**

*TAKE HOME FINAL EXAM (THFE)*

*(SPrıng 2020)*

STUDENT

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#include <stdio.h>

#include <string.h>

char \*convertFun(char \*s){

for (int i = 0; s[i]!='\0'; i++) {

if(s[i] >= 'A' && s[i] <= 'Z') {

s[i] = s[i] + 32;

}

}

return s;

}

int main() {

char s1[101];

printf("Please, write your string: ");

gets(s1);

printf("After lowercase conversion your string is: %s \n", convertFun(s1));

char \*s2= convertFun(s1);

int counter=0, vowels=0, consonants=0, spaces=0, specialCharacters;

for(counter=0; s2[counter]!='\0';counter++)

{

if(s2[counter]>='0' && s2[counter]<='9')

;// i assume that string can contain digits

else if((s2[counter]>='a' && s2[counter]<='z'))

;

else if(s2[counter]==' ')

spaces++;

else

specialCharacters++;

}

for(int j=0;s2[j];j++)

{

if((s2[j]>=97 && s2[j]<=122))

{

if(s2[j]=='a'|| s2[j]=='e'||s2[j]=='i'||s2[j]=='o'||s2[j]=='u')

vowels++;

else

consonants++;

}

}

printf("Total vowels: %d\n", vowels);

printf("Total consonants: %d\n", consonants);

printf("Total spaces: %d\n", spaces);

printf("Total specials character: %d\n", specialCharacters);

printf("Total words: %d\n", spaces+1);

return 0;

}