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[Java/Python] 1-Lines

lee215
47718
Last Edit: August 12, 2019 1:55 PM
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27

Java, replace all vowels:

```
public String removeVowels(String S) {
    return S.replaceAll("[aeiou]", "");
}
```

Python:

```
def removeVowels(self, S):
    return "".join(c for c in S if c not in "aeiou")
```

Python

Suggested by @721

```
def removeVowels(self, S):str
    return re.sub('a|e|i|o|u', '', S)
```

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acp_
68
August 12, 2019 5:47 AM

```
return re.sub('a|e|i|o|u', "", S)
```

3

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multics
38
July 15, 2019 12:40 AM

This could be a bad answer in some cases. If the method is applied for a streaming data, it will cause lots of garbage collection due to how replaceAll is implemented in Java. This is an example on why some competitive programming problem is not good for job interview.

2

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Pog8
3
July 23, 2019 9:37 AM

What an answer!

1

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awallish
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July 14, 2019 6:17 AM

faster to check if it's in a set of the vowels than in a string. reduce runtime from O(5) to O(1)

0

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pancernymisiek
11
May 3, 2020 4:36 PM

```
def removeVowels(self, S: str) -> str:
    vowels = set(['a', 'e', 'i', 'o', 'u'])
    return ''.join(char for char in S if char not in vowels)
```

Isn't it faster to check character presence in a set rather than a list? I think lookup in a list is slower.

0

Reply

lianj
16
January 12, 2020 2:49 AM

I always feel good when solving the problem and not good when looking at your 1-liner. Gg!

0

Reply

usc_trojan
27
December 2, 2019 1:05 AM

Hey @lee215, since I am sure you already knew you could use `return "".join(c for c in S if c not in {'a', 'e', 'i', 'o', 'u'})`