

String Validators

Problem

Submissions

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*).

Solved: 716
Attempted: 722

```
>>> 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
```



Contest ends in 1 day 5 hours 57 minutes 51 seconds

Submissions: 631

Max Score: 50

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Current Buffer (saved locally, editable)

Python 3

```
1 if __name__ == '__main__':
2     s = input()
3     print(any(a.isalnum() for a in s) )
4     print(any(a.isalpha() for a in s) )
5     print(any(a.isdigit() for a in s) )
6     print(any(a.islower() for a in s) )
7     print(any(a.isupper() for a in s) )
8
```

Line: 8 Col: 1

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☐ Test against custom input

Run Code

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