

125. Valid Palindrome

Easy Topics Companies

A phrase is a **palindrome** if, after converting all uppercase letters into lowercase letters and removing all non-alphanumeric characters, it reads the same forward and backward. Alphanumeric characters include letters and numbers.

Given a string `s`, return `true` if it is a **palindrome**, or `false` otherwise.

Example 1:

Input: `s = "A man, a plan, a canal: Panama"`
 Output: `true`
 Explanation: "amanaplanacanalpanama" is a palindrome.

Example 2:

Input: `s = "race a car"`
 Output: `false`
 Explanation: "raceacar" is not a palindrome.

Example 3:

Input: `s = ""`
 Output: `true`
 Explanation: `s` is an empty string "" after removing non-alphanumeric characters. Since an empty string reads the same forward and backward, it is a palindrome.

Constraints:

- `1 <= s.length <= 2 * 105`
- `s` consists only of printable ASCII characters.

</> Code

Python3 Auto

```
1 class Solution:
2     def isPalindrome(self, s: str) -> bool:
3
```

Saved

Ln 1, Col 1

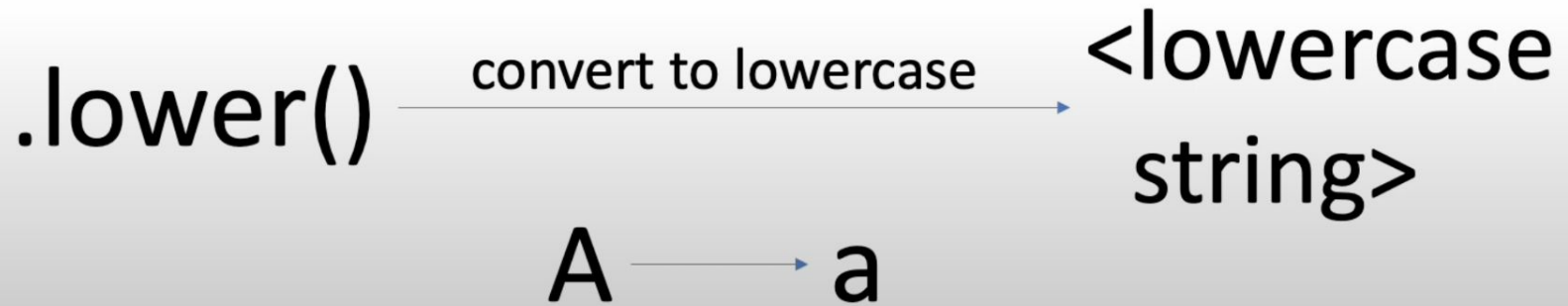
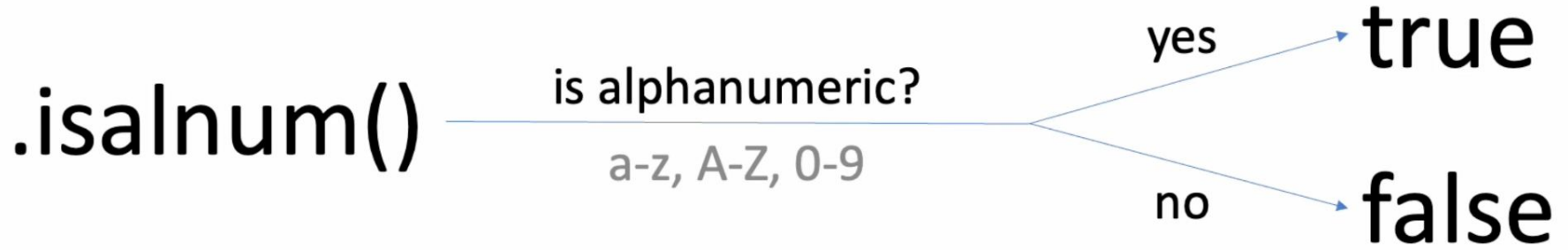
Testcase Test Result

Case 1 Case 2 Case 3 +

s =

"A man, a plan, a canal: Panama"

</> Source ?



tACo Cat!

0 1 2 3 4 5 6 7 8

↑
l

↑
r

tACo Cat!

0 1 2 3 4 5 6 7 8

↑
l

↑
r

.,racer

0 1 2 3 4 5 6

↑
l

↑
r

tACo Cat!

0 1 2 3 4 5 6 7 8

↑
l

↑
r

tACo Cat!

0 1 2 3 4 5 6 7 8

↑
l

↑
r

.,racer

0 1 2 3 4 5 6

↑
l

↑
r

tACo Cat!

0 1 2 3 4 5 6 7 8

↑
l

↑
r

tACo Cat!

0 1 2 3 4 5 6 7 8

↑
l


↑
r





.,racer




0 1 2 3 4 5 6

↑
l

↑
r


 Problem List < > 🔍

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125. Valid Palindrome

Solved 

Easy Topics Companies

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Constraints:



- `1 <= s.length <= 2 * 105`
- `s` consists only of printable ASCII characters.

</> Code

Python3  Auto

```
1 class Solution:
2     def isPalindrome(self, s: str) -> bool:
3         l = 0
4         r = len(s) - 1
5         while l < r:
6             if not s[l].isalnum():
7                 l += 1
8             elif not s[r].isalnum():
9                 r -= 1
10            elif s[l].lower() == s[r].lower():
11                l += 1
12                r -= 1
13            else:
14                return False
15        return True
16
```

Saved Ln 1, Col 1

 Testcase  Test Result

Case 1 Case 2 Case 3 +

s =
"A man, a plan, a canal: Panama"



811. Subdomain Visit Count

Medium

Topics

Companies

A website domain `"discuss.leetcode.com"` consists of various subdomains. At the top level, we have `"com"`, at the next level, we have `"leetcode.com"` and at the lowest level, `"discuss.leetcode.com"`. When we visit a domain like `"discuss.leetcode.com"`, we will also visit the parent domains `"leetcode.com"` and `"com"` implicitly.

A **count-paired domain** is a domain that has one of the two formats `"rep d1.d2.d3"` or `"rep d1.d2"` where `rep` is the number of visits to the domain and `d1.d2.d3` is the domain itself.

- For example, `"9001 discuss.leetcode.com"` is a **count-paired domain** that indicates that `discuss.leetcode.com` was visited 9001 times.

Given an array of **count-paired domains** `cpdomains`, return an array of the **count-paired domains** of each subdomain in the input. You may return the answer in **any order**.

Example 1:

Input: `cpdomains = ["9001 discuss.leetcode.com"]`

Output: `["9001 leetcode.com","9001 discuss.leetcode.com","9001 com"]`

Explanation: We only have one website domain: `"discuss.leetcode.com"`.

As discussed above, the subdomain `"leetcode.com"` and `"com"` will also be visited. So they will all be visited 9001 times.

Example 2:

Input: `cpdomains = ["900 google.mail.com", "50 yahoo.com", "1 intel.mail.com", "5 wiki.org"]`

Output: `["901 mail.com","50 yahoo.com","900 google.mail.com","5 wiki.org","5 org","1 intel.mail.com","951 com"]`

Explanation: We will visit `"google.mail.com"` 900 times, `"yahoo.com"` 50 times, `"intel.mail.com"` once and `"wiki.org"` 5 times.

For the subdomains, we will visit `"mail.com"` $900 + 1 = 901$ times, `"com"` $900 + 50 + 1 = 951$ times, and `"org"` 5 times.

</> Code

Python3 Auto



```
1 class Solution:
2     def subdomainVisits(self, cpdomains: List[str]) -> List[str]:
3
```

Saved

Ln 1, Col 1

☒ Testcase >_ Test Result

Case 1

Case 2



cpdomains =

```
["9001 discuss.leetcode.com"]
```



811. Subdomain Visit Count

Medium

Topics

Companies

A website domain `"discuss.leetcode.com"` consists of various subdomains. At the top level, we have `"com"`, at the next level, we have `"leetcode.com"` and at the lowest level, `"discuss.leetcode.com"`. When we visit a domain like `"discuss.leetcode.com"`, we will also visit the parent domains `"leetcode.com"` and `"com"` implicitly.

A **count-paired domain** is a domain that has one of the two formats `"rep d1.d2.d3"` or `"rep d1.d2"` where `rep` is the number of visits to the domain and `d1.d2.d3` is the domain itself.

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Input: `cpdomains = ["9001 discuss.leetcode.com"]`

Output: `["9001 leetcode.com","9001 discuss.leetcode.com","9001 com"]`

Explanation: We only have one website domain: `"discuss.leetcode.com"`.

As discussed above, the subdomain `"leetcode.com"` and `"com"` will also be visited. So they will all be visited 9001 times.

Example 2:

Input: `cpdomains = ["900 google.mail.com", "50 yahoo.com", "1 intel.mail.com", "5 wiki.org"]`

Output: `["901 mail.com","50 yahoo.com","900 google.mail.com","5 wiki.org","5 org","1 intel.mail.com","951 com"]`

Explanation: We will visit `"google.mail.com"` 900 times, `"yahoo.com"` 50 times, `"intel.mail.com"` once and `"wiki.org"` 5 times.

For the subdomains, we will visit `"mail.com"` $900 + 1 = 901$ times, `"com"` $900 + 50 + 1 = 951$ times, and `"org"` 5 times.

</> Code

```
-  
"900 google.mail.com", "50 yahoo.com", "1  
intel.mail.com", "5 wiki.org"]
```

-> count 900 and the domain google.mail.com

```
"google.mail.com": 900
```

```
"mail.com": 900
```

```
"com": 900
```

```
"50 yahoo.com": 1
```

```
"com": 950
```

```
"intel.mail.com": 1
```

```
"com": 951
```

```
"wiki.org": 5
```

```
"org": 5
```

811. Subdomain Visit Count

Solved

Medium Topics Companies

A website domain `"discuss.leetcode.com"` consists of various subdomains. At the top level, we have `"com"`, at the next level, we have `"leetcode.com"` and at the lowest level, `"discuss.leetcode.com"`. When we visit a domain like `"discuss.leetcode.com"`, we will also visit the parent domains `"leetcode.com"` and `"com"` implicitly.

A **count-paired domain** is a domain that has one of the two formats `"rep d1.d2.d3"` or `"rep d1.d2"` where `rep` is the number of visits to the domain and `d1.d2.d3` is the domain itself.

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Given an array of **count-paired domains** `cpdomains`, return an array of the **count-paired domains** of each subdomain in the input. You may return the answer in **any order**.

Example 1:

Input: `cpdomains = ["9001 discuss.leetcode.com"]`

Output: `["9001 leetcode.com", "9001 discuss.leetcode.com", "9001 com"]`

Explanation: We only have one website domain: `"discuss.leetcode.com"`.

As discussed above, the subdomain `"leetcode.com"` and `"com"` will also be visited. So they will all be visited `9001` times.

Example 2:

Input: `cpdomains = ["900 google.mail.com", "50 yahoo.com", "1 intel.mail.com", "5 wiki.org"]`

Output: `["901 mail.com", "50 yahoo.com", "900 google.mail.com", "5 wiki.org", "5 org", "1 intel.mail.com", "951 com"]`

Explanation: We will visit `"google.mail.com"` 900 times, `"yahoo.com"` 50 times, `"intel.mail.com"` once and `"wiki.org"` 5 times.

For the subdomains, we will visit `"mail.com"` $900 + 1 = 901$ times, `"com"` $900 + 50 + 1 = 951$ times, and `"org"` 5 times.

Code

Python3 Auto

```
1 class Solution(object):
2     def subdomainVisits(self, cpdomains):
3         ans = collections.Counter()
4         for domain in cpdomains:
5             count, domain = domain.split()
6             count = int(count)
7             frags = domain.split('.')
8             for i in range(len(frags)):
9                 ans[".".join(frags[i:])]. += count
10
11         formatted_list = []
12         for dom, ct in ans.items():
13             formatted_string = "{} {}".format(ct, dom)
14             formatted_list.append(formatted_string)
15
16         return formatted_list
```

Saved

Ln 11, Col 24

Testcase Test Result

Accepted

Runtime: 45 ms

Case 1

Case 2

Input

```
cpdomains =
["9001 discuss.leetcode.com"]
```

1. Two Sum

Easy Topics Companies Hint

Given an array of integers `nums` and an integer `target`, return *indices of the two numbers such that they add up to `target`*.

You may assume that each input would have **exactly one solution**, and you may not use the *same* element twice.

You can return the answer in any order.

Example 1:

Input: `nums = [2,7,11,15]`, `target = 9`
Output: `[0,1]`
Explanation: Because `nums[0] + nums[1] == 9`, we return `[0, 1]`.

Example 2:

Input: `nums = [3,2,4]`, `target = 6`
Output: `[1,2]`

Example 3:

Input: `nums = [3,3]`, `target = 6`
Output: `[0,1]`

Constraints:

- $2 \leq \text{nums.length} \leq 10^4$
- $-10^9 \leq \text{nums}[i] \leq 10^9$
- $-10^9 \leq \text{target} \leq 10^9$

Solved 🟢

</> Code

Python3 📄 Auto

1

Saved

Ln 1, Col 2

✅ Testcase > Test Result

Case 1 Case 2 Case 3 +

nums =

[2,7,11,15]



1. Two Sum

Solved

Easy Topics Companies Hint

Given an array of integers `nums` and an integer `target`, return *indices of the two numbers such that they add up to* `target`.

You may assume that each input would have **exactly one solution**, and you may not use the *same* element twice.

You can return the answer in any order.

Example 1:

Input: `nums = [2,7,11,15]`, `target = 9`

Output: `[0,1]`

Explanation: Because `nums[0] + nums[1] == 9`, we return `[0, 1]`.

Example 2:

Input: `nums = [3,2,4]`, `target = 6`

Output: `[1,2]`

Example 3:

Input: `nums = [3,3]`, `target = 6`

Output: `[0,1]`

Constraints:

- $2 \leq \text{nums.length} \leq 10^4$
- $-10^9 \leq \text{nums}[i] \leq 10^9$
- $-10^9 \leq \text{target} \leq 10^9$
- Only one valid answer exists.

Code

Python3 Auto

≡ 📖 ↺ ↻ ↶ ↷

```
1 class Solution:
2     def twoSum(self, nums: List[int], target: int) -> List[int]:
3         hashmap = {}
4         for i in range(len(nums)):
5             complement = target - nums[i]
6             if complement in hashmap:
7                 return [i, hashmap[complement]]
8         hashmap[nums[i]] = i
9
10
```

Saved

Ln 8, Col 30


☑️ Testcase ➤ Test Result





Accepted Runtime: 36 ms




• Case 1 • Case 2 • Case 3

Input

```
nums =
[2, 7, 11, 15]
```


 Problem List < > ↺

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3. Longest Substring Without Repeating Characters

Solved 

Medium

Topics

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Hint

Given a string `s`, find the length of the **longest substring** without repeating characters.

Example 1:

Input: `s = "abcabcbb"`

Output: 3

Explanation: The answer is "abc", with the length of 3.

Example 2:

Input: `s = "bbbb"`

Output: 1

Explanation: The answer is "b", with the length of 1.

Example 3:

Input: `s = "pwwkew"`

Output: 3

Explanation: The answer is "wke", with the length of 3.
Notice that the answer must be a substring, "pwke" is a subsequence and not a substring.

Constraints:


- $0 \leq s.length \leq 5 \times 10^4$
- `s` consists of English letters, digits, symbols and spaces.

Seen this question in a real interview before? 1/5

Yes

No


</> Code


Python3  Auto

```
1 class Solution:
2     def lengthOfLongestSubstring(self, s: str) -> int:
3
```

Saved

Ln 1, Col 1

 Testcase

 Test Result

Case 1

Case 2

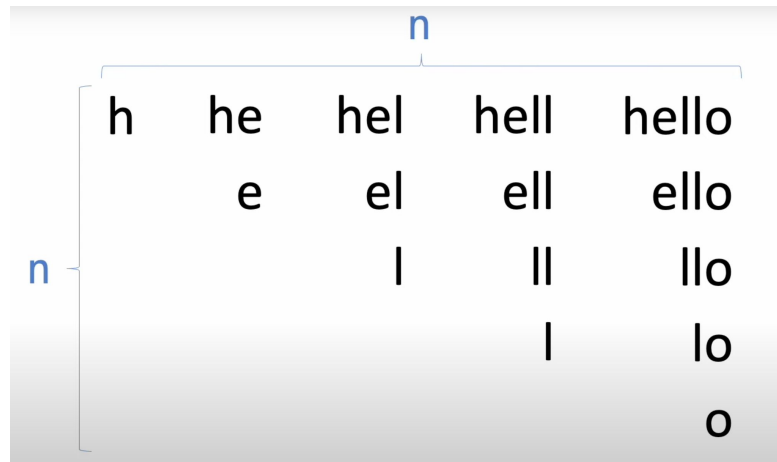
Case 3

+

s =

"abcabcbb"

Input - Hello
Output - Hel



hello

set

h e l

~~hello~~

set

h e l l

- Each check runs in $O(n)$ time
- Must do this **for each** substring generated, which took $O(n^2)$ time
- Brute force: **$O(n^3)$ time!!**

Q - How can we Optimize?

l r
↓ ↓
abcdcefg
Length: 1

l r
↓ ↓
abcdcefg
Length: 4

l r
↓ ↓
ab**cd**cefg
✗ Length: 4

l r
↓ ↓
abcdcefg
Length: 2

l r
↓ ↓
ab**cd**cefg
Length: 4

l r
↓ ↓
ab**cd**cefg

l r
↓ ↓
abcdcefg
5
Length: 5

l r
↓ ↓
abcdcefg
Length: 3

l r
↓ ↓
ab**cd**cefg
✗ Length: 4

l r
↓ ↓
abcdcefg

Algorithm - Keep moving the right pointer to extend the substring until we reach a repeated character. At that point, move the left pointer up until the repeated character is gone. We keep repeating the character until the right pointer reaches the end of the string.

How do we know where to update the left pointer when a repeated character is found?

l r
↓ ↓
a b c a c b d d
0 1 2 3 4 5 6 7

seen (char: index)

```
{
  a: 0
  b: 1
  c: 2
```

length

3

l r
↓ ↓
a b c a c b d d
0 1 2 3 4 5 6 7

seen (char: index)

```
{
  a: 3
  b: 1
  c: 2
```

length

3

l r
↓ ↓
a b c a c b d d
0 1 2 3 4 5 6 7

seen (char: index)

```
{
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  b: 1
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length

3

l r
↓ ↓
a b c a c b d d
0 1 2 3 4 5 6 7

seen (char: index)

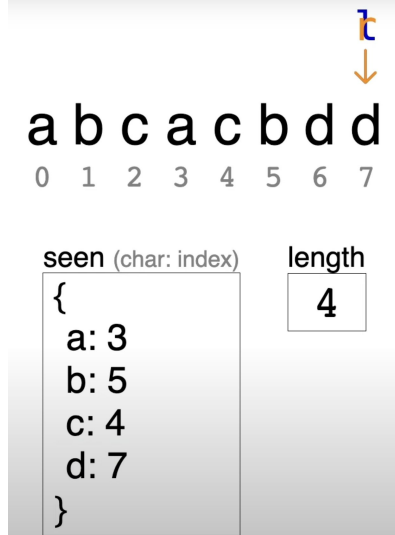
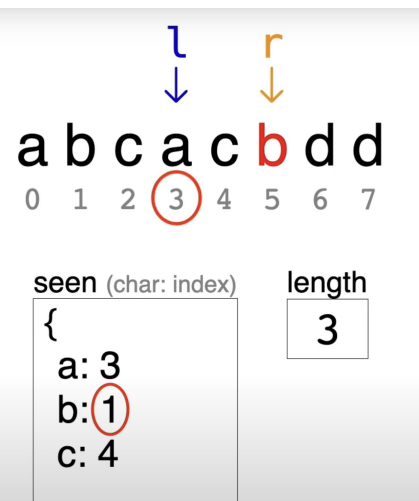
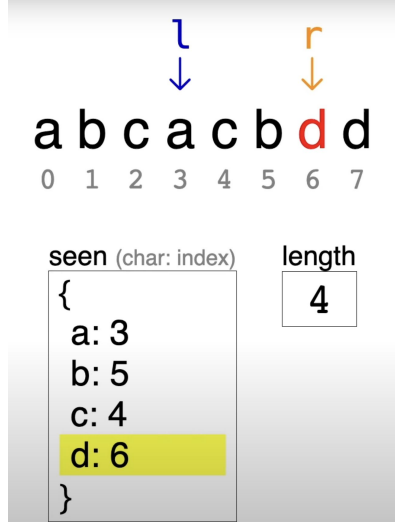
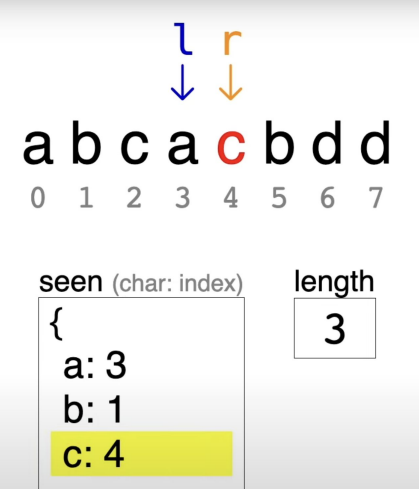
```
{
  a: 3
  b: 1
  c: 4
```

length

3


Given a string `s`, find the length
of the longest substring without
repeating characters





```
def lengthOfLongestSubstring(s):
    seen = {}
    l = 0
    length = 0
    for r in range(len(s)):
        char = s[r]
        if char in seen and seen[char] >= l:
            l = seen[char] + 1
        else:
            length = max(length, r - l + 1)
            seen[char] = r
    return length
```






```
# Given a string s, find the length
# of the longest substring without
# repeating characters
```

```
def lengthOfLongestSubstring(s):
    seen = {}
    l = 0
    length = 0
    for r in range(len(s)):
        char = s[r]
        if char in seen and seen[char] >= l:
            l = seen[char] + 1
        else:
            length = max(length, r - l + 1)
            seen[char] = r
    return length
```


 Problem List < > ↺

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3. Longest Substring Without Repeating Characters

Medium Topics Companies Hint

Given a string `s`, find the length of the **longest substring** without repeating characters.

Example 1:

Input: `s = "abcabcbb"`
Output: 3
Explanation: The answer is "abc", with the length of 3.

Example 2:


Input: `s = "bbbb"`
Output: 1
Explanation: The answer is "b", with the length of 1.

Example 3:


Input: `s = "pwwkew"`
Output: 3
Explanation: The answer is "wke", with the length of 3.
Notice that the answer must be a substring, "pwke" is a subsequence and not a substring.

Constraints:

- $0 \leq s.length \leq 5 \times 10^4$
- `s` consists of English letters, digits, symbols and spaces.

Solved 


</> Code

Python3  Auto

```
1 class Solution:
2     def lengthOfLongestSubstring(self, s: str) -> int:
3         seen = {}
4         l = 0
5         length = 0
6         for r in range(len(s)):
7             char = s[r]
8             if char in seen and seen[char] >= l:
9                 l = seen[char] + 1
10            else:
11                length = max(length, r - l + 1)
12                seen[char] = r
13        return length
14
```

Saved

Ln 14, Col 9

☒ Testcase  Test Result

Accepted

Runtime: 48 ms






• Case 1

• Case 2

• Case 3

Input

```
s =
"abcabcbb"
```

 40.3K  407   

49. Group Anagrams

Medium Topics Companies

Given an array of strings `strs`, group the **anagrams** together. You can return the answer in **any order**.

Example 1:

Input: `strs = ["eat", "tea", "tan", "ate", "nat", "bat"]`

Output: `[["bat"], ["nat", "tan"], ["ate", "eat", "tea"]]`

Explanation:

- There is no string in `strs` that can be rearranged to form `"bat"`.
- The strings `"nat"` and `"tan"` are anagrams as they can be rearranged to form each other.
- The strings `"ate"`, `"eat"`, and `"tea"` are anagrams as they can be rearranged to form each other.

Example 2:

Input: `strs = [""]`

Output: `[[""]]`

Example 3:

Input: `strs = ["a"]`

Output: `[["a"]]`

Constraints:

- $1 \leq \text{strs.length} \leq 10^4$

Code

Python3 Auto

```
1 class Solution:
2     def groupAnagrams(self, strs: List[str]) -> List[List[str]]:
3
```

Saved

Ln 1, Col 1

Testcase Test Result

Case 1 Case 2 Case 3 +

`strs =`

`["eat", "tea", "tan", "ate", "nat", "bat"]`



49. Group Anagrams

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Given an array of strings `strs`, group the **anagrams** together. You can return the answer in **any order**.

Example 1:

Input: `strs = ["eat", "tea", "tan", "ate", "nat", "bat"]`

Output: `[["bat"],["nat","tan"],["ate","eat","tea"]]`

Explanation:

- There is no string in `strs` that can be rearranged to form `"bat"`.
- The strings `"nat"` and `"tan"` are anagrams as they can be rearranged to form each other.
- The strings `"ate"`, `"eat"`, and `"tea"` are anagrams as they can be rearranged to form each other.

Example 2:

Input: `strs = [""]`

Output: `[[""]]`

Example 3:

Input: `strs = ["a"]`

Output: `[["a"]]`

Constraints:



- $1 \leq \text{strs.length} \leq 10^4$

```
{  
  "aet": ["eat", "tea", "ate"],  
  "ant": ["tan", "nat"],  
  "abt": ["bat"]  
}
```

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[Submissions](#)

49. Group Anagrams

Solved 

Medium  Topics  Companies

Given an array of strings `strs`, group the **anagrams** together. You can return the answer in **any order**.

Example 1:

```
Input: strs = ["eat","tea","tan","ate","nat","bat"]
```

Output: `[["bat"], ["nat", "tan"], ["ate", "eat", "tea"]]`

Explanation:

- There is no string in `strs` that can be rearranged to form `"bat"`.
- The strings `"nat"` and `"tan"` are anagrams as they can be rearranged to form each other.
- The strings `"ate"`, `"eat"`, and `"tea"` are anagrams as they can be rearranged to form each other.

Example 2:

Input: strs = [""]

Output: [[""]]

Example 3:

Input: strs = ["a"]

Output: `[["a"]]`

Constraints:

[Code](#)

Python3 Auto

```
1 class Solution:
2     def groupAnagrams(self, strs: List[str]) -> List[List[str]]:
3         dic={}
4         k=[]
5         for i in strs:
6             l="".join(sorted(i))
7             dic.setdefault(l, []).append(i)
8
9         return dic.values()
```

Saved Upgrade to Cloud Saving

Ln 3, Col 9

Testcase > Test Result

Accepted Runtime: 36 ms

- Case 1
- Case 2
- Case 3

Input



966. Vowel Spellchecker

Medium Topics Companies

Given a `wordlist`, we want to implement a spellchecker that converts a query word into a correct word.

For a given `query` word, the spell checker handles two categories of spelling mistakes:

- Capitalization: If the query matches a word in the wordlist (**case-insensitive**), then the query word is returned with the same case as the case in the wordlist.
 - Example: `wordlist = ["yellow"], query = "YellOw": correct = "yellow"`
 - Example: `wordlist = ["Yellow"], query = "yellow": correct = "Yellow"`
 - Example: `wordlist = ["yellow"], query = "yellow": correct = "yellow"`
- Vowel Errors: If after replacing the vowels ('a', 'e', 'i', 'o', 'u') of the query word with any vowel individually, it matches a word in the wordlist (**case-insensitive**), then the query word is returned with the same case as the match in the wordlist.
 - Example: `wordlist = ["YellOw"], query = "yollow": correct = "YellOw"`
 - Example: `wordlist = ["YellOw"], query = "yeellow": correct = ""` (no match)
 - Example: `wordlist = ["YellOw"], query = "yllw": correct = ""` (no match)

In addition, the spell checker operates under the following precedence rules:

- When the query exactly matches a word in the wordlist (**case-sensitive**), you should return the same word back.
- When the query matches a word up to capitalization, you should return the first such match in the wordlist.
- When the query matches a word up to vowel errors, you should return the first such match in the wordlist.
- If the query has no matches in the wordlist, you should return the empty string.

Given some `queries`, return a list of words `answer`, where `answer[i]` is the correct word for `query = queries[i]`.

Solved

</> Code

Python3 Auto

1

Example 1:

Input: `wordlist = ["KiTe","kite","hare","Hare"], queries = ["kite","Kite","KiTe","Hare","HARE","Hear","hear","keti","keet","keto"]`
Output: `["kite","KiTe","KiTe","Hare","hare","","","KiTe","","KiTe"]`

Example 2:

Input: `wordlist = ["yellow"], queries = ["YellOw"]`
Output: `["yellow"]`

Saved

Ln 1 Col 1



966. Vowel Spellchecker

Solved ✓

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Given a `wordlist`, we want to implement a spellchecker that converts a query word into a correct word.

For a given `query` word, the spell checker handles two categories of spelling mistakes:

- Capitalization: If the query matches a word in the wordlist (**case-insensitive**), then the query word is returned with the same case as the case in the wordlist.
 - Example: `wordlist = ["yellow"]`, `query = "Yell0w"`: `correct = "yellow"`
 - Example: `wordlist = ["Yellow"]`, `query = "yellow"`: `correct = "Yellow"`
 - Example: `wordlist = ["yellow"]`, `query = "yellow"`: `correct = "yellow"`
- Vowel Errors: If after replacing the vowels ('a', 'e', 'i', 'o', 'u') of the query word with any vowel individually, it matches a word in the wordlist (**case-insensitive**), then the query word is returned with the same case as the match in the wordlist.
 - Example: `wordlist = ["Yell0w"]`, `query = "y0llow"`: `correct = "Yell0w"`
 - Example: `wordlist = ["Yell0w"]`, `query = "yeellow"`: `correct = ""` (no match)
 - Example: `wordlist = ["Yell0w"]`, `query = "yllw"`: `correct = ""` (no match)

In addition, the spell checker operates under the following precedence rules:

- When the query exactly matches a word in the wordlist (**case-sensitive**), you should return the same word back.
- When the query matches a word up to capitalization, you should return the first such match in the wordlist.
- When the query matches a word up to vowel errors, you should return the first such match in the wordlist.
- If the query has no matches in the wordlist, you should return the empty string.

Given some `queries`, return a list of words `answer`, where `answer[i]` is the correct word for `query = queries[i]`.

Code

Python3 Auto

```
1 class Solution(object):
2     def spellchecker(self, wordlist, queries):
3         words_perfect = set(wordlist)
4         words_cap = {}
5         words_vow = {}
6
7         def devowel(word):
8             return "".join('*' if c in 'aeiou' else c
9                             for c in word)
10
11        for word in wordlist:
12            wordlow = word.lower()
13            words_cap.setdefault(wordlow, word)
14            words_vow.setdefault(devowel(wordlow), word)
15
16        def solve(query):
17            if query in words_perfect:
18                return query
19
20            queryL = query.lower()
21            if queryL in words_cap:
22                return words_cap[queryL]
23
24            queryLV = devowel(queryL)
25            if queryLV in words_vow:
26                return words_vow[queryLV]
27            return ""
28
29        results = []
30        for query in queries:
31            result = solve(query)
32            results.append(result)
33        return results
```

Saved

Ln 33, Col 24