

C 22_q43.c > ...

```

1 // Q43: Write a program to check if a number is a strong number.
2
3 /*
4 Sample Test Cases:
5 Input 1:
6 145
7 Output 1:
8 Strong number
9
10 Input 2:
11 123
12 Output 2:
13 Not strong number
14
15 */
16
17 #include<stdio.h>
18 int main(){
19     int n,temp,fact,sum=0,r;
20     printf("Enter number: ");
21     scanf("%d",&n);
22     temp=n;
23     while(temp>0){
24         r=temp%10;
25         fact=1;
26         for(int i=1;i<=r;i++)fact*=i;
27         sum+=fact;
28         temp/=10;
29     }
30     if(sum==n)printf("Strong");
31     else printf("Not strong");
32     return 0;
33 }
34

```

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS

```

PS C:\Users\drago\OneDrive\Desktop\C H.W> gcc .\22_q43.c
PS C:\Users\drago\OneDrive\Desktop\C H.W> ./a.exe
Enter number: 145
Strong
PS C:\Users\drago\OneDrive\Desktop\C H.W> gcc .\22_q43.c
PS C:\Users\drago\OneDrive\Desktop\C H.W> ./a.exe
Enter number: 123
Not strong
PS C:\Users\drago\OneDrive\Desktop\C H.W> █

```

C 22_q44.c > ...

```
1 // Q44: Write a program to find the sum of the series: 1 + 3/4 + 5/6 + 7/8 + ... up to n terms.
2
3 /*
4 Sample Test Cases:
5 Input 1:
6 3
7 Output 1:
8 Approximate sum: 2.08
9
10 Input 2:
11 5
12 Output 2:
13 Approximate sum: 3.86
14
15 */
16
17 #include<stdio.h>
18 int main(){
19     int n,i,num=1,den=1;
20     float sum=0;
21     printf("Enter n: ");
22     scanf("%d",&n);
23     for(i=1;i<=n;i++){
24         num = 2*i - 1;
25         den = 2*i;
26         sum += (float)num/den;
27     }
28     printf("Sum=% .2f",sum);
29     return 0;
30 }
31
```

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS

PS C:\Users\drago\OneDrive\Desktop\C H.W> gcc .\22_q44.c

PS C:\Users\drago\OneDrive\Desktop\C H.W> ./a.exe

Enter n: 3

Sum=2.08

PS C:\Users\drago\OneDrive\Desktop\C H.W> gcc .\22_q44.c

PS C:\Users\drago\OneDrive\Desktop\C H.W> ./a.exe

Enter n: 5

Sum=3.86

PS C:\Users\drago\OneDrive\Desktop\C H.W> []