Additional practice problems for the CS50x Week 2

These are optional additional practice problems. For each problem create a directory with the problem name (title of the problem) and inside that folder create a C file with the same name.

w2ap1-palindrome

Write a C program that takes a single command-line argument as a string. If the string is a palindrome, output 'Yes'; otherwise, output 'No.' If an incorrect number of command-line arguments is provided, the program must exit with a status code of 1. Your program must be case-insensitive and ignore any space characters.

Hint

Your algorithm should work for strings with both an even and an odd number of characters.

Example

```
w2ap1-palindrome/ $ ./w2ap1-palindrome
Use one command line argument
w2ap1-palindrome/ $ ./w2ap1-palindrome a b
Use one command line argument
w2ap1-palindrome/ $ ./w2ap1-palindrome 12321
Yes
w2ap1-palindrome/ $ ./w2ap1-palindrome AbBa
Yes
w2ap1-palindrome/ $ ./w2ap1-palindrome "Never odd or even"
Yes
w2ap1-palindrome/ $ ./w2ap1-palindrome 124321
No
```

Testing and submitting your code

```
check50 okskola/cs50addp/main/w2ap1-palindrome
submit50 okskola/cs50addp/main/w2ap1-palindrome
```

w2ap2-stringsort

Write a program that takes two strings of characters as input from the user. The program should output these strings in alphabetical order, ignoring spaces and the case of the letters. If the strings are equal, output them in the same order as they were inputted. You may assume that the user will never enter more than 100 characters.

Example

For example, if the user enters “A Ab   dE f” and “AbCd Ef”, then the program outputs:

```
First : A b cD  eF
Second: aaC De  F
aaC De  F
A b cD  eF
```

Testing and submitting your code

```
check50 okskola/cs50addp/main/w2ap2-stringsort
submit50 okskola/cs50addp/main/w2ap2-stringsort
```