Assignment for Lecture 12: Using Junit

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.

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