

## Lab 4.10.11.1 Strings: advanced operations

### Objectives

Familiarize the student with:

- Advanced string manipulation
- Getting words from the user
- Printing on screen

### Scenario

A palindrome is a word (or other sequence of characters) that reads the same backward or forward. Write a program that takes one word and prints its palindrome. You can use the *for* loop, the *strlen* function, and the *%s* format in *scanf* and *print*. You can use a new variable or one declared earlier for holding the reversed value of a word. Declare a string big enough to hold long words. For the record, you should use *fgets* instead of *scanf* in the future, especially when you want to have long strings with spaces. Your version of the program must print the same result as the expected output.

```
#include <stdio.h>
#include <string.h>

int main()
{
    /* your code */
    return 0;
}
```

### Example input

book

### Example output

koob

### Example input

dictionary

### Example output

yranoitcid

### Example input

ailihphilia

### Example output

ailihphilia