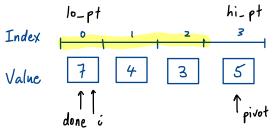
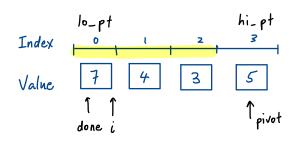
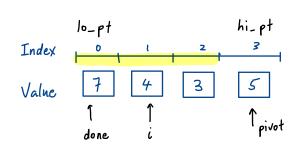
## How To Quick Sort?

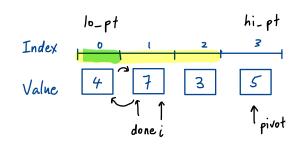


- 1) Always make pivot sit outside the part we wish to sort
- (a) Use done to track the sorted list

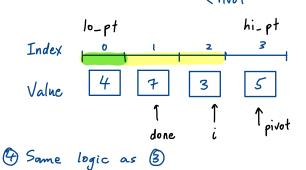


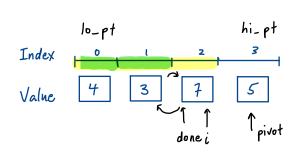
- 2) Compare each value with pivot and put all the smaller value to the left
- 2.a Here 7 is not smaller than
  5 so done did not increase





3) Here we found something that is smaller than 5 so we swap it with what was in done. By definition pone so everything is in the right place >= Pivot





(5) Reached the end! Now everything < pivot is before done which implies everything >= pivot is after done

so we only need to swap pivot with done (value and pt) so pivot is now in the middle

