Function SubListSort(list):

Initialize source and destination arrays of the same size as the input list

Initialize variables: index, iSource1, iSource2, iDest, passNum

Set passNum to 1

While passNum is less than or equal to 2:

index = 0

iDest = 0

While index < length of list:

# Identify Runs

Find the first sorted sub-array and store it in source1

Find the next sorted sub-array and store it in source2

# Merge Runs

While source1 and source2 are not empty:

If source1[0] <= source2[0]:

destination[iDest] = source1[0]

Remove the first element from source1

Else:

destination[iDest] = source2[0]

Remove the first element from source2

Increment iDest

# Copy any remaining elements from source1 or source2 to destination

If source1 is not empty:

Copy remaining elements from source1 to destination

If source2 is not empty:

Copy remaining elements from source2 to destination

Increment index by the size of merged sub-arrays

# Swap source and destination arrays for the next pass

Swap source and destination arrays

Increment passNum

