

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

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)

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

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Your Output (stdout)

```
1 2 3 4 1
```

Expected Output

```
1 2 3 4 1
```

Download

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
```

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Sample Test case 0

Input (stdin)

1	1 1 1 0 0 0
2	0 1 0 0 0 0
3	1 1 1 0 0 0
4	0 0 2 4 4 0
5	0 0 0 2 0 0
6	0 0 1 2 4 0

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Sample Test case 1

Your Output (stdout)

1	19
---	----

Sample Test case 2

- 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

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Sample Test case 0

Input (stdin)

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1	2 5
2	1 0 5
3	1 1 7
4	1 0 3
5	2 1 0
6	2 1 1

Your Output (stdout)

1	7
2	3

This challenge is part of a [MyCodeSchool](#) tutorial track and is accompanied by a [video lesson](#).

This exercise focuses on traversing a linked list. You are given a pointer to the **head** node of a linked list. The task is to print the **data** of each node, one per line. If the head pointer is **null**, indicating the list is empty, nothing should be printed.

Function Description

Complete the **printLinkedList** function with the following parameter(s):

- **SinglyLinkedListNode head**: a reference to the head of the list

Print

- For each node, print its **data** value on a new line (console.log in Javascript).

Input Format

The first line of input contains **n**, the number of elements in the linked list.

Sample Test case 0

Input (stdin)

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Sample Test case 1

1	2
2	16
3	13

Your Output (stdout)

1	16
2	13

Expected Output

[Download](#)

1	16
2	13

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Complete the function `reverseArray` with the following parameter(s):

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Sample Test case 0

Input (stdin)

1	4
2	1 4 3 2

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Your Output (stdout)

1	2 3 4 1
---	---------

Expected Output

1	2 3 4 1
---	---------

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