PAGE NO: Usha Gold 30/5/84 Lab- J Meago sout Cours & 18 # include <ctdio. NS Apid Did did or Froid Splet ( intat ), Ent horo, int high) int mid; splet (a , lone, me'd); splet la, mid+1, high), 2 Combine (a, low, mid, high), (++1 ) bin =>1' exal =11 post reoid combine l'int aly, int row, int mid, int high) ant ((15000], i, j, k) 3=mid+1; while lie = mid 22 je = high) 2 CKJ = accj; mores

1 CKJ = a まつせず;

24 (P> mid) nohib Ge-high) ctkj=atjj 1 to the thing of the day of him. 24 (3 > hugh) (183) 40 while (&= mid) CCKJ=aciji ++ Ky 1+69 01+9100 3 9 for (i= low i'c= high it+) 27 Good main () 1+694 o'nt a (150007, n; j, j, h, temp)
clock t stort, end;
while (1)? printf("1: For manul entry of Niealue and prints ('a: 78 misplay temt for souting N perint ('370 exit'); peints (" Enter your choice !")

gan ("". d', Lch),

PAGENO: Usha Gold snoitch(ch) case! paint ("Enter the number of elements:");

Scanf ("'% o", LN')

print ("Enter analy elements:");

for 1 = 0; i < n; i + t) grand ("//d", Lacio) start-clock(); 4900 all Splet(a, on-1) the twend = clock (D) in 2011 motor Printf ("I'm sorted agracy is :") for(i=0; ikn; it) Print("2, alt", all's) paintfultime taken aldouble send-stoot printed basakolot with probable of 8 runnises of Elimente Din the sang COVER. n=500; whole (n < = 12/500) \$ 00 toris = opion; it + 2 not omit amous ating = man; MONA OMIT soming one has streated mit spit (a, 0, n-1);

spit (a, 0, n-1);

for (j=0); jc 500000; t + 5 temp=3

end=clock();

printf(1) Time taken( (double) (end-start) CLOCKS PERSE()) n=n+1000% har aki

1. For manual entery of wrealne and again 2. To display time taken for sorting number of elements N in the Range 500 to 124500 3. To exet Enter your choice:1 Enter the number of elements, of Enter agency elements: 44 33 22 11 sorted agardy is: 11 88 33 May Time taken to scent in numbers is 0 sees 1. From manufal entry of Novalne and array elements a. To display time taken for sorting number of Elements Nin the gange 500 fo 124500 3. to exit Enter your choice is 2 > 10 states Time taken to sort 500 numbers is 0 secs Time taken to sort 1500 numbers is 0508 Time taken to soit 2500 numbers is 0400 Time taken to sort 3500 numbers 15 058B Time taken to got 4500 numbers is 0818 Time taken to sont 5500 numbers is 08kg Time taken to cost 6500 numbers is 048 Time torken to sort 7500 numbers is 0818 7 ine token to get 8500 numbers is Olses Timetaken to sort 9500 numbers is Oses

DATE: 1 1
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7Pmo taken to goat 10500 numbers 82 0000 Time taken to sort 11500 numbers is 0 sees Time taken to sort 18500 numbers is osces Time taken to sort 13500 numbers is 0.01680 Time taken to sort 12,500 numbers is 0 secs. 1. For manumal entry of Novalue and agazy elements a. For display time taken for sorting humbers tin the nange 500 to 12,500 3,70 exit Extenyour choice: 3 SECECTION SORT AND MERGE SORT 0.09 0.08 0.07 0-06 0.05 0.001 0.03 0.00 0.01 0.00-2000 4006 6000 8000 10000 18000 14000 mg NVALUE