



TCS Coding Question 3

Oddly Even Problem Statement

Given a maximum of 100 digit numbers as input, find the difference between the sum of odd and even position digits

Test Cases

Case 1

- Input: 4567
- Expected Output: 2

Explanation : Odd positions are 4 and 6 as they are pos: 1 and pos: 3, both have sum 10. Similarly, 5 and 7 are at even positions pos: 2 and pos: 4 with sum 12. Thus, difference is $12 - 10 = 2$

Case 2

- Input: 5476
- Expected Output: 2

Case 3

- Input: 9834698765123
- Expected Output: 1



Solution

(When using Strings as input)

C

```
#include <stdio.h>
#include <string.h>
#include <stdlib.h>

int main()
{
    int a = 0, b = 0, i = 0, n;
    char num[100];

    printf("Enter the number:");
    scanf("%s", num);    //get the input up to 100 digit
    n = strlen(num);
    while(n > 0)
    {
        if(i == 0)        //add even digits when no of digit is even and vice versa
        {
            a += num[n-1] - 48;
            n--;
            i = 1;
        }
        else                //add odd digits when no of digit is even and vice versa
        {
            b += num[n-1] - 48;
            n--;
            i = 0;
        }
    }
    printf("%d", abs(a-b)); //print the difference of odd and even

    return 0;
}
```

C++

Python

Java

Solution

(When using long long as input)

C

```
#include<stdio.h>
#include<string.h>
#include <stdlib.h>

int main()
{
    int odd = 0,even = 0,i = 0, n,diff;
    long long num;
    scanf("%lld",&num);    //get the input up to 100 digit

    while(num != 0){
        if(i%2==0){
            even = even + num%10;
            num = num/10;
            i++;
        }
        else{
            odd = odd + num%10;
            num = num/10;
            i++;
        }

    }

    printf("%d",abs(odd - even));

    return 0;
}
```

C++

Python

TCS Coding Questions

All Coding Questions for TCS

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- [Coding Question 2](#)
- [Coding Question 3](#)
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