

pseudocode

$C = \text{output} [\text{length} = n]$

$A = 1^{\text{st}} \text{ sorted array } [n/2]$

$B = 2^{\text{nd}} \text{ sorted array } [n/2]$

$i = 1$

$j = 1$

for $k = 1$ to n

 if $A[i] < B[j]$

$C[k] = A[i]$

$i++$

 else $[B[j] < A[i]]$

$C[k] = B[j]$

$j++$

end.

level 0 root \circ

level 1

level 2 \circ

level 3 $\circ \cdots \cdots \cdots$