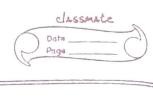
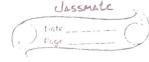
|         | classnate  |
|---------|--|
|         | Page   |
| 30/5/24 | Week-5   |
|         | Menge sout   |
|         |  |
|         | # Paclude < stdio. h>                                  |
|         | et Enclude CHEME. N>                                   |
|         | # include estalibons                                   |
|         | Yord spletcent[], ent, ent);                           |
|         | Vold combine (PM [], ent, ent);                        |
|         | Void main()  |
|         | Ş  |
|         | Ent a [15000], n, e, j, ch, temp;                      |
|         | Clack_t start, end;                                    |
|         | while CO   |
|         | <b>ξ</b>   |
|         | punty ("In 1. Fox mornal entry of n value and array    |
|         | elenents");  |
|         | pullity "102. To display the taken por southing number |
|         | a elevery N & the range 500 to 14500");                |
|         | ·bring(,,103;20 6x64,,);                               |
|         | prenty ("In Exteryour choice:");                       |
|         | scarf("./.d", 4 ch);                                   |
|         | Switch (ch)  |
|         |  |
|         | case 1° puents ("In these the number of elements.");   |
|         | sent (". d, tn);                                       |
|         | printy ("In order array elements");                    |
|         | parlizo; (cn; 9++)                                     |
|         | \$   |
|         | scan ("oba", (ali);                                    |
|         | y  |
|         | Start = colocle();                                     |
|         | split (a, o, n-1);                                     |
|         | end = clocker;   |
|         |  |



punty ("In souted away es:"); palleo; icn;itt) prenty ( " o d " t " , a c i D); purity ("In Time taken to sout old numbers es old secs" on (((double)(end-start))/clocks\_per\_sec)). break? case 23 whole (ne zing oo) & pul1=0; 9cn; 9++) (10 (1) = 2 andom (1000); a Ciden-ii start = cdockers; split (or, o, n-1); pri(j=0; j=500000; 1++) Etemp=38/600;} end = clock (); prenty ("In Time takes to sout of a numbers eso, & sees" n, ((Cdouble) (end-start)) (locks per secs); N2N+L000: break; Case 3: exat(o); getchw(); void split ( ent of , int low, ent high)

Pyllow chegh)



8 mid= Clow + hegh) 12; : (b, low, mid); splet (a, med+1, negn); combine(q, low, mid, high); void combine (entac), entlos, ent mid, ent high) Pot ([15000], i, j, 10; PElectows j=med+13 while (icamed & ( ; cahigh) ((i) Da (i) D) 19 :[1]=a[1] ++100 ((12) = C = 1) · ejijskigh) 3 (ben = 23) elida ccics = acis; ++ 1c ? 44 ? ;



pulicion; iz = hegh; it+) Ei32=Ci30output: lo Fax marual entry of N value & anxay el enerts 2. To display time taken per souting number of elements N Pr the wange soo to lusoo. 3. To encl. Enter your chopee:1 Enter the number of elements ? 4 the array elements: UH. 33.22 11 Souted away: 11 22:33 Uy. Time taken to sout a numbers es 0:00 secs 1. For monual entry of N value . Er array elements 2. To display time tales be souting sumberg almosts N is the Lange 500 to 14500 3. to exer enter you choice: 2. Time taken to sout soo numbers es 0.031000 secs Time taken to rout 1500 numbers & 0.032000 secs The taken to sout 2500 numbers & 0,031000 seg Time takes to sout 3500 runberts 0,031000 ses Time taken to soit 4500 numbers & 0.091000 secs time taken to soil 5500 numbers es 022000 secs Time taken to bout 6500 numbers & 0,07,000 ses



Time taken to sout 2500 numbers is 0.031000 secs

Time taken to sout 9500 numbers is 0.031000 secs

Time taken to sout 10500 numbers is 0.031000 secs

Time taken to sout 10500 numbers is 0.031000 secs

Time taken to sout 10500 numbers is 0.031000 secs

Time taken to sout 10500 numbers is 0.031000 secs

Time taken to sout 13500 numbers is 0.031000 secs

Time taken to sout 13500 numbers is 0.031000 secs

Time taken to sout 14500 numbers is 0.031000 secs

Selection and insuge sout

0.25 0.15 0.05 0.05 0.05 0.05 0.05 0.05 0.05 0.05 0.05 0.05 0.05 0.05 0.05 0.05 0.05

N-values

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