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7	Propeh :		Tidiowale.	nardware :		
e Legacine de la visit	Branch:	Semester:	Page No.	Prog No.		
PROBLEM STATEMENT	and compute its tim					
ALGORITHM & CODE:	offin soon and le	cored the home	1 Interes 1 1 .	datagaseh		
	of the time fainer	VEISUS 11. Th	+ plemenk cont	mrand		
	from a tele or c	an be generat	ed using the ra	ndem		
	number genera	tor. Demons	trate howtho	divideans		
	conquer method	(1				
	analysis: worst co	ise, average &	use and best cas	د.		
	# include < statio. r	<i>1</i> >				
	# include (stalib	h>				
	# include < time.	·h>	727 K			
	void swap lint ar	tus, 1413, []T	f)			
23	{ int temp = a	rr[E];	8	2		
	arr[i] = arr[; []				
	arr [j] = tem	,				
	2	20	(102110	1		
	Int partition (in	nt arr[], fintl	ow, intright			
	{ fat prot = al	rr[high];				
	L (- 1MW -	-,				
	Fore (fint) = lo	w; jchighib,	[++)			
	For (int) -10	· ::	•			
	{ if (arr[j] < pivot)					
	{ i++; ςωαρ (arr, ε, j);					
	swap (a)	rr, (()))				
	.)					
	}	book)				
	Swap Carr, Et1	, Night 2)				
INPUT GIVEN						
OUTPUT OBTAINED				- 24		
REMARKS			(0) 1-1			
ODADE:	Signature of Faculty	The same of the sa	re of Student			
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PROBLEM STATEMENT					
ALGORITHM & CODE:	return (iti)  Vold quecksort (   If (low Lhi)  Int pi=  quecksore  quecksore  quecksore  quecksore  quecksore  quecksore  quecksore  quecksore  for ("Int int arring;  for (int f=0;  arrii] = tean  } clock -t start -t  quecksort (arr  clock -t end -t	fortarred, in arrival, in arri	r, low, high,  pi-1);  r, high);  of the array		
NPUT GIVEN		- 312181 William		ectronic.	
OUTPUT OBTAINED	THE PARTY LINE		and the second second		
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	Subject:			Software :	
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PROBLEM STATEMENT					
ALGORITHM & CODE:					
	Sorted array:  enter the Stze of the array: 10000°  Timetaken to sort the array: 0.001628 seconds  Sorted array:				
INPUT GIVEN				9.	
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Branch:  Semester:  Page No.  Prog N		Branch : Semester :					
enter the Size of the array: 15000 Time taken to sort the array: 0.002398 seconds Sorted array:  enter the Size of the array: 20000 Time taken to sort the array: 0.003401 seconds. Sorted array:  enter the Size of the array: 0.003401 seconds. Sorted array:  enter the Size of the array: 0.004151 seconds. Sorted array:	Title						
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