

### 3 Strings

- 3.01 Count the number of spaces in a sentence.
- 3.02 Invert the characters of a sentence.
- 3.03 Count the number of vowels of a sentence.
- 3.04 Change the number of the hundreds to the number of units in a 3-digit number.
- 3.05 Separate the digits of a number using characters.
- 3.06 Separate the words from a sentence.
- 3.07 Given a sentence determine the number of times that each of the distinct words appears.
- 3.08 Write a program that given a list of N given names determine the percentage of male and female names.  
(Note: It is considered a female name if it ends with the letter 'a')  
Ex: N: 5      Joao, Cristina, Carlos, Joana, Paula      A: Male: 40%, Female: 60%
- 3.09 Develop a program that given a sentence computes the average number of letters in the words of the sentence.  
Ex: I am going to the beach:      A: 3
- 3.10 Given a text insert spaces between words so that all lines have the same number of characters.
- 3.11 Given a sentence determine the number of words beginning with a vowel.  
Ex: I am going to the beach today:      A: 2
- 3.12 Given a sentence create and print a new sentence composed of the same words of the initial sentence but sorted alphabetically.  
Ex: I Went To Cinema      A: Cinema I To Went
- 3.13 Given a sentence create and print a new sentence with the same words but placed in the reverse order.  
Ex: I went to the cinema      A: cinema the to went I
- 3.14 Given a sentence create and print a new sentence so that the first letter of all words is written in upper case and the other letters as lowercase letters.  
Ex: I went to CINEMA      A: I Went To Cinema