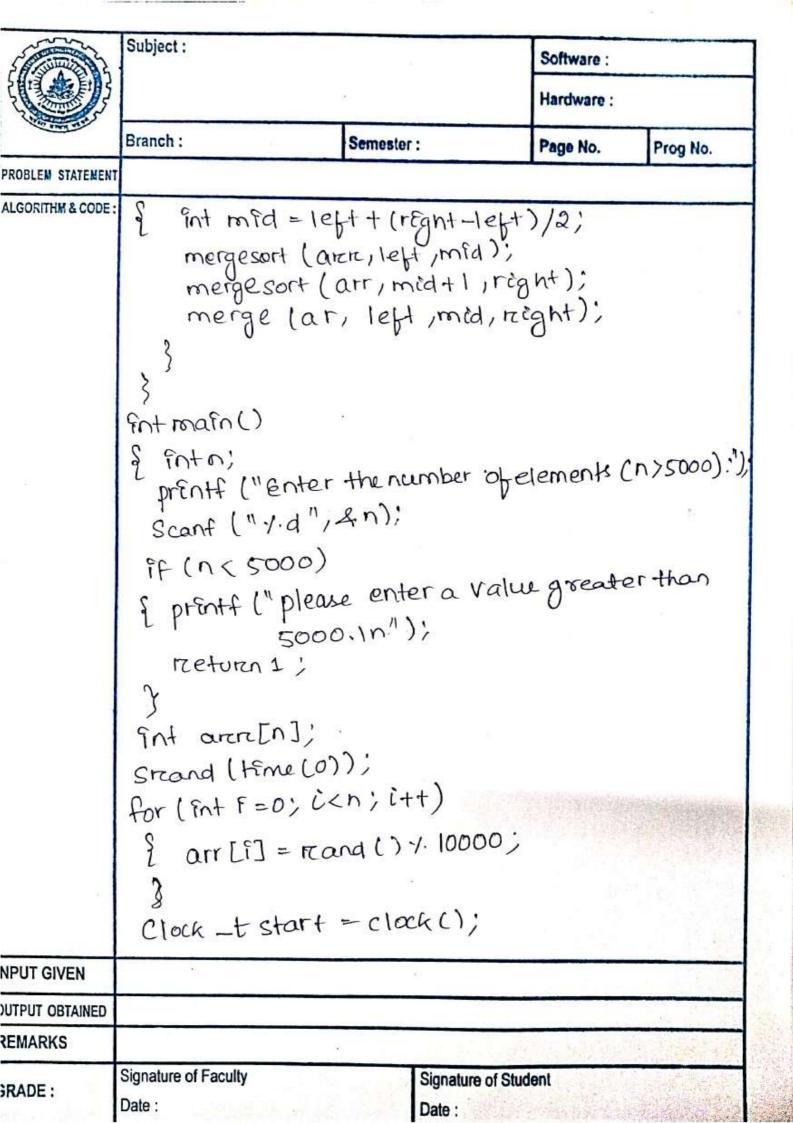
The same	Subject:					
			Software :			
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1 STATEMEN	method and come	D toleggy class	Prog No. Prog No.			
HM & CODE	for Varied Valves of	n 25 min Com	dexity, but the program			
	soict a given set of n Enteger elements using Margesort method and complete Its him Complexity, Run the program to sord. Plot a graph of the time taken versus n. The elements can be generated					
	elements can be or using the mandon	ead from a file	or can be generated			
	The state of the s	CI CI CI CI CI	TYDE . I SHEET AND LIFE IN.			
	with its time complexity analysis: worst-case, best care					
	and average case.					
	# Include < stdfo.h)	>	-			
	# Include (station)					
	# Include < lime.h>					
	void merge (intarriz, intleft, introid, intright)					
	{ int n1 = mid - left +1;					
Yii	intha=reight-mid;					
	int L[n1], R[n2];					
	for (inti-0; i <n1; i+t)<="" th=""></n1;>					
	L[i] = arr [lef++i];					
	for (intj=0;j <n2;j+t)< th=""></n2;j+t)<>					
	Porc (1117 = 0) 1 = 11 + 17 :					
	R[j] = arre[mid +1+j];					
	int i=0; j=0; K=1eft;					
	while (izn148 j <n2)< th=""></n2)<>					
	{ [i] x = > [i] 1 ?					
IVEN						
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	Signature of Faculty	Signature of Stud	lent			
	Date :	Date :				

Comment of the second	Subject:				
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Tana Tan	Branch:	Semester:			
PROBLEM STATEMENT		Comester .	Page No.	Prog No.	
ALGORITHM & CODE:	Earn[K] else { arn[K] by chile (i) chile (i) chile (j) chil	J=R[j]; n1) =L[i]; (2) =R[j];	intleft, int	-règnt)	
NPUT GIVEN					
OUTPUT OBTAINED				A Special Company	
REMARKS		Cionatus	e of Student		
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S. Marian	oubject:					
	}				Software:	
			- 4	Hardware:		
EN STATEMEN	Branch:		Semester:		Page No.	Prop No.
						Prog No.
	clock -t double 15 prentf (" for (int) } prentl	end = come take Time take Second Sorted =0; ic ("In") 0; btained no of array (3769	en = ((de CLC ken tose sin", n, delement 10; itt ', arr[f] ', arr[f]	s En th	elemen aken); solo):1	; ts:7.f n"); 5000):
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	I and an all Cocultin	P. The State of the London	Class	turn of Stude	A TOTAL TARE	

Software: Hardware: Branch: Semester: Page No.

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CODE:

Sortled arenay: 970101102 140 154 184 185 198 230 time taken by merge sort: 0.000993 seconds.

enter the no of elements in the array (>=5000): 10000 ortginal array (first 10 elements):

92885 1647 8690 6204 92957 94969 60224 67452 25917 57709

Sorted array: 12 13 22 29 36 54 68 77 98 99 hime taken by mergesort: 0.001939 seconds.