



Arrays - DS

by saikiran9194

Problem

Submissions

Leaderboard

Discussions

Editorial

An *array* is a type of data structure that stores elements of the same type in a contiguous block of memory. In an array, A , of size N , each memory location has some unique index, i (where $0 \leq i < N$), that can be referenced as $A[i]$ (you may also see it written as A_i).

Given an array, A , of N integers, print each element in reverse order as a single line of space-separated integers.

Note: If you've already solved our C++ domain's *Arrays Introduction* challenge, you may want to skip this.

Input Format

The first line contains an integer, N (the number of integers in A).
The second line contains N space-separated integers describing A .

Constraints

- $1 \leq N \leq 10^3$
- $1 \leq A_i \leq 10^4$, where A_i is the i^{th} integer in A

Output Format

Print all N integers in A in reverse order as a single line of space-separated integers.

Sample Input

```
4
1 4 3 2
```

Sample Output

```
2 3 4 1
```

[f](#) [t](#) [in](#)

Submissions: 129426

Max Score: 10

Difficulty: Easy

Rate This Challenge:

☆☆☆☆☆

[More](#)

Current Buffer (saved locally, editable)

C



```
1 #include <math.h>
2 #include <stdio.h>
3 #include <string.h>
4 #include <stdlib.h>
```

```
5 #include <assert.h>
6 #include <limits.h>
7 #include <stdbool.h>
8
9 int main(){
10     int n;
11     scanf("%d",&n);
12     int *arr = malloc(sizeof(int) * n);
13     for(int arr_i = 0; arr_i < n; arr_i++)
14     {
15         scanf("%d",&arr[arr_i]);
16     }
17     for(int arr_i = 0; arr_i < n; arr_i++)
18     {
19         printf("%d ", arr[n - 1 - arr_i]);
20     }
21     return 0;
22 }
23
```

Line: 8 Col: 1

 [Upload Code as File](#)☐ Test against custom input[Run Code](#)[Submit Code](#)

Congrats, you solved this challenge!

✓ Test Case #0

✓ Test Case #3

✓ Test Case #6

✓ Test Case #1

✓ Test Case #4

✓ Test Case #7

✓ Test Case #2

✓ Test Case #5

✓ Test Case #8

[Next Challenge](#)

Copyright © 2017 HackerRank. All Rights Reserved

Join us on IRC at [#hackerrank](#) on freenode for hugs or bugs.[Contest Calendar](#) | [Interview Prep](#) | [Blog](#) | [Scoring](#) | [Environment](#) | [FAQ](#) | [About Us](#) | [Support](#) | [Careers](#) | [Terms Of Service](#) | [Privacy Policy](#) | [Request a Feature](#)