Problem 6

Consonant Blends

5 Points

Program Name: blends.cpp **Input File: blends.dat**

It is common that computer programs count the number of words, number of letters, etc. in the English language. In this problem, you are to write a program which counts the most common two-letter consonant blends in the English language. A two-letter consonant blend is any combination of two consonants that appear contiguous in an English word. Some notes about consonants blends:

- consonants that are separated by anything (spaces, punctuation, other letters) are not consonant blends
- ordering matters when distinguishing between consonant blends ("st" is not the same thing as "ts")
- case does not matter in distinguishing consonant blends ("st" is the same as "St" and "ST" and "sT")
- a consonant is all letters in the English alphabet except for "AEIOU" (in this problem, "y" is a consonant)

Your program will read text from an input file and determine the 5 most frequently occurring consonant blends from the text. In case of a tie, the consonant blends should be printed in alphabetical order.

Input

Input to your program consists of free-form text such that any printable ASCII character can appear. Your program should read the entire input file finding and counting the consonant blends in it.

Output

Output from your program will consist of exactly 5 lines containing the most frequently occurring consonant blends sorted in descending order of frequency. The first line lists the most commonly occurring consonant blend in columns 1 and 2 followed by a blank in column 3 followed by the number of occurrences of the consonant blend left-justified starting in column 4 with no leading zeroes. The second through fifth lines list the second through fifth most commonly occurring consonant blends in the same format as the first line. All consonants in the output file must be in lower case. You may assume that there are at least five consonant blends in the input file.

Example: Input File

```
LUBBOCK, Texas (Ticker) -- Texas Tech marched into its second straight "Sweet
16" as freshman Plenette Pierson led four players in double figures with 19
points en route to a 76-59 victory over Tulane in the Mideast Region.

Aleah Johnson, Katrisa O'Neal and Tanisha Ellison had 12 points apiece for
third-seeded Texas Tech (27-4), which plays No. 2 Notre Dame on Saturday in
Memphis, Tennessee.

The other "Sweet 16" matchup at Memphis will be top-seeded Tennessee and No.
4 Virginia.

Conference USA Player of the Year Grace Daley scored 24 points for Tulane
(27-5), which failed to set a school record for victories in a season. The
Green Wave have never advanced to the regionals.

The Lady Raiders used a pair of first-half runs to put away the Green Wave.
Ellison scored seven points during an 11-0 burst that gave Texas Tech a 22-16
lead with 7:24 to play before the break. But the key run started 2:48 before
intermission, when Pierson ignited a half-ending, 10-0 run with a jumper that
made it 36-24. Amber Tarr hit a 3-pointer with 24 seconds left and Keitha
Dickerson added one at the buzzer after a steal by Pierson.
```

Output to screen

```
th 19
ch 8
rs 8
nt 7
nd 6
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