

```

1  /*
2  * Complete the 'reverseArray' function below.
3  *
4  * The function is expected to return an INTEGER_ARRAY.
5  * The function accepts INTEGER_ARRAY arr as parameter.
6  */
7
8  /*
9  * To return the integer array from the function, you should:
10 *   - Store the size of the array to be returned in the result_count variable
11 *   - Allocate the array statically or dynamically
12 *
13 * For example,
14 * int* return_integer_array_using_static_allocation(int* result_count) {
15 *     *result_count = 5;
16 *
17 *     static int a[5] = {1, 2, 3, 4, 5};
18 *
19 *     return a;
20 * }
21 *
22 * int* return_integer_array_using_dynamic_allocation(int* result_count) {
23 *     *result_count = 5;
24 *
25 *     int *a = malloc(5 * sizeof(int));
26 *
27 *     for (int i = 0; i < 5; i++) {
28 *         *(a + i) = i + 1;
29 *     }
30 *
31 *     return a;
32 * }
33 *
34 */
35 #include<stdio.h>
36 #include<stdlib.h>
37 int* reverseArray(int arr_count, int *arr, int *result_count) {
38     int* result = (int*)malloc(arr_count * sizeof(int));
39
40     if(result == NULL){
41         return NULL;
42     }
43     for(int i = 0; i < arr_count; i++){
44         result[i] = arr[arr_count - i - 1];
45     }
46     *result_count = arr_count;
47     return result;
48 }
49

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

Passed all tests! ✓

```

1  */
2  * Complete the 'cutThemAll' function below.
3  *
4  * The function is expected to return a STRING.
5  * The function accepts following parameters:
6  * 1. LONG_INTEGER_ARRAY lengths
7  * 2. LONG_INTEGER minLength
8  */
9
10 */
11 * To return the string from the function, you should either do static allocation or dynamic allocation
12 *
13 * For example,
14 * char* return_string_using_static_allocation() {
15 *     static char s[] = "static allocation of string";
16 *
17 *     return s;
18 * }
19 *
20 * char* return_string_using_dynamic_allocation() {
21 *     char* s = malloc(100 * sizeof(char));
22 *
23 *     s = "dynamic allocation of string";
24 *
25 *     return s;
26 * }
27 *
28 */
29 #include<stdio.h>
30 char* cutThemAll(int lengths_count, long *lengths, long minLength) {
31     long t = 0, i = 1;
32     for (int i = 0; i <= lengths_count - 1; i++){
33         t += lengths[i];
34     }
35     do{
36         if(t - lengths[lengths_count - 1] < minLength){
37             return "Impossible";
38         }
39         i++;
40     }
41     while(i < lengths_count - i);
42     return "Possible";
43 }
44

```

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	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! ✓