



String Validators

by DOSHI

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Python has built-in string validation methods for basic data. It can check if a string is composed of alphabetical characters, alphanumeric characters, digits, etc.

str.isalnum()

This method checks if all the characters of a string are alphanumeric (*a-z, A-Z and 0-9*).

```
>>> print 'ab123'.isalnum()
True
>>> print 'ab123#'.isalnum()
False
```

str.isalpha()

This method checks if all the characters of a string are alphabetical (*a-z and A-Z*).

```
>>> print 'abcD'.isalpha()
True
>>> print 'abcd1'.isalpha()
False
```

str.isdigit()

This method checks if all the characters of a string are digits (*0-9*).

```
>>> print '1234'.isdigit()
True
>>> print '123edsd'.isdigit()
False
```

str.islower()

This method checks if all the characters of a string are lowercase characters (*a-z*).

```
>>> print 'abcd123#'.islower()
True
>>> print 'Abcd123#'.islower()
False
```

str.isupper()

This method checks if all the characters of a string are uppercase characters (*A-Z*).

```
>>> print 'ABCD123#'.isupper()
True
>>> print 'Abcd123#'.isupper()
False
```

Task

You are given a string S .

Your task is to find out if the string S contains: *alphanumeric characters*, *alphabetical characters*, *digits*, *lowercase* and *uppercase characters*.

Input Format

A single line containing a string S .

Constraints

$$0 < \text{len}(S) < 1000$$

Output Format

In the first line, print **True** if S has any *alphanumeric characters*. Otherwise, print **False**.

In the second line, print **True** if S has any *alphabetical characters*. Otherwise, print **False**.

In the third line, print **True** if S has any *digits*. Otherwise, print **False**.

In the fourth line, print **True** if S has any *lowercase characters*. Otherwise, print **False**.

In the fifth line, print **True** if S has any *uppercase characters*. Otherwise, print **False**.

Sample Input

qA2

Sample Output

True
True
True
True
True

f t in

Submissions: 9760

Max Score: 10

Difficulty: Easy

Rate This Challenge:

☆☆☆☆☆

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Current Buffer (saved locally, editable) 🔗 ↺

Python 2



```
1 # Enter your code here. Read input from STDIN. Print output to STDOUT
2
3 S = raw_input()
4
5 isalnum=False
6 isalpha=False
7 isdigit=False
8 islower=False
9 isupper=False
10
11
12 for ch in S:
13     if ch.isalnum():
14         isalnum = True
15     if ch.isalpha():
16         isalpha = True
17     if ch.isdigit():
18         isdigit = True
19     if ch.islower():
20         islower = True
```

```
21     if ch.isupper():
22         isupper = True
23
24     print isalnum
25     print isalpha
26     print isdigit
27     print islower
28     print isupper
```

Line: 23 Col: 1

 [Upload Code as File](#)☐ Test against custom input[Run Code](#)[Submit Code](#)

Congrats, you solved this challenge!

✓ Test Case #0

✓ Test Case #1

✓ Test Case #2

✓ Test Case #3

✓ Test Case #4

✓ Test Case #5

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