

Searching and Sorting

1. An array **WORDS** contains 100 strings. Write a program to sort the array using bubble sort based on following criteria:
 - Shorter strings should arrive first
 - Among strings with same length, sort alphabetically.

Assume comparison operators work for string as well.

2. An array **NUMBERS** contains 200 numbers. Write a program to:
 - Calculate mean/average of the numbers
 - Check if the mean exists in the numbers array.

Output format "Mean is 45 and it doesn't exist in the array."
