Undar Swell

It) // program for linear Swith

#include < Stio-ho

include < math - ho

int main ()1

int nilln is ene of ordray.

Mounter we want to surch with floy as set as a variable for saying both.

printf (" Enter The Total number of elements of the avocay: 4),

scanf ("1,d",&n),

int acor[n]; "array of prof of aboverts with on? n.

printf ("Enter the elements of the array: (n"),

for (i=o ; kn; l++)

Sanf (4), d4, & over(i)), 1/2 summy all the elmonts of the array.

printy ("Enter the Blanent to be swarded "), "/ Enter theland whent to sweet brode the Scanf (4%:d/ stay),

for (1=0; L<n; 1+p)

of (Key = = arr[i]) //9/ thefinit stand word the whay.

I plung = 1, 1/ the owned is set to one and then well took.

if (flory == 1) (/Af & seront & found inside the array

printf ("Henort Jourd in theavoing at order 1'd", i),

olse 1 /1 of the elent is not found in the array denice found grant is not young in the array. "1, found in the array." 1, found

(2.) Burdy Search by & Downson // frogum for implementing of the benery south in the shows way. #Indude Cophia -ho # include < math - h> good bering - gard (int [], int, int , int), "// definitio Of from und main ()4 mt Key/nii// mis total number of emails of the worky Keyis the strat we ned to south with a at the index we need to go through all of the warray. funts ("Boter by Ofa avoing you want!"), Sunf (4%-d4, 2n); wit are [n], 11 defining the arrang with song of nellands printf (46 nter elements of the avoing in sortal averay with inovaring value: W') for (40 jlanjit) Sanf (4/-d4, & arr[i]); //scomma ofall therbroad of the. John (4 / n 4), funtf lutitor Key to south insed the wormy. (199), 11 key we want to sort for med the wormy . & Scanf (H/2du), & Key); benong such (avor, 0, n-1, koy), 1/alling of the function. grotion o; void benoung south (int wor [:] , int love, int high, int key) int mode ; //tabury middleslement y (lace > high) 1 fent ("key 18 not found word the array. m 4),

gretion o,

3

middle = (cail (loss +hep//2);

If (west [middle]== key) // key & Journal

fruit of (4 key // d found at work // d \m') keymedalle),

the of (aver [middle]> key)

through shound (aver, loss, middle - | key) .// afflest and aff

y // middle & more than the key then about the middle by protein

else of (aver [middle] < key)

through should (aver, middle by heben one to that

y // It the land at middle is less than the key

y middle changes.

(** I Dark V. AT I BOOKER 1.)

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(3.) Broay seved on iterative way.
   1/ program for implementing the benery swed in therestrowery
 # monder state. A>
 # would < moth - h>
  int mani() 1
      int n, tey i middle high love , fag 20, . // variable her histor.
       beund ("Gotter the size of thewaray: m")
       Scanf (47.24, 20),
       just aur [n]; 11 defong theworay.
        pends ("Enter The Elements Of arozans, one byone: (").
        for (1=0 ; LCN; 184)
           Sconf (117.d n, Lavr [i]), Wecamony all the averagelamonts
         love =0,
         high = n-lik
          prints ("Bother The Key You want The Secret! 44"),
          Scary (47. 24, 2 Key)
           while (fore <= hypi)
             middle = cel (thight low)/2),
             If (Key == OFEmitdle ])
              1 Allang = 1, 1/ Donard found
                 break,
             esseif & Key < aros [midle]){
                     hugh = middle -1; 11 deviewe high
                   laid = middlet); // moreuse love
```

f (flag = =0) // H element & not found in The Archange ! (MM), "

lle h // H element 18 Not Found

purt ("Key/-d & found at water /-d m"/ Key/medalle),"

y

rotrom 0,"