Buick Sout 6/6/24 Hinclude (Stdio. h) H include < stall b. h > # include (time ons 20 MANNISEE ! reoid splet cent by, int, int) int partition (Pnt [], int, Int);

2nt main ()? ent a [15000-], n, i,j, ch, temp; clock t start, and j perentf! y: For manual entery of Novame and agaay elemente"), paint [" Ina; To display, time taken for sorting number of elements Win the perint ("In3: To exit") perint f (" n ther your. choice!"); scanf ("% a", & ch) snortch (ch) { Carel! painter Enter the number of comers? sang ("% d", & n);

perint ("Enter agray elements")

for (i=0; i < n; i+ +9 ? scanfl"/od, & allT) start = clock(); split(a, 0, n-1); end=clock();

PAGENO. Usha Gold for (i = 0: i < n; i++) ?

perint (" /d \t", a[i]); orloop l'Time taken to sont is a numbersis 1. f Secs In!, n! (double) (end-stort)} clocks per sec), Break case 2: Ini 500; tripped it it may this while C. n <= 12/500) \$ 11 forlied ich it the ind tenso the Start = clock(); split(a, 0, n-1) Jore =0', j' 500000000', 2 temp= 38/600, 9 paintf ('Time taken to sort i. d', n M+=1000; 48 3: gant = 19 de fault; again (n')

void split (int act, int l, int h) &

int

it (l'an) &

j-pastition (a, l, n)

split (a, l, j)

split (a, l, j) cint att, int L, int hy int purch = a(1.7) when

int j=h;

int j=h; solile ( privot a ( g ) )

solile ( privot a ( g ) )

if ( ic j ) temp=aci] "O MIEN KER

DATE: / / PAGENO. Usha Gold Pulput tool Assess. 1. For maner entry of N value and array elements a. To display time taken- to sout win the aange 500 to 12,500 3:10 exit Enter your choice:1 Enter the number of dements: 8 Enter array elements: 82 55 77 115 scented aga ay 1's 000080000 6/81/ 22 55 Time taken to sort & numbers is 0 gets 1. For manul entry of N realine and annay elements 2. To display time torken to sort Nin The sample 500 to 12,500 3. TO exi Ever your choice: 2 Time taken to sort 500 numbers: D.031 see Time taken to sort 1500 numbers: 0.016505 Time taken to sort 0500 numbers: 0.0168CB Time taken to sout 350 0 mimbers: 0.015 sees Time taken to sont of to to numbers: D.03/ces Time Joken to cont 55 0 Drumbers: 0.04758CS Time taken to cost 350 0 minders 0.00, 7500 Time taken to sort 7500 mermos, 0.0,768 Time taken to sot 8500 numbers: 0.06348 Dimetaken to sort 10500 humbers 0.07886 Time taken to sol 1150 0 numbers: 0.092,800 Time taken sod 12500 munkos o Dalfar Time token set 13500 numbers: 6.10986 Time torken sort 1 of 50 0 numbers! 0.11 800

Gaaph Brick Sort enauch Ender of Missing 011 0.08 ANRY POPE 0.06 orat. win assau 2000 4000 6000 8000 10000 1870 14000 16 Time taken to aget Enumber 1. For manual evitue of a . To die plan time the 15 CEC 2 the soins Foot to live to Erobalo Mar Astra Time the in topics of the number of the second Time taken teest use brumpers: a orthon 3732312 2: That John to cot OFT O'T Mymiles Time taken to sont ser a minimum or a president Time stopped to sent yet to transfere: 17.58/201 The token to cost o'c commenced to the same That follow he cost for a magazine of the constant MINE OF SHOWING o or the cent for the The token tocket ecolo S122/37. , 5 Applean Time to Kenter to cot acco MOREA.3 and proof technice The hoten trace in so a minimus M30120. Angun Chel 18 CDD Lucings In Daten There shadow exet 12500 rampers; a loser June John South of 20 Diminions? 11.11.86