CP Club 365Days Challenge

Date – 24/11/2022
Programming language – C

Problem Statement

https://www.hackerrank.com/challenges/strange-advertising/problem?isFullScreen=true

Your Code:

```c
// 0x38Day of 0x365Days challenge
// VEDANT BHARAD
// 24-11-2022
#include <assert.h>
#include <ctype.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* ltrim(char*);
char* rtrim(char*);
int parse_int(char*);
int viralAdvertising(int n) {
    int people=5,likes=0,temp;
    likes=5/2;
    for(int loop=1; loop<n; loop++) {
        people=(people/2)*3;
        temp=people/2;
        likes=likes+temp;
    }
    return likes;
}

int main()
{
    FILE* fptr = fopen(getenv("OUTPUT_PATH"), "w");
    int n = parse_int(ltrim(rtrim(readline())));
    int result = viralAdvertising(n);
    // fprintf(fptr, "%d\n", result);
    printf("%d\n", result);
    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_length, stdin);
        if (!line) {
            break;
        }
        data_length += strlen(cursor);
        if (data_length < alloc_length - 1 || data[data_length - 1] == '\n') {
            break;
        }
    }
```

```c
            alloc_length <<= 1;
            data = realloc(data, alloc_length);
            if (!data) {
                data = '\0';
                break;
            }
        }
        if (data[data_length - 1] == '\n') {
            data[data_length - 1] = '\0';
            data = realloc(data, data_length);
            if (!data) {
                data = '\0';
            }
        } else {
            data = realloc(data, data_length + 1);
            if (!data) {
                data = '\0';
            } else {
                data[data_length] = '\0';
            }
        }
        return data;
}
char* ltrim(char* str) {
    if (!str) {
        return '\0';
    }
    if (!*str) {
        return str;
    }
    while (*str != '\0' && isspace(*str)) {
        str++;
    }
    return str;
}
char* rtrim(char* str) {
    if (!str) {
        return '\0';
    }
    if (!*str) {
        return str;
    }
    char* end = str + strlen(str) - 1;
    while (end >= str && isspace(*end)) {
        end--;
    }
    *(end + 1) = '\0';
    return str;
}
int parse_int(char* str) {
    char* endptr;
    int value = strtol(str, &endptr, 10);
    if (endptr == str || *endptr != '\0') {
```
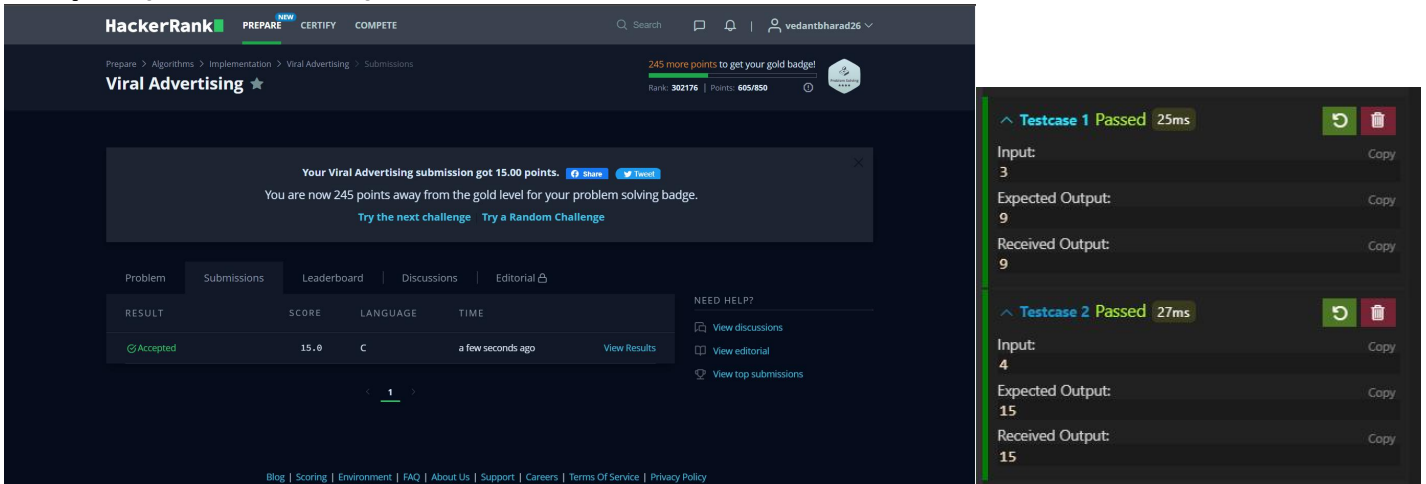
```
        exit(EXIT_FAILURE);
    }
    return value;
}
```

Output (Screen Shot):

Understanding about problem:

- In this task there is one input which number of days
- In this task I need to return total number of likes
- Every time first there is 5 people and like will be people/2
- After passing each day number of people will be "(people/2)*3" and like will be people/2

Note: If you can't understand the problem, feel free to contact us and we'll help you. Please don't copy and paste from anywhere.

ALL THE BEST
Team CP Club