Partition

PARTITION(A, p, r)

- 1: x = A[r] // pivot element
- 2: i = p 1
- 3: **for** j = p to r 1 **do**
- 4: **if** $A[j] \leq x$ **then**
- 5: i = i + 1
- 6: $A[i] \leftrightarrow A[j]$
- 7: $A[i+1] \leftrightarrow A[r]$
- 8: return i+1