	טוז יעא וקכ :	sousey. value = pv. > 10r
	2, 1,0, 3, 4,5 =pv >pv	
	∠pv >pv	
	1	
This	3 is one step of the partition	oning obne!
(B) Pseudo	<u>ode</u>	
fctn	partition (A. L.R)	A=List. L, R=start + ending indices
	PY=A[R]	Here pv = Tightmost value
	t= L	
	for i = L to R-1	Note: bk there is just one loop
	if A[i] <= pv	W) Constant time inside
	A[Ł] ↔ A[	
	E++	this is
	end if	O(length of list)
	end for	
	A[t] +A[R]	
	The state of the s	index of where pv. ends up.
end !	_	
	w the pseudocode do what	lue discussed?
what t	the alg cloes is:	WC United Section
t is	"hunting fur" the Leftmost	Dalue > DV.
1 15	looking for the first sub	seament indue 4 DV.
note: il	t encounters values <p< td=""><td>y lue will do some</td></p<>	y lue will do some
	seless swapping. That's	
ev	2 5 4 1 0	2 porthu(1005)
	2 5 4 1 0 ,1 4 A[1] = pu	2. DI = 3
<b>1</b>	useless swap! Ett,	:44:
	2 5 4 1 0 t,1 -ALIJ \$ PV	3
	no Swap! i++	
	110 JUMP 147	

			_				lap!												
			2				1												
				t			4			¥ P	V								
					No	Sw	ap!	1	++										
			2	5		4	١		0	3									
				Ł			i		4-	ALI	]	PJ							
							ŧ					•							
			2			•	5				,								
												1] 4	PV						
							t												
			2	١			5												
			۷			v	り と					nan	ماروره	ام ا		- 4 (	202	MS 10	1041
							E			1		1				77	(21 60)	M2 11/	ליו ייד
				,								MIT	for	looh	•				
			2	1		0	3		4	5				1	1				
										1	Swa	P	afte		p!				
					De	ne!													
(	(D) (C	hoosi	m t	he -	p iv o	t	uhl	W											
	<b>(D)</b> (C	in t	heory	we	Cot	N	cho	36	Gu	J	alue	in'	the	622					
	•	the	Pseu	doco	de	regi	vires	it	to	be t	the	las	t v	alu	e.				
							y n												
					•	•	ue				T								
			utit																
						. 41	ne n		<b>3</b> L	h.	+	010	at !	-lae	Ond				
		14	any	We d	. 1 t	000	ou b	reo Ali	144  -	MIC	71	<b>90</b> (,	. 11		ora				
		IW	P	ı w	AUO	- (C2)	ienti			6 /1	) IM	S AA	IIQA						
		W	Milh	, īs	n ič	e	W C	VIK	ial	UN	N (1	ung.	jer.						
		H	Men	1-4	ndi	y	the is	YM	dia	n i	ĪS 1	ot	obj	WS.					
	•	h	prac	lice	the	<b>K</b> q.	īS	ch	0sen	M	ndo	mly	•						
			-			-													

4 Now on to Quicksort! At this point quicksurt is easy! feth quickson (A, L, R) 4-Assm A=global list if LCR resulting piurtinder = partition (A, L, R)
quicksoft (A, L, resulting piurtinder -1)
quicksoft (A, resulting piurtindex +1, R) end to Start the whole process:
quicksoft (A, O, length(A)-1) (9 Time Complexity? Avx Space? In-Place? Stable