**Problem statement:**

You are asked to validate words in a language that uses broad and slender vowels.

Broad Vowels are A, O, and U.

Slender Vowels are E and I.

A valid word in this language can never have a broad vowel on one side of a consonant group, and a slender on the other.

A Consonant Group is any number of consonants in a row.

Write code to determine if a word is in the language or not. Show your OOD, TDD, and SOLID skills.

Clarification: **A single consonant is a consonant group as "any number" includes one.**

| Word | Valid/Invalid and Questions |
|------|------|
| Group | Valid  Word  (Broad vowels only) |
| Knife | Valid word.  "Kn" and "f" are consonant groups.<br>However, the word is valid because "I" and "e" are both slender. |
| Together | Invalid Word Incorrect "o", "g", "e" broad, consonant group, slender. Invalid word. |
| Number | one sider is U (Broad) and another side is "E" so it is not a good word |
| **Pron**o**unce** | Not a valid because the **un constant group has Broad vowel "U" on one side and Slender "E" on other side.**<br>Is a single consonant should be considered a consonant group. ?<br>On the above Example PR can be ignored because it is on the beginning on the word<br>"**n**" is a single consonant can that be considered as Consonant Group<br><br>"pr", "o", "n", "ou", "nc", "e" |

You may simplify this exercise by expecting the 26 capital letters , You do not have to check for any characters other than those.

Sometimes it is useful to reduce a problem first. So for the sake of explanation I will reduce the possible input. The solution should accept 26 possible characters, but in this explanation we will use only 3. "I", "X", "O".

Valid:

I, O, X, IX, IO, OX, OI, XI, XO, III, IOI, IXI, OOO, OIO, OXO, IXXI, OXXO, IOOIOIOIOOOIIIOO, OXXOIOIXXXI, OXOXXO, XIOIOXOXXOIX

Invalid:

IXO, OXI, OOIXXXXXO, IOXI, IXXXXXIOXXXXXXI

BUT your final code should handle the upper and lower case and all consonant instead of just three.