



## DIVIDE&CONQUER PROBLEMS

Apply the divide and conquer strategy to implement the following recursive functions.

- a) Function that takes an array of strings as input parameter and returns the longest string.

Ex: `data = ['john', 'adam', 'alexander', 'robert', 'gerard']`

- b) Function that takes a string `s` and a character `c` as input parameter and returns the number of occurrences of `c` in `s`.

- c) Function that takes an array of strings as input parameter and returns a list with the strings with length less than or equal to 2.

Ex: `words= [ "the", "doctor", "arrived", "at", "the", "door", "of", "his", "home"]`

- d) Function that receives an ordered array of integers `A` and a value `x`, and returns the index of `x` in array `A`. If `x` does not exist, the function returns -1.