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Validating Email Addresses With a Filter |



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

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.
- The maximum length of the extension is 3

Concept

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 0 to 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.

 ${\it N}$ 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']
```

```
f ⊌ in
Submissions: 8057
Max Score: 20
Difficulty: Medium
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```

```
Current Buffer (saved locally, editable) & 4
                                                                               Python 3
 1 √def fun(s):
        # return True if s is a valid email, else return False
 3
       import re
       a = re.match(r'[a-zA-Z0-9]-+@[a-zA-Z0-9]+\.[a-zA-Z]{1,3}$', s)
 4
 5
       return bool(a)
 7 ▼def filter_mail(emails):
       return list(filter(fun, emails))
 9
10 vif __name__ == '_
                     main ':
11
        n = int(input())
       emails = []
12
13 ▼
        for in range(n):
            emails.append(input())
14
15
16
   filtered_emails = filter_mail(emails)
   filtered emails.sort()
17
   print(filtered_emails)
                                                                                                     Line: 4 Col: 10
                                                                                           Run Code
```

1 Upload Code as File Test against custom input Submit Code

```
Congrats, you solved this challenge!
                               Challenge your friends: f in

✓ Test Case #0

                                        ✓ Test Case #1

✓ Test Case #2

✓ Test Case #5

✓ Test Case #3

✓ Test Case #4

✓ Test Case #6
                                        ✓ Test Case #7
                                                                                ✓ Test Case #8
✓ Test Case #9
```

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Next Challenge

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