PROBLEMS

# 1.

Characters are read from the keyboard (from a text that consists of different characters and represents a sentence, i.e. it consists of several words made up of lowercase letters and always ends with a period) until a period is read. To make a program that will print out the same words with the difference that for each one appearing on two consonants next to each other, it will exchange their places. Note: assume that there are no words that have more than two consonants in a row.

# 2.

Time is inserted in international form (4 values: hour - from 1 to 12, minutes - from 0 to 59, seconds - from 0 to 59 and sign A if it is from midnight to morning or P if it is noon to midnight). Present the time in the Macedonian format.

SOLUTIONS

# 1.

#include **<stdio.h>  
  
int** main(){  
 **int** f = 0;  
 **char** prev=**'-'**, next, c;  
 **while**(scanf(**"%c"**, &next)){  
 **if**(prev==**'-'**){  
 prev = next;  
 }  
 **else if**(next == **'.'**){  
 **break**;  
 }  
 **else**{  
 **if**(prev >= **'a'** && prev <= **'z'** &&  
 prev != **'a'** &&  
 prev != **'e'** &&  
 prev != **'i'** &&  
 prev != **'o'** &&  
 prev != **'u'**&&  
 next >= **'a'** && next <= **'z'** &&  
 next != **'a'**&&  
 next != **'e'** &&  
 next != **'i'** &&  
 next != **'o'** &&  
 next != **'u'**) {  
 f = 1;  
 c = prev;  
 printf(**"%c"**, next);  
 }  
 **else if**(f) {  
 printf(**"%c"**, c);  
 f = 0;  
 }  
 **else** {  
 printf(**"%c"**, prev);  
 }  
 prev = next;  
 }  
 }  
 printf(**"%c%c"**,prev,next);  
 **return** 0;  
}

# 2.

#include **<stdio.h>  
  
int** main(){  
 **int** h,min,sec;  
 **char** c;  
 scanf(**"%d%d%d\n"**,&h,&min,&sec);  
 scanf(**"%c"**,&c);  
  
 **if**(c==**'A'**){  
 **if**(h>=12){  
 printf(**"%.2d:%d:%d"**,h-12,min,sec);  
 } **else**{  
 printf(**"%.2d:%d:%d"**,h,min,sec);  
 }  
 } **else if**(c==**'P'**){  
 **if**(h<12){  
 printf(**"%.2d:%d:%d"**,h+12,min,sec);  
 } **else**{  
 printf(**"%.2d:%d:%d"**,h,min,sec);  
 }  
 }  
 **return** 0;  
}