Discussions

Editorial



Validating Email Addresses With a Filter 🌣

You are given an integer $oldsymbol{N}$ followed by $oldsymbol{N}$ email addresses. Your task is to print a list containing only valid email addresses in lexicographical order.

Leaderboard

Valid email addresses must follow these rules:

- It must have the username@websitename.extension format type.
- The username can only contain letters, digits, dashes and underscores.
- The website name can only have letters and digits.

Submissions

• The maximum length of the extension is **3**.

Concept

Problem

A filter takes a function returning True or False and applies it to a sequence, returning a list of only those members of the sequence where the function returned True. A Lambda function can be used with filters.

Let's say you have to make a list of the squares of integers from ${\bf 0}$ to ${\bf 9}$ (both included).

```
>> l = list(range(10))
>> l = list(map(lambda x:x*x, l))
```

Now, you only require those elements that are greater than 10 but less than 80.

```
>> l = list(filter(lambda x: x > 10 and x < 80, l))
```

Easy, isn't it?

Input Format

The first line of input is the integer N, the number of email addresses.

N lines follow, each containing a string.

Constraints

Each line is a non-empty string.

Output Format

Output a list containing the valid email addresses in lexicographical order. If the list is empty, just output an empty list, [].

Sample Input

```
lara@hackerrank.com
  brian-23@hackerrank.com
  britts_54@hackerrank.com
Sample Output
```

['brian-23@hackerrank.com', 'britts_54@hackerrank.com', 'lara@hackerrank.com'

import re

Change Theme

Python 3

```
def fun(s):
 2
         # return True if s is a valid email, else return False"
 3
         s1= re.match(r'[a-zA-Z0-9-]+@[a-zA-Z0-9]+\.[a-zA-Z]{1,3}
 4
         return s1
 6 ∨ def filter_mail(emails):
         return list(filter(fun, emails))
 8
    if __name__ == '__main__':
9
        n = int(input())
10
         emails = []
11
         for _ in range(n):
12
             emails.append(input())
13
14
    filtered_emails = filter_mail(emails)
15
    filtered_emails.sort()
16
    print(filtered_emails)
17
```

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