2655   Spam

Be hated by the free world.

You never had any friends, and don't really want any anyways, and so you have decided to collect email addresses from web pages for direct e-mail advertising.

The text delivered to a web browser is usually marked up HTML, which may contain email addresses of the form:

`user@server`

- Both `user` and `server` are of the form `alpha.numeric.with.dots`.

  By `alpha.numeric.with.dots`, we mean a sequence of one or more characters which are alphabetic ('A'..'Z','a'..'z'), numeric ('0'..'9'), hyphens (`-`), underbars (`_`) and/or periods (`.`), with the following restrictions on periods:

  - The sequence neither starts nor ends with a period.
  - No periods are adjacent.

- Email addresses are preceded by the beginning of the file, or some character other than a letter ('A'..'Z','a'..'z'), digit ('0'..'9'), hyphen (`-`), or underbar (`_`).

- Email addresses are succeeded by the end of the file, or some character other than a letter ('A'..'Z','a'..'z'), digit ('0'..'9'), hyphen (`-`), or underbar (`_`).

- If the scanned text contains a sequence of the form

  `first@second@third`

  Then the output should contain `first@second` and `second@third` as email addresses. In a longer run, each pair split by an `@`-sign should appear as an email address in the output.

The point of this problem is to extract and record the email addresses embedded in other text.

Input

The input file will contain zero or more lines of ASCII text.

Output

Other than the standard leader and trailer, the output file has each email address found in the input file in the order it was found (duplicates not removed).

Sample Input

```
bob@banks.com wrote:
>> What does <tt>x=7</tt> mean for this problem?  For
>> example,
>>
>>    ..a@a@aa@aaa@aaa..a@a@aa@aaa@aaa..a@a..@a...a@..@..
>>
```

```
>> this scrolling @-example from jim@jones.com.
>>
>> <a href="mailto:Bobby@mail.bobsbanks.com">Bob</a>
```

Sample Output

```
bob@banks.com
a@a
a@aa
aa@aaa
aaa@aaa
a@a
a@aa
aa@aaa
aaa@aaa
a@a
jim@jones.com
Bobby@mail.bobsbanks.com
```