Question **1**

Correct

Marked out of 1.00

Flag question

Given an array of integers, reverse the given array in place using an index and loop rather than a built-in function.

Example

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

Return the array *[5, 4, 2, 3, 1]* which is the reverse of the input array.

Function Description

Complete the function *reverseArray* in the editor below.

reverseArray has the following parameter(s):

int arr[n]: an array of integers

Return

int[n]: the array in reverse order

Constraints

$1 \le n \le 100$

$0 < arr[i] \le 100$

Input Format For Custom Testing

The first line contains an integer, *n*, the number of elements in *arr*.

Each line *i* of the *n* subsequent lines (where $0 \le i < n$) contains an integer, *arr[i]*.

Each line *i* of the *n* subsequent lines (where *0 ≤ i < n*) contains an integer, *arr[i]*.

Sample Case 0

Sample Input For Custom Testing

5

1

3

2

4

5

Sample Output

5

4

2

3

1

Explanation

The input array is [1, 3, 2, 4, 5], so the reverse of the input array is [5, 4, 2, 3, 1].

Sample Case 1

Sample Input For Custom Testing

4

17

10

```
/*
 * Complete the 'reverseArray
 *
 * The function is expected t
 * The function accepts INTEG
 */

/*
 * To return the integer arra
 *     - Store the size of th
 *     - Allocate the array s
 *
 * For example,
 * int* return_integer_array_
 *     *result_count = 5;
 *
 *     static int a[5] = {1,
 *
 *     return a;
 * }
 *
 * int* return_integer_array_
 *     *result_count = 5;
 *
 *     int *a = malloc(5 * si
 *
 *     for (int i = 0; i < 5;
 *         *(a + i) = i + 1;
 *     }
 *
 *     return a;
 * }
 *
 */
int* reverseArray(int arr_cou
    *result_count = arr_count
    static int rev[100];
    int i,j=0;
    for(i=arr_count-1;i>=0;i-
        rev[j++]=arr[i];}
        return rev;
```

```
24
25  = malloc(5 * sizeof(int));
26
27 int i = 0; i < 5; i++) {
28 (a + i) = i + 1;
29
30
31  a;
32
33
34
35 Array(int arr_count, int *arr
36 count = arr_count;
37 nt rev[100];
38 );
39 _count-1;i>=0;i--){
40 ++]=arr[i];}
41 rn rev;
42
43
44
45
```

	Test

✓	`int arr[] = {1, 3, 2, 4, 5};`
	`int result_count;`
	`int* result = reverseArray(5,`
	`for (int i = 0; i < result_cou`
	`printf("%d\n", *(resul`

Passed all tests! ✓

Question 2

```
24
25 (int));
26
27 ) {
28
29
30
31
32
33
34
35 int *arr, int *result_count)
36
37
38
39
40
41
42
43
44
45
```

	Expected	Got	
&result_count); i++) i));	5 4 2 3 1	5 4 2 3 1	✓

Passed all tests! ✓

Question 2

Question **2**

Correct

Marked out of 1.00

Flag question

An automated cutting machine is used to cut rods into segments. The cutting machine can only hold a rod of *minLength* or more, and it can only make one cut at a time. Given the array *lengths[]* representing the desired lengths of each segment, determine if it is possible to make the necessary cuts using this machine. The rod is marked into lengths already, in the order given.

Example

n = 3

lengths = [4, 3, 2]

minLength = 7

The rod is initially *sum(lengths) = 4 + 3 + 2 = 9* units long. First cut off the segment of length *4 + 3 = 7* leaving a rod *9 - 7 = 2*. Then check that the length *7* rod can be cut into

length of the first cut, the remaining piece will be shorter than *minLength*. Because *n - 1 = 2* cuts cannot be made, the answer is *"Impossible"*.

Function Description

Complete the function *cutThemAll* in the editor below.

cutThemAll has the following parameter(s):

int lengths[n]: the lengths of the segments, in order

int minLength: the minimum length the machine can accept

Returns

string: *"Possible"* if all *n-1* cuts can be made. Otherwise, return the string *"Impossible"*.

Constraints

- $2 \le n \le 10^5$
- $1 \le t \le 10^9$
- $1 \le lengths[i] \le 10^9$
- *The sum of the elements of lengths equals the uncut rod length.*

Reset answer

```
/*
* Complete the 'cutThemAll'
*
* The function is expected t
* The function accepts follo
*  1. LONG_INTEGER_ARRAY len
*  2. LONG_INTEGER minLength
*/


/*
* To return the string from
*
* For example,
* char* return_string_using_
*     static char s[] = "sta
*
*     return s;
* }
*
* char* return_string_using_
*     char* s = malloc(100 *
*
*     s = "dynamic allocatio
*
*     return s;
* }
*
*/
char* cutThemAll(int lengths_
    int s=0;
    for(int i=0;i<lengths_cou
        s+=*(lengths+i);
    }
    if(s>=minLength){
        return "Possible";

    }else{
        return "Impossible";
    }
```

```
21  ar));
22
23  g";
24
25
26
27
28
29  g *lengths, long minLength)
30
31
32
33
34
35
36
37
38
39
40
41
42
43
```

	Test
✓	long lengths[] = {3, 5, 4, 3}; printf("%s", cutThemAll(4, len
✓	long lengths[] = {5, 6, 2}; printf("%s", cutThemAll(3, len

Passed all tests! ✓