```
Duration I hour to mins
Question 1
                    Given an array of integers, reverse the given array in place using an index and loop rather than a built-in function.
Correct
                     Example
Marked out of
                     arr = [1, 3, 2, 4, 5]
1.00
                     Return the array [5, 4, 2, 3, 1] which is the reverse of the input array.
P Flag
question
                     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
                      0 < 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
                       5
```

Sample Case 0 Sample Input For Custom Testing 5 Sample Output 5 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

```
33
34
  int* reverseArray(int arr_count, int *arr, int *result_count) {
36
        *result_count=arr_count;
37
       int *reversed=malloc(arr_count * sizeof(int));
38
        for(int i=0;i<arr_count;i++) {
39
            reversed[i]=arr[arr_count-1-i];
40
41
        return reversed;
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, &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! <

Question 2 Correct

Marked out of 1.00

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

$$n = 3$$

$$minLength = 7$$

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".

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.

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≤n≤105
- . 1 st s 109
- 1 ≤ lengths[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.

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

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

Sample Case 0

Sample Input For Custom Testing

STDIN Function

```
4 → lengths[] size n = 4
```

$$3 \rightarrow lengths[] = [3, 5, 4, 3]$$

5

4

3

9 → minLength= 9

Sample Output

Possible

Reset answer

```
1 #include<string.h>
   #include<stdlib.h>
3 - char* cutThemAll(int lengths_count, long *lengths, long minLength) {
       int cuttableCount=0:
        for(int i=0;i<=lengths_count;i++) {</pre>
5 .
            if(lengths[i] <= minLength) {
6 .
                cuttableCount++;
8
9
10
11
        char *result=malloc(50 * sizeof(char));
12 .
        if(cuttableCount = lengths_count) {
            strcpy(result, "Impossible");
13
14 .
        }else if(cuttableCount!=lengths_count) {
            strcpy(result, "Possible");
15
16
17
        return result;
18
19
20
```

	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	Impossible	~

Passed all tests! <