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Started
                      Monday, 13 January 2025, 9:06 PM
        Completed
                      Monday, 13 January 2025, 9:16 PM
           Duration 10 mins 8 secs
Question 1
Correct
                     Example
Marked out of
                     arr = [1, 3, 2, 4, 5]
1.00
                     Return the array [5, 4, 2, 3, 1] which is the reverse of the input array.
F Flag question
                     Function Description
                     Complete the function reverseArray in the editor below.
                     reverseArray has the following parameter(s):
                     int arrin): an array of integers
                     Return
                     int[n]: the array in reverse order
                     Constraints
                     1 \le n \le 100
                     0 < arr[\vec{y} \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].

Status Finished

Given an array of integers, reverse the given array in place using an index and loop rather than a built-in function.

```
1 . /*
       Complete the 'reverseArray' function below.
 2
 3
 4
     * The function is expected to return an INTEGER ARRAY.
     * The function accepts INTEGER ARRAY arr as parameter.
 5
6
     */
 7
 8
     * To return the integer array from the function, you should:
9
           - Store the size of the array to be returned in the result_count variable
10
           - Allocate the array statically or dynamically
11
12
13
     * For example,
     * int* return integer array using static allocation(int* result count) {
14 .
15
           *result count - 5;
16
           static int a[5] = {1, 2, 3, 4, 5};
17
18
19
           return a:
20
21
     * int* return integer array using dynamic allocation(int* result count) {
22 .
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

```
tor (int 1 = 0; 1 ( 5; 1++) {
28
               (a + i) = i + 1;
29
30
31
           return a;
32
33
34
    int* reverseArray(int arr_count, int *arr, int *result_count) {
        *result_count -arr_count;
36
37
        static int rev[150];
38
        int m, n=0;
        for(m-arr_count-1;m>-0;m--)
39
        rev[n++]-arr[m];
48
41
        return rev;
42
43
```

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

Passed all tests! 🗸

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

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

Reset answer 1.1/* 3 4 5

32 .

```
* Complete the 'cutThemAll' function below.
     * The function is expected to return a STRING.
     . The function accepts following parameters:
     * 1. LONG INTEGER ARRAY lengths
 7
     * 2. LONG INTEGER minLength
     +1
8
9
10 .
11
     * To return the string from the function, you should either do static allocation or dynamic alloc
12
     * For example.
13
14 .
     * char* return string using static allocation() {
15
           static char s[] = "static allocation of string":
16
17
           return s;
     + \
18
19
     * char* return string using dynamic allocation() (
20 .
           char* s = malloc(100 * sizeof(char));
21
22
23
           5 = "dynamic allocation of string";
24
25
     *
           return s:
     + 3
26
27
28
29 - char* cutThemAll(int lengths_count, long *lengths, long minLength) {
        int 1-0:
38
31
        for(int i=0;i<lengths count-1;i++)
```

```
41
28
     */
29 •
   char* cutThemAll(int lengths count, long *lengths, long minLength) {
        int 1-0;
30
        for(int i=0;i<lengths_count-1;i++)
31
32 -
33
            1 +-*(lengths+i);
34
        if(1>= minLength)
35
36 +
            return "Possible":
37
38
        else
39
48 .
            return "Impossible";
41
42
43
44
45
```

	Test	Expected	Got	
~	long lengths[] = {3, 5, 4, 3}; printf("%s", cutThemAll(4, lengths, 9))	Possible	Possible	~
~	<pre>long lengths[] = {5, 6, 2}; printf("%s", cutThemAll(3, lengths, 12))</pre>	Impossible	Impossible	~