
Recursive number of digits

P51222_en

Write a recursive function that returns the number of digits of n .

Interface

```
C++      int number_of_digits (int n);
C        int number_of_digits (int n);
Java     public static int numberOfDigits(int n);
Python   number_of_digits (n) # returns int
         number_of_digits (n: int) → int
```

Precondition

We have $n \geq 0$.

Observation

You only need to submit the required procedure; your main program will be ignored.

Problem information

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