

Problem Set 4 Exercise #15: Pig Latin

Reference: Lecture 11 notes

Learning objective: Characters and Strings

Estimated completion time: 45 minutes

Problem statement:

[Simplified from CS1101 AY2005/06 Semester 1 Exam Q6]

Pig Latin is a language game primarily used in English. It is usually used by children, who will often use it to converse in (perceived) privacy from adults, or simply for amusement (From Wikipedia).

We shall study one simplified version of Pig Latin here. It involves two cases.

1. For a word starting with a consonant, move that first consonant to the end of the word and append “ay”. Examples: “computer” becomes “omputercay”, “program” becomes “rogrampay”.
2. For a word starting with a vowel, simply append “way” to the word. Examples: “able” becomes “ableway”, “only” becomes “onlyway”.

Write a **non-OO** program **PS4_Ex15_PigLatin.java** to read in a sentence comprising words in lowercase, and convert the sentence into Pig Latin. You may assume that there is only one space separating two words.

Sample run #1:

```
Enter a sentence: my cat likes to eat fish
Converted: ymay atcay ikeslay otay eatway ishfay
```

Sample run #2:

```
Enter a sentence: ok
Converted: okway
```

Useful tips:

Explore the `split()`, `charAt()` and `substring()` methods of the Java `String` class.