



Your Detect Floating Point Number submission got 20.00 points.

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# Detect Floating Point Number



by DOSHI

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Check [Tutorial](#) tab to know how to solve.You are given a string  $N$ .Your task is to verify that  $N$  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

✓ +.4

✗ -+4.5

> Number must contain *at least* **1** decimal value.

For example:

✗ 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  $T$ , the number of test cases.The next  $T$  line(s) contains a string  $N$ .

## Constraints

- $0 < T < 10$

## Output Format

Output *True* or *False* for each test case.

## Sample Input 0

```
4
4.000
-1.00
+4.54
SomeRandomStuff
```

## Sample Output 0

[f](#) [t](#) [in](#)Submissions: [7806](#)

Max Score: 20

Difficulty: Easy

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False  
True  
True  
False

Explanation 0

4.000: 0 is not a digit.  
-1.00: is valid.  
+4.54: is valid.  
SomeRandomStuff: is not a number.

Current Buffer (saved locally, editable) Python 3

```
1 from re import match, compile
2
3 patt = compile('[+-]?\d*\.\d+$')
4
5 for x in range(int(input())):
6     print(bool(patt.match(input().strip())))
```

Line: 3 Col: 34

Upload Code as File

☐ Test against custom input

Run Code

Submit Code

Congrats, you solved this challenge!

Challenge your friends:

✔ Test Case #0

✔ Test Case #3

✔ Test Case #6

✔ Test Case #9

✔ Test Case #12

✔ Test Case #15

✔ Test Case #1

✔ Test Case #4

✔ Test Case #7

✔ Test Case #10

✔ Test Case #13

✔ Test Case #16

✔ Test Case #2

✔ Test Case #5

✔ Test Case #8

✔ Test Case #11

✔ Test Case #14

✔ Test Case #17

You've earned 20.00 points.

Next Challenge