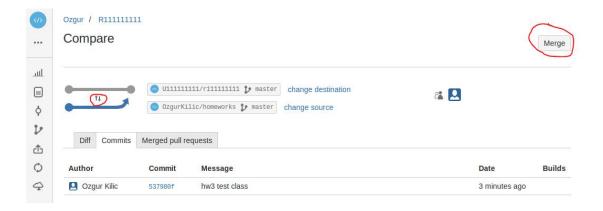
Homework 4: MyDate class

In this homework, you will implement MyDate class. This class is used to represent a specific date in time. It has also methods to update the date and compare the date with another date as shown in the following test class (Main.java). You are given the following Main class which will be used to test the behaviour of your implementation.

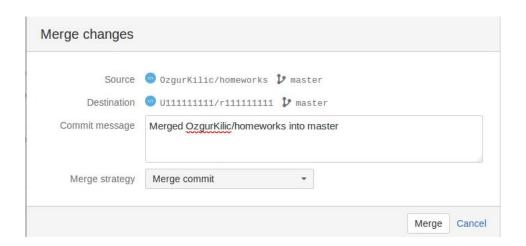
```
public class Main {
    public static void main(String[] args) {
        MyDate date = new MyDate(28,2,2017);
        String strRep = date.toString();
        System.out.println(strRep);
        //Expected output: 2017-02-28
        date.incrementDay();
        System.out.println(date.toString());
        //Expected output: 2017-03-01
        date.incrementYear(3);
        System.out.println(date.toString());
        //Expected output: 2020-03-01
        date.decrementDay();
        System.out.println(date.toString());
        //Expected output: 2020-02-29
        date.decrementYear();
        System.out.println(date.toString());
        //Expected output: 2019-02-28
        date.decrementMonth();
        System.out.println(date.toString());
        //Expected output: 2019-01-28
        date.incrementDay(3);
        System.out.println(date.toString());
        //Expected output: 2019-01-31
```

```
date.decrementMonth(2);
        System.out.println(date.toString());
        //Expected output: 2018-11-30
       date.decrementDay(30);
        System.out.println(date.toString());
        //Expected output: 2018-10-31
       date.incrementMonth(16);
        System.out.println(date.toString());
        //Expected output: 2020-02-29
       date.decrementYear(4);
        System.out.println(date.toString());
        //Expected output: 2016-02-29
       date.incrementMonth();
        System.out.println(date.toString());
        //Expected output: 2016-03-29
        date.incrementYear();
        System.out.println(date.toString());
        //Expected output: 2017-03-29
       MyDate anotherDate = new MyDate(28,2,2017);
       boolean before = date.isBefore(anotherDate);
        System.out.println(date.toString()+ " is before " + anotherDate.toString()+ " : " + before);
        // \text{Expected output: } 2017-03-29 \text{ is before } 2017-02-28 \text{ : false}
       boolean after = date.isAfter(anotherDate);
        System.out.println(date.toString()+ " is after " + anotherDate.toString()+ " : " + after);
        //Expected output: 2017-03-29 is after 2017-02-28 : true
        int dayDiff = date.dayDifference(anotherDate);
        System.out.println("Day difference between " + date.toString() + " and " + anotherDate.toString() +
is " + dayDiff);
        // \text{Expected} output: Day difference between 2017-03-29 and 2017-02-28 is 29
   }
```

Main.java is available in OzgurKilic/homeworks repository. You can merge this repository with your homework (R*******) repository in a similar way describe in the setup section of Lab2.pdf. While merging with your homework repository, be sure that OzgurKilic/homeworks is the source repository (you should click the arrows button for this). Then click the Merge button.



Next click the Merge button in the dialog.



To download the Main.java to your computer. Execute the "git pull" command in the hw4 directory.

Note that in your implementation you are not allowed to use any Date or Calendar class available in java or in any library.

Due date: 05.03.2018 13:30

Submission:

Submit your homework as defined in HomeworkSubmission document. Your java file should be located in the "hw4" directory in your repository. Failing in any step described in the document may affect your grade. The document is available in the Homework section of the Resources tab of the course piazza web page.