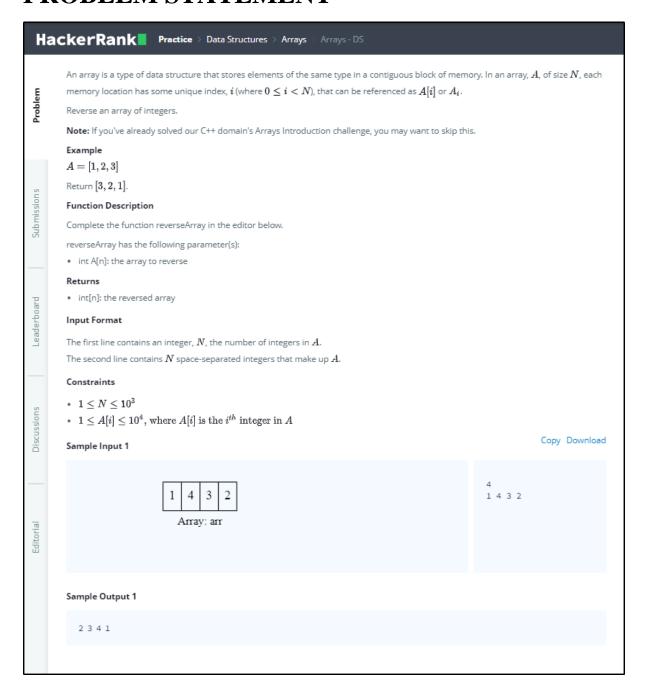
PROBLEM STATEMENT



PROGRAM USED TO SOLVE THE PROBLEM STATEMENT

```
#include <assert.h>
#include <limits.h>
#include <math.h>
#include <stdbool.h>
#include <stddef.h>
#include <stdint.h>
#include <stdio.h>
#include <stdlib.h>
#include <string.h>
char* readline();
char** split string(char*);
// Complete the reverseArray function below.
// Please store the size of the integer array to be return
ed in result count pointer. For example,
// int a[3] = {1, 2, 3};
//
// *result count = 3;
//
// return a;
int* reverseArray(int a_count, int* a, int* result_count)
{
    *result count = a count;
    int temp;
    int end = a count-1;
    for(int i = 0; i < a_count/2; i++){</pre>
        temp = *(a+end);
        *(a+end) = *(a+i);
        *(a+i) = temp;
        end--;
    }
    return a;
}
int main()
```

```
{
    FILE* fptr = fopen(getenv("OUTPUT PATH"), "w");
    char* arr count endptr;
    char* arr_count_str = readline();
    int arr_count = strtol(arr_count_str, &arr_count_endpt
r, 10);
    if (arr_count_endptr == arr_count_str || *arr_count_en
dptr != '\0') { exit(EXIT FAILURE); }
    char** arr temp = split string(readline());
    int* arr = malloc(arr_count * sizeof(int));
    for (int i = 0; i < arr count; i++) {</pre>
        char* arr_item_endptr;
        char* arr item str = *(arr temp + i);
        int arr_item = strtol(arr_item_str, &arr_item_endp
tr, 10);
        if (arr_item_endptr == arr_item_str || *arr_item_e
ndptr != '\0') { exit(EXIT_FAILURE); }
        *(arr + i) = arr item;
    }
    int res count;
    int* res = reverseArray(arr_count, arr, &res_count);
    for (int i = 0; i < res_count; i++) {</pre>
        fprintf(fptr, "%d", *(res + i));
        if (i != res_count - 1) {
            fprintf(fptr, " ");
        }
    }
    fprintf(fptr, "\n");
    fclose(fptr);
```

```
return 0;
}
char* readline() {
    size_t alloc_length = 1024;
    size_t data_length = 0;
    char* data = malloc(alloc_length);
    while (true) {
        char* cursor = data + data length;
        char* line = fgets(cursor, alloc_length - data_len
gth, stdin);
        if (!line) {
            break;
        }
        data_length += strlen(cursor);
        if (data length < alloc length - 1 || data[data le</pre>
ngth - 1] == '\n') {
            break;
        }
        alloc_length <<= 1;</pre>
        data = realloc(data, alloc_length);
        if (!line) {
            break;
        }
    }
    if (data[data_length - 1] == '\n') {
        data[data length - 1] = '\0';
        data = realloc(data, data_length);
    } else {
        data = realloc(data, data_length + 1);
        data[data length] = '\0';
    }
```

```
return data;
}
char** split_string(char* str) {
    char** splits = NULL;
    char* token = strtok(str, " ");
    int spaces = 0;
   while (token) {
        splits = realloc(splits, sizeof(char*) * ++spaces)
;
        if (!splits) {
            return splits;
        }
        splits[spaces - 1] = token;
        token = strtok(NULL, " ");
    }
    return splits;
}
```

TEST CASES

