

## 2787 - Dates II

### Description

Working with dates is very common these days. Leap years are well known too. Every year that is exactly divisible by four is a leap year, except for years that are exactly divisible by 100. The centurial years that are exactly divisible by 400 are still leap years. For example, the year 1900 is not a leap year; the year 2000 is a leap year.

In this problem, you have been given two dates and your task is to calculate how many days are between them. Note, that leap years have unusual number of days in February.

### Input specification

The first two lines contain two dates. Each date will be in the format yyyy:mm:dd (1900 yyyy 2038 and yyyy:mm:dd always will be a valid date).

### Output specification

Print a single integer — the answer to the problem.

### Sample input

```
1900:01:01
2038:12:31
```

### Sample output

```
50768
```

### Hint(s)

Source	José Ricardo Arias
Added by	<b>ralcolea</b>
Addition date	2014-03-27
Time limit (ms)	10000
<b>Test limit (ms)</b>	1000
Memory limit (kb)	65535

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Output limit (mb)	64
Size limit (bytes)	30000
Enabled languages	Bash C C# C++ Java Pascal Perl PHP Python Ruby Text