1761. Count Sorted Vowel Strings

Difficulty: Medium

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

Given an integer n, return the number of strings of length n that consist only of vowels (a, e, i, o, u) and are **lexicographically sorted**.

A string s is **lexicographically sorted** if for all valid i, s[i] is the same as or comes before s[i+1] in the alphabet.

Example 1:

Input: n = 1
Output: 5

Explanation: The 5 sorted strings that consist of vowels only are ["a","e","i","o","u"].

Example 2:

Input: n = 2
Output: 15

Explanation: The 15 sorted strings that consist of vowels only are

["aa","ae","ai","ao","au","ee","ei","eo","eu","ii","io","iu","oo","ou","uu"]. Note that "ea" is not a valid string since 'e' comes after 'a' in the alphabet.

Example 3:

Input: n = 33
Output: 66045

Constraints:

• 1 <= n <= 50