

JUnit Exercise



Given a `Date` class with the following methods:

- `public Date(int year, int month, int day)`
- `public Date() // today`
- `public int getDay(), getMonth(), getYear()`
- `public void addDays(int days) // advances by days`
- `public int daysInMonth()`
- `public String dayOfWeek() // e.g. "Sunday"`
- `public boolean equals(Object o)`
- `public boolean isLeapYear()`
- `public void nextDay() // advances by 1 day`
- `public String toString()`

Come up with unit tests to check the following:

- That no `Date` object can ever get into an invalid state.
- That the `addDays` method works properly.
- Add other methods of your own choice and make the tests for them.

It should be efficient enough to add 1,000,000 days in a call.