

# Practice (/) BETA

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## Popular Topic Tags

- Maths (/topics/maths/)
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All-time Popular Problems
Count nodes of linked list (/problems/count-nodes-of-linked-list/1/?ref=self)
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Difficulty Level: [Easy \(https://practice.geeksforgeeks.org/Easy/0/0/\)](https://practice.geeksforgeeks.org/Easy/0/0/)

Submissions: [14692 \(/problem\\_submissions.php?pid=376\)](#) Accuracy: 24.51%

## Stock buy and sell

(/topics/Array/) [Show Topic Tags](#)

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The cost of a stock on each day is given in an array, find the max profit that you can make by buying and selling in those days.

### Input:

First line contains number of test cases T. Each test case contain the integer value 'N' denoting days followed by an array of stock prices in N days.

### Output:

The maximum profit is displayed as shown below. And if there is no profit then print "No Profit".

### Constraints:

- 1 <= T <= 100
- 2 <= N <= 100
- 1 <= arr[i] <= 10000



## Example

### Input:

```
2
7
100 180 260 310 40 535 695
10
23 13 25 29 33 19 34 45 65 67
```

### Output:

```
(0 3) (4 6)
(1 4) (5 9)
```

Notice: Output format is as follows - (buy\_day sell\_day) (buy\_day sell\_day)

For each input, output should be in a single line.

\*\* For More Input/Output Examples Use 'Expected Output' option \*\*

Author: atharv (<https://auth.geeksforgeeks.org/user/atharv/practice/>)

All submissions

([/problem\\_submissions.php?pid=376](/problem_submissions.php?pid=376))

My submissions

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C (gcc 5.4)

C++ (g++ 5.4)

C#

Java (1.8)

Python 3

Theme Light

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Reset

```

1  for _ in range(int(input())):
2      n=int(input())
7  3      l=list(map(int,input().split()))
100 180 260 310 40 535 695
10 5      i=0
10 6      if i==1:
23 13 25 29 33 19 34 45 65 67
8      else:
9          while(i<n-1):
10             while(i<n-1 and l[i]>=l[i+1] ):
11                 i+=1
12             if i==n-1:
13                 break
14             m=i
15             i+=1
16             while(i<n and l[i-1]<=l[i]):
17                 i+=1
18             p=i-1
19             result.append((m,p))
20 for i in result:
21     print(i,end=" ")
22 print()

```

It is recommended to 'Compile & Test' your code before clicking 'Submit'!

[Compile & Test](#)
[Submit](#)
[Expected Output](#)

```

7
100 180 260 310 40 535 695
10
23 13 25 29 33 19 34 45 65 67

```

[Run Your Code](#)

**Compilation/Execution Result:**

```

(0, 3) (4, 6)
(1, 4) (5, 9)

```

**Need help with your code? Please use** [ide.geeksforgeeks.org](https://ide.geeksforgeeks.org) (<https://ide.geeksforgeeks.org>), **generate link and share the link here.**

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Subjective Questions (/questions/himanshudce/)

Subjective Answers (/answers/himanshudce/)

#### Trending Problems

Number of subarrays whose minimum and maximum are same (/problems/number-of-subarrays-whose-minimum-and-maximum-are-same/0/?ref=self)

High-effort vs. Low-effort (/problems/high-effort-vs-low-effort/0/?ref=self)

Balancing Pan (/problems/balancing-pan/0/?ref=self)

Ways to write n as sum (/problems/ways-to-write-n-as-sum/0/?ref=self)

Find if string is K-Palindrome or not (/problems/find-if-string-is-k-palindrome-or-not/0/?ref=self)

N-divisors (/problems/n-divisors/0/?ref=self)

Lucky Numbers (/problems/lucky-numbers/0/?ref=self)

Right most non zero digit (/problems/right-most-non-zero-digit/0/?ref=self)

Counting Sort (/problems/counting-sort/1/?ref=self)

Divisibility by 999 (/problems/divisibility-by-999/0/?ref=self)

Generate all palindromic numbers less than n (/problems/generate-all-palindromic-numbers-less-than-n/0/?ref=self)

Next higher palindromic number using the same set of digits (/problems/next-higher-palindromic-number-using-the-same-set-of-digits/0/?ref=self)

Occurrences of 2 as a digit (/problems/occurrences-of-2-as-a-digit/1/?ref=self)

C++ STL | Set 2 (pair) (/problems/c-stl-set-2-pair/1/?ref=self)

Sums of i-th row and i-th column (/problems/sums-of-i-th-row-and-i-th-column/0/?ref=self)


## Trending Problems

[First Come First Serve \(/problems/first-come-first-serve/0/?ref=self\)](/problems/first-come-first-serve/0/?ref=self)[Interesting Prime Numbers \(/problems/interesting-prime-numbers/0/?ref=self\)](/problems/interesting-prime-numbers/0/?ref=self)[Longest Repeating Subsequence \(/problems/longest-repeating-subsequence/0/?ref=self\)](/problems/longest-repeating-subsequence/0/?ref=self)

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**Sunny Srivastava** • a month ago

My Output is correct but the ordering doesn't match :/ And IDK how to fix it except to add another loop on top of so many and increase complexity even further. Yes I'm a novice programmer. pls help.

<http://practice.geeksforgee...>

3 ^ | ▾ • Reply • Share ›

**Dhatra** • 2 years ago

When i'm testing my code, it shows same result in test and expected output but while submitting it shows error

Wrong !! Here your code Failed

Input:

89

6764 3645 5181 5893 4542 6753 3996 5483 585 9895 2657 777 1343 4605 261 2225 959 9884 563 4131 6687 7528 6224 436  
 3333 110 2037 7007 4710 2310 7596 7827 2307 9129 72 3202 2234 4069 5037 2819 3964 7694 9948 5307 8652 6561 7532  
 9611 6445 8095 94 9484 1975 6319 9920 5308 6429 1958 8668 7491 620 6264 5318 2927 1745 5391 6129 3979 5812 1167  
 3150 9776 8861 3098 5083 3865 9659 8968 3476 6104 3415 9923 1940 1743 6242 1861 3403 9023 3819

Plz help me

3 ^ | ▾ • Reply • Share ›

**Sruthi Talluri** → Dhatra • 2 years ago

Hey, the problem creeps in because you already have a new line for every test case, so don't require a new line for NO Profit, in case you are using that just change and see.

1 ^ | ▾ • Reply • Share ›

**Avi** → Sruthi Talluri • a year ago

Had same problem. Couldnt notice it. thanks for telling me.

^ | ▾ • Reply • Share ›

**Dhatra** → Sruthi Talluri • 2 years ago

Working now. Thanks!!! kind of you :)

^ | ▾ • Reply • Share ›

**Madhur Adlakha** • 2 years ago

Some problem with the test cases! Result for submit, test and expected output do not match for this input

1

85

5403 2651 2754 2399 9932 5060 9676 3368 7739 12 6226 8586 8094 7539 795 570 1434 378 7467 6601 97 2902 3317 492  
 6652 756 7301 280 4286 9441 3865 9689 8444 6619 8440 4729 8031 8117 8097 5771 4481 675 709 8927 4567 7856 9497  
 2353 4586 6965 5306 4683 6219 8624 1528 2871 5732 8829 9503 19 8270 3368 9708 6715 6340 8149 7796 723 2618 2245

2846 3451 2921 3555 2379 7488 7764 8228 9841 2350 5193 1500 7034 7764 124

2 ^ | v • Reply • Share ›

**Pratika Dola** → Madhur Adlakha • a year ago

Try printing a newline after every case

^ | v • Reply • Share ›

**Bahadur Thakur** • 5 months ago

when i check test cas it will show corret answer but when i submit my code than it will shows wrong answer please help me.

```
#include<bits/stdc++.h>
using namespace std;
int main()
{
    int t;
    cin>>t;
    while(t--){
        int n,input;
        vector<int>v;
        cin>>n;
        for(int i=0;i<n;i++){ cin="">>input;
            v.push_back(input);
        }int l,r,f=1,fl=1;
        for(int i=0;i<=n-1;i++){
            if((v[i]<v[i+1])&&(f)){ l="i," f="0;" }if((f="0")&&(v[i]>v[i+1])){
                r=i;
            }
            cout<<" "<<l<<" "<<r<<" "<<f<<" ";f="1;" fl="0;" }if(fl){="" cout<<"no="" profit";="" }cout<<endl;="" }="" return="" 0;="" }="">
        1 ^ | v • Reply • Share ›
```

**Sumit Kumar** • a year ago

84

886 2777 6915 7793 8335 5386 492 6649 1421 2362 27 8690 59 7763 3926 540 3426 9172 5736 5211 5368 2567 6429 5782  
 1530 2862 5123 4067 3135 3929 9802 4022 3058 3069 8167 1393 8456 5011 8042 6229 7373 4421 4919 3784 8537 5198 4324  
 8315 4370 6413 3526 6091 8980 9956 1873 6862 9170 6996 7281 2305 925 7084 6327 336 6505 846 1729 1313 5857 6124  
 3895 9582 545 8814 3367 5434 364 4043 3750 1087 6808 7276 7178 5788

while testing for this input my code is giving perfect output but while submitting an error occurs. Please help me!

1 ^ | v • Reply • Share ›

**Priyaranjan Rai** • 2 years ago

when I am trying to submit my program, it says....

Wrong !! Here your code Failed

Input:

33

2786 8004 9833 7458 6356 6127 4410 6368 6631 4569 6128 8341 3446 5374 7458 3605 10 4901 3165 8989 1867 2490 926  
 732 6238 699 3705 2000 9562 5457 3832 2348 3461

And its Correct output is:

Wrong Answer

but when I am testing my program against the same input... it gives correct output in accordance with expected output

<http://www.code.geeksforgee...>

1 ^ | v • Reply • Share ›

**Shikhar** Mod → Priyaranjan Rai • 2 years ago

The expected output as well as the example shows that you need to add an extra new line feed between two test case outputs. Kindly follow that and add a "\n" after each test case output.

^ | v • Reply • Share ›

**Priyaranjan Rai** → Shikhar • 2 years agoas you said, I added an extra new line feed after each test case output. so it is supposed to be correct.. 

but now when I am submitting my program, result space shows empty... there is nothing in the result space.. not  
 any something like wrong answer or time limit exceeded <http://www.code.geeksforgee...>

even something like wrong answer or time limit exceeded.... <http://www.code.geeksforgee...>

^ | v • Reply • Share ›



**InfinityDoesExist** • 2 months ago

<http://ide.geeksforgeeks.or...>

Execution Time:0.01

^ | v • Reply • Share ›



**Sanchit Pahuja** • 2 months ago

considering this to be real stock market, how the person in 2nd test case able to skip the 0th value and bought when value was lower(1st<0th) i.e. how come he knows of the future values.

^ | v • Reply • Share ›



**Shubham Kumar** • 4 months ago

I am getting "Your output is producing less number of lines ",,below is my code, can anyone help?

```
#include<bits/stdc++.h>
using namespace std;
struct stock{
int buy;
int sell;
};
int main(){
int T,N,k,i,j;
cin>>T;
for(int t=0;t<T;t++){ cin>>N;
vector<int> V(N);
for(i=0;i<n;i++) cin>>V[i];
i=0;
int count=0;
stock res[N/2+1];
while(i< N){
while(i<n-1 &&v[i+1]<=V[i]) i++;if(i==N-1 &&count==0){ cout<<"no profit";break;} res[count].buy=i++;
while(i<n &&v[i]>=V[i-1])
i++;
res[count].sell=i-1;
count++;
}
for(i=0;i<count;i++) cout<<" "<<res[i].buy<<" "<<res[i].sell<<" ";cout<<endl;}
```

^ | v • Reply • Share ›



**vikas manhas** • 4 months ago

simple greedy approach :)

^ | v • Reply • Share ›



**Bahadur Thakur** • 5 months ago

please help me

this is my code

```
#include<bits/stdc++.h>
using namespace std;
int main()
{
int t;
cin>>t;
while(t--){
int n,input;
vector<int>v;
cin>>n;
for(int i=0;i<n;i++){ cin>>input;
v.push_back(input);
}int l,r,f=1,fl=1;
for(int i=0;i<=n-1;i++){
```





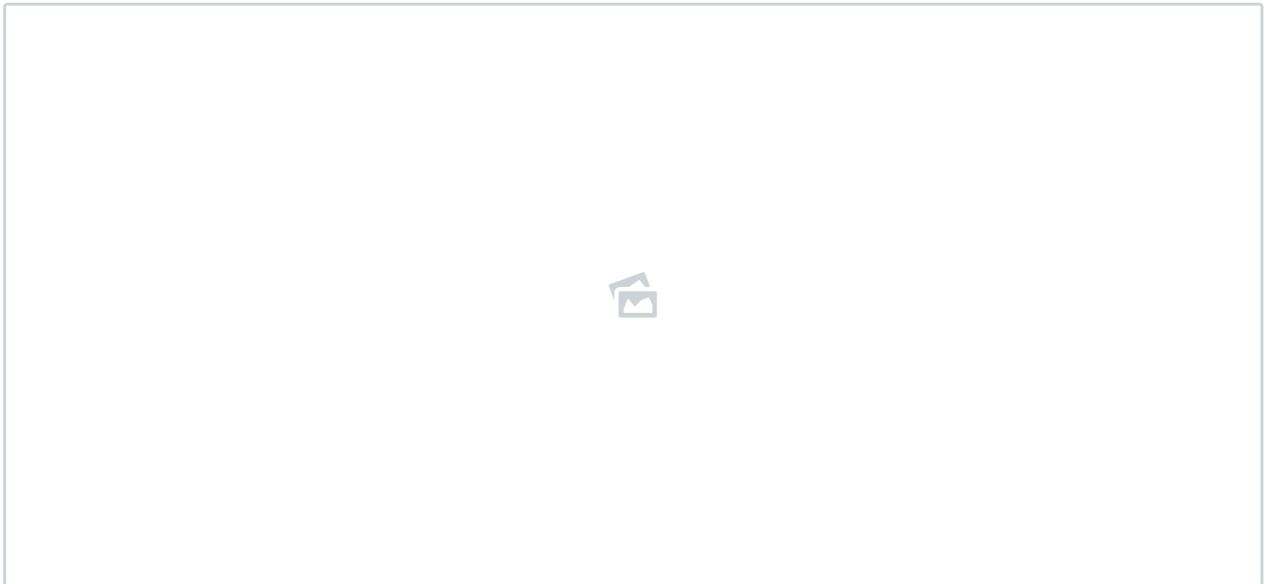
```

if((v[i]<v[i+1])&&(f)){ l="i;" f="0;" }if((f="0")&&(v[i]>v[i+1])){
r=i;
cout<<" "<<l<<" "<<r<<" "<<" "; f="1;" fl="0;" } if(fl){ cout<<"no profit;" }cout<<endl; } return 0; }
the first test case where your code failed: input: 29 688 7369 7917 9917 6996 3324 7743 9470 2183 8490 5499 9772 6725 5644 5590 7505 8139 2954 9786 7669 8082 8542 8464 197 9507 9355 8804 6348 8611 its correct output is: (0 3) (5 7) (8 9) (10 11) (14 16) (17 18) (19 21) (23 24) (27 28) and your output is: (0 3) (5 7) (8 9) (10 11) (14 16) (17 18) (19 21) (23 24)
^ | v • Reply • Share ›

```



Bahadur Thakur • 5 months ago



^ | v • Reply • Share ›



Dimple Maheshwari • 5 months ago

Please, explain this problem in detail

^ | v • Reply • Share ›



ABC • 5 months ago

Hey!! Someone please help me. I am unable to find my mistake.

URL for my code is : <http://ide.geeksforgeeks.or...>

When I run my code its working fine and giving the output same as expected output but when I submit my code last pair of the output is missing!! I am unable to find the error.

Specially for the case:

76

4850 179 6590 2254 5350 1131 3813 7857 1494 9181 6081 4603 5720 2433 7982 181 7487 9415 9296 8825 5404 8722 6892  
 551 297 32 9134 3181 8506 415 7057 9708 595 9999 1962 2297 7483 5776 154 8977 1309 2587 9932 3382 5021 4266 3563  
 8860 3682 9211 7685 9086 4285 930 5990 4583 7314 1476 4116 5820 1892 7525 5528 8839 7525 7490 1136 1360 9618 7643  
 337 928 6582 6621 4310 7955

The last pair is (74,75) which I can see when I run the code but couldn't find this when I am submitting it !

^ | v • Reply • Share ›



Akash • 6 months ago

Hey, Can anyone look at the problem in my code. On submit it says, /  
 "Wrong!!! Your output is producing more number of lines than expected!!!  
 Maybe you have extra new line character."

URL: <http://ide.geeksforgeeks.or...>

^ | v • Reply • Share ›



Vishal Agrawal • 6 months ago

What is the best time complexity for this problem? I think O(n)

^ | v • Reply • Share ›



tushar saha • 6 months ago



Your output is producing less number of lines than expected!!!  
Maybe you are missing new line character.

this is the problem occurring.

my code-

```
#include <iostream>
```

```
using namespace std;
```

```
void problem(int a[],int n)
```

```
{
```

```
int i,j;
```

```
for(i=0;i<n;) {="" int="" buy="-1,sell=-1," for(j="i,j&lt;n;j++)" {="" if(a[j]<a[j+1])="" {="" buy="j;" break;="" }="" }="" if(buy="=-1)" {=""
```

```
cout<<"no="" profit;"="" break;="" }="" for(j="buy+1;j&lt;n;j++)" {="" if(a[j]="">a[j+1])
```

```
{
```

```
sell=j;
```

```
break;
```

```
}
```

```
else if(j==n-1)
```

```
{
```

[see more](#)

^ | v • Reply • Share ›



**Ashwinder Singh** • 6 months ago

<http://code.geeksforgeeks.o...>

Error : Your output is producing less number of lines than expected!!!

Maybe you are missing new line character.

Unable to resolve it..

Plz tell me my mistake.

^ | v • Reply • Share ›



**Xenial** • a year ago

Problem statement says "Find the max profit..." but in the test case we are asked to print the pair of days. Please resolve this ambiguity.

^ | v • Reply • Share ›



**Sumit** • a year ago

i am getting correct result for the hidden testcase given by Geeks, still i get wrong answer message...please help me out

```
import java.util.*;
```

```
class Solution{
```

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

```
Scanner in=new Scanner(System.in);
```

```
int t=in.nextInt();
```

```
while(t-->0) {
```

```
int n = in.nextInt();
```

```
int a[] = new int[n + 1];
```

```
for (int i = 0; i < n; i++) {
```

```
a[i] = in.nextInt();
```

```
}
```

```
a[n] = 0;
```

```
int x = 0, y = 0;
```

```
int c = 0;
```

```
for (int i = 0; i < n; i++) {
```

```
int x = 0, y = 0; int c = 0; for (int i = 0; i < n; i++) {
```

[see more](#)

^ | v • Reply • Share ›



**Dharmesh Singh** Mod → Sumit • a year ago

Your code is failing for given test cases. Please check the editorial button, it may help you.

^ | v • Reply • Share ›



**viral** • a year ago

[http://code.geeksforgeeks.o...](#)

<http://code.geeksforgeeks.org...>

This code is generating correct output for the given input but when I submit, it just says my input is empty.

^ | v • Reply • Share ›



**GeeksforGeeks** Mod → viral • a year ago

The case where output is "No Profit" doesn't seem to be handled properly. Your code seems to be generating extra line when this case occurs.

^ | v • Reply • Share ›



**viral** → GeeksforGeeks • a year ago

thank you

^ | v • Reply • Share ›



**Sumit Kumar** • a year ago

Now this problem

Wrong !! The first test case where your code failed:

Input:

29

688 7369 7917 9917 6996 3324 7743 9470 2183 8490 5499 9772 6725 5644 5590 7505 8139 2954 9786 7669 8082 8542 8464  
197 9507 9355 8804 6348 8611

Its Correct output is:

(0 3) (5 7) (8 9) (10 11) (14 16) (17 18) (19 21) (23 24) (27 28)

And Your Output is:

(3 5) (7 8) (9 10) (11 14) (16 17) (18 19) (21 23) (24 27)

And on the test and expected output screen results are same.. Can anyone help me wid this??

^ | v • Reply • Share ›



**Abhi** • 2 years ago

How to view the solution of this question??

^ | v • Reply • Share ›



**coder2890** • 2 years ago

For input:

1

2

272 5

Code's output is : No Profit

But, the testcase fails even though if 'No profit' is the expected output. Why is that so?

^ | v • Reply • Share ›



**Ketan Mittal** • 2 years ago

Are we allowed to keep possession of more than one stock at a time?

Eg.

3 ( no. of days)

1 2 10 (prices at different days)

Here if we buy on first and second day and sell on third day, the profit will be  $(10-1 + 10-2)=17$ .

Correct me if I am wrong.

^ | v • Reply • Share ›



**Akshay** • 2 years ago

**@GeeksforGeeks @Shikhar @AC**

Is multiple buying selling allowed??? I mean please mention number of transactions allowed.

^ | v • Reply • Share ›



**AC** → Akshay • 2 years ago

For optimal result, at every instance, one must be in possession of at most one stock. You are not restricted to buy and