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Python String Methods

capitalize(): Converts the first character of the string to uppercase and makes all other characters lowercase.

```
string = "hello world"  
capitalized_string = string.capitalize()  
print(capitalized_string) # Output: Hello world
```

upper(): Converts all characters in the string to uppercase.

```
string = "hello world"  
uppercase_string = string.upper()  
print(uppercase_string) # Output: HELLO WORLD
```



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lower(): Converts all characters in the string to lowercase.

```
string = "HELLO WORLD"  
lowercase_string = string.lower()  
print(lowercase_string) # Output: hello world
```

title(): Converts the first character of each word to uppercase and the rest to lowercase.

```
string = "hello world"  
title_string = string.title()  
print(title_string) # Output: Hello World
```

strip(): Removes leading and trailing whitespaces from the string.

```
string = "  hello world  "  
stripped_string = string.strip()  
print(stripped_string) # Output: hello world
```



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replace(): Replaces occurrences of a specified substring with another substring.

```
string = "hello world"
new_string = string.replace("world", "Python")
print(new_string) # Output: hello Python
```

split(): Splits the string into a list of substrings based on a delimiter.

```
string = "hello world"
split_string = string.split()
print(split_string) # Output: ['hello', 'world']
```

join(): Concatenates elements of an iterable (like a list) into a single string, using the string as a delimiter.

```
words = ['hello', 'world']
joined_string = ' '.join(words)
print(joined_string) # Output: hello world
```




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startswith(): Checks if the string starts with a specified prefix.

```
string = "hello world"  
starts_with_hello = string.startswith("hello")  
print(starts_with_hello) # Output: True
```

endswith(): Checks if the string ends with a specified suffix.

```
string = "hello world"  
ends_with_world = string.endswith("world")  
print(ends_with_world) # Output: True
```

find(): Searches for a substring within the string and returns the lowest index where the substring is found. Returns -1 if the substring is not found.

```
string = "hello world"  
index = string.find("world")  
print(index) # Output: 6
```



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count(): Returns the number of occurrences of a substring in the string.

```
string = "hello world"  
count = string.count("l")  
print(count) # Output: 3
```

isdigit(): Checks if all characters in the string are digits.

```
string = "12345"  
is_digit = string.isdigit()  
print(is_digit) # Output: True
```

isalpha(): Checks if all characters in the string are alphabetic.

```
string = "hello"  
is_alpha = string.isalpha()  
print(is_alpha) # Output: True
```



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isalnum(): Checks if all characters in the string are alphanumeric.

```
string = "hello123"  
is_alnum = string.isalnum()  
print(is_alnum) # Output: True
```

isspace(): Checks if all characters in the string are whitespace.

```
string = "  "  
is_space = string.isspace()  
print(is_space) # Output: True
```



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index(): Returns the index of the first occurrence of a substring in the string. Raises a `ValueError` if the substring is not found.

```
string = "hello world"
index = string.index("world")
print(index) # Output: 6
```

partition(): Splits the string at the first occurrence of a specified separator and returns a tuple containing the part before the separator, the separator itself, and the part after the separator.

```
string = "hello python world"
parts = string.partition(" ")
print(parts)
# Output: ('hello', ' ', 'python world')
```




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