

Q5.

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

You should implement the following functions by yourself within the class:

1. Open the file and read all dates **from the file**.
2. Add two time values. (+)
3. Subtract two time values. If the result is smaller than zero, set the result to zero. (−)
4. Check whether the two time values are equal. (=)
5. Check whether the two time values are not equal. (!)
6. Print out the time value.

You must use **operator overloading** to implement.

You must use the template to do this lab.

Input Format

Each line contains an operator, and two times in the file.

You need to calculate the time according to the operator.

The numerical value at the hourly position does not exceed 48.

E.g. 00:00:00 + 12:34:50 means the time is 00:00:00, and you need to add 12:34:50.

Output Format

Print the result of the operation.

The format of the time needs to satisfy xx:xx:xx, where 'x' presents a number.

E.g. If the result of the computation is 12:34:50, you need to show 12:34:50.

The format of the boolean value needs to be "True" or "False".

Sample Input

```
00:00:00 + 12:34:50
23:59:59 + 23:59:59
12:30:00 − 00:50:00
12:30:00 − 12:40:00
23:59:59 = 23:59:59
00:00:00 ! 11:45:14
```

Sample Output

```
12:34:50
47:59:58
11:40:00
00:00:00
True
True
```