PAGE NO.: DIVIDE AND CONQUER The most well known algorithm design strategy 1. Divide instance of problem into two or more smaller instances. 2. Solve snaller instances. recursively 3. Obtain solution to original (larger) instance by combining these solutions. DIVIDE And Conquer Technique. (a problem of size n) subproblem 1 of size n/2 of size n/2 subproblem 2 sub problem!

la solution to the original problem.

	MERGEORT
-	Splid array A [o. n-i] in the about equal halves and make copies of each half in arrays B and c
-	Sort arraye B and C recurstrely.
_	Merge conted omrays. B and e into armay A as
	Repeat the following until no element rena In one of the arrays:
(5	- compare the first elements in the renaining improcessed - copy the smaller of the the pro into
101	portion of that array
	one processed copy the remaining unprocessed elements from the other away mix A.
	PSEUDOCODE OF MERGESORT:
	Alghoritum: - Mengesord (A [on-1])
	11 Sort annay Aco. n-1) by recursive menges



