Detect Capital

Question:

https://leetcode.com/problems/detect-capital/

We define the usage of capitals in a word to be right when one of the following cases holds:

- All letters in this word are capitals, like "USA".
- All letters in this word are not capitals, like "leetcode".
- Only the first letter in this word is capital, like "Google".

Given a string word, return true if the usage of capitals in it is right.

Example 1:

```
Input: word = "USA"
Output: true
```

Approach 1:

My approach was to check the first letter and if it is capital.

- If not Capital
 - a. All the other letters need to be small.
- If Capital
 - a. Check the case of the second letter.
 - If Small, all other characters need to be small
 - Else all characters need to be capital

Solution 1:

```
class Solution:
    def detectCapitalUse(self, word: str) -> bool:
        if len(word) <=1:</pre>
```

```
return True
if ord(word[0]) - ord('a')<0:</pre>
d=1
else:
 d=0
if d==0:
for i in range(1,len(word)):
 if ord(word[i]) - ord('a') <0:</pre>
  return False
else:
 if ord(word[1]) - ord('a')>=0:
  for i in range(2,len(word)):
  if ord(word[i]) - ord('a') <0:</pre>
  return False
 else:
 for i in range(2,len(word)):
  if ord(word[i]) - ord('a')>=0:
 return False
return True
```

Approach 2:

Single all the cases in the above approach were revolving around the Capital Letters, I just figured that counting the number of Capital letters and checking the following conditions is fine:

- 1. If number of capital letters = length of word
- 2. If number of capital letters = 0
- 3. If number of capital letters ==1 and this capital letter is the first letter

Solution 2:

```
class Solution:
    def detectCapitalUse(self, word: str) -> bool:
        d="A"<=word[0]<="Z"
        c=0
        for i in word:
            c+=("A"<=i<="Z")
        if c==len(word) or c==0 or (c==1 and d==1):
            return True
        else:
            return False</pre>
```

The lines "A" <= word[0] <= "Z", ("A" <= i <= "Z") will return 1 if True otherwise 0.