* Mergesort (a,low,high)

ilp: unsorted Array A[o.-n-1]

Olp. Sorted Array A[o...n-1]

if (low)high) return

mid \((low + high)/2

Mergesort (a, low, mid)

Mergesort (a, mid + 1, high)

SimpleMerge (a, low, mid, high)

* Algorithm SimpleMerge (A,B,C,m,n)

Ilp: A is a socted Array with m elements A [0. -- m]

B is a socted Array with n elements B [0. -- n]

Olp: C is a socted Array Obtained after merging A & B

i < j < K < 0

while (i < m and j < n)

if (A[i] < B[j]) then

c[K] < A[i]

i < i + i + i

k < k + i

else

c[K] < B[j]

j < j + j + i

end if $K \leftarrow KH$ end while

while (ikm)

C[K] \Left

i \Left

K \Left

end while

while (jkn)

C[K] \Left

j \Left

K \Left

end while