

## Q4.

For this problem you need to read data **from the text file** and do some operations on dates.

You should implement 3 functions by yourself in class calculator:

1. Open the file and read all pairs of dates **from the file**.
2. Add days at the date.
3. Minus days at the date.

You need to consider that February has 29 days in the leap year.

**You have to implement it yourself and cannot use relevant C++ libraries. E.g. ctime.**

### Input Format

Each line contains an operator, a date and a number of days in the file.

The date of the test data is in the range of [1970/01/01, 2024/12/31].

You need to add or minus the number of days at the date according to the operator.

E.g. 2020/01/31 + 1 means the date is 2020/01/31, and you need to add 1 day.

E.g. 2020/01/31 - 1 means the date is 2020/01/31, and you need to minus 1 day.

### Output Format

Print the result of the calculation.

The format of the date needs to satisfy xxxx/xx/xx, where 'x' presents a number.

E.g. if the result is 2001/1/1, you need to show 2001/01/01.

### Sample Input

```
2000/01/01 + 299
2020/10/31 - 213
2011/10/01 - 31
2003/10/04 + 365
1990/08/25 + 7
```

### Sample Output

```
2000/10/26
2020/04/01
2011/08/31
2004/10/03
1990/09/01
```