

ESERCIZIO 15^a - 2^a parte

HAMWOREK($A[1..n], k$)

IF ($m=1$) then return A ELSE

$x = \text{SELECT}(A[1..n], k)$

$A_1 = \text{QUICKSORT}(A[1..m-k], \dots)$

for $i \rightarrow 1$ to k

$B[i] = A[i]$

return B

ERRATO

SELECT ha TEMPO $\Theta(n)$

QUICKSORT ha TEMPO $\Theta(k \log k)$

FOR ha imp $\Theta(k)$

END $T(m) = \Theta(m + k \log k)$

HAMWOREK($A[1..n], k$)

IF $m=1$ OR $k \geq m$ return A

ELSE

$x = \text{SELECT}(A, m-k)$

for $j \leftarrow 1$ to m

if $A[j] \geq x$

$B[j] \leftarrow A[j]$

$j \leftarrow j+1$

return B

QUICKSORT(B)

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