

CHANDIGARH UNIVERSITY
UNIVERSITY INSTITUTE OF ENGINEERING
DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING



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Subject Name	Competitive Coding
Subject Code	20CSP-314
Branch	CSE
Semester	5th

LAB INDEX

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SECTION:20BCS_WM_617_B

SUBJECT NAME: Competitive Coding Lab

SUBJECT CODE: 20CSP-314

[illegible]

Experiment – 1

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Branch: CSE

Section/Group: 806/B

Semester: 5th Sem

Date of Performance: 09 Aug,2022

Subject Name: Competitive Coding

Subject Code: 20CSP-314

Problem Statement 1.1

Objective

Today, we will learn about the Array data structure. Check out the [Tutorial](#) tab for learning materials and an instructional video.

Task

Given an array, A , of N integers, print A 's elements in reverse order as a single line of space-separated numbers.

Example

$A = [1, 2, 3, 4]$

Print 4 3 2 1. Each integer is separated by one space.

Input Format

The first line contains an integer, N (the size of our array).

The second line contains N space-separated integers that describe array A 's elements.

Constraints

Constraints

- $1 \leq N \leq 1000$
- $1 \leq A[i] \leq 10000$, where $A[i]$ is the i^{th} integer in the array.

Output Format

Print the elements of array A in reverse order as a single line of space-separated numbers.

Sample Input

```
4
1 4 3 2
```

Sample Output

```
2 3 4 1
```

Solution:

```
#include <bits/stdc++.h>
using namespace
std;
void reverse(int *arr,int n,int i,int j){
    //base
    case :
    if(i>j){
        return;
    }
    // processing
    int temp = arr[i];
    arr[i]=arr[j];
    arr[j]=temp;
    i++;    j--;
    reverse(arr,n,i,j);
}
int main() {    int
arr[10000];    int n;
cin>>n;        for(int
i=0;i<n;i++){
cin>>arr[i];
    }
int start = 0;
int end = n -1;
    reverse(arr,n,start,end);
    for(int
i=0;i<n;i++){
cout<<arr[i]<<" ";
    }
cout<<endl;
    }
```

Output:

Congratulations

You solved this challenge. Would you like to challenge your friends? [f](#) [t](#) [in](#)

[Next Challenge](#)

✓ Test case 2

✓ Test case 3

✓ Test case 4

✓ Test case 5

✓ Test case 6

✓ Test case 7

✓ **Test case 8**

Compiler Message

Success

Input (stdin) [Download](#)

1	4
2	1 4 3 2

Expected Output [Download](#)

1	2 3 4 1
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