

## Find a sorted subsequence of size 3 in linear time

Given an array of  $n$  integers, find the 3 elements such that  $a[i] < a[j] < a[k]$  and  $i < j < k$  in  $O(n)$  time. If there are multiple such triplets, then print any one of them.

Examples:

Input: `arr[] = {12, 11, 10, 5, 6, 2, 30}`

Output: 5, 6, 30

Input: `arr[] = {1, 2, 3, 4}`

Output: 1, 2, 3 OR 1, 2, 4 OR 2, 3, 4

Input: `arr[] = {4, 3, 2, 1}`

Output: No such triplet

Source: [Amazon Interview Question](#)

Hint: Use Auxiliary Space

### Solution:

- 1) Create an auxiliary array `smaller[0..n-1]`. `smaller[i]` should store the index of a number which is smaller than `arr[i]` and is on left side of `arr[i]`. `smaller[i]` should contain -1 if there is no such element.
- 2) Create another auxiliary array `greater[0..n-1]`. `greater[i]` should store the index of a number which is greater than `arr[i]` and is on right side of `arr[i]`. `greater[i]` should contain -1 if there is no such element.
- 3) Finally traverse both `smaller[]` and `greater[]` and find the index  $i$  for which both `smaller[i]` and `greater[i]` are not -1.

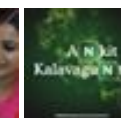
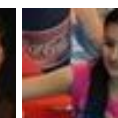
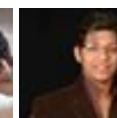
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```
#include<stdio.h>
```

```
// A function to find a sorted subsequence of size 3
void find3Numbers(int arr[], int n)
{
    int max = n-1; //Index of maximum element from right side
    int min = 0; //Index of minimum element from left side
    int i;

    // Create an array that will store index of a smaller
    // element on left side. If there is no smaller element
    // on left side, then smaller[i] will be -1.
    int *smaller = new int[n];
    smaller[0] = -1; // first entry will always be -1
    for (i = 1; i < n; i++)
    {
        if (arr[i] <= arr[min])
        {
            min = i;
            smaller[i] = -1;
        }
        else
            smaller[i] = min;
    }

    // Create another array that will store index of a
    // greater element on right side. If there is no greater
    // element on right side, then greater[i] will be -1.
    int *greater = new int[n];
    greater[n-1] = -1; // last entry will always be -1
    for (i = n-2; i >= 0; i--)
    {
        if (arr[i] >= arr[max])
        {
            max = i;
            greater[i] = -1;
        }
        else
            greater[i] = max;
    }

    // Now find a number which has both a greater number on
    // right side and smaller number on left side
    for (i = 0; i < n; i++)
    {
        if (smaller[i] != -1 && greater[i] != -1)
```



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```

    {
        printf("%d %d %d", arr[smaller[i]],
               arr[i], arr[greater[i]]);
        return;
    }
}

// If we reach number, then there are no such 3 numbers
printf("No such triplet found");

// Free the dynamically allocated memory to avoid memory leak
delete [] smaller;
delete [] greater;

return;
}

// Driver program to test above function
int main()
{
    int arr[] = {12, 11, 10, 5, 6, 2, 30};
    int n = sizeof(arr)/sizeof(arr[0]);
    find3Numbers(arr, n);
    return 0;
}

```

Output:

5 6 30

Time Complexity:  $O(n)$

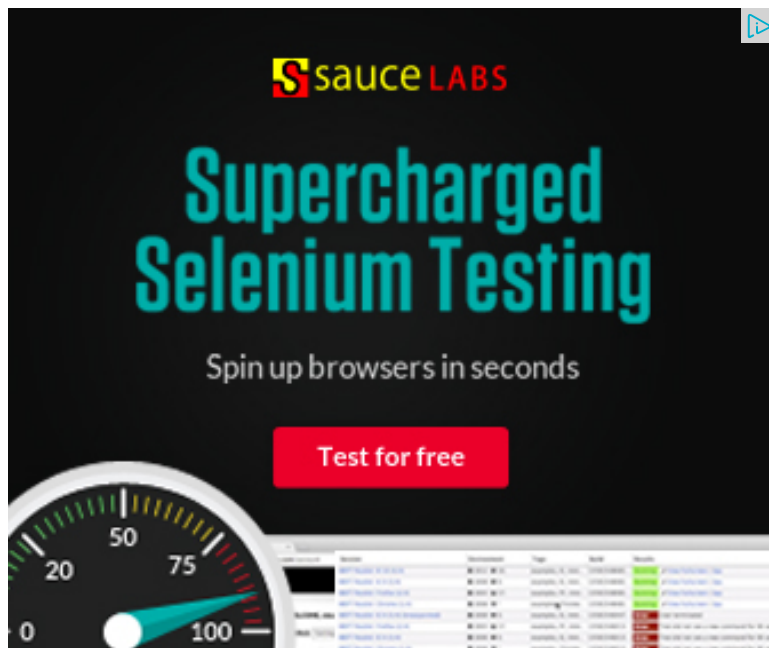
Auxiliary Space:  $O(n)$

Source: [How to find 3 numbers in increasing order and increasing indices in an array in linear time](#)

#### Exercise:

1. Find a subsequence of size 3 such that  $arr[i] < arr[j] > arr[k]$ .
2. Find a sorted subsequence of size 4 in linear time

Please write comments if you find anything incorrect, or you want to share more information about the topic discussed above



705



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4



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**xxmajia** • 3 months ago

for finding any length of sequence, we can just sort the array using  $O(n \lg n)$  time LIS on it

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**Sumit Monga** • 3 months ago

for doing it for 4 numbers ,  $i < j < k < l$  such that  $arr[i] < arr[j] < arr[k] < arr[l]$ , we and then between iterate for j and k in between using a list(serving purpose of understand it:

```
void find4Numbers(int arr[], int n)
```

```
{
```

```
int max = n-1; //Index of maximum element from right side for k
```

```
int min = 0; //Index of minimum element from left side for j
```

```
int i;
```

```
// Create an array that will store index of a smaller
```

```
// element on left side. If there is no smaller element
```

```
// on left side, then smaller[i] will be -1.
```

```
int *smaller = new int[n];
```

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**Sumit Monga** • 3 months ago

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void find4Numbers(int arr[], int n)
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{
```

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int max = n-1; //Index of maximum element from right side for k
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int min = 0; //Index of minimum element from left side for j
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int i;
```

```
// Create an array that will store index of a smaller
```

```
// element on left side. If there is no smaller element
```

```
// on left side, then smaller[i] will be -1.
```

```
int *smaller = new int[n];
```

see more

^ | v • Reply • Share ›



**asunel** • 7 months ago

Can be done using only one extra array !!!

See <http://ajscodeblog.blogspot.in...>

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**nishant08** • 9 months ago



plz tell me if there is a problem

```
#include<stdio.h>
main()
{
    int arr[10],i,j=0,n,t[3];
    printf("enter no. of elements- ");
    scanf("%d", &n);
    for(i=0;i<n;i++)
    {
        printf("enter data- ");
        scanf("%d", &arr[i]);
    }
    for(i=0;i<n;i++)
    {
        if(j==0)
            t[j]=arr[i];

        if(arr[i]<arr[i+1])
```

see more

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**Nikunj Banka** • 10 months ago

see this:

<http://stackoverflow.com/quest...>

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**aspire** • 10 months ago

I have a solution with  $O(n)$  time complexity and  $O(1)$  space.  
Please correct me if i am wrong.

```
#include<stdio.h>
```

```

int find3Size(int a[],int n)
{
    int mn=0,mx=n-1,i=1,j=n-2;
    if(n<3)
        return -1;

    while(j>=i)
    {
        if(a[j]>=a[mx])
            mx=j--;
        else
            j--;
        if(a[i]<=a[mn])

```

see more

1 ^ | v • Reply • Share ›



**Sourabh** → aspire • 9 months ago

Yes you are missing Half of the range to check.

```

/* Paste your code here (You may delete these lines if not wri

```

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**skulldude** • 10 months ago

In the above code, I think it is not necessary to check whether the first and last elements as it will always be -1.

Below is the code to solve the problem.

```

// minleft[i] - Minimum element from a[0] to a[i]

```



```
// minLeft[i] - Minimum element from a[0] to a[i]
// maxRight[i] - Maximum element from a[len-1] to a[i]

void find3Numbers(int a[],int len){
    if(!a || len<=2){
        printf("Invalid\n");
        return;
    }

    int *minLeft=new int[len],*maxRight=new int[len];
    minLeft[0]=a[0],maxLeft[len-1]=a[len-1];

    for(int i=1;i<len;i++){
```

[see more](#)

^ | v • Reply • Share ›



**aspire** → skulldude • 10 months ago

I have a solution with  $O(n)$  time complexity and  $O(1)$  space.  
Please correct me if i am wrong.

```
#include<stdio.h>

int find3Size(int a[],int n)
{
    int mn=0,mx=n-1,i=1,j=n-2;
    if(n<3)
        return -1;

    while(j>=i)
    {
        if(a[j]>=a[mx])
            mx=j--;
```

```
else
    j--;
if(a[i]<=a[mn])
```

[see more](#)

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**Ganesh** • a year ago

You can find java code here:

[sourcecode language="JAVA"]

/\*\*

\* Given an array of n integers, find the 3 elements such that  $a[i] < a[j] < a[k]$  and

\* If there are multiple such triplets, then print any one of them.

\* Example: Input: arr[] = {12, 11, 10, 5, 6, 2, 30} Output: 5, 6, 30

\* @author GAPIITD

\*

\*/

```
public class SortedSubsequenceOfSize3 {
```

```
    public static void main(String[] args) {
```

```
        int arr[] = {12, 11, 10, 5, 6, 2, 30};
```

```
        int small[] = new int[arr.length];
```

```
        int large[] = new int[arr.length];
```

```
        small[0] = large[arr.length - 1] = -1;
```

```
        int min = arr[0], max = arr[arr.length - 1];
```

```
        // Create an array that will store index of a smaller element on left side
```

[see more](#)

^ | v • Reply • Share ›



**azee** • a year ago

Can't we use longest increasing subsequence logic for this problem. And use

print all subsequences with length more than or equal to 3. In this way we get

print all subsequences with length more than or equal to 3. In this way we get a subsequence of size 3. If I am wrong, please let me know where this logic might be wrong.

^ | v • Reply • Share ›



**Paparao Veeragandham** → azee • a year ago

It will take  $O(n \log n)$  time.

```
/* Paste your code here (You may delete these lines if not writing code)
```

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**Paparao Veeragandham** → Paparao Veeragandham • a year ago

Please post solution for sorted sequence of size 4 in linear time.

^ | v • Reply • Share ›



**VikasG** • 2 years ago

I think this will work. Let me know if you can spot any issues.

```
void printSubSequence3(int array[], int n) {
    //error checking
    assert( n >= 3 );

    int p = -1; // index of min0
    int q = -1; // index of min1
    int r = -1; // index of min2

    for (int i = 1; i < n ; i++) {
        //compare i with i - 1
        if (array[i] > array[i-1]) { //found increasing subSequence
            if ( p == -1 && q == -1) {
                //Our new subSequence is array[i-1], array[i], ?
                q = i;
                p = i - 1;
            }
        }
    }
}
```

```
} else {
```

[see more](#)

^ | v • Reply • Share ›



**Amandeep Gautam** • 2 years ago

I think that this algorithm will also work. If any mistakes please point out.

```
// initialize four variables to 0.  
int i=0, j=0, k=0, counter=0  
//start parsing the array.  
while ( a[i] j  
if ( a[counter] > a[j] ) {  
//print the answer  
break;  
}  
else if ( a[counter] > a[i] && a[counter] < a[j] ) {  
j=counter;  
if ( k!=0 ) {  
i=k;  
k=0;  
}  
}  
else if ( (a[counter] < a[i]) || (a[counter] < a[k]) ) {  
k=counter;  
}  
}
```

^ | v • Reply • Share ›



**Amandeep Gautam** → Amandeep Gautam • 2 years ago

The above algorithm is  $O(n)$  time and  $O(1)$  space.

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Ifenjoy9 · 2 years ago

```
// find the first adjacent elements in ascending order and c
// compare the two pairs of adjacent elements
// A[x] > A[i] => i, x, x + 1
// A[x+1] > A[j] => i, j, x + 1
// set i to x and j to x + 1 and otherwise continue
public void find(int[] A)
{
    int i = -1;
    int j = -1;
    int k = -1;
    int x = 0;
    int l = A.length;
    while(x < l - 2 && A[x+1] <= A[x]) x++;
    if(x < l - 2) {
        i = x;
        j = x + 1;
        x++;
        while(x < l - 1) {
```

[see more](#)

^ | v · [Reply](#) · [Share](#) ›



Nirdesh → Ifenjoy9 · a year ago

Your solution will not work for input :

{ 1,12, 11, 2, -2,-5,10 }

where expected result is : 1,2,10 but your program prints nothings.

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nitin gupta iitian · 2 years ago



/\* Paste your code here (You may delete these lines if not writing code) \*/

@geeksforgeeks

Its very easy dud

it like a maximum and minimum problem

Logic is very simple

actually we have to first find the minimum value .once we encounter minimum value

greater than previous value

{12, 11, 10, 5, 6, 2, 30, 5, 3, 32, 2, 40};

first we found minimum value 11 then 10 then 5 (since  $6 > 5$  )

now we find greater value's which is greater to previous one

we have 5 now next is 6 next is 30 next is 32 and 40

EASY NA!

I DON'T KNOW WHY YOU NEED TWO ARRAY ?

]

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**andrew** → nitin gupta iitian • 2 years ago

this will be wrong in case:

{12, 11, 10, 5, 6, 2, 3, 4}



/\* Paste your code here (You may **delete** these lines **if not** wri

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**NITIN GUPTA IITIAN** • 2 years ago

@geeksforgeeks

Its very easy dud

its very easy uuu

it like a maximum and minimum problem

simplest Logic is

actually we have to first find the minimum value .once we encounter minimum value

greater than previous value

{12, 11, 10, 5, 6, 2, 30,5,3,32,2,40};

first we found minimum value 11 then 10 then 5 (since  $6 > 5$  )

now we find greater value's which is greater to previous one

we have 5 now next is 6 next is 30 next is 32 and 40

EASY NA!

```
/* Paste your code here (You may delete these lines if not writing c
```

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lohith • 2 years ago

```
import java.util.ArrayList;
```

```
public class subsequence3 {
```

```
    public static int array[] = {5,2,6,3,4};
```

```
    public static void main(String str[]){
```

```
        ArrayList<Integer> inn = new ArrayList<Integer>();
```

```
        for(int i=0;i<array.length;i++){
```

```
            inn.add(i);
```

```
        }
```

```
ArrayList<Integer> resu = Subsequence(inn,0);
```

```
for(int i=0;i<resu.size();i++){
```

[see more](#)

^ | v • Reply • Share ›



lei • 2 years ago

build auxiliary array will be  $O(n*n)$ ; so average it is not  $O(n)$

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ashu → lei • 2 years ago

you can build auxiliary array using stack in  $O(n)$  time.

```
/* Paste your code here (You may delete these lines if not wr
```

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ashu → lei • 2 years ago

you can build your auxiliary array using stack. it will take  $O(n)$  time.

```
/* Paste your code here (You may delete these lines if not wr
```

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Ashu • 2 years ago

I think approach for 4 increasing sorted sub-sequence is same , you need to s  
a[i] in greater[i] and last smaller element of a[i] in smaller[i].

then for every index you can check if for index i , (smaller[i]!=-1 and smaller[sr  
smaller[i]!=-1 and greater[i]!=-1 and greater[greater[i]])



/\* Paste your code here (You may **delete** these lines **if not** writing c

^ | v • Reply • Share ›



souvik • 2 years ago

O(n) time O(1) space for the 3 element problem

```
void find(int x[],int n)
{
    int i=0,j=n,k=n,l;
    if(n<3)
    {
        printf("Not enough elements");
        return;
    }
    for(l=1;l<n;l++)
    {
        if(j==n)
        {
            if(x[l]>x[i])
                j=l;
            else
                i=l;
        }
    }
}
```

see more

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anonymous → souvik • 2 years ago

@souvik

You should always put comments in your code so that one can unders

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Anurag Singh · 2 years ago

Exercise 1:

Find a subsequence of size 3 such that  $arr[i] < arr[k]$

Here we will calculate two smaller arrays, say smaller1 and smaller2.

smaller1 array will be exactly same as smaller array in solution of original problem (number on the left side)

smaller2 will be opposite, it will store the index of a smaller number in right side

Now traverse smaller1 and smaller2 arrays, find an index  $i$  where  $smaller1[i] \neq -1$  &  $smaller2[i] \neq -1$

And then expected output will be:

$arr[smaller1[i]]$ ,  $arr[i]$ ,  $arr[smaller2[i]]$

^ | v · Reply · Share ›



Aadarsh → Anurag Singh · a year ago

Pretty simple. Liked it. We can also have a third auxiliary array which stores  $\min(\text{whichever the case maybe})$  for every index.

```
/* Paste your code here (You may delete these lines if not writing code)
```

^ | v · Reply · Share ›



Anurag Singh · 2 years ago

Exercise 2:

Find a sorted subsequence of size 4 in linear time

Here we will calculate greater and smaller arrays as is.

Now if at all, there is an sorted subsequence of size 4, then there will be two distinct indices  $i$  and  $j$  such that  $smaller[i] \neq -1$  &  $greater[i] \neq -1$ , also

$smaller[j] \neq -1$  &  $greater[j] \neq -1$

$i$  and  $j$  can be found by traversing forward and backward in same loop, and the

i and j can be found by traversing forward and backward in same loop. and the  
arr[smaller[i]], arr[i], arr[j], arr[greater[j]]

if no such i and j found, then there is no sorted subsequence of size 4.

^ | v • Reply • Share ›



**Game** • 2 years ago

Apparently you have not free'd the memory you new'd.

^ | v • Reply • Share ›



**geeksforgeeks** → Game • 2 years ago

@game: Thanks for pointing this out. We have added code to delete d  
up!

^ | v • Reply • Share ›



**Ankush** • 2 years ago

Any approach in linear time to size 4 increasing sorted sub-sequence problem

^ | v • Reply • Share ›



**Ashu** → Ankush • 2 years ago

I think approach for 4 increasing sorted sub-sequence is same , you ne  
element of a[i] in greater[i] and last smaller element of a[i] in smaller[i].

then for every index you can check if for index i , (smaller[i]!=-1 and sm  
1) or( smaller[i]!=-1 and greater[i]!=-1 and greater[greater[i]])

```
/* Paste your code here (You may delete these lines if not wr
```

^ | v • Reply • Share ›



**Ankush** • 2 years ago

Any approach to the sorted sub-sequence of size 4 problem??

^ | v • Reply • Share ›



Nicam · 2 years ago

O(n) solution with O(1) space

```
public ArrayList<Integer> find3Numbers (int[] a) {
    if (a == null || a.length < 3) return null;
    int i = -1, j = -1;
    ArrayList<Integer> ans = new ArrayList<Integer>(3);

    for (int k = 1; k < a.length; ++k) {
        if (i != -1 && j != -1 && a[k] > a[j]) {
            ans.add(a[i]);
            ans.add(a[j]);
            ans.add(a[k]);
            return ans;
        } else if (a[k] > a[k-1]) {
            if (i != -1 && j != -1) {
                i = (a[k-1] < a[i]) ? k-1 : i;
                j = (a[k] < a[j]) ? k : j;
            } else {
```

[see more](#)

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Nicam → Nicam · 2 years ago

Corrected one logic bug, the code wasn't working on {5,2,6,3,4}, now s

```
public ArrayList<Integer> find3Numbers (int[] a) {
    if (a == null || a.length < 3) return null;
    int i = -1, j = -1;
    ArrayList<Integer> ans = new ArrayList<Integer>(3);

    for (int k = 1; k < a.length; ++k) {
```

```

for (int k = 1; k < a.length; ++k) {
    if (i != -1 && j != -1 && a[k] > a[j]) {
        ans.add(a[i]);
        ans.add(a[j]);
        ans.add(a[k]);
        return ans;
    } else if (a[k] > a[k-1]) {
        if (i != -1 && j != -1) {
            i = (a[k-1] < a[i]) ? k-1 : i;
            j = (a[k] < a[j]) ? k : j;
        } else {

```

see more

^ | v • Reply • Share ›



**Prem** → Nicam • 2 years ago

@Nicam Can u pls explain ur logic?

^ | v • Reply • Share ›



**Ram** • 2 years ago

says

simple

^ | v • Reply • Share ›



**doom** • 2 years ago

Any ideas for exercise 2: Find a sorted subsequence of size 4 in linear time?

^ | v • Reply • Share ›



**Hamid** • 2 years ago

I think your original code is not taking care of "equal to" condition properly. for e following input:

0 0 0 0 0 0 0

o o o o o o

I believe that you should  $\leq$  instead of just  $<$  in following statement while filling  
if ( $\text{arr}[i] < \text{arr}[\text{min}]$ )

and similar logic needs to be followed while filling up greater array as well.

^ | v • Reply • Share ›



**geeksforgeeks** → Hamid • 2 years ago

@Hamid:

Thanks for pointing this out. We have changed the condition. Keep it up

^ | v • Reply • Share ›



**abc** • 2 years ago

Just thought an algo with only one stack,

for  $i = 0$  to  $N$  and  $\text{stack.size}$   $a[i]$ , if yes then replace top with  $a[i]$ , otherwise we  
an increasing subsequence add  $a[i]$ , and set  $\text{found} = 1$ ;

3. if  $\text{found}$  is 1 and  $a[i]$   $a[\text{top}-1]$  replace top with  $a[i]$

in the end if size of stack is 3 we have found one of the subsequence.

Sample run for

$\text{arr}[] = \{12, 11, 10, 5, 6, 2, 30\}$

$s = 12$

$s = 11$  ( since  $a[i] < a[\text{top}]$  )

$s = 10$

$s = 5$

$s = 5, 6$  (  $a[i] < a[\text{top}]$ ,  $\text{found} = 1$  )

$s = 5, 6$  ( 2 is not added since, 6 2

$s = 5, 6, 30$  ( output )

Please comment and let me know cases for which this approach fails.

^ | v · Reply · Share ›



**anonymous** → abc · 2 years ago

does not work for..

{12,11,10,5,6,2,3,4}

^ | v · Reply · Share ›



**manish** · 2 years ago

This is not working, i think the...solution should contain for arr[] = {1,2,3,4}  
output = {1,2,3},{1,3,4},{1,2,4}and {2,3,4}

[sourcecode language="C++"]

```
#include <stdio>
```

```
#include <iostream>
```

```
using namespace std;
```

```
void find3Numbers(int arr[],int n);
```

```
int main()
```

```
{
```

```
int arr[] = {1,2,3,4};
```

```
int arr1[] = {12,11,10,5,6,2,30};
```

```
find3Numbers(arr,sizeof(arr)/sizeof(arr[0]));
```

```
find3Numbers(arr1,sizeof(arr1)/sizeof(arr1[0]));
```

```
return 0;
```

```
}
```

```
void find3Numbers(int arr[],int n)
```

[see more](#)

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**GeeksforGeeks** → manish · 2 years ago



@manish: Please take a closer look at the problem statement. It says given in post prints {1, 2, 4} for your input which looks correct.

^ | v • Reply • Share ›



@geeksforgeeks → GeeksforGeeks • 2 years ago

thank you...i got it

^ | v • Reply • Share ›



Saravan • 2 years ago

Solutions to find first occurrence in passed array!

```
public class FindTriplets {  
    public static void main(String[] args) {  
        int [] arr1 = {12, 11, 10, 5, 6, 2, 30};  
        int [] arr2 = {1, 2, 3, 4};  
        int [] arr3 = {4, 3, 2, 1};  
        solution1(arr1);  
        solution1(arr2);  
        solution1(arr3);  
  
        solution2(arr1);  
        solution2(arr2);  
        solution2(arr3);  
    }  
  
    private static void solution2(int [] arr) {  
        int i = 0;
```

see more

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