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Array Reversal ★

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Given an array, of size 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

$1 \leq n \leq 1000$

$1 \leq arr_i \leq 1000$, 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

```
6
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

```
7
1 13 15 20 12 13 2
```

Sample Output 1

```
2 13 12 20 15 13 1
```

Sample Input 2

```
8
15 5 16 15 17 11 5 11
```

Sample Output 2

```
11 5 11 17 15 16 5 15
```



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

Line: 42 Col: 1

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Test against custom input

Run Code

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