

## Problem Statement

Python has in built string validation methods for basic data validation such as checking if a string is alphabetical, alphanumeric, digit etc.

### **str.isalnum()**

Check if all characters of string are alphanumeric (a-z, A-Z and 0-9).

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

### **str.isalpha()**

Check if all characters of string are alphabetical (a-z and A-Z).

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

### **str.isdigit()**

Check if all characters of string are digit (0-9).

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

### **str.islower()**

Check if all characters of string are lowercase characters.

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

### **str.isupper()**

Check if all characters of string are uppercase characters.

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

## Task

You are given a string  $S$ .

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

### Input Format

Single line containing, string  $S$ .

### Constraints

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

### Output Format

In First line, print **True** if  $S$  has any *alphanumeric character*, otherwise print **False**.

In Second line, print **True** if  $S$  has any *alphabetical character*, otherwise print **False**.

In Third line, print **True** if  $S$  has any *digits*, otherwise print **False**.

In Fourth line, print **True** if  $S$  has any *lowercase character*, otherwise print **False**.

In Fifth line, print **True** if  $S$  has any *uppercase character*, otherwise print **False**.

### Sample Input

qA2

### Sample Output

True  
True  
True  
True  
True