Riolku's Mock CCC S1 - Word Bot

Time limit: 2.0s   **Memory limit:** 256M

Mosey Maker is practicing how to use words!

To help him with his words, he made up a bot to recognize them. However, his bot isn't that intelligent.

His bot recognizes words as a list of alphabetic characters. Mosey Maker's bot doesn't think long sequences of vowels or consonants are valid, so if more than C consonants or V vowels are seen in a row, his bot does not consider it a word. Note that the vowels are `aeiouy`, and the consonants are `bcdfghjklmnpqrstvwxyz`. Note that `y` counts as **both** a consonant and a vowel.

Unfortunately, Mosey Maker lost his bot, and wants you to recode it.

Given a single word of N characters, is it valid?

Constraints

$1 \leq N, C, V \leq 10^5$

The word will only contain lowercase alphabetic characters.

Subtask 1 [5/15]

The letter `y` will not appear in the word.

Subtask 2 [10/15]

No additional constraints.

Input Specification

The first line will contain three integers, N, C, and V.

The next line will be the word Mosey wants you to check.

Output Specification

Output `YES` if the word is valid and `NO` otherwise.

Sample Input 1

```
12 3 3
onomatopoeia
```

Sample Output 1

```
NO
```

Explanation for Sample Output 1

Note that although it is a valid English word, `onomatopoeia` has too many trailing vowels to be a valid word.

Sample Input 2

```
8 2 4
aaybaaaa
```

Sample Output 2

```
YES
```

Sample Input 3

```
10 8 2
aayczttpqw
```

Sample Output 3

```
NO
```

Explanation for Sample Output 3

Note that since `y` is both a vowel and a consonant, `aay` is considered a string of 3 vowels.

Sample Input 4

```
5 4 4
yyyyy
```

Sample Output 4

```
NO
```