.

Submit

You passed 8 of 8 tests.

test #1:	getDay/getMonth
assertion:	getDay result
value:	25
assertion:	getMonth result
value:	12
result:	pass

test #2:	toString 1
assertion:	toString result
value:	"12/25"
result:	pass

test #3:	toString 2
assertion:	toString result
value:	"09/04"
result:	pass

test #4:	daysInMonth
assertion:	daysInMonth 1
value:	31
assertion:	daysInMonth 2
value:	28
assertion:	daysInMonth 3
value:	31

assertion:	daysInMonth 4
value:	30
assertion:	daysInMonth 5
value:	31
assertion:	daysInMonth 6
value:	30
assertion:	daysInMonth 7
value:	31
assertion:	daysInMonth 8
value:	31
assertion:	daysInMonth 9
value:	30
assertion:	daysInMonth 10
value:	31
assertion:	daysInMonth 11
value:	30
assertion:	daysInMonth 12
value:	31
result:	pass

test #5:	nextDay 1: basic case
assertion:	10/14 state after nextDay
value:	"10/15"
result:	pass

test #6:	nextDay 2: wrap month
assertion:	10/31 state after nextDay
value:	"11/01"
result:	pass

test #7:	nextDay 3: wrap month 2
assertion:	6/30 state after nextDay
value:	"07/01"
result:	pass

test #8:	nextDay 4: wrap year
assertion:	12/31 state after nextDay
value:	"01/01"
result:	pass

Testing began at 2023/04/23 14:56 (PDT) and ran for 1248 ms.

Need help?

Stuck on an exercise? Contact your TA or instructor .

If something seems wrong with our site, please contact us.