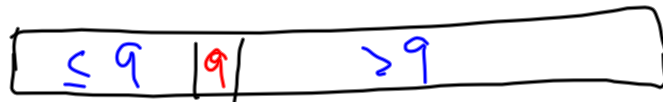
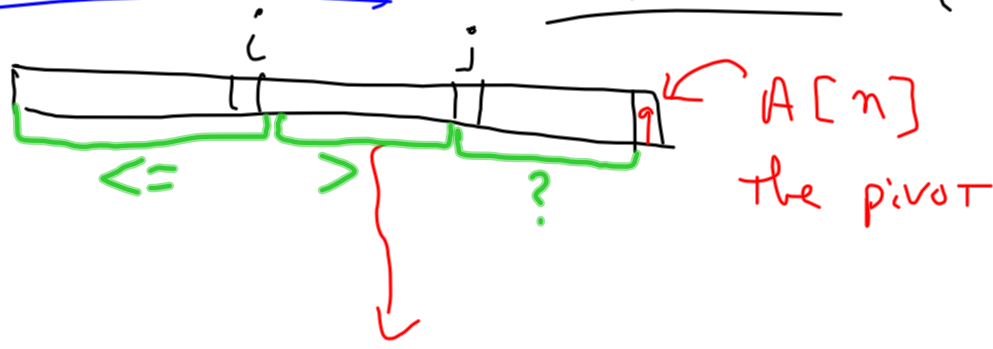


Good Morning! Quicksort (A)



The array upto and including i contains elements $\leq A[n]$

from $i+1$ upto $j-1$, the elements are $> A[n]$.

from j on up, we haven't looked yet.

$$\sum_{i=1}^n i^k = \Theta(n^{k+1})$$

~~Ex~~ $1 + 2 + \dots + n = \Theta(n^2)$