

ESERCIZIO 2° - 2° parte

Quicksort (ℓ, r) % Ordina $A[\ell..r]$

$i = \ell, j = r$

a = qualche elemento di $A[\ell..r]$

repeat

while $A[i] < a$ do $i = i + 1$

while $A[j] > a$ do $j = j - 1$

if $i \leq j$ then

scambia tra loro $A[i], A[j]$

$i = i + 1, j = j - 1$

until $i > j$

if $\ell < j$ then Quicksort (ℓ, j)

if $i < r$ then Quicksort (i, r)

$A = \{24, 33, 25, 45, 11, 12, 23, 13\}$

Quicksort (1, 8)

$i = 1, j = 8$

$a = 24$

$A[1] = 13 \quad A[8] = 24$

$i = 9 \quad j = 7$

Quicksort (1, 7)

$A = \{13, 33, 25, 45, 11, 12, 23, 24\}$

$i = 1, j = 7$

$a = 13$

$j = 6$

$A[1] = 12 \quad A[6] = 13$

$i = 8, j = 5$

Quicksort (1, 5)

$A = \{12, 33, 25, 45, 11, 13, 23, 24\}$