

```

fichero = read.csv2("distancia_universitarios.csv")
distancias = fichero$Distancia
len = function(list){
  count = 0
  for (element in list){
    count = count + 1
  }
  count
}
distancias

## [1] 16.5 34.8 20.7 6.2 4.4 3.4 24.0 24.0 32.0 30.0 33.0 27.0 15.0 9.4 2.1
## [16] 34.0 24.0 12.0 4.4 28.0 31.4 21.6 3.1 4.5 5.1 4.0 3.2 25.0 4.5 20.0
## [31] 34.0 12.0 12.0 12.0 12.0 5.0 19.0 30.0 5.5 38.0 25.0 3.7 9.0 30.0 13.0
## [46] 30.0 30.0 26.0 30.0 30.0 1.0 26.0 22.0 10.0 9.7 11.0 24.1 33.0 17.2 27.0
## [61] 24.0 27.0 21.0 28.0 30.0 4.0 46.0 29.0 3.7 2.7 8.1 19.0 16.0

len(distancias)

## [1] 73

j = 72
print(distancias[j] > distancias[j+1])

## [1] TRUE

bubble = function(list){
  n = len(list)
  for (i in 2:n){
    for (j in 1:(n-i-1)){
      if (list[j] > list[j+1]){
        temp = list[j]
        list[j] = list[j+1]
        list[j+1] = temp
      }
    }
  }
  list
}
distanciasordenadas = bubble(distancias)

## Error in if (list[j] >list[j + 1]) {: argumento tiene longitud cero
distanciasordenadas

## Error in eval(expr, envir, enclos): objeto 'distanciasordenadas' no encontrado

```