Marwadi University	**Marwadi University** **Faculty of Technology** **Department of Information and Communication Technology**	
Sem : 3	**Name : VEDANT BHARAD**	
Day : 36	**Date : 22/11/2022**	**Enrollment No: 92100133023**

CP Club 365Days Challenge

Date – 23/11/2022
Programming language – C

Problem Statement

https://www.hackerrank.com/challenges/find-digits/problem?isFullScreen=true

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Your Code:

```c
// 0x37Day of 0x365Days challenge
// VEDANT BHARAD
// 23-11-2022
#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 findDigits(int n) {
    int temp=n,con=0;
    while (temp>0)
    {
        if((temp%10)!=0)
        {
            if(n%(temp%10)==0)
            {
                con++;
            }
        }
        temp=temp/10;
    }
    return con;
}
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++) {
        int n = parse_int(ltrim(rtrim(readline())));
        int result = findDigits(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;
```

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```
        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;
        }
        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--;
```

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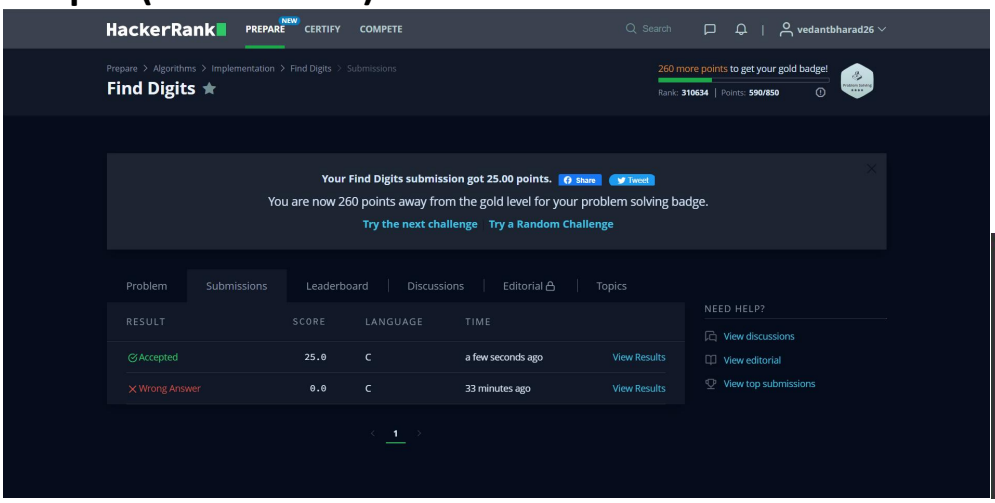
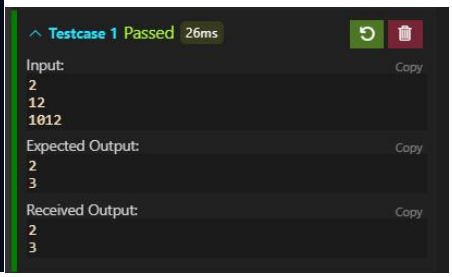
```
    }
    *(end + 1) = '\0';
    return str;
}
int parse_int(char* str) {
    char* endptr;
    int value = strtol(str, &endptr, 10);
    if (endptr == str || *endptr != '\0') {
        exit(EXIT_FAILURE);
    }
    return value;
}
```

Output (Screen Shot):





Understanding about problem:

- In this task there are two inputs

1. Number of test case
2. Number n

- In this task I need to return number which is count of number which are divisor of that n and number which will be checked are every digit of n it self.

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