

# String Validators

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
```