Lab 2.1 Solutions

1. Implemented solution is under is the Java Project Lab2.1 that is stored under folder Solutions/Q1-Solution

2. Implemented solution is under is the Java Project Lab2.2 that is stored under folder Solutions/Q2-Solution

   Regarding the implementation of the method `diffInYears(),` it is OK if you only implemented a solution that takes the difference in the years returning negative or positive result. A similar implementation is also in the source code in the Java project Lab2.2 (but commented out).

```java
public int diffInYears(Date date) {
      return(date.year - this.year);
}
```

   Alternatively, you could have also implemented a more precise solution as follows:

```java
public int diffInYears(Date date) {
      Date date1 = this;
      Date date2 = date;

      if (date.getYear() - this.getYear() < 0) {
            date1 = date;
            date2 = this;
      }

      int date_month = date2.getMonth();
      int date_year = date2.getYear();

      // If difference between "day" values of two dates is negative
      // reduce "date_month" by 1
      if(date2.getDay() - date1.getDay() < 0)
            date_month--;


      // If difference between "month" values of two dates is negative
      // reduce "date_year"by 1
      if(date_month - date1.getMonth() < 0)
            date_year--;


      return (date_year - date1.getYear());
}
```