**Duration** 9 mins 3 secs

Question 1 Correct Marked out of

1.00

P Flag question

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

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 ≤ n ≤ 100

O < arr[i] ≤ 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

1

3

```
tor (int 1 = 0; 1 < 5; 1++) {
28
                    *(a + i) = i + 1;
29
30
31
               return a;
32
33
      */
34
35 •
     int* reverseArray(int arr_count, int *arr, int *result_count) {
     fresult_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;
37
38
39
40
41
42
     }
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, &amp;result_count);</pre>	2	2	
	for (int i = 0; i < result_count; i++)	3	3	
	printf("%d\n", *(result + i));	1	1	

Passed all tests! <

ion 7

Question **2**Correct
Marked out of 1.00

F 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 segments of lengths 4 and 3. Since 7 is greater than or equal to minlength = 7, the final cut can be made. Return "Possible".

### Example

n = 3

lengths = [4, 2, 3]

minLength = 7

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

```
s = "dynamic allocation of string";
23
24
25
             return s;
26
27
28
29 - char' cutThemAll(int lengths_count, long 'lengths, long minLength) {
         int nv=0;
for(int i=0;i<lengths_count-1;i++){
    nv+=*(lengths+i);</pre>
30
31
32
33
         )
if(nv>=minLength){
   return "Possible";
34 •
35
          }
else
36
37
38 •
          return "Impossible";
39
40
41
42 }
```

	Test	Expected	Got	
~	long lengths[] = {3, 5, 4, 3}; printf("%s", cutThemAll(4, lengths, 9))	Possible	Possible	~
~	long lengths[] = {5, 6, 2}; printf("%s", cutThemAll(3, lengths, 12))	Impossible	Impossible	~