

Exercise 1. Strings:

(5 points)

- 1.1. Write a program to find the length of a string using pointers.
- 1.2. Write a program to compare two strings using pointers.
- 1.3. Write a program to reverse a string using pointers.
- 1.4. Write a program to check if a string is a palindrome using pointers.
- 1.5. Write a program to find the first occurrence of a character in a string using pointers.
- 1.6. Write a program to find the last occurrence of a character in a string using pointers.
- 1.7. Write a program to remove all spaces from a string using pointers.
- 1.8. Write a program to convert a string to uppercase or lowercase using pointers.
- 1.9. Write a program to count the number of words in a string using pointers.
- 1.10. Write a program to count lines on a text that contains multiple lines.

Lab assignment: String Splitting:

(5 points)

Write a program to split a string into words using pointers.

Hint: you may need to count words in the string before allocating enough space. After that do the copying process for each word.

Bonus exercise: Showing line number for multiple lines string

(5 points)

Write a program to read a text that contains multiple lines. Rewrite the string by printing the line number before the starting of each line.