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Cpts 350

HW2

1. partition(A, p, q)

Pivot=A[q]

i=p and j=p

Label: b

if A[j]<pivot swap(A[i], A[j]), and i++

j++

if j=q swap(A[i], A[q]) and return i

goto b

2.

3. bestcase: (1)

Worstcase:

Averagecase:

or the order may be opposite if 0<n<1

4. bestcase: arraysize=1 or 0

Worstcase: since it works the same way as quicksort

Averagecase: as the worstcase is and