WEEK 15

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

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].

Program:

```
## Static int a[5] = {1, 2, 3, 4, 5};

* static int a[5] = {1, 2, 3, 4, 5};

* return a;

20 *}

21 * result_count = 5;

22 * int* return_integer_array_using_dynamic_allocation(int* result_count) {

23 * result_count = 5;

24 * int * a = malloc(5 * sizeof(int));

26 * for (int i = 0; i < 5; i++) {

28 * (a + i) = i + 1;

29 * }

30 *

31 * return a;

32 *}

33 *

44 *

45 int* reverseArray(int arr_count, int *arr, int *result_count) {

* result_count = arr_count;

for(int i = 0; i < 5; i++) {

38 * int* reverseArray(int arr_count, int *arr, int *result_count) {

* result_count = arr_count;

for(int i = 0; i < not int *arr, int *result_count) {

* arr | arr |
```

Output:

2. 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. . 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

Program:

```
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** **

** To return the string from the function, you should either do static allocation or dynatic and static allocation or dynatic and static allocation of string and static allocation of string are str
```

Output:

