CP Club 365Days Challenge

Date – 26/11/2022

Programming language – **Your preferred programming language**

Problem Statement

https://www.hackerrank.com/challenges/chocolate-feast/problem?isFullScreen=true

Your Code:

```c
// 0x40Day of 0x365Days challenge
// VEDANT BHARAD
// 26-11-2022
#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*);
char** split_string(char*);
int parse_int(char*);
int chocolateFeast(int n, int c, int m) {
    int temp = n/c,ans=0;
    int temp2=temp;
    ans=temp;
    while (temp2>=m)
    {
        ans= ans+ (temp2/m);
        temp2=temp2 - (temp2/m)*m + temp2/m;
    }
    return ans;
}
int main()
{
    FILE* fptr = fopen(getenv("OUTPUT_PATH"), "w");
    int t = parse_int(ltrim(rtrim(readline())));
    for (int t_itr = 0; t_itr < t; t_itr++) {
        char** first_multiple_input = split_string(rtrim(readline()));
        int n = parse_int(*(first_multiple_input + 0));
        int c = parse_int(*(first_multiple_input + 1));
        int m = parse_int(*(first_multiple_input + 2));
        int result = chocolateFeast(n, c, m);
        fprintf(fptr, "%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);
```

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```c
        if (!line) {
            break;
        }
        data_length += strlen(cursor);
        if (data_length < alloc_length - 1 || data[data_length - 1] == '\n') {
            break;
        }
        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--;
    }
```

```c
    *(end + 1) = '\0';
    return str;
}
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;
}
int parse_int(char* str) {
    char* endptr;
    int value = strtol(str, &endptr, 10);
    if (endptr == str || *endptr != '\0') {
        exit(EXIT_FAILURE);
    }
    return value;
}
```
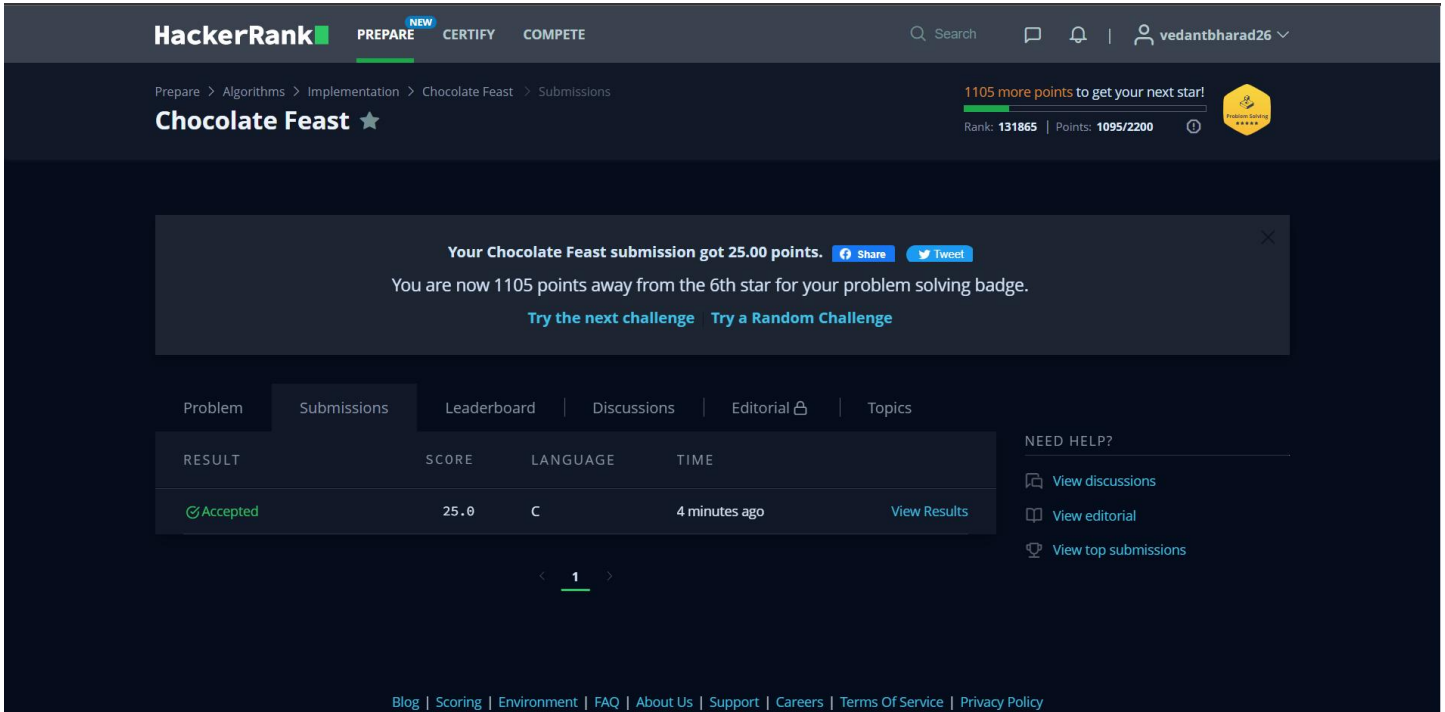
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Output (Screen Shot):

Understanding about problem:

In this task I need to return number which is sum of chocolates

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