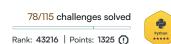
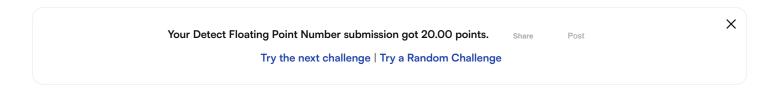
# Detect Floating Point Number \*





Problem Submissions Leaderboard Editorial 🖰 Tutorial

Check Tutorial tab to know how to to solve.

You are given a string N.

Your task is to verify that  $oldsymbol{N}$  is a floating point number.

In this task, a valid float number must satisfy all of the following requirements:

> Number can start with +, - or . symbol.

For example:

- **✓**+4.50
- **√**-1.0
- **√**.5
- **√**-.7
- **v**+.4
- **X**-+4.5
- > Number must contain at least 1 decimal value.

For example:

- **X**12.
- **√**12.0
- > Number must have exactly one . symbol.
- > Number must not give any exceptions when converted using float(N).

#### Input Format

The first line contains an integer  $m{T}$ , the number of test cases.

The next  $m{T}$  line(s) contains a string  $m{N}$ .

### Constraints

• 0 < T < 10

## **Output Format**

Output True or False for each test case.

## Sample Input 0

- 4
- 4.000
- -1.00
- +4.54

Some Random Stuff

# Sample Output 0

False True True False

#### Explanation 0

4.000: O is not a digit.-1.00: is valid.

**+4.54**: is valid.

SomeRandomStuff: is not a number.

```
Change Theme Language Python 3
                                                                                                        23
     # Enter your code here. Read input from STDIN. Print output to STDOUT
 1
 2
    import re
 3
    t = int(input())
    pattern = r"^[+-]?[0-9]*\\.[0-9]+$"
 5
     for _ in range(t):
 7
        s = input()
 8
        try:
 9
             if re.fullmatch(pattern, s):
10
                 float(s)
                 print(True)
11
12
            else:
                 print(False)
13
         except ValueError:
14
15
            print(False)
16
```

EMACS

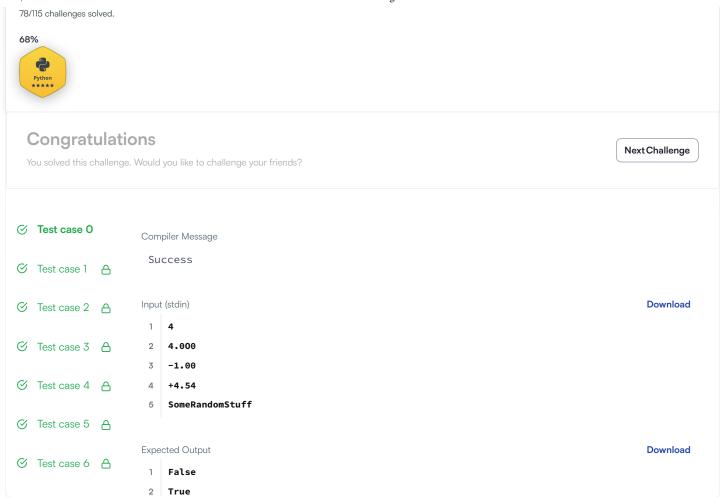
Line: 16 Col: 1

(\*\*DyloadCodeasFile\*\*) Test against custom input

Run Code

Submit Code

You have earned 20.00 points!



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