15	Camlin Page No. 46	
Experiment Name / No.:	Date I I	
Out of the contract of the con		
QUICK SORT & MERCHE	SORT	
AIM		
write a menu driven c program to implement		
5 Quick sore and nerge sore		
ALGORITHM		
1 start		
2 enter choice our choosing serveen	enery, cusping	
10 , anick sore and nerge sore		
3 case convey		
31 Read size of array o		
3.2 Repear bor i = 0 to n		
3.2. Reveraci)		
415 care 2; Desplay		
4.1 Repear bor i=0 to N		
4.1.1 Print a (i)		
5 case 3: Quick sore		
5.1 Crlobully mualize lett=0	24444 - 0 -1	
20 5.2 rb lebi- (right	Judgett = 1.	
5.2.1 set i = lebt, j=right		
5.3 Repear while Kj	, 100001 = a[1001]	
5.3.1 do itt where (a(i) < provi		
5.3.2 do j++ while (a(i)) puvoi	· come s > - lebt	
$\frac{25}{5 \cdot 3 \cdot 3} \text{Not} i < j$		
5.3.8.1 snap (a(i), a(j))		
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	Camlin Page No. 47	
Experiment Name / No.:	Date	
5.3.4 else swap (a(lest), a(j))		
5.4 cull aruck son (q lest, j-1) supry to supry to supry		
5.5 call anussort (a, it i right) jump to step 5.2		
65 cuse 4: nerge sort		
6.1 Orlohally mulialize beg = 0, enel = n-1		
6.2 16 beg cend		
6.3 6. su med = (begrenel) 12		
6.4 call merge sort (a, beg, med), jump to sup 6.3		
10 6.5 tale nergesors (a, must med) sumpto sup 6.3		
6. b call noge (a, sig, mid, end)		
6.6.1 mualizi i = beg, j = ma+1, muesc = 0		
6.6.2 Repeat when (icmed) and (ic=cnel)		
6.6.2.1 Mg q (i) < a(j)		
15 6.6.2.1.1 set- temp [and	us(++) = a(i++)	
6.6.2.2 else su emp (melex ++) = a (i++)		
6.6.3 16 is med		
6.6.3.1 Benear while ic= end		
6.6.3.1.1 ser- temp (merex ++) = a (i++)		
20 6.6.6 Rese		
6.6.4.1 Repeat while is = met		
6.6.4.1.1 su temp(moux ++) a(i++)		
7 Stop		
25 CONCLUSION		
The program has been escented correctly and		
ourne has been veribied		
Teacher's Signature:		