

Question #79792

What does $g(31415927)$ return for the following definition?

```
def g(x):
```

```
    (q,d) = (1,0)
```

```
    while q <= x:
```

```
        (q,d) = (q*10,d+1)
```

```
    return(d)
```

Answer:

The defined function g counts the number of digits of the integer part of a number.

$g(31415927)$ returns 8, as shown in the screenshot below.

```
>>> def g(x):
...     (q,d) = (1,0)
...     while q <= x:
...         (q,d) = (q*10,d+1)
...     return(d)
...
>>> g(31415927)
8
>>>
```

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