```
Question 1
Correct
Marked out of 1.00
Friag 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
```

 $0 < arr[i] \le 100$

```
# include <stdio.h>
35
36
     #include <stdlib.h>
37
38
    int* reverseArray(int arr_count, int *arr, int *result_count) {
        *result_count = arr_count;
39
        int *reversedArr = (int*)malloc(arr_count*sizeof(int));
40
41
        if(reversedArr == NULL)
42
            printf("Memory allocation failed\n");
43
44
            return NULL;
45
46
        for(int i=0;i<arr_count;i++)</pre>
47
            reversedArr[i] =arr[arr_count-i-1];
48
49
50
        return reversedArr;
51
52
```

Passed all tests! <

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 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 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.

```
29 | #include <stdio.h>
 30
 31
      char* cutThemAll(int lengths_count, long *lengths, long minLength)
 32 ▼ {
 33
         long t= 0,i=1;
         for(int i=0;i<lengths_count-1;i++)</pre>
 34
 35 ▼
               t=t+lengths[i];
 36
 37
           do
 38
 39 🔻
 40
               if(t-lengths[lengths_count-1]<minLength)</pre>
 41 •
                   return "Impossible";
 42
 43
 44
 45
          while(i<lengths_count-i);
   return "Possible";</pre>
 46
 47
 48
 49
```

	Test	Expected	Got	
~	<pre>long lengths[] = {3, 5, 4, 3}; printf("%s", cutThemAll(4, lengths, 9))</pre>	Possible	Possible	~
~	<pre>long lengths[] = {5, 6, 2}; printf("%s", cutThemAll(3, lengths, 12))</pre>		Impossible	~
Passed all tests! ✓				