String Validators

Problem Statement

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

$0 < len(S) < 1000$

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
```