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ques linearly search an element in an

Linear Search is a sequential searching algorithm where we start from one end & check every element of the list until the desired element is found if the element not found then we return "not found".

Approach: we've given an array & the size of the array, i.e., n.

First we take input from the user that which element the user want to search.

Then we run the loop from oth index to n-lindex.

At each iteration we compare the array element with the user's given search element

If the element matched then we change the value of flag variable to

At the end we check, if the flag 21 then print "element found" else print "element not found".

code:- mo mo m #include (iostream) using namespace std; int main() & 1 19mit /20 mon on 18 common int arr[] = £15, 58, 22, 10, 6, 13; int n 2 6; inti, search, flag 2 0; cout << "in enter element:" cin >> search; marin 21 (10 mo for(i=0; i<n; i++) if (arr [i] = 2 searchi) for god o any our right flag 21; xobrill-re of vernelse out the paracont Hag 20: 601 if (flag 221) cout << " found " "Not found"; Teacher's Sign

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ques count o's & 1's in an array boo

In this problem, we've given an array & we have to count the number of times o present in array & number of times 1 present in array.

Approach: we've given an array full of 0's & 1's, & also the size of the array is given.

Firsty, we take two variables, i.e., numzero & numone to count, & initialize them to zero.

Then we run a loop from oth index to n-lindex.

At each iteration we check, if the element is o, then increment numzero to 1, if the element is then increment numone to 1 > 00 At the end, print both the variables.

Date code: wire & report tom and Bo MINNER IN ON AVYOU. # include (iostream) using namespace std; - 3600 int main() int arr[] = &0,1,1,0,0,1,1,03; int n 28; int numzero 20, numone 20; for (int i 20; i (n; itt) if (arr[i] 220) num zero tt;

if(arr[i] 221) 3 numonett; cout << 'In Number of 0's: " << cout (<"In Number of 1's are << numone; return 0; Teacher's Sign

Ques find the maximum & minimum number in an array.

code :-

Hinclude (iostream)
using namespace std;
int main ()

int avv[] = £5, 1, 7, 6, 9, 8, 12 3; int n = 7; int max = INT. MIN; forlint i = 0; i < n; itt)

if(arr[i] > max)

max 2 arr[i];

cout << "in Max no, is " << max; return 0;

Date.....

code: AND DE MI MATER AND THE TOP #include (iostream) aldoro /int m using namespace std; INDOM int main () int arred: [5,7,3,9,8,6]; int min 2 INT MAX; for(int i=0; i < n; i+t)

{
if(arr[i] < min) NO EN POTREMENTAL ST TENT MANT min : arr [i]; // h/p) cout << 'Min no is: " << min; Wreturn Oglas acon a college 3 1-12 01 1 2 x 9 b 1 1 No of 1 + 92 experi west isular often trive mant 4 NA COUNTY & 1 TOUS 1947 96 8 1 +012. NIDON DIVICH AMON Sgoot and twoys two gots or wader say ports you mant jet i many

Quei Extreme prints in an array

In this problem, we print the extre -me values in the array.
Means,

0 1 2 3 4 5 6 7 8 9 10

Extreme prints means, firstly the left most element is printed then the right most element is printed. Then left is incremented by one & right is decremented by one, & so on.

Approach: In this type of problem we follow "Two Pointer Approach", set i to oth index & j to n-1 index Then print both values, then increm-ent i & decrement j, & follow the same thing again.

when to step out from the 100p? when i >= j, then we stop the iteration.

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code! (even case)
       #include (iostream)
using namespace stat;
        int main()
           int arr[] = £1,2,3,4,5,6,7,83;
           int n 28;
cout << "In Extreme print:";
for (int i 20, j 2 n-1; i < j;
              cout << arr[i] << " " <<
           return o.
   code:- (odd case)
9 9 9 9 9
       int main ()
          int arr[]= {1,2,3,4,5,6,73;
           int i 20, j 2 n-1;
cout << 'extreme' prints: ";
while (i < 2 j)
              if( | 22 | ) {
                cout << arr[i] << ":
               else ?
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Date itting monegance prize 17 WITH THE return 0; 1574 5 1 17 3 11 1 XX 11 1 :1-11 () () thet) 122017/20 (0100 1) 2110/10 " A FARMATA

Date Ques Reverse an array (swapping) code :-Hinclude (iostream) using namespace std; int main () int arr[] 2 {10, 20, 30, 40, 50 3; int n 25; cout << "In Before Swapping:"; for (int i 20; i < n; itt) cout << arr[i] << " "; int 120, 12 n-1; while (i (2)) swap (arr [i], arr [j]); cout << "In After swapping:"; for (int i: 0; i < n; itt) 2 cout << avr[i] << " "; return O: