

# Practice (/) BETA

[GeeksforGeeks \(https://www.geeksforgeeks.org/\)](https://www.geeksforgeeks.org/) [GATE CS \(https://www.geeksforgeeks.org/gate-corner-2-gq/\)](https://www.geeksforgeeks.org/gate-corner-2-gq/)[Placements \(https://www.geeksforgeeks.org/placements-gq/\)](https://www.geeksforgeeks.org/placements-gq/) [Videos \(https://www.youtube.com/geeksforgeeksvideos/\)](https://www.youtube.com/geeksforgeeksvideos/)[Contribute \(https://www.geeksforgeeks.org/contribute/\)](https://www.geeksforgeeks.org/contribute/)[Hello himanshudce \(https://auth.geeksforgeeks.org/user/himanshudce/practice/\)](https://auth.geeksforgeeks.org/user/himanshudce/practice/)

## Popular Company Tags

- [Amazon \(/company/Amazon/\)](/company/Amazon/)
- [Microsoft \(/company/Microsoft/\)](/company/Microsoft/)
- [Oracle \(/company/Oracle/\)](/company/Oracle/)
- [Samsung \(/company/Samsung/\)](/company/Samsung/)
- [Adobe \(/company/Adobe/\)](/company/Adobe/)
- [Synopsys \(/company/Synopsys/\)](/company/Synopsys/)
- [Infosys \(/company/Infosys/\)](/company/Infosys/)
- [Cisco \(/company/Cisco/\)](/company/Cisco/)
- [Wipro \(/company/Wipro/\)](/company/Wipro/)
- [Ola-Cabs \(/company/Ola-Cabs/\)](/company/Ola-Cabs/)
- [Morgan-Stanley \(/company/Morgan-Stanley/\)](/company/Morgan-Stanley/)
- [Goldman-Sachs \(/company/Goldman-Sachs/\)](/company/Goldman-Sachs/)
- [show more \(/company-tags\)](/company-tags)



## Popular Topic Tags

- [Maths \(/topics/maths/\)](/topics/maths/)

- [Array \(/topics/array/\)](/topics/array/)
- [Dynamic-Programming \(/topics/Dynamic-Programming/\)](/topics/Dynamic-Programming/)
- [Greedy-Algorithm \(/topics/Greedy-Algorithm/\)](/topics/Greedy-Algorithm/)
- [Hashing \(/topics/Hashing/\)](/topics/Hashing/)
- [Tree \(/topics/tree/\)](/topics/tree/)
- [Bit-Algorithm \(/topics/bit-algorithm/\)](/topics/bit-algorithm/)
- [Matrix \(/topics/matrix/\)](/topics/matrix/)
- [Backtracking \(/topics/backtracking/\)](/topics/backtracking/)
- [Operating System \(/topics/Operating System/\)](/topics/Operating System/)
- [Linked-List \(/topics/Linked-List/\)](/topics/Linked-List/)
- [Graph \(/topics/Graph/\)](/topics/Graph/)
- [show more \(/topic-tags\)](/topic-tags/)

All-time Popular Problems
<a href="/problems/inorder-successor-in-bst/1/?ref=self">Inorder Successor in BST (/problems/inorder-successor-in-bst/1/?ref=self)</a>
<a href="/problems/transform-to-sum-tree/1/?ref=self">Transform to Sum Tree (/problems/transform-to-sum-tree/1/?ref=self)</a>
<a href="/problems/bubble-sort/1/?ref=self">Bubble Sort (/problems/bubble-sort/1/?ref=self)</a>
<a href="/problems/maximum-width-of-tree/1/?ref=self">Maximum Width of Tree (/problems/maximum-width-of-tree/1/?ref=self)</a>
<a href="/problems/merge-sort/1/?ref=self">Merge Sort (/problems/merge-sort/1/?ref=self)</a>
<a href="/problems/longest-common-substring/0/?ref=self">Longest Common Substring (/problems/longest-common-substring/0/?ref=self)</a>
<a href="/problems/pythagorean-triplet/0/?ref=self">Pythagorean Triplet (/problems/pythagorean-triplet/0/?ref=self)</a>
<a href="/problems/pairwise-swap-elements-of-a-linked-list-by-swapping-data/1/?ref=self">Pairwise swap elements of a linked list by swapping data (/problems/pairwise-swap-elements-of-a-linked-list-by-swapping-data/1/?ref=self)</a>
<a href="/problems/binary-search/1/?ref=self">Binary Search (/problems/binary-search/1/?ref=self)</a>
<a href="/problems/get-minimum-element-from-stack/1/?ref=self">Get minimum element from stack (/problems/get-minimum-element-from-stack/1/?ref=self)</a>

Difficulty Level: [Easy \(https://practice.geeksforgeeks.org/Easy/0/0/\)](https://practice.geeksforgeeks.org/Easy/0/0/)

Submissions: [9693 \(/problem\\_submissions.php?pid=145\)](/problem_submissions.php?pid=145) Accuracy: 18.67%

## Rotation

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

[Amazon \(/company/Amazon/\)](/company/Amazon/) [ABCO \(/company/ABCO/\)](/company/ABCO/)

Given a sorted array which is rotated 'N' times. Find the value of 'N'.

### Input:

The first line contains an integer T, depicting total number of test cases.

Then following T lines contains an integer N depicting the size of array and next line followed by the value of array.

### Output:

Print the value of 'n'.

### Constraints:

$$1 \leq T \leq 50$$

$$1 \leq N \leq 100$$

$$0 \leq A[i] \leq 100$$

### Example:

## Input

```
2
5
5 1 2 3 4
5
1 2 3 4 5
```

## Output

```
1
0
```

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

Author: shef5 (<https://auth.geeksforgeeks.org/user/shef5/practice/>)

All submissions (/problem\_submissions.php?pid=145)

My submissions

(/problem\_submissions.php?pid=145&isSolved=ALL&lang=ALL&user=Self)

Editorial (/editorial.php?pid=145)

New to competitive programming? Please see [How to Begin?](https://www.geeksforgeeks.org/how-to-begin-with-competitive-programming/) and [How to Pick a Category?](https://practice.geeksforgeeks.org/pickACategory.php)

C (gcc 5.4)

C++ (g++ 5.4)

C#

Java (1.8)

Python 3

Theme Light

Set Default Code (<https://auth.geeksforgeeks.org/edit-profile.php>)

Reset



```
1 for _ in range(int(input())):
2     n=int(input())
3     l=list(map(int,input().split()))
4     num=min(l)
5     if l[0]==l[n-1] and l[0]==num:
6         for i in range(n-1,-1,-1):
7             if l[i]==num:
8                 print(i)
9                 break
10    else:
11        print(l.index(num))
12
13
```

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

Compile & Test

Submit

Expected Output



Compilation/Execution Result:

Correct Answer. ✓

Execution Time:0.02

Next Suggested Problem: Quick Left Rotation (/problems/quick-left-rotation/0/?ref=self)

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

Share this Coding Problem !!



Leaderboard (Overall) ▶ (/ranking.php)

Weekly	Monthly	Overall
DilipV (https://auth.geeksforgeeks.org/user/DilipV/practice/)		302
AdityaSrivastava1 (https://auth.geeksforgeeks.org/user/AdityaSrivastava1/practice/)		198
L.Lawliet (https://auth.geeksforgeeks.org/user/L.Lawliet/practice/)		193
apeksha.khare (https://auth.geeksforgeeks.org/user/apeksha.khare/practice/)		176
ksbaghel (https://auth.geeksforgeeks.org/user/ksbaghel/practice/)		174
himanshudce (https://auth.geeksforgeeks.org/user/himanshudce/practice/)		27

## My Subjective Stats

Subjective Questions (/questions/himanshudce/)

Subjective Answers (/answers/himanshudce/)

## Trending Problems

Minimum Swaps for Bracket Balancing (/problems/minimum-swaps-for-bracket-balancing/0/?ref=self)

Trace Path (/problems/trace-path/0/?ref=self)

Max Sum Subarray of size K (/problems/max-sum-subarray-of-size-k/0/?ref=self)

Split the Array (/problems/split-the-array/0/?ref=self)


## Trending Problems

Longest sub-sequence such that difference between adjacents is one (/problems/longest-sub-sequence-such-that-difference-between-adjacents-is-one/0/?ref=self)
Fill up buckets (/problems/fill-up-buckets/0/?ref=self)
All numbers with specific difference (/problems/all-numbers-with-specific-difference/0/?ref=self)
Chandler and Joey (/problems/chandler-and-joe/0/?ref=self)
Maximum difference Indexes (/problems/maximum-difference-1/0/?ref=self)
Total digits (/problems/total-digits/0/?ref=self)
k-th smallest number using digits of a given number (/problems/get-the-kth-smallest-number-using-the-digits-of-the-given-number/0/?ref=self)
N-divisors (/problems/n-divisors/0/?ref=self)
Triplet with 0 sum in BST (/problems/three-numbers-sum-equal-to-0/1/?ref=self)
Check perfect square (/problems/check-perfect-square/0/?ref=self)
Arrange the Balls (/problems/arrange-the-balls/0/?ref=self)
Product of factors of number (/problems/product-of-factors-of-number/0/?ref=self)
Sum of all subsets formed by first N natural numbers (/problems/sum-of-all-subsets-formed-by-first-n-natural-numbers/0/?ref=self)
One's Complement (/problems/ones-complement/0/?ref=self)

## Recent Comments (/recentComments.php)

24 Comments

GeeksforGeeks Practice

 himanshu ▾ Recommend Share

Sort by Best ▾

GeeksforGeeks Practice requires you to verify your email address before posting. Send verification email to himanshu.dce12@gmail.com ✕



```
for _ in range(int(input())):
    n=int(input())
    l=list(map(int,input().split()))
    a=l.index(min(l))
    b=[1:].index(min(l[1:]))
    if b>a:
        print(b+1)
    else:
        print(a)
```

**Himanshu Dugar** • 3 months ago

The method of binary search given in the <http://www.geeksforgeeks.org...> is not correct as it produces wrong output for

5

2 1 2 2 2

correct output: 1

code output: 4

1 ^ | ▾ • Reply • Share ▾

**Chanchal Mishra** → Himanshu Dugar • 2 months ago

Its for unique element I guess. For duplicate elements you have to implement another method.

5 ^ | ▾ • Reply • Share ▾

**Vidit Kumar** • 3 months ago

Please correct the question or the driver code. Since, there is ambiguity, if array is sorted in increasing or decreasing order, and if it is rotated right or left. And if we ignore this ambiguity, how can the below input show the 2 as Expected Output?

Input:

5

1 5 4 3 2

^ | ▾ • Reply • Share ▾

**Quandrav** → Vidit Kumar • 3 months ago

For this problem "sorted" means increasing and "rotated" means to the right, so 5 4 3 2 1 wouldn't be valid input.

1 ^ | ▾ • Reply • Share ▾

**Vidit Kumar** → Quandrav • 3 months ago



anmol bhatnagar • 4 months ago

Yeah, that should be mentioned in the problem. I came to know after seeing Expected Output.

^ | v • Reply • Share ›



anmol bhatnagar • 4 months ago

I'm having a problem that when submitting it shows that my output is different from the expected output but while testing the code, it gives output which is same as that of the expected output, please help. Below is my code:

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

^ | v • Reply • Share ›



Quandray → anmol bhatnagar • 4 months ago

Try this input

2

5

1 1 4 5 6

5

1 1 4 5 6

1 ^ | v • Reply • Share ›



anmol bhatnagar → Quandray • 4 months ago

thanks it really helped

^ | v • Reply • Share ›



RED\_ACE • 4 months ago

WTF? How can we find N? We can only find size%N.

^ | v • Reply • Share ›



Satyam Raj • 4 months ago

Do care about the duplicates!

^ | v • Reply • Share ›



Paras Madaan • 5 months ago

i am getting wrong answer under test case 1,2,3,4,5 as your output=1 and correct output=0 but my output is also 0 in my ide my solution

```
public class rotationcount {
    static int maxvalue=0,maxpos;
    public static int checkrotate(int[] arr,int n)
    { int pos=0;
    for(int i=0;i<n;i++) {="" if(arr[i]==>maxvalue)
    {
    maxvalue=arr[i];
    pos=i;
    }
    }
    return pos;
    }
    public static void main(String[] args) {
    Scanner sc=new Scanner(System.in);
    int t=sc.nextInt();
    for(int i=0;i<t;i++) {="" int="" n="sc.nextInt();" int="" []arr="new" int[n];="" for(int="" j="0;j<n;j++)" {="" arr[j]="sc.nextInt();" }=""
    maxpos="checkrotate(arr, n);="" if(maxpos<n-1)="" system.out.println(maxpos+1);="" else="" system.out.println("0");="" }="" }=""
    }="">
```

^ | v • Reply • Share ›



Sagar Tyagi • 5 months ago

I am getting wrong answer for a test case but when checked under "Test" option, the output is same as the expected output. Can't figure out the issue?

my code is:-

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

```
int main() {
```

```
//code
```

```
int n,t,i,j,val[100]={0},A[100];
```



```
scanf("%d",&t);
for(i=0;i<t;i++) {="" scanf("%d",&n);="" for(j="0;j<=n;j++") {="" scanf("%d",&a[j]);="" }="" for(j="0;j<=n;j++") {="" if(a[j]==A[j+1]){
val[i]=j+1;break;}

}
}
for(i=0;i<t;i++) printf("%d\n",val[i]);="" return="" 0;="" }="">
^ | v • Reply • Share ›
```



**rashmi kushwaha** • 5 months ago

```
#include <iostream>
using namespace std;
void leftRotatebyOne(long int arr[], int n)
{
    int i, temp;
    temp = arr[n-1];
    for (int i = n-2; i >=0; i--)
        arr[i+1] = arr[i];
    arr[0] = temp;
}
void del(long int arr[],int n,int p)
{
    if(p==n)
        return;
    for(int i=p-1; i<n-1; i++) {="" arr[i]=arr[i+1];="" }="" n--;="" }="" int="" main()="" {="" int="" t;="" cin="">>t;
    while(t)
    {
        int n,l;
```

[see more](#)

^ | v • Reply • Share ›



**Neeraj Jha** • 8 months ago

Compilation Error...

INFO: os::commit\_memory(0x00007f89e1c93000, 32440320, 0) failed; error='Cannot allocate memory' (errno=12)

^ | v • Reply • Share ›



**Afaque ahmad** • a year ago

Please Help me with this. Im getting TLE.

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

^ | v • Reply • Share ›



**jithender maroju** • a year ago

Hi. Iam getting wrong answer while submitting. But i tested the same input and it is giving right.But it is giving wrong in submission.

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

Input:

6

43 92 3 5 28 37

Its Correct output is:

2

And Your Output is:

3

And the same input gives right answer in test case.. please help

^ | v • Reply • Share ›



**Sagar Tyagi** ➔ jithender maroju • 5 months ago

same problem here!!

for test case

3

17 22 83

correct:- 0

