```java
public class Month {
    private int name;
    private int days;

    public Month(int name){
        setMonth(name);
    }

    public int getName(){
        return (name);
    }

    public int getDays(){
        return (days);
    }

    public void setMonth(int name){
        this.name = name;
        if (name == 9 || name == 4 || name == 6 || name == 11)
            days = 30;
        else if(name == 2)
            days = 28;
        else
            days = 31;
    }

    public String toString(){
        return(this.convertToString() + " has " + days + " days in it.");
    }

    private String convertToString(){
        switch (name) {
      case 1:  return  "January";
      case 2:  return  "February";
      case 3:  return  "March";
      case 4:  return  "April";
      case 5:  return  "May";
      case 6:  return  "June";
      case 7:  return  "July";
      case 8:  return  "August";
      case 9:  return  "September";
      case 10: return  "October";
      case 11: return  "November";
      case 12: return  "December";

      default: return  "Invalid month";
        }
    }
}
```

```java
50   public class SchoolMonth extends Month {
51        private boolean holidays; //are there any holidays in this month?
52        private char semester; //'F'all, 'S'pring, s'U'mmer
53
54        public SchoolMonth(int name){
55              super(name);
56              setSemester();
57              setHolidays();
58        }
59
60        public boolean containsHolidays(){
61              return holidays;
62        }
63
64        public void setSemester(){
65              if (getName() > 7) // Aug - Dec
66                    semester = 'F';
67              else if(getName() > 4) // May - July
68                    semester = 'U';
69              else
70                    semester = 'S'; // Jan - April
71        }
72
73        public void setHolidays(){
74              if (getName() != 3 && getName() !=4 && getName() != 6 && getName() !=8)
75                    holidays = true;
76        }
77
78        public String toString(){
79              return (super.toString() + " It is in the " + semester + "
80              semester.");
81        }
82
83   }
```