

Find Dates

Time limit: 1.0s **Memory limit:** 64M

I have a document full of dates that you need to process. I am really busy, so I need you to write a program for me to find all the dates. I only want valid dates, that is dates that actually exist, in the format `YYYY-MM-DD` exactly. Any date that does not fit exactly in `YYYY-MM-DD` or does not actually exist must be ignored. A valid date will also have non-alphanumeric characters on both sides.

Note: Leap years are very important for me.

Input Specification

The first line is an integer N , the number of lines in the input. The next N lines will be the document you need to process.

Output Specification

You are to output all valid dates in the exact format `YYYY-MM-DD` inside the document.

Sample Input

```
4
Archduke Franz Ferdinand was killed on 1914-06-28. On 1914-07-28,
Austria-Hungary declared war on Serbia. Germany attacked Luxemburg on 08-02,
and war was declared on France on 1914-08-03. On 04-08-1914, Britain declared
war.
```

Sample Output

```
1914-06-28
1914-07-28
1914-08-03
```