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Correct

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Status Finished
           Started Thursday, 16 January 2025, 3:36 PM
       Completed Thursday, 16 January 2025, 3:42 PM
Duration 6 mins 21 secs
Question 1
                    Given an array of integers, reverse the given array in
                    place using an index and loop rather than a built-in function.
Marked out of
                    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
                    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 \le n)
                    contains an integer, arr[i].
                    Sample Case 0
                    Sample Input For Custom Testing
                    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
                    Sample Output
                    21
                    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
```

```
1 '/* Complete the 'reverseArray' function b
3 * The function is expected to return an
5 * The function accepts INTEGER_ARRAY arr
6 */
35 • ir
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```

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

The rod is initially sum/dengths a+3+2=9 units long. First out off the segment of length 4+3=7 leaving a rod 9-7=2. Then check that the length 7 rod can be calculated into segments of lengths 4 and 3. Since 7 is greater than or equal to mink lengths 4 and 3. Since 7 is greater than or equal to mink length a+3 the final cut can be made. Return "Possoble".

Example

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

The rod is initially sam(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 m kinegrib. Because n - 1 = 2 cuts cannot be made, the answer is "Impossible".

cutThemAll has the following parameter(s): int kengths(n): the lengths of the segments, in order int minLength: the minimum length the machine can accept

string: "Possible" if all n=1 cuts can be made. Otherwise, return the string "Impossible".

Constraints

 $2 \le n \le 10^6$ $1 \le t \le 10^9$ $1 \le lengths(i) \le 10^9$ The sum of the elements of lengths equals the uncut rol length.

Input Format For Custom Testing

The first line contains an integer, α the number of elements in $\mathit{lengths}$.

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

```
STDIN Function
9 → minLength= 9
```

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 plece 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]
2
12 → minLength= 12
```

Sample Output

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.