

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
simple	→ imple <u>s</u> + ay →	implesay
this	→ ist <u>h</u> + ay →	isthay
three	→ 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(): imple say
- (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

copy remaining string to PLword

string before a vowel

```
#include <stdio.h>
#include <string.h>
#define MAX_SIZE 80
void PigLatin(char *eword, char *PLword);
int main()
{
    char eword[MAX_SIZE];
    char PLword[MAX_SIZE];

    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)
{
    int vowel;
    int j,i;
    int idx=0;
    char temp1[80],temp2[80];

    while(idx<strlen(eword)){
        vowel = 1;
        switch(eword[idx]){
            case 'a': case 'e':
            case 'i': case 'o':
            case 'u': case 'y':
                vowel = 0;
        }
        if(vowel ==0)
            break;
        else
            idx++;
    }
    j=0;
    for(i=idx;i<=strlen(eword);i++){
        PLword[j] = eword[i];
        j++;
    }
    PLword[j] = '\0';
    for(i=0;i<idx;i++){
        temp2[i] = eword[i];
    }
    temp2[idx] = '\0';
    strcat(PLword,temp2);
    strcat(PLword,"ay");
}
```