CODECHEF
An Educational Initiative

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Code, Compile & Run

Ide ✖ +

| Contest Code/Name (e.g. JULY15/PRACTICE) | Problem Code/Name (e.g. TEST) | **Select** |

C (gcc 6.3) ▾   💾 🗑 Code gets autosaved every second   ⓘ ⬇ ⤢ ⚙

```c
1   #include <stdio.h>
2    int main()
3 ▾ {
4   long long n;
5    int count = 0;
6    printf("Enter an integer: ");
7    scanf("%lld", &n);
8    // iterate until n becomes 0
9    // remove last digit from n in each iteration
10   // increase count by 1 in each iteration
11   while (n != 0)
12 ▾ {
13   n /= 10; // n = n/10
14   ++count;
15   }
16   printf("Number of digits: %d", count);
17   }
18
19
```

0:0   ⟳

Open File   ✓ Custom Input   **Run**

Custom Input

3452

Status Successfully executed   **Date** 2020-06-01 07:29:42   **Time** 0 sec   **Mem** 9.424 kB   ✖

Input

3452

Output

Enter an integer: Number of digits: 4

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(i) Algorithm

Step 1 : start

step 2 : read n;

Step 3 : c = 0;

step 4 : while (n! = 0)
```
        {
            c++;
            n = n/10;
        }
```
step 5 : display c;

step 6 : stop.

(ii) Flowchart

```
        ( start )
            |
            v
        / read n /
            |
            v
        [ c = 0 ]
            |
            v
         < n! = 0 >  --F-->
            |
            T
            v
        [ c++;      ]
        [ n = n/10; ]
            |
            v
        / print    /
        /   c      /
            |
            v
        ( stop )
```