Problem # 1641: Count Sorted Vowel String (Medium)

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<https://leetcode.com/problems/count-sorted-vowel-strings/>

Solution:

Runtime faster than 87.90%

We want all combinations with repetitions.

If there are n items out of which we have to choose r items allowing repetitions, then we will have (n + r – 1) C (r – 1) = (n + r – 1) ! / ( n ! \* (r -1)!) combinations with repetitions.

class Solution:

def countVowelStrings(self, n: int) -> int:

return (n+1)\*(n+2)\*(n+3)\*(n+4)//24