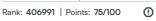
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# Array Reversal ★

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## RATE THIS CHALLENGE



Given an array, of size  $\boldsymbol{n}$ , reverse it.

Example: If array, arr = [1, 2, 3, 4, 5], after reversing it, the array should be, arr = [5, 4, 3, 2, 1].

#### **Input Format**

The first line contains an integer, n, denoting the size of the array. The next line contains n space-separated integers denoting the elements of the array.

#### Constraints

 $1 \le n \le 1000$ 

 $1 \leq arr_i \leq 1000$ , where  $arr_i$  is the  $i^{th}$  element of the array.

#### **Output Format**

The output is handled by the code given in the editor, which would print the array.

#### Sample Input 0

16 13 7 2 1 12

#### Sample Output 0

12 1 2 7 13 16

### Explanation 0

Given array, arr = [16, 13, 7, 2, 1, 12]. After reversing the array, arr = [12, 1, 2, 7, 13, 16]

#### Sample Input 1

1 13 15 20 12 13 2

## Sample Output 1

2 13 12 20 15 13 1

## Sample Input 2

15 5 16 15 17 11 5 11

#### Sample Output 2

11 5 11 17 15 16 5 15

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```
K 27 ...
                                                                                                         1
      #include <stdio.h>
      #include <stdlib.h>
  2
  3
      int main() {
  4
  5
           int n;
  6
  7
           // Read the number of elements
  8
           scanf("%d", &n);
  9
 10
           // Dynamically allocate memory for the array
           int *arr = (int*)malloc(n * sizeof(int));
 11
 12
           // Check if memory allocation was successful
 13
           if (arr == NULL) {
 14
 15
               printf("Memory allocation failed\n");
 16
               return 1;
 17
 18
 19
           // Read elements into the array
           for (int i = 0; i < n; i++) {
    scanf("%d", &arr[i]);</pre>
 20
 21
 22
 23
 24
           // Reverse the array
           for (int i = 0; i < n / 2; i++) {
 25
               int temp = arr[i];
 26
               arr[i] = arr[n - i - 1];
 27
 28
               arr[n - i - 1] = temp;
 29
          }
 30
 31
          // Print the reversed array
                                                                                                       Line: 42 Col: 1
                                                                                                Run Code
                                                                                                            Submit Code
Test against custom input
```

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