



## Arrays - DS ★

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An array is a 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  $A[i]$  or  $A_i$ .

Your task is to reverse an array of integers.

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

**Example** $A = [1, 2, 3]$ Return  $[3, 2, 1]$ .**Function Description**

Complete the function **reverseArray** with the following parameter(s):

- **int  $A[n]$** : the array to reverse

**Returns**

- **int $[n]$** : the reversed array

**Input Format**

The first line contains an integer,  $N$ , the number of integers in  $A$ .

The second line contains  $N$  space-separated integers that make up  $A$ .

**Constraints**

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

**Sample Input 1**[Copy](#) [Download](#)

1	4	3	2
---	---	---	---

Array: arr

4  
1 4 3 2

**Sample Output 1**

2 3 4 1

**Explanation 1**

The original array is  $[1, 4, 3, 2]$ . Reversed, it is  $[2, 3, 4, 1]$ .



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Language

Python 3



```
1  #!/bin/python3
2
3  import math
4  import os
5  import random
6  import re
7  import sys
8
9  #
10 # Complete the 'reverseArray' function below.
11 #
12 # The function is expected to return an INTEGER_ARRAY.
13 # The function accepts INTEGER_ARRAY a as parameter.
14 #
15
16 def reverseArray(a):
17     # Write your code here
18     length = len(a)
19     for i in range(length//2):
20         a[i], a[length-i-1] = a[length-i-1], a[i]
21     return a
22     # if you just want the result but no process
23     # return a[::-1]
24
25
26
27
28 if __name__ == '__main__':
29     fptr = open(os.environ['OUTPUT_PATH'], 'w')
30
31     arr_count = int(input().strip())
32
33     arr = list(map(int, input().rstrip().split()))
34
```

EMACS

Line: 41 Col: 1

Upload Code as File

☐

Test against custom input

**Run Code**

Submit Code

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16%

41/100



# Congratulations

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Compiler Message

✔ Test case 1 🔒

Success

✔ Test case 2 🔒

✔ Test case 3 🔒

✔ Test case 4 🔒

✔ Test case 5 🔒

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