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package tp4;

import java.util.Calendar;

/**
 *
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 */
public class Date {

    // va de 1 à 31 max
    private int jour;

    private int jourSemaine;

    // va de 0 à 11
    private int mois;
    private int annee;
    private static boolean affichageCourt = false;

    public Date() {
        Calendar cal = Calendar.getInstance();

        jour = cal.get(Calendar.DAY_OF_MONTH);
        mois = cal.get(Calendar.MONTH);
        annee = cal.get(Calendar.YEAR);
        jourSemaine = cal.get(Calendar.DAY_OF_WEEK);

        this.normalise();
    }

    public Date(int j, int m, int a) {
        jour = j;
        mois = m - 1;
        annee = a;

        Calendar cal = dateToCalendar();
        jourSemaine = cal.get(Calendar.DAY_OF_WEEK);

        this.normalise();
    }

    public void anneeProchaine() {
        annee += 1;
    }
}
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        this.normalise();
    }

    public void moisProchain() {
        mois += 1;
        this.normalise();
    }

    public void jourProchain() {
        jour += 1;
        this.normalise();
    }

    private void normalise() {
        calendarToDate(dateToCalendar());
    }

    private Calendar dateToCalendar() {
        Calendar cal = Calendar.getInstance();
        cal.set(Calendar.YEAR, annee);
        cal.set(Calendar.MONTH, mois);
        cal.set(Calendar.DAY_OF_MONTH, jour);

        return cal;
    }

    private void calendarToDate(Calendar c) {
        jour = c.get(Calendar.DAY_OF_MONTH);
        mois = c.get(Calendar.MONTH);
        annee = c.get(Calendar.YEAR);
        jourSemaine = c.get(Calendar.DAY_OF_WEEK);
    }

    public String chaineDuJour(int jour) {
        return Jour.values()[jour - 1].toString();
    }

    public String chaineDuMois(int mois) {
        return Mois.values()[mois].toString();
    }

    public void affichageCourt(boolean mode) {
        affichageCourt = mode;
    }

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@Override
public String toString() {
    if (affichageCourt) {
        return jour + "/" + (mois + 1) + "/" + annee;
    } else {
        return chaineDuJour(jourSemaine) + " " + jour + " "
            + chaineDuMois(mois) + " " + annee;
    }
}
}
```