

Recursion - Number of digits

Problem

Submissions

Leaderboard

Discussions

Write a program to find the number of digits in a number using recursion.

Input Format

Input consists of a non-negative integer.

Constraints

NA

Output Format

Refer sample output for formatting specifications.

Sample Input 0

432

Sample Output 0

The number of digits in 432 is 3

Sample Input 1

6723978

Sample Output 1

The number of digits in 6723978 is 7

f

t

in

Submissions: 345

Max Score: 100

Difficulty: Medium

Rate This Challenge:

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C

```

1 #include <stdio.h>
2 #include <string.h>
3 #include <math.h>
4 #include <stdlib.h>
5 int count(int n,int sum){
6     sum+=1;
7     n/=10;
8     if(n%10==0){
9         return sum;
10    }
11    return count(n,sum);

```

```
12 }
13
14 int main() {
15     int n,sum=0;
16     scanf("%d",&n);
17     printf("The number of digits in %d is %d",n,count(n,sum));
18     return 0;
19 }
20
```

Line: 1 Col: 1

 [Upload Code as File](#) ☐ [Test against custom input](#)

[Run Code](#)

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Testcase 0 

Testcase 1 

Congratulations, you passed the sample test case.

Click the **Submit Code** button to run your code against all the test cases.

Input (stdin)

432

Your Output (stdout)

The number of digits in 432 is 3

Expected Output

The number of digits in 432 is 3