

PigLatin

“PigLatin” is an English language game in which words are alternated based on the following two simple rules:

Rule 1. If a word begins with one or more consonant letters (that is, any letter that is not ‘a’, ‘e’, ‘i’, ‘o’, ‘u’, or ‘y’ – ‘y’ is treated as a vowel if it is the first letter in a word), find the substring that spans all consonants until a vowel is encountered, move this consonant substring to the end of the word and then add “ay”. For example:

English		PigLatin
<u>s</u> imple	→ imple <u>s</u> + ay	→ implesay
<u>th</u> is	→ ist <u>h</u> + ay	→ isthay
<u>thr</u> ee	→ eeth <u>r</u> + ay	→ eethray

Rule 2. If a word begins with a vowel or the letter ‘y’, then just add “ay” to the end of the word. For example:

English		PigLatin
a	→	aay
i	→	iaay
apple	→	appleay
other	→	otheray
you	→	youay

PigLatin is often spoken when you do not want the listener to understand what you are saying. For example, “ouray eachertay ookslay unnyfay”.

The C function PigLatin() converts English words to PigLatin based on the rules described above. The function, PigLatin(), should convert the current English word from the pointer parameter *eword* to PigLatin based on the two rules described above. The result should be placed in the pointer parameter *PLword*.

A sample program template is given below:

```
#include <stdio.h>
#include <string.h>
void PigLatin(char *eword, char *PLword);
int main()
{
    char eword[80];
    char PLword[80];
    printf("Enter your English word: \n");
    scanf("%s", eword);
    PigLatin(eword, PLword);
    printf("PigLatin(): %s\n", PLword);
    return 0;
}
void PigLatin(char *eword, char *PLword)
{
    /* Write your code here */
}
```

Some sample input and output sessions are given below:

- (1) Test Case 1:
Enter your English word:
simple
PigLatin(): implesay
- (2) Test Case 2:
Enter your English word:
this
PigLatin(): isthay
- (3) Test Case 3:
Enter your English word:
apple
PigLatin(): appleay
- (4) Test Case 4:
Enter your English word:
other
PigLatin(): otheray
- (5) Test Case 5:
Enter your English word:
you
PigLatin(): youay