

# String Information Methods

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1. Given a string, determine whether it begins with a capital letter.
2. Given a string, determine whether it is composed entirely of letters, entirely of numbers, or neither.
3. *CapsLock Detector*: Have the user enter a string. If all letters in the string are uppercase, ask the user (politely) to stop shouting.
4. Given a string, determine the number of letters, numbers, spaces and other characters in it.
5. For an arbitrary number of strings, determine how many are five-digit positive integers.
6. Read an arbitrary number of strings and determine the average number of capital letters per string.
7. *Variable Name Verification*: Write a program that checks if a given string would be an acceptable variable name in Python (excluding keywords). Recall that variable names must begin with a letter or an underscore, while all following characters must be letters, numbers or underscores.
8. Count the number of “words” in a given string that contain three or more characters.
9. *Alternating Case*: Have the user input a string, and determine if all letters in the string alternate between upper- and lowercase. Note that the first letter may be either upper- or lowercase, and that there may be additional non-letter characters in the string. For example, the string “AbCd E-f\*9G” alternates, whereas the string “123i45J6K78” does not.