WEEK 15

Question **1**Correct
Marked out of 1.00

Flag question

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

Example

```
arr = [1, 3, 2, 4, 5]
```

Return the array [5, 4, 2, 3, 1] which is the reverse of the input array.

```
35 | int* reverseArray(int arr_count, int *arr, int *result_count) {
36
        *result_count=arr_count;
         int start=0;
37
38
         int last=arr_count-1;
         while(start<last){</pre>
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             int temp=arr[start];
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             arr[start]=arr[last];
             arr[last]=temp;
42
43
             start++;
44
            last--;
        }
45
46
        return arr;
47
    }
48
```

	Test	Expected	Got	
~	int arr[] = {1, 3, 2, 4, 5};	5	5	~
	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

F 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".

```
29
    char* cutThemAll(int lengths_count, long *lengths, long minLength) {
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32 🔻
         for(int i=0;i<lengths_count-1;i++){</pre>
33 1
             for(int j=i+1;j<lengths_count;j++){</pre>
34
                 if(lengths[i]+lengths[j]==minLength){
35
                      return "Possible";
36
37
             }
38
39
         return "Impossible";
40
    }
41
```

	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! <