

Problem 1

Word Abbreviation

Write a program that reads a plain text file and abbreviates its contents based on the abbreviation rules given below. Additionally, it should then display this abbreviated text to the standard output.

Rules:

1. No abbreviations for words having less than 4 characters. Non-alphabetical characters (namely special characters and numbers) SHOULD be recognized as delimiters. For example, *don't* should be recognized as two (2) words, *don* and *t*.
2. Abbreviations must always include the first and last letter of the original word.
3. Abbreviations must NOT contain vowels.
4. No two consecutive consonants can be the same.
5. If two rules conflict, use the rule having a lower rule number.

Input

Input will consist of a file containing a single phrase of letters, special characters and numbers. The file name will be the only argument provided to your program and your program will be responsible for properly reading from this file.

Output

Acceptable output will consist of the abbreviated phrase being printed to the standard output.

Sample input

```
file.txt
```

Sample input file (file.txt)

```
What is the address of your institution?
```

Sample output

```
What is the adrs of your instn?
```

Additional sample input file (file.txt)

```
For more than 50 years, Cal State L.A. has been a dynamic force in  
education, setting a record of outstanding academic achievement within  
the California State University system and beyond.
```

Additional sample output

```
For more than 50 yrs, Cal Ste L.A. has been a dynmc frce in edctn, stng  
a rcrd of otstndng acdemic achvmnt wthn the Clfrna Ste Unvrsty systm and  
bynd.
```