2. Merge Algorithm for two sorted Arrays

Algorithm merge (arrA, arrB)

index A < 0
index B < 0
index C < 0
arr < int [arr A. size() + arr B. size()]

while index A < arr A. size() and index B < arr B. size() do

if arr A [index A] < arr B [index B] then

arr C [index C] < arr A [index A]

index A = index A + L

else

arctindexc] < arrBCinlexB]
indexB < indexB+1

indexc < index c+1

if indexA < arrA. size () then

for i < indexA to arrA. size ()-1 do

arrC [indexC] < arrA[i]

indexC < indexC+1

{ increment counter i }

else if indexB < arrB.size() then

for i < indexB to arrB.size()-1 do

arrc [indexC] < arrB[i]

indexC = indexC +1

{increment counter i}

return arc