String Validators ★

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Problem   Submissions   Leaderboard   Editorial 🔒

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
```

Change Theme   Language   Python 3   ⌄

```python
1   if __name__ == '__main__':
2       s = input()
3       lines = [False] * 5
4       for c in s:
5           if c.isalnum():
6               lines[0] = True
7           if c.isalpha():
8               lines[1] = True
9           if c.isdigit():
10              lines[2] = True
11          if c.isalpha() and c.islower():
12              lines[3] = True
13          if c.isalpha() and c.isupper():
14              lines[4] = True
15
16      for line in lines:
17          print(line)
18
```

Line: 5 Col: 22

[⬆ Upload Code as File]   ☑ Test against custom input   [Run Code]   Submit Code

```
#$%@^&*
```

You have earned 10.00 points!
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77%   195/220

Python
★★★

Congratulations   [Next Challenge]
You solved this challenge. Would you like to challenge your friends?

⊘ **Test case 0**   Compiler Message

⊘ Test case 1 🔒   Success

⊘ Test case 2 🔒   Input (stdin)   Download

                           1   qA2

⊘ Test case 3 🔒

⊘ Test case 4 🔒   Expected Output   Download

                           1   True
                           2   True
⊘ Test case 5 🔒   3   True
                           4   True
                           5   True