Algorithms

1) Find the average of a list of numbers

1 Declare a variable called "average"

2 Iterate through the list of numbers, adding each to the variable "average"

3 Divide the variable "average" by the length of the list

4 Print the variable "average" to standard output

2) Count how many times a number appears in a list of numbers

1 Declare a variable called "count"

2 Declare a variable called "myNumber" that contains the number you are searching for in the list

3 Iterate through the list, adding 1 to count if the current iteration is equal to "myNumber"

4 Print the variable "count" to standard output

3) Find the minimum/maximum value in a list of numbers

1 Declare a variable called "minimum"

2 Set minimum to the first value in the list

3 Iterate through the list, making the variable "minimum" the current iteration if the current iteration is lower than what "minimum" is

4 Print "minimum" to standard output

4) Sort a list of numbers/Sort a list of words

1 Declare a list called "sorted"

2 Find the minimum value of the list and put it at index 0 Add a number to the list only if it is equal to or greater than the number in the previous index

3 End the loop when the length of "sorted" is equal to the length of the previous list

4 Print "sorted" to standard output

5) Search for a number in a list of numbers or a word in a list of words (unsorted list/sorted list)

1 Declare a variable "desiredNumber" that contains the number you are searching for

2 Declare a variable "indexNumber"

3 Iterate through the list until the current iteration is equal to "desiredNumber"

4 make the value of "indexNumber" the index at which "desiredNumber" appears.

5 Print "indexNumber" to standard output