Problem

Submissions

Leaderboard

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

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

Input (stdin) Download

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

Your Output (stdout)

```
1 2 3 4 1
```

Expected Output Download

```
1 2 3 4 1
```

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Problem

Submissions

Leaderboard

Given a 6×6 2D array, arr, an hourglass is a subset of values with indices falling in the following pattern:

```
a b c
  d
e f g
```

There are 16 hourglasses in a 6×6 array. The $hourglass\ sum$ is the sum of the values in an hourglass. Calculate the hourglass sum for every hourglass in arr, then print the $maximum$ hourglass sum.

Example

$arr =$

```
-9 -9 -9  1 1 1
 0 -9  0  4 3 2
-9 -9 -9  1 2 3
 0  0  8  6 6 0
 0  0  0 -2 0 0
 0  0  1  2 4 0
```

The 16 hourglass sums are:

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- Sample Test case 0
- Sample Test case 1
- Sample Test case 2

Input (stdin) — Download

```
1 1 1 0 0 0
0 1 0 0 0 0
1 1 1 0 0 0
0 0 2 4 4 0
0 0 0 2 0 0
0 0 1 2 4 0
```

Your Output (stdout)

```
19
```

Expected Output — Download

```
19
```

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- Declare a 2-dimensional array, arr, with n empty arrays, all zero-indexed.
- Declare an integer, $lastAnswer$, and initialize it to 0.

You need to process two types of queries:

1. Query: $1\ x\ y$
   - Compute $idx = (x \oplus lastAnswer)$.
   - Append the integer y to $arr[idx]$.
2. Query: $2\ x\ y$
   - Compute $idx = (x \oplus lastAnswer)$.
   - Set $lastAnswer = arr[idx][y\%size(arr[idx])]$.
   - Store the new value of $lastAnswer$ in an answers array.

Notes:

- $\oplus$ is the bitwise XOR operation, which corresponds to the ^ operator in most languages. Learn more about it on Wikipedia.
- $\%$ is the modulo operator.
- Finally, $size(arr[idx])$ is the number of elements in $arr[idx]$.

Function Description

Complete the $dynamicArray$ function with the following parameters:

- $int\ n$: the number of empty arrays to initialize in arr
- $int\ queries[q][3]$: 2-D array of integers

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

Input (stdin) Download

```
2 5
1 0 5
1 1 7
1 0 3
2 1 0
2 1 1
```

Your Output (stdout)

```
7
3
```

Expected Output Download

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A *left rotation* operation on a circular array shifts each of the array's elements 1 unit to the left. The elements that fall off the left end reappear at the right end. Given an integer d, rotate the array that many steps to the left and return the result.

Example

$d = 2$

$arr = [1, 2, 3, 4, 5]$

After 2 rotations, $arr' = [3, 4, 5, 1, 2]$.

Function Description

Complete the $rotateLeft$ function with the following parameters:

- $int\ d$: the amount to rotate by
- $int\ arr[n]$: the array to rotate

Returns

- $int[n]$: the rotated array

Input Format

The first line contains two space-separated integers that denote n, the number of integers, and d, the number of left rotations to perform.

The second line contains n space-separated integers that describe $arr[]$.

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

Input (stdin) Download

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

Your Output (stdout)

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

Expected Output Download

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

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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.

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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
```

```
30  *
31  * For example,
```

Line: 222 Col: 1

Upload Code as File | Test against custom input | Run Code | Submit Code

Congratulations!

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Sample Test case 0

Input (stdin) Download

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

Your Output (stdout)

```
1  2 3 4 1
```

Expected Output Download

```
1  2 3 4 1
```

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