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]
F Flag question	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 s n s 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
	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

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

17

10

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 %)

```
37
          int* rev=(int*)malloc(n*sizeof(int));
38
          for(int i=0;i<n;i++){
39
              rev[i]=arr[n-i-1];
40
41
           }return rev:
42
43
    Test
                                                  Expected Got
```

35 - int* reverseArray(int n, int *arr, int *r) {

36

Example

n = 3lengths = [4, 2, 3]minLength = 7

```
int arr[] = {1, 3, 2, 4, 5};
                                                                      V
      int result_count;
     int* result = reverseArray(5, arr, &result_count); 2
                                                                2
     for (int i = 0; i < result_count; i++)
                                                                3
             printf("%d\n", *(result + i));
Passed all tests! <
```

```
Question 2
Correct
Marked out of
1.00
F Flag question
                     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".
```

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.

n = 3lengths = [4, 2, 3]minLength = 7The 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

Example

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 $1 \le lengths[i] \le 10^9$ 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 → lengths[] = [3, 5, 4, 3] → minLength= 9 Sample Output Possible Explanation The uncut rod is 3 + 5 + 4 + 3 = 15 units long. Cut the rod into lengths of 3 + 5 + 4 = 12 and 3. Then cut the 12 unit piece into lengths 3 and 5 + 4 = 9. The remaining segment is 5 + 4 = 9 units and that is long enough to make the final cut. Sample Case 1 Sample Input For Custom Testing STDIN Function -----3 → lengths[] size n = 3 5 → lengths[] = [5, 6, 2]

12 → minLength= 12

Sample Output

```
return s;
26
     = }
27
28
29 +
30
31 +
    char* cutThemAll(int 1, long *len, long minLength) {
             long t=0;
             for(int i=0;i<1;i++){
32
                 t+=len[i];
33
34
35
              long c=0;
36
              for(int i=0;i<1-1;i++){
37
                  c+=len[i];
38
                  long r =t-c;
39 -
                  if(r > minLength){
40
                      return "Possible";
41
42
43
44
              return "Impossible";
45
46
47
48
```

	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	~