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oldsymbol{1} V^* C Program by Dave Russillo. Made for CS1310. Translates English sentences into Pig Latin.
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    #include <stdio.h>
     #include <string.h>
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16
170 int check_if_vowel(char letter) {    // checks if parameter is a vowel or not
18 | if(letter == 'a' || letter == 'e' || letter == 'i' || letter == 'o' || letter == 'u' ||
190 | letter == 'A' || letter == 'E' || letter == 'I' || letter == 'O' || letter == 'U') {
21
22
        } else {
          return 0;
23
        }
24 <sup>[</sup> }
25
26
27
31
            return 0;
32
33 -
34
        return 1;
35 }
36
37
38
       roid translate(char *word) { // translate (char *word) { // translate (char *word) { // translate (char temp[strlen(word) - 1]; // temporary string used for initial consonants; char temp[strlen(word) - 1]; /* temporary string used for initial consonants; | 1 shorter than word because worst case vowel will be in index len - 1 */
39 proid translate(char *word) { // translates to pig latin
40
41
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44
45
46h
       if(check_if_vowel(word[0]) || check_if_all_consonants(word)) {
47
          printf("%sway ", word);
       48
49 ₽
50 🖨
51
52
             if(first_vowel_reached) {
  printf("%c", word[i]);
} else {
53 ₪
54
55
56
                temp[strlen(temp)] = word[i];
57
                temp[strlen(temp) + 1] = '\0';
58
59
           printf("%say ", temp);
60
61
        }
63
```

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66 ☐ int main(void) {
         char sentence[81]; // input sentence
67
         char sentence copy[81]; // copy of sentence, because strtok messes with it and causes errors
68
69
          char *current;
         int i:
70
71
72
         printf("This program takes in a sentence from the user and outputs its Pig Latin translation. \n"
                   "In pig latin, if the word starts with a vowel, or if it doesn't have a vowel at all, \n" it stays the same with only 'way' appended at the end. Otherwise, the word will start \n" "with every letter from the first vowel to the end of the word, with then the initial \n" "consonants appended, followed by 'ay'. \n"
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74
75
76
         "Accepts sentences of max 80 characters per line, no punctuation. Loops until user inputs STOP as sentence. \n\n"); while(strcmp(sentence, "stop") != 0 && strcmp(sentence, "STOP") != 0) {
77
78 🛱
79
            printf("Input sentence here: \n");
            gets(sentence);
80
            if(strcmp(sentence, "stop") == 0 || strcmp(sentence, "Stop") == 0 || strcmp(sentence, "STOP") == 0) {
81 🛱
82
               printf("Shutting down... \n");
            } else {
  printf("\nYou entered: \n%s \n\nTranslation: \n", sentence);
83
84
               strcpy(sentence_copy, sentence); // work with copy and keep original intact current = strtok(sentence_copy, " ");
85
86
87 E
               while(current != NULL) { // for each word
88
                  translate(current);
                  current = strtok(NULL, " "); // get next word
89
 90
               printf("\n\n");
91
92
         }
93
 95
        return 0;
96 L 3
This program takes in a sentence from the user and outputs its Pig Latin translation.
In pig latin, if the word starts with a vowel, or if it doesn't have a vowel at all,
it stays the same with only 'way' appended at the end. Otherwise, the word will start
with every letter from the first vowel to the end of the word, with then the initial
consonants appended, followed by 'ay'.
Accepts sentences of max 80 characters per line, no punctuation. Loops until user inputs STOP as sentence.
Input sentence here:
Another one bites the dust
You entered:
Another one bites the dust
Translation:
Anotherway oneway itesbay ethay ustday
You entered:
This line is a test of my pig latin translator
isThay inelay isway away esttay ofway myway igpay atinlay anslatortray
Input sentence here:
I love computers and programming
You entered:
I love computers and programming
Translation:
Iway ovelay omputerscay andway ogrammingpray
Input sentence here:
stop input after this line and Pqrstuvwxyz
You entered:
stop input after this line and Pgrstuvwxyz
opstay inputway afterway isthay inelay andway uvwxyzPqrstay
Input sentence here:
Shutting down..
```