	Batch: B/1	vait S. Pinas 32		IPS_B Page-niou	
	111Diamoin			and the second second	1
	Exvertment-2				
	Alm: Experiment based on stille & conquer				
1	Experêment -2  Alm: Experiment based on shifte & conquer opproach				
	The state of the s	The state of the s	A STATE OF THE PARTY OF THE PAR	the state of the s	
	Me	inge Sort &	gusit So	liaint about	*
		<u> </u>			
1	Merge Sort: It recurrincly devides an unsorted array ento conaller sub-aways until meh				
				igle element, \$	
in 4	then merges the echt-arrays back together				
7.5					-
	Gusck sort: 9t selects a privat element & tups  partioning the list about that privat  \$\frac{4}{2}\text{sects resulting 2 subs-liste.}				
	partfening the lest about that price				
	ore of	unswely conta	resulting	2 suls-liste.	-
	Concluston: Herge sort can be slower than				
15 45 50	quek sort for small lests or partially corted				
· V	data, but	can be fast	as be faster than merge sort		
				Sectioncy & In place	-
	& sorting &	lenge sort	4 more if	able than	-
1.3	quet sort but required more memory & has a				
	guaranteed worst case time-complexity. Merge				
*	Sort as used for External sorting & parallel				
	processing whenas quick sort is used due to				
204	Cache effect	gence & gn-p	lace sorth	19.	min
		Time comp	lexity Spa	ice complexity	-
	Merge Sort	O(nlogn)		occ complexity O(n)	-
	guset sort			0(log n)	gelange und to 1
		0 (-1)	-ce	reaction to the control of the contr	