Question 1 Given an array of integers, reverse the given array in place Correct using an index and loop rather than a built-in function. Marked out of Example 1.00 arr = [1, 3, 2, 4, 5] P Flag Return the array [5, 4, 2, 3, 1] which is the reverse of the input question 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 $1 \le n \le 100$ $0 < arr[i] \le 100$ Input Format For Custom Testing The first line contains an integer, n, the number of elements 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 1 3 2 4 5 Sample Output 5 4 2 3 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 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 * Complete the 'reverseArray' function b 2 3 * The function is expected to return an 4 * The function accepts INTEGER_ARRAY arr 5 6 7 8 + * To return the integer array from the f 9 - Store the size of the array to b 10 - Allocate the array statically or 11 12 * For example, 13 * int* return_integer_array_using_static 14 + *result_count = 5; 15 16 static int $a[5] = \{1, 2, 3, 4, 5\};$ 17 18 return a; 19 * } 20 * 21 * int* return_integer_array_using_dynami 22 + *result_count = 5; 23 24 int *a = malloc(5 * sizeof(int)); 25 26 for (int i = 0; i < 5; i++) { 27 + *(a + i) = i + 1;28 29 30 31 return a; * } 32 33 34 */ 35 int* reverseArray(int arr_count, int *arr *result_count=arr_count; 36 37 for (int i=0;i<arr_count/2;i++) 38 + {

int temp=arr[i];

return arr;

arr[i]=arr[arr_count-i-1];
arr[arr_count-i-1]=temp;

39

40

41 42 43

44 45

Question 2 Correct Marked out of 1.00 P 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.
	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 ≤ 10^5 1 ≤ t ≤ 10^9 1 ≤ lengths[i] ≤ 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, <i>minLength</i> , the minimum length accepted by the machine.
	Sample Case 0 Sample Input For Custom Testing

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STDIN Function
4 → lengths[] size n = 4
    → lengths[] = [3, 5, 4, 3]
3
5
4
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 \rightarrow 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.
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Answer: (penalty regime: 0 %)
 Reset answer
   1 +
       * Complete the 'cutThemAll' function bel
   2
   3
       * The function is expected to return a S
   4
       * The function accepts following paramet
   5

    LONG_INTEGER_ARRAY lengths

   6
   7
          2. LONG_INTEGER minLength
       */
   8
   9
  10 + /*
  11
       * To return the string from the function
  12
       * For example,
  13
  14 * char* return_string_using_static_alloc
              static char s[] = "static allocati
  15
  16
  17
             return s;
       * }
  18
  19
  20 * char* return_string_using_dynamic_alld
  21
             char* s = malloc(100 * sizeof(char
  22
  23
              s = "dynamic allocation of string"
  24
  25
             return s;
       * }
  26
  27
       */
  28
  29 - char* cutThemAll(int lengths_count, long
  30
           long t=0, i=1;
  31
           for(int i=0;i<=lengths_count-1;i++)</pre>
  32 +
           {
  33
               t+=lengths[i];
  34
           }
  35
           do
  36 +
           {
  37
               if(t-lengths[lengths_count-i-1]<m
  38 +
               {
                   return "Impossible";
  39
  40
               }
  41
               i++;
  42
           }while (i<lengths_count-1);</pre>
  43
           return "Possible";
  44
  45
                                             ...
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	Test	E
~	<pre>long lengths[] = {3, 5, 4, 3}; printf("%s", cutThemAll(4, lengths, 9))</pre>	Pc
~	<pre>long lengths[] = {5, 6, 2}; printf("%s", cutThemAll(3, lengths, 12))</pre>	In