 Marwadi University	Marwadi University Faculty of Technology Department of Information and Communication Technology	
Sem : 4	Name : VEDANT BHARAD	
Day : 116	Date : 10/2/2023	Enrollment No: 92100133023


CP Club 365 Days Challenge

Programming language – C++

Problem Statement


<https://www.codechef.com/problems/ENDSORTED>

Git :- https://github.com/Vedantbharad2603/CP_club_365_Days

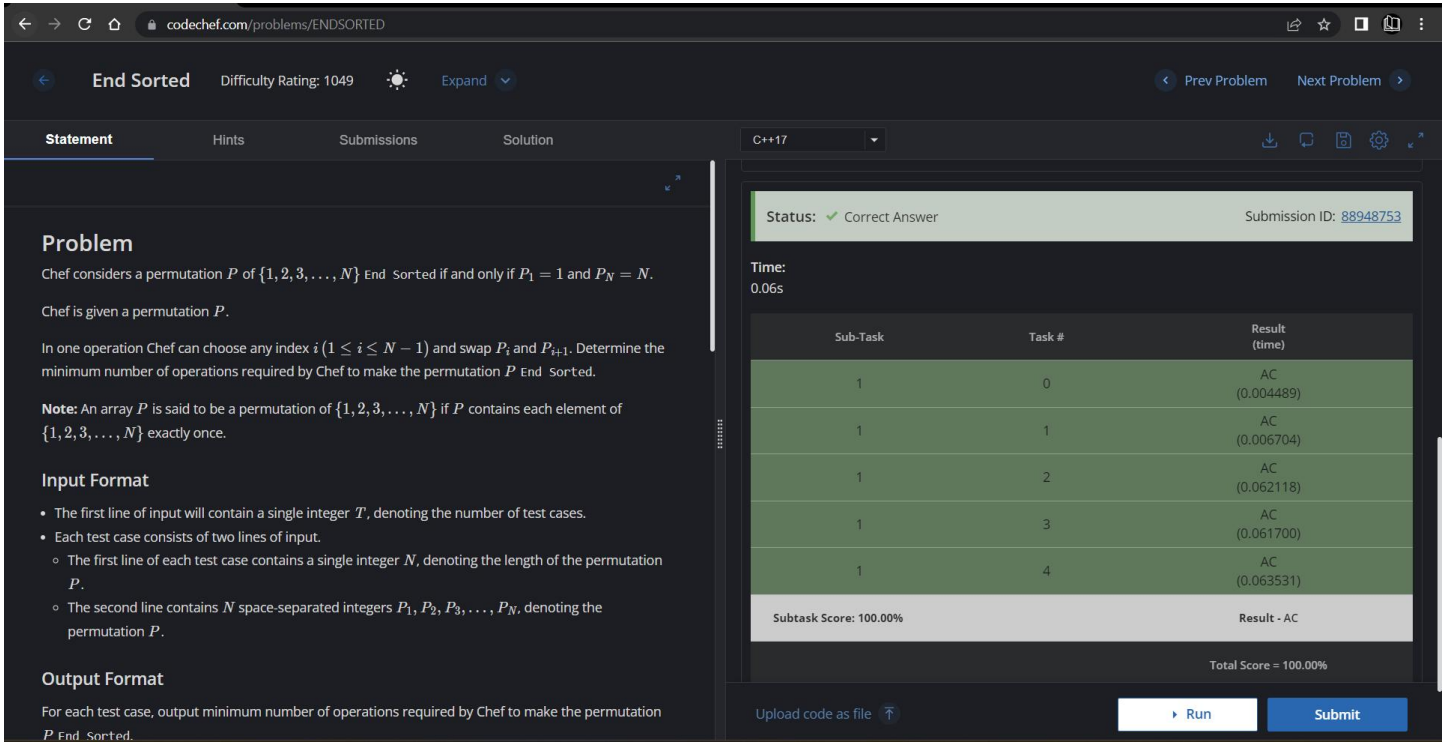
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Your Code:

```
// 0x116Day of 0x365Days challenge
// VEDANT BHARAD
// 10-2-2023
//[ Driver Code Starts
#include <bits/stdc++.h>
using namespace std;
int findOne(int arr[], int n){
    for(int loop = 0; loop < n; loop++){
        if(arr[loop] == 1){
            return loop;}
    }
}
int findN(int arr[], int n){
    for(int loop = 0; loop < n; loop++){
        if(arr[loop] == n){
            return loop;}
    }
}
int myFun(int arr[], int n){
    int con=0;
    if(arr[0]!=1){
        int index=findOne(arr,n);
        while(arr[0]!=1){
            swap(arr[index-1],arr[index]);
            index--;
            con++;}
    }
    if(arr[n-1]!=n){
        int index=findN(arr,n);
        while(arr[n-1]!=n){
            swap(arr[index],arr[index+1]);
            index++;
            con++;}
    }
    return con;
}
int main() {
    int t;
    cin>>t;
    while(t--){
        int n;
        cin>>n;
        int arr[n];
        for(int i=0; i<n; i++){
            int temp;
            cin>>temp;
            arr[i] = temp;}
        cout<<myFun(arr, n)<<endl;
    }
    return 0;
}
```

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Output (Screen Shot):



The screenshot shows the CodeChef interface for the problem "End Sorted". The problem statement describes a permutation P of $\{1, 2, 3, \dots, N\}$ and asks for the minimum number of adjacent swaps required to make it "End Sorted" (where $P_1 = 1$ and $P_N = N$). The input format specifies the number of test cases T and the permutation P for each. The output format requires the minimum number of operations for each test case.

The submission result on the right shows a "Correct Answer" status with a submission ID of 88948753. The execution time was 0.06s. A table of sub-tasks shows 5 tasks, all completed with "AC" (Accepted) status and a total score of 100.00%.

Sub-Task	Task #	Result (time)
1	0	AC (0.004489)
1	1	AC (0.006704)
1	2	AC (0.062118)
1	3	AC (0.061700)
1	4	AC (0.063531)
Subtask Score: 100.00%		Result - AC
Total Score = 100.00%		

Understanding about problem:

- In this task I need to find whether the array is end sorted or not if it is then return 0 else make end sorted and return steps to make it end sorted.

Note: If you can't understand the problem, feel free to contact us and we'll help you. Please don't copy and paste from anywhere.

ALL THE BEST
Team CP Club