



Arrays: Left Rotation ☆

Your Arrays: Left Rotation submission got 20.00 points.

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Check out the resources on the page's right side to learn more about arrays. The video tutorial is by Gayle Laakmann McDowell, author of the best-selling interview book [Cracking the Coding Interview](#).

A left rotation operation on an array shifts each of the array's elements **1** unit to the left. For example, if **2** left rotations are performed on array **[1, 2, 3, 4, 5]**, then the array would become **[3, 4, 5, 1, 2]**.

Given an array ***a*** of ***n*** integers and a number, ***d***, perform ***d*** left rotations on the array. Return the updated array to be printed as a single line of space-separated integers.

Function Description

Complete the function `rotLeft` in the editor below. It should return the resulting array of integers.

`rotLeft` has the following parameter(s):

- An array of integers ***a***.
- An integer ***d***, the number of rotations.

Input Format

The first line contains two space-separated integers ***n*** and ***d***, the size of ***a*** and the number of left rotations you must perform.

The second line contains ***n*** space-separated integers ***a[i]***.

Constraints

- $1 \leq n \leq 10^5$
- $1 \leq d \leq n$
- $1 \leq a[i] \leq 10^6$

Output Format

Print a single line of ***n*** space-separated integers denoting the final state of the array after performing ***d*** left rotations.

Sample Input



```
5 4
1 2 3 4 5
```

Sample Output

```
5 1 2 3 4
```

Explanation

When we perform $d = 4$ left rotations, the array undergoes the following sequence of changes:

$$[1, 2, 3, 4, 5] \rightarrow [2, 3, 4, 5, 1] \rightarrow [3, 4, 5, 1, 2] \rightarrow [4, 5, 1, 2, 3] \rightarrow [5, 1, 2, 3, 4]$$

Python 3



```
1  #!/bin/python3
2
3  import math
4  import os
5  import random
6  import re
7  import sys
8
9  # Complete the rotLeft function below.
10 def rotLeft(a, d):
11     d=d%len(a)
12     finished_list= a[d:]+a[0:d]
13
14     return finished_list
15
16
17 if __name__ == '__main__':
18     fptr = open(os.environ['OUTPUT_PATH'], 'w')
19
20     nd = input().split()
21
22     n = int(nd[0])
23
24     d = int(nd[1])
25
26     a = list(map(int, input().rstrip().split()))
27
28     result = rotLeft(a, d)
29
30     fptr.write(' '.join(map(str, result)))
31     fptr.write('\n')
32
33     fptr.close()
34
```



Line: 14 Col: 25

[Upload Code as File](#)

Test against custom input

Run Code

Submit Code

Congratulations!

You have passed the sample test cases. Click the submit button to run your code against all the test cases.

Sample Test case 0 ✓**Sample Test case 1** ✓**Sample Test case 2** ✓

Input (stdin)

[Download](#)

```
5 4
1 2 3 4 5
```

Your Output (stdout)

```
5 1 2 3 4
```

Expected Output

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```
5 1 2 3 4
```

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