```java
/**
 * Analyse une date pour vérifier si elle est correcte.
 *
 * Version de base, facile à comprendre - avec la méthode isValid().
 *
 * @author     biech153 (Biersbach Chris) / gamca174 (Gamboa Carlos) / olial319 (Olinger Alex)
 * @version    07/02/2019 7:00:50
 * Classe:     3GIG
 */
public class AnalyseDate
{
     // La date "découpée" en ses trois parties
     private int day;
     private int month;
     private int year;

     public AnalyseDate(int pDay, int pMonth, int pYear)
     {
       day   = pDay;
       month = pMonth;
       year  = pYear;
     }

     public int getDay()
     {
          return day;
     }

     public int getMonth()
     {
          return month;
     }

     public int getYear()
     {
          return year;
     }

     public boolean isLeapYear()
     {
          boolean res = false;

          if (year % 4 == 0)
          {
               // année est divisible par 4
               if (year % 100 == 0)
               {
                    // année divisble par 100
                    if (year % 400 == 0)
                    {
                         // année divisble par 400
                         res = true;
                    }
                    else
                    {
                         // pas divisble par 400
                         res = false;
                    }
               }
               else
               {
                    // pas divisble par 100
                    res = true;
               }
          }
          else
          {
               // pas divisible par 4
               res = false;
          }

          return res;
     }



        // ... suite page suivante ...
```

```
    public boolean isValid()
    {
        boolean res = false;

        if ((year == 0) || (day < 1) || (day > 31) || (month < 1) || (month > 12))
        {
            res = false;
        }
        else
        {
            if ((day == 31) && ((month == 4) || (month == 6)|| (month == 9) || (month == 11)))
            {
                res = false;
            }
            else
            {
                if (month == 2)
                {
                    if (day >= 30)
                    {
                        res = false;
                    }
                    else
                    {
                        if (day == 29)
                        {
                            if (isLeapYear())
                            {
                                res = true;
                            }
                            else
                            {
                                res = false;
                            }
                        }
                        else
                        {
                            res = true;
                        }
                    }
                }
                else
                {
                    res = true;
                }
            }
        }

        return res;
    }

    public String toString()
    {
        String res;

        if (isValid())
        {
            // date valide... sous forme 1er février 2019 / 2 mars 2018
            String ending = "";
            String mName  = "";

            if (day == 1)
            {
                ending = "er";
            }

            if (month == 1)
            {
                mName = "janvier";
            }
            else
            {
                if (month == 2)
                {
                    mName = "février";
                }
                else
                {
                    if (month == 3)
                    {
                        mName = "mars";
                    }
```

```
                    else
                    {
                        if (month == 4)
                        {
                            mName = "avril";
                        }
                        else
                        {
                            if (month == 5)
                            {
                                mName = "mai";
                            }
                            else
                            {
                                if (month == 6)
                                {
                                    mName = "juin";
                                }
                                else
                                {
                                    if (month == 7)
                                    {
                                        mName = "juillet";
                                    }
                                    else
                                    {
                                        if (month == 8)
                                        {
                                            mName = "août";
                                        }
                                        else
                                        {
                                            if (month == 9)
                                            {
                                                mName = "septembre";
                                            }
                                            else
                                            {
                                                if (month == 10)
                                                {
                                                    mName = "octobre";
                                                }
                                                else
                                                {
                                                    if (month == 11)
                                                    {
                                                        mName = "novembre";
                                                    }
                                                    else
                                                    {
                                                        mName = "décembre";
                                                    }
                                                }
                                            }
                                        }
                                    }
                                }
                            }
                        }
                    }
                }
            }
            // on construit la date
            res = day+ending+" "+mName+" "+year;
        }
        else
        {
            // indique une date invalide
            res = "-- --- ---";
        }

        return res;
    }
}
```

```java
/**
 * Classe pour tester AnalyseDate.
 *
 * @author      biech153 (Biersbach Chris) / gamca174 (Gamboa Carlos) / olial319 (Olinger Alex)
 * @version     07/02/2019 7:00:50
 * Classe:      3GIG
 */
public class TestAnalyseDate
{
     /**
      * Programme principal.
      */
     public static void main(String[] args)
     {
          AnalyseDate d;

          // Tester années bissextiles (année suffit, pas besoin de varier ni les jours ni les mois)
          d = new AnalyseDate(1, 1, 1987);
          System.out.println("date "+d.getDay()+"."+d.getMonth()+"."+d.getYear()+" est bissextile: "+d.isLeapYear());
          d = new AnalyseDate(1, 1, 2000);
          System.out.println("date "+d.getDay()+"."+d.getMonth()+"."+d.getYear()+" est bissextile: "+d.isLeapYear());
          d = new AnalyseDate(1, 1, 2004);
          System.out.println("date "+d.getDay()+"."+d.getMonth()+"."+d.getYear()+" est bissextile: "+d.isLeapYear());
          d = new AnalyseDate(1, 1, 1900);
          System.out.println("date "+d.getDay()+"."+d.getMonth()+"."+d.getYear()+" est bissextile: "+d.isLeapYear());
          d = new AnalyseDate(1, 1, 1800);
          System.out.println("date "+d.getDay()+"."+d.getMonth()+"."+d.getYear()+" est bissextile: "+d.isLeapYear());
          d = new AnalyseDate(1, 1, 2015);
          System.out.println("date "+d.getDay()+"."+d.getMonth()+"."+d.getYear()+" est bissextile: "+d.isLeapYear());
          d = new AnalyseDate(1, 1, 2016);
          System.out.println("date "+d.getDay()+"."+d.getMonth()+"."+d.getYear()+" est bissextile: "+d.isLeapYear());

          System.out.println();
          System.out.println("----");
          System.out.println("JOURS valides / invalides");
          System.out.println();

          // Tester les jours invalides
          d = new AnalyseDate(-133, 1, 1987);
          System.out.println("date "+d.getDay()+"."+d.getMonth()+"."+d.getYear()+" -> "+d);
          d = new AnalyseDate(-1, 1, 1987);
          System.out.println("date "+d.getDay()+"."+d.getMonth()+"."+d.getYear()+" -> "+d);
          d = new AnalyseDate(0, 1, 1987);
          System.out.println("date "+d.getDay()+"."+d.getMonth()+"."+d.getYear()+" -> "+d);
          d = new AnalyseDate(1, 1, 1987);
          System.out.println("date "+d.getDay()+"."+d.getMonth()+"."+d.getYear()+" -> "+d);
          d = new AnalyseDate(31, 1, 1987);
          System.out.println("date "+d.getDay()+"."+d.getMonth()+"."+d.getYear()+" -> "+d);
          d = new AnalyseDate(32, 1, 1987);
          System.out.println("date "+d.getDay()+"."+d.getMonth()+"."+d.getYear()+" -> "+d);
          d = new AnalyseDate(45, 1, 1987);
          System.out.println("date "+d.getDay()+"."+d.getMonth()+"."+d.getYear()+" -> "+d);

          System.out.println();
          System.out.println("----");
          System.out.println("MOIS valides / invalides");
          System.out.println();

          // Tester les mois invalides
          d = new AnalyseDate(1, -133, 1987);
          System.out.println("date "+d.getDay()+"."+d.getMonth()+"."+d.getYear()+" -> "+d);
          d = new AnalyseDate(1, -1, 1987);
          System.out.println("date "+d.getDay()+"."+d.getMonth()+"."+d.getYear()+" -> "+d);
          d = new AnalyseDate(1, 0, 1987);
          System.out.println("date "+d.getDay()+"."+d.getMonth()+"."+d.getYear()+" -> "+d);
          d = new AnalyseDate(1, 1, 1987);
          System.out.println("date "+d.getDay()+"."+d.getMonth()+"."+d.getYear()+" -> "+d);
          d = new AnalyseDate(1, 12, 1987);
          System.out.println("date "+d.getDay()+"."+d.getMonth()+"."+d.getYear()+" -> "+d);
          d = new AnalyseDate(1, 13, 1987);
          System.out.println("date "+d.getDay()+"."+d.getMonth()+"."+d.getYear()+" -> "+d);
          d = new AnalyseDate(1, 25, 1987);
          System.out.println("date "+d.getDay()+"."+d.getMonth()+"."+d.getYear()+" -> "+d);

          System.out.println();
          System.out.println("----");
          System.out.println("ANNÉES valides / invalides");
          System.out.println();

          // Tester les années invalides
          d = new AnalyseDate(1, 1, -13443);
          System.out.println("date "+d.getDay()+"."+d.getMonth()+"."+d.getYear()+" -> "+d);
```

```
        d = new AnalyseDate(1, 1, -1);
        System.out.println("date "+d.getDay()+"."+d.getMonth()+"."+d.getYear()+" -> "+d);
        d = new AnalyseDate(1, 1, 0);
        System.out.println("date "+d.getDay()+"."+d.getMonth()+"."+d.getYear()+" -> "+d);
        d = new AnalyseDate(1, 1, 1);
        System.out.println("date "+d.getDay()+"."+d.getMonth()+"."+d.getYear()+" -> "+d);
        d = new AnalyseDate(1, 1, 1987);
        System.out.println("date "+d.getDay()+"."+d.getMonth()+"."+d.getYear()+" -> "+d);

        System.out.println();
        System.out.println("----");
        System.out.println();

        // Tester chaque mois

        System.out.println();
        System.out.println("JANVIER");
        System.out.println();

        d = new AnalyseDate(28, 1, 2004);
        System.out.println("date "+d.getDay()+"."+d.getMonth()+"."+d.getYear()+" -> "+d);
        d = new AnalyseDate(29, 1, 2004);
        System.out.println("date "+d.getDay()+"."+d.getMonth()+"."+d.getYear()+" -> "+d);
        d = new AnalyseDate(30, 1, 2004);
        System.out.println("date "+d.getDay()+"."+d.getMonth()+"."+d.getYear()+" -> "+d);
        d = new AnalyseDate(31, 1, 2004);
        System.out.println("date "+d.getDay()+"."+d.getMonth()+"."+d.getYear()+" -> "+d);

        d = new AnalyseDate(28, 1, 2013);
        System.out.println("date "+d.getDay()+"."+d.getMonth()+"."+d.getYear()+" -> "+d);
        d = new AnalyseDate(29, 1, 2013);
        System.out.println("date "+d.getDay()+"."+d.getMonth()+"."+d.getYear()+" -> "+d);
        d = new AnalyseDate(30, 1, 2013);
        System.out.println("date "+d.getDay()+"."+d.getMonth()+"."+d.getYear()+" -> "+d);
        d = new AnalyseDate(31, 1, 2013);
        System.out.println("date "+d.getDay()+"."+d.getMonth()+"."+d.getYear()+" -> "+d);

        System.out.println();
        System.out.println("FÉVRIER");
        System.out.println();

        d = new AnalyseDate(28, 2, 2004);
        System.out.println("date "+d.getDay()+"."+d.getMonth()+"."+d.getYear()+" -> "+d);
        d = new AnalyseDate(29, 2, 2004);
        System.out.println("date "+d.getDay()+"."+d.getMonth()+"."+d.getYear()+" -> "+d);
        d = new AnalyseDate(30, 2, 2004);
        System.out.println("date "+d.getDay()+"."+d.getMonth()+"."+d.getYear()+" -> "+d);
        d = new AnalyseDate(31, 2, 2004);
        System.out.println("date "+d.getDay()+"."+d.getMonth()+"."+d.getYear()+" -> "+d);

        d = new AnalyseDate(28, 2, 2013);
        System.out.println("date "+d.getDay()+"."+d.getMonth()+"."+d.getYear()+" -> "+d);
        d = new AnalyseDate(29, 2, 2013);
        System.out.println("date "+d.getDay()+"."+d.getMonth()+"."+d.getYear()+" -> "+d);
        d = new AnalyseDate(30, 2, 2013);
        System.out.println("date "+d.getDay()+"."+d.getMonth()+"."+d.getYear()+" -> "+d);
        d = new AnalyseDate(31, 2, 2013);
        System.out.println("date "+d.getDay()+"."+d.getMonth()+"."+d.getYear()+" -> "+d);

        System.out.println();
        System.out.println("MARS");
        System.out.println();

        d = new AnalyseDate(28, 3, 2004);
        System.out.println("date "+d.getDay()+"."+d.getMonth()+"."+d.getYear()+" -> "+d);
        d = new AnalyseDate(29, 3, 2004);
        System.out.println("date "+d.getDay()+"."+d.getMonth()+"."+d.getYear()+" -> "+d);
        d = new AnalyseDate(30, 3, 2004);
        System.out.println("date "+d.getDay()+"."+d.getMonth()+"."+d.getYear()+" -> "+d);
        d = new AnalyseDate(31, 3, 2004);
        System.out.println("date "+d.getDay()+"."+d.getMonth()+"."+d.getYear()+" -> "+d);

        d = new AnalyseDate(28, 3, 2013);
        System.out.println("date "+d.getDay()+"."+d.getMonth()+"."+d.getYear()+" -> "+d);
        d = new AnalyseDate(29, 3, 2013);
        System.out.println("date "+d.getDay()+"."+d.getMonth()+"."+d.getYear()+" -> "+d);
        d = new AnalyseDate(30, 3, 2013);
        System.out.println("date "+d.getDay()+"."+d.getMonth()+"."+d.getYear()+" -> "+d);
        d = new AnalyseDate(31, 3, 2013);
        System.out.println("date "+d.getDay()+"."+d.getMonth()+"."+d.getYear()+" -> "+d);

        System.out.println();
```

```
        System.out.println("AVRIL");
        System.out.println();

        d = new AnalyseDate(28, 4, 2004);
        System.out.println("date "+d.getDay()+"."+d.getMonth()+"."+d.getYear()+" -> "+d);
        d = new AnalyseDate(29, 4, 2004);
        System.out.println("date "+d.getDay()+"."+d.getMonth()+"."+d.getYear()+" -> "+d);
        d = new AnalyseDate(30, 4, 2004);
        System.out.println("date "+d.getDay()+"."+d.getMonth()+"."+d.getYear()+" -> "+d);
        d = new AnalyseDate(31, 4, 2004);
        System.out.println("date "+d.getDay()+"."+d.getMonth()+"."+d.getYear()+" -> "+d);

        d = new AnalyseDate(28, 4, 2013);
        System.out.println("date "+d.getDay()+"."+d.getMonth()+"."+d.getYear()+" -> "+d);
        d = new AnalyseDate(29, 4, 2013);
        System.out.println("date "+d.getDay()+"."+d.getMonth()+"."+d.getYear()+" -> "+d);
        d = new AnalyseDate(30, 4, 2013);
        System.out.println("date "+d.getDay()+"."+d.getMonth()+"."+d.getYear()+" -> "+d);
        d = new AnalyseDate(31, 4, 2013);
        System.out.println("date "+d.getDay()+"."+d.getMonth()+"."+d.getYear()+" -> "+d);

        System.out.println();
        System.out.println("MAI");
        System.out.println();

        d = new AnalyseDate(28, 5, 2004);
        System.out.println("date "+d.getDay()+"."+d.getMonth()+"."+d.getYear()+" -> "+d);
        d = new AnalyseDate(29, 5, 2004);
        System.out.println("date "+d.getDay()+"."+d.getMonth()+"."+d.getYear()+" -> "+d);
        d = new AnalyseDate(30, 5, 2004);
        System.out.println("date "+d.getDay()+"."+d.getMonth()+"."+d.getYear()+" -> "+d);
        d = new AnalyseDate(31, 5, 2004);
        System.out.println("date "+d.getDay()+"."+d.getMonth()+"."+d.getYear()+" -> "+d);

        d = new AnalyseDate(28, 5, 2013);
        System.out.println("date "+d.getDay()+"."+d.getMonth()+"."+d.getYear()+" -> "+d);
        d = new AnalyseDate(29, 5, 2013);
        System.out.println("date "+d.getDay()+"."+d.getMonth()+"."+d.getYear()+" -> "+d);
        d = new AnalyseDate(30, 5, 2013);
        System.out.println("date "+d.getDay()+"."+d.getMonth()+"."+d.getYear()+" -> "+d);
        d = new AnalyseDate(31, 5, 2013);
        System.out.println("date "+d.getDay()+"."+d.getMonth()+"."+d.getYear()+" -> "+d);

        System.out.println();
        System.out.println("JUIN");
        System.out.println();

        d = new AnalyseDate(28, 6, 2004);
        System.out.println("date "+d.getDay()+"."+d.getMonth()+"."+d.getYear()+" -> "+d);
        d = new AnalyseDate(29, 6, 2004);
        System.out.println("date "+d.getDay()+"."+d.getMonth()+"."+d.getYear()+" -> "+d);
        d = new AnalyseDate(30, 6, 2004);
        System.out.println("date "+d.getDay()+"."+d.getMonth()+"."+d.getYear()+" -> "+d);
        d = new AnalyseDate(31, 6, 2004);
        System.out.println("date "+d.getDay()+"."+d.getMonth()+"."+d.getYear()+" -> "+d);

        d = new AnalyseDate(28, 6, 2013);
        System.out.println("date "+d.getDay()+"."+d.getMonth()+"."+d.getYear()+" -> "+d);
        d = new AnalyseDate(29, 6, 2013);
        System.out.println("date "+d.getDay()+"."+d.getMonth()+"."+d.getYear()+" -> "+d);
        d = new AnalyseDate(30, 6, 2013);
        System.out.println("date "+d.getDay()+"."+d.getMonth()+"."+d.getYear()+" -> "+d);
        d = new AnalyseDate(31, 6, 2013);
        System.out.println("date "+d.getDay()+"."+d.getMonth()+"."+d.getYear()+" -> "+d);

        System.out.println();
        System.out.println("JUILLET");
        System.out.println();

        d = new AnalyseDate(28, 7, 2004);
        System.out.println("date "+d.getDay()+"."+d.getMonth()+"."+d.getYear()+" -> "+d);
        d = new AnalyseDate(29, 7, 2004);
        System.out.println("date "+d.getDay()+"."+d.getMonth()+"."+d.getYear()+" -> "+d);
        d = new AnalyseDate(30, 7, 2004);
        System.out.println("date "+d.getDay()+"."+d.getMonth()+"."+d.getYear()+" -> "+d);
        d = new AnalyseDate(31, 7, 2004);
        System.out.println("date "+d.getDay()+"."+d.getMonth()+"."+d.getYear()+" -> "+d);

        d = new AnalyseDate(28, 7, 2013);
        System.out.println("date "+d.getDay()+"."+d.getMonth()+"."+d.getYear()+" -> "+d);
        d = new AnalyseDate(29, 7, 2013);
        System.out.println("date "+d.getDay()+"."+d.getMonth()+"."+d.getYear()+" -> "+d);
```

```
d = new AnalyseDate(30, 7, 2013);
System.out.println("date "+d.getDay()+"."+d.getMonth()+"."+d.getYear()+" -> "+d);
d = new AnalyseDate(31, 7, 2013);
System.out.println("date "+d.getDay()+"."+d.getMonth()+"."+d.getYear()+" -> "+d);

System.out.println();
System.out.println("AOÛT");
System.out.println();

d = new AnalyseDate(28, 8, 2004);
System.out.println("date "+d.getDay()+"."+d.getMonth()+"."+d.getYear()+" -> "+d);
d = new AnalyseDate(29, 8, 2004);
System.out.println("date "+d.getDay()+"."+d.getMonth()+"."+d.getYear()+" -> "+d);
d = new AnalyseDate(30, 8, 2004);
System.out.println("date "+d.getDay()+"."+d.getMonth()+"."+d.getYear()+" -> "+d);
d = new AnalyseDate(31, 8, 2004);
System.out.println("date "+d.getDay()+"."+d.getMonth()+"."+d.getYear()+" -> "+d);

d = new AnalyseDate(28, 8, 2013);
System.out.println("date "+d.getDay()+"."+d.getMonth()+"."+d.getYear()+" -> "+d);
d = new AnalyseDate(29, 8, 2013);
System.out.println("date "+d.getDay()+"."+d.getMonth()+"."+d.getYear()+" -> "+d);
d = new AnalyseDate(30, 8, 2013);
System.out.println("date "+d.getDay()+"."+d.getMonth()+"."+d.getYear()+" -> "+d);
d = new AnalyseDate(31, 8, 2013);
System.out.println("date "+d.getDay()+"."+d.getMonth()+"."+d.getYear()+" -> "+d);

System.out.println();
System.out.println("SEPTEMBRE");
System.out.println();

d = new AnalyseDate(28, 9, 2004);
System.out.println("date "+d.getDay()+"."+d.getMonth()+"."+d.getYear()+" -> "+d);
d = new AnalyseDate(29, 9, 2004);
System.out.println("date "+d.getDay()+"."+d.getMonth()+"."+d.getYear()+" -> "+d);
d = new AnalyseDate(30, 9, 2004);
System.out.println("date "+d.getDay()+"."+d.getMonth()+"."+d.getYear()+" -> "+d);
d = new AnalyseDate(31, 9, 2004);
System.out.println("date "+d.getDay()+"."+d.getMonth()+"."+d.getYear()+" -> "+d);

d = new AnalyseDate(28, 9, 2013);
System.out.println("date "+d.getDay()+"."+d.getMonth()+"."+d.getYear()+" -> "+d);
d = new AnalyseDate(29, 9, 2013);
System.out.println("date "+d.getDay()+"."+d.getMonth()+"."+d.getYear()+" -> "+d);
d = new AnalyseDate(30, 9, 2013);
System.out.println("date "+d.getDay()+"."+d.getMonth()+"."+d.getYear()+" -> "+d);
d = new AnalyseDate(31, 9, 2013);
System.out.println("date "+d.getDay()+"."+d.getMonth()+"."+d.getYear()+" -> "+d);

System.out.println();
System.out.println("OCTOBRE");
System.out.println();

d = new AnalyseDate(28, 10, 2004);
System.out.println("date "+d.getDay()+"."+d.getMonth()+"."+d.getYear()+" -> "+d);
d = new AnalyseDate(29, 10, 2004);
System.out.println("date "+d.getDay()+"."+d.getMonth()+"."+d.getYear()+" -> "+d);
d = new AnalyseDate(30, 10, 2004);
System.out.println("date "+d.getDay()+"."+d.getMonth()+"."+d.getYear()+" -> "+d);
d = new AnalyseDate(31, 10, 2004);
System.out.println("date "+d.getDay()+"."+d.getMonth()+"."+d.getYear()+" -> "+d);

d = new AnalyseDate(28, 10, 2013);
System.out.println("date "+d.getDay()+"."+d.getMonth()+"."+d.getYear()+" -> "+d);
d = new AnalyseDate(29, 10, 2013);
System.out.println("date "+d.getDay()+"."+d.getMonth()+"."+d.getYear()+" -> "+d);
d = new AnalyseDate(30, 10, 2013);
System.out.println("date "+d.getDay()+"."+d.getMonth()+"."+d.getYear()+" -> "+d);
d = new AnalyseDate(31, 10, 2013);
System.out.println("date "+d.getDay()+"."+d.getMonth()+"."+d.getYear()+" -> "+d);

System.out.println();
System.out.println("NOVEMBRE");
System.out.println();

d = new AnalyseDate(28, 11, 2004);
System.out.println("date "+d.getDay()+"."+d.getMonth()+"."+d.getYear()+" -> "+d);
d = new AnalyseDate(29, 11, 2004);
System.out.println("date "+d.getDay()+"."+d.getMonth()+"."+d.getYear()+" -> "+d);
d = new AnalyseDate(30, 11, 2004);
System.out.println("date "+d.getDay()+"."+d.getMonth()+"."+d.getYear()+" -> "+d);
d = new AnalyseDate(31, 11, 2004);
```

```
        System.out.println("date "+d.getDay()+"."+d.getMonth()+"."+d.getYear()+" -> "+d);

        d = new AnalyseDate(28, 11, 2013);
        System.out.println("date "+d.getDay()+"."+d.getMonth()+"."+d.getYear()+" -> "+d);
        d = new AnalyseDate(29, 11, 2013);
        System.out.println("date "+d.getDay()+"."+d.getMonth()+"."+d.getYear()+" -> "+d);
        d = new AnalyseDate(30, 11, 2013);
        System.out.println("date "+d.getDay()+"."+d.getMonth()+"."+d.getYear()+" -> "+d);
        d = new AnalyseDate(31, 11, 2013);
        System.out.println("date "+d.getDay()+"."+d.getMonth()+"."+d.getYear()+" -> "+d);

        System.out.println();
        System.out.println("DÉCEMBRE");
        System.out.println();

        d = new AnalyseDate(28, 12, 2004);
        System.out.println("date "+d.getDay()+"."+d.getMonth()+"."+d.getYear()+" -> "+d);
        d = new AnalyseDate(29, 12, 2004);
        System.out.println("date "+d.getDay()+"."+d.getMonth()+"."+d.getYear()+" -> "+d);
        d = new AnalyseDate(30, 12, 2004);
        System.out.println("date "+d.getDay()+"."+d.getMonth()+"."+d.getYear()+" -> "+d);
        d = new AnalyseDate(31, 12, 2004);
        System.out.println("date "+d.getDay()+"."+d.getMonth()+"."+d.getYear()+" -> "+d);

        d = new AnalyseDate(28, 12, 2013);
        System.out.println("date "+d.getDay()+"."+d.getMonth()+"."+d.getYear()+" -> "+d);
        d = new AnalyseDate(29, 12, 2013);
        System.out.println("date "+d.getDay()+"."+d.getMonth()+"."+d.getYear()+" -> "+d);
        d = new AnalyseDate(30, 12, 2013);
        System.out.println("date "+d.getDay()+"."+d.getMonth()+"."+d.getYear()+" -> "+d);
        d = new AnalyseDate(31, 12, 2013);
        System.out.println("date "+d.getDay()+"."+d.getMonth()+"."+d.getYear()+" -> "+d);
    }
}
```