We are looking for the 7'th smallest element i.e i=7 pivot p q Since i>k we do a recursive call on the right side. i becomes i-k=7-4=3ppivot p q **<**-k=2 **→** Since i>k we do a recursive call on the right side. i becomes i-k = 3-2 = 1ppivot **<**+k=2 **→** Since i<k we do a recursive call on the left side. i does not change

Since p==r the algorithm stops and returns 11