Problem 3136: Valid Word

Problem Information

Difficulty: Easy
Acceptance Rate: 50.88%
Paid Only: No
Tags: String

Problem Description

A word is considered **valid** if:

* It contains a **minimum** of 3 characters. * It contains only digits (0-9), and English letters (uppercase and lowercase). * It includes **at least** one **vowel**. * It includes **at least** one **consonant**.

You are given a string `word`.

Return `true` if `word` is valid, otherwise, return `false`.

Notes:

* `'a'`, `'e'`, `'i'`, `'o'`, `'u'`, and their uppercases are **vowels**. * A **consonant** is an English letter that is not a vowel.

Example 1:

Input: word = "234Adas"

Output: true

Explanation:

This word satisfies the conditions.

Example 2:

Input: word = "b3"

Output: false

Explanation:

The length of this word is fewer than 3, and does not have a vowel.

Example 3:

Input: word = "a3$e"

Output: false

Explanation:

This word contains a `'$'` character and does not have a consonant.

Constraints:

* `1 <= word.length <= 20` * `word` consists of English uppercase and lowercase letters, digits, `'@'`, `'#'`, and `'$'`.

Code Snippets

C++:

```cpp
class Solution {
public:
bool isValid(string word) {

}
};
```

Java:

```java
class Solution {
public boolean isValid(String word) {


}
}
```

Python3:

```python
class Solution:
def isValid(self, word: str) -> bool:
```