

Funcion factorial de un número

$$4! = 4 * 3 * 2 * 1 = 24$$

```
def factorial(numero):  
    if numero == 1:  
        return numero  
  
    numero = numero * factorial(numero -1)  
  
    return numero
```

Diagram illustrating the recursive call for $4!$. The initial call is `factorial(4)`. The function calls itself with `factorial(3)`, which then calls `factorial(2)`, which calls `factorial(1)`. The return values are propagated back: `factorial(1)` returns 1, `factorial(2)` returns 2, `factorial(3)` returns 6, and finally `factorial(4)` returns 24.

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