rted Wednesday, 15 January 2025, 9:45 AM		
weted Wednesday, 15 January 2025, 9:54 AM		
tion 8 mins 50 secs		
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		

Status Finished

 $1 \le n \le 100$ $0 < arr[i] \le 100$ **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]. Sample Case 0 **Sample Input For Custom Testing** 5 3 2 4 5 **Sample Output** 5 4 3 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 21 45 Sample Output 45 21 10 17 Explanation The input array is [17, 10, 21, 45], so the reverse of the input array is [45, 21, 10, 17]. Answer: (penalty regime: 0 %)

Reset answer

```
1 v
       Complete the 'reverseArray' function below.
 2
 3
     * The function is expected to return an INTEGER ARRAY.
 4
     * The function accepts INTEGER ARRAY arr as parameter.
 5
 6
 8
     * To return the integer array from the function, you should:
           - Store the size of the array to be returned in the result count variable
10
11
           - Allocate the array statically or dynamically
12
     * For example,
13
     * int* return integer array using static allocation(int* result count) {
14
15
           *result count = 5:
16
           static int a[5] = \{1, 2, 3, 4, 5\};
17
18
19
           return a:
20
21
22
     * int* return integer array using dynamic allocation(int* result count) {
           *result count = 5;
23
24
25
           int *a = malloc(5 * sizeof(int));
26
27 v
           for (int i = 0; i < 5; i++) {
               *(a + i) = i + 1;
28
29
30
31
           return a:
32
33
```

```
34
    int* reverseArray(int arr_count, int *arr, int *result_count)
35
36 ₹ {
37
        *result_count = arr_count;
        static int rev[100];
38
        int i,j=0;
39
        for(i=arr_count-1;i>=0;i--)
40
        rev[j++] = arr[i];
41
42
        return rev;
43
44
```

	Test	Expected	Got	
~	int arr[] = {1, 3, 2, 4, 5};	5	5	~
	int result_count;	4	4	
	<pre>int* result = reverseArray(5, arr, &result_count);</pre>	2	2	
	for (int i = 0; i < result_count; i++)	3	3	
	<pre>printf("%d\n", *(result + i));</pre>	1	1	

Passed all tests! 🗸

Correct
Marked out of 1.00
Flag question

n = 3

lengths = [4, 3, 2]

minLength = 7, the final cut can be made. Return "Possible".

minLenath = 7

Example

lengths = [4, 2, 3]

minLength = 7

n = 3

Ouestion 2

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

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 segments of lengths 4 and 3. Since 7 is greater than or equal to

The rod is initially sum(lengths) = 4 + 2 + 3 = 9 units long. In this case, the initial cut can be of length 4 or 4 + 2 = 6. Regardless of the 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.

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

int minLength: the minimum length the machine can accept

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

Returns

- $2 \le n \le 10^5$ $1 \le t \le 10^9$
- 1 < lenaths[i] < 10⁹

The sum of the elements of lengths equals the uncut rod length.

Input Format For Custom Testing

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

The next line contains an integer, minLength, the minimum length accepted by the machine.

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

Sample Case 0

Sample Input For Custom Testing

STDIN Function

STORY TORK

5

- 4 → lengths[] size n = 4
- 3 → lengths[] = [3, 5, 4, 3]

3

→ minLength= 9

```
Sample Output

Impossible

Explanation

The uncut rod is 5 + 6 + 2 = 13 units long. After making either cut, the rod will be too short to make the second cut.
```

Answer: (penalty regime: 0 %)

* Complete the 'cutThemAll' function below.

* The function is expected to return a STRING.

* The function accepts following parameters:

* 1. LONG_INTEGER_ARRAY lengths

* 2. LONG_INTEGER minLength

Reset answer

1 . /*

2

4

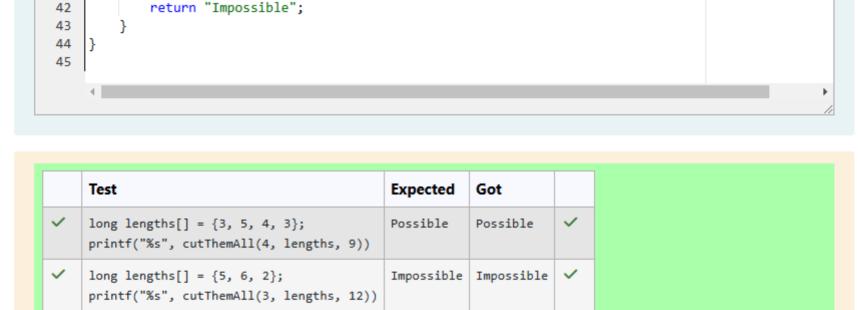
6

12 → minLength= 12

6

2

```
9
10
11
     * To return the string from the function, you should either do static allocation or dynamic allo
12
13
     * For example.
14
     * char* return string using static allocation() {
15
           static char s[] = "static allocation of string";
16
17
           return s:
18
19
     * char* return string using dynamic allocation() {
20
           char* s = malloc(100 * sizeof(char));
21
22
           s = "dynamic allocation of string";
23
24
25
           return s;
26
27
28
29
    char* cutThemAll(int lengths count, long *lengths, long minLength)
30
31
        int s=0;
        for(int i = 0;i < lengths count-1; i++)</pre>
32
33 4
34
            s += *(lengths+i);
35
36
        if(s >= minLength)
37 (
            return "Possible";
38
39
40
        else
41 ,
```



Passed all tests! ✓

41 •