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 $[a-z], [A-Z], [0-9], [\_-]$.

- The website name can only have letters and digits $[a-z], [A-Z], [0-9]$.

- The extension can only contain letters $[a-z], [A-Z]$.

- 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?

Example

Complete the function fun in the editor below.

fun has the following paramters:

- string s: the string to test

Returns

- boolean: whether the string is a valid email or not

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.

Sample Input

```
3
lara@hackerrank.com
brian-23@hackerrank.com
britts_54@hackerrank.com
```
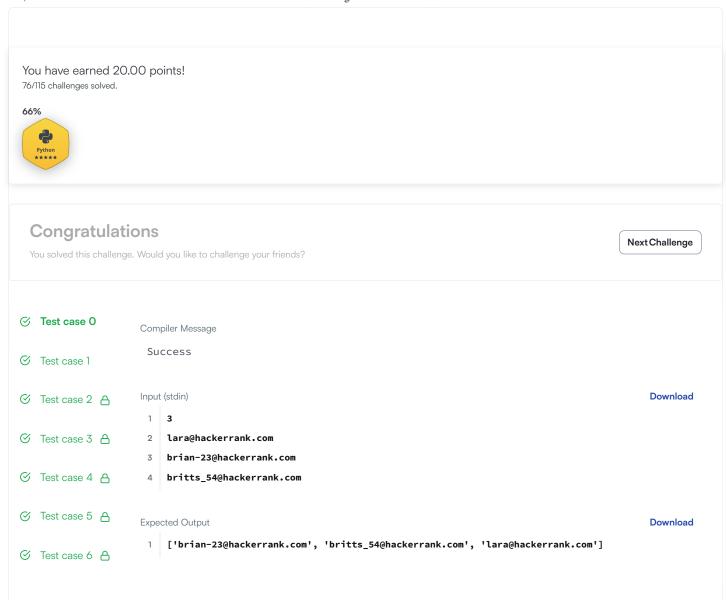
Sample Output

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

Change Theme   Language   Python 3 ⌄   ↺   ⌖   ⋮

```python
1   import re
2
3   def fun(s):
4       # return True if s is a valid email, else return False
5       # username@websitename.extension
6       pattern = r'^[a-zA-Z0-9_-]+@[a-zA-Z0-9]+\.[a-zA-Z]{1,3}$'
7       return bool(re.fullmatch(pattern, s))
8
9   def filter_mail(emails):…
```

EMACS   Line: 1 Col: 1

⬆ Upload Code as File   ☐ Test against custom input   Run Code   Submit Code

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76/115 challenges solved.

66%

Congratulations

You solved this challenge. Would you like to challenge your friends?

Next Challenge

✓ **Test case 0**

✓ Test case 1

✓ Test case 2 🔒

✓ Test case 3 🔒

✓ Test case 4 🔒

✓ Test case 5 🔒

✓ Test case 6 🔒

Compiler Message

Success

Input (stdin)   Download

```
1  3
2  lara@hackerrank.com
3  brian-23@hackerrank.com
4  britts_54@hackerrank.com
```

Expected Output   Download

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

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