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 Marked out of arr = [1, 3, 2, 4, 5] 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 s n s 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 2 4 5 Sample Output Sample Output

5

4

2

3

Sample Input For Custom Testing

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

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

```
35
    int* reverseArray(int arr_count, int *arr, int *result_count) {
        "result_count=arr_count;
37
        int *reversed=(int *)malloc(arr_count * sizeof(int));
38
        if(reversed==NULL)
39
48
            exit(1);
41
        for(int i=0;i<arr_count;i++)</pre>
42
43
44
            reversed[i]=arr[arr_count-1-i];
45
46
        return reversed;
47
48
49
```

```
Test
                                                           Expected Got
                                                           5
      int arr[] = {1, 3, 2, 4, 5};
                                                                     5
      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));
                                                           1
                                                                     1
Passed all tests! <
```

Ouestion 2 Marked out of 1.00

P Flag question

Example

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.

Example

n = 3lengths = [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.

The rod is marked into lengths already, in the order given.

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 s n s 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 - lengths[] = [3, 5, 4, 3]

.

Δ

3

9 - 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]
    6
    2
    12 → minLength= 12
```

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 %)

Reset answer

```
29 + char* cutThemAll(int lengths_count, long *lengths, long minLength) {
38
        long totalLength=0;
31
        for (int i=0;i<lengths_count;i++)
32
33
            totalLength+=lengths[i];
34
35
        long currentLength=0;
        for(int i=0;i<lengths_count-1;i++)</pre>
36
37 •
38
            currentLength+=lengths[i];
39
            long remainingLength=totalLength-currentLength;
48
            if(remainingLength>minLength)
41 .
42
                return "Possible";
43
            }
44
45
        return "Impossible";
46
47
48
```

```
Test Expected Got

Iong lengths[] = {3, 5, 4, 3};

printf("%s", cutThemAll(4, lengths, 9))

long lengths[] = {5, 6, 2};

printf("%s", cutThemAll(3, lengths, 12))

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Passed all tests! <