

Dash

Articles

Videos

Problems

&lt;&lt; Prev

Next &gt;&gt;

&lt;/&gt; Problem

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## Rotate Array

Difficulty: Medium Accuracy: 37.06% Submissions: 414K+ Points: 4

Given an unsorted array  $arr[]$ . Rotate the array to the left (counter-clockwise direction) by  $d$  steps, where  $d$  is a positive integer. Do the mentioned change in the **array in place**.

Note: Consider the array as circular.

## Examples :

**Input:**  $arr[] = [1, 2, 3, 4, 5]$ ,  $d = 2$

**Output:**  $[3, 4, 5, 1, 2]$

**Explanation:** when rotated by 2 elements, it becomes 3 4 5 1 2.

**Input:**  $arr[] = [2, 4, 6, 8, 10, 12, 14, 16, 18, 20]$ ,  $d = 3$

**Output:**  $[8, 10, 12, 14, 16, 18, 20, 2, 4, 6]$

**Explanation:** when rotated by 3 elements, it becomes 8 10 12 14 16 18 20 2 4 6.

**Input:**  $arr[] = [7, 3, 9, 1]$ ,  $d = 9$

**Output:**  $[3, 9, 1, 7]$

Java (1.8)

Average Time: 20m

Your Time: 13m 31s

```
1 // } Driver Code Ends
41
42
43 // User function Template for Java
44
45 class Solution {
46     static void rotateArr(int arr[], int d) {
47         int n = arr.length;
48         d %= n;
49         reverse(arr, 0, d - 1);
50         reverse(arr, d, n - 1);
51         reverse(arr, 0, n - 1);
52     }
53     private static void reverse(int[] arr, int start, int end) {
54         while (start < end) {
55             int temp = arr[start];
56             arr[start] = arr[end];
57             arr[end] = temp;
58             start++;
59             end--;
60         }
61     }
62 }
63
```



Custom Input

Compile &amp; Run

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