


모음사전

# Index	84512
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👤 Person	 Ally Hyeseong Kim
⚙️ Status	Done
🏷️ Tags	Brute Force Python
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References

<https://school.programmers.co.kr/learn/courses/30/lessons/84512>

References

1. Recursion

2. Geometric Sequence

1. Recursion

```
def solution(word):  
  
    def search(prev):  
        if prev == word:  
            return [True, 0]  
  
        if len(prev) > 4:  
            return [False, 0]  
  
        count = 0  
        for v in ['A', 'E', 'I', 'O', 'U']:  
            count += 1  
            is_done, cnt = search(prev + v)  
            count += cnt  
            if is_done:  
                return [True, count]  
  
        return [False, count]  
  
    return search("")[1]
```

2. Geometric Sequence

```
def solution(word):
    answer = 0
    dic={'A': 0, 'E': 1, 'I': 2, 'O': 3, 'U': 4}

    for i in range(len(word)):
        answer += 1 + dic[word[i]] * ((5 ** (5 - i) - 1) / 4)

    return answer
```

- 등비수열의 합: $\frac{a(r^n-1)}{r-1}$