factorial(1)

|  |  |  |
| --- | --- | --- |
|  |  |  |
|
|
| n=0  f(0)  return **1** |
| n=1  f(1)  return 1 x **f(0)** | n=1  f(1)  return 1 x f(0) | n=1  f(1)  return **1** |
| push | push - pop | pop |

factorial(2)

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  |  |  |  |  |
|
| n=0  f(0)  return **1** |
| n=1  f(1)  return 1 x **f(0)** | n=1  f(1)  return 1 x f(0) | n=1  f(1)  return **1** |
| n=2  f(2)  return 2 x **f(1)** | n=2  f(2)  return 2 x f(1) | n=2  f(2)  return 2 x f(1) | n=2  f(2)  return 2 x f(1) | n=2  f(2)  return **2** |
| push | push | push - pop | pop | pop |

factorial(3)

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
|  |  |  |  |  |  |  |
| n=0  f(0)  return **1** |
| n=1  f(1)  return 1 x **f(0)** | n=1  f(1)  return 1 x f(0) | n=2  f(2)  return **1** |
| n=2  f(2)  return 2 x **f(1)** | n=2  f(2)  return 2 x f(1) | n=2  f(2)  return 2 x f(1) | n=2  f(2)  return 2 x f(1) | n=2  f(2)  return **2** |
| n=3  f(3)  return 3 x **f(2)** | n=3  f(3)  return 3 x f(2) | n=3  f(3)  return 3 x f(2) | n=3  f(3)  return 3 x f(2) | n=3  f(3)  return 3 x f(2)) | n=3  f(3)  return 3 x f(2) | n=3  f(3)  return **6** |
| push | push | push | push - pop | pop | pop | pop |

factorial(4)

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  |  |  |  | n=0  f(0)  return **1** |  |  |  |  |
| n=1  f(1)  return 1 x **f(0)** | n=1  f(1)  return 1 x f(0) | n=1  f(1)  return **1** |
| n=2  f(2)  return 2 x **f(1)** | n=2  f(2)  return 2 x f(1) | n=2  f(2)  return 2 x f(1) | n=2  f(2)  return 2 x f(1) | n=2  f(2)  return **2** |
| n=3  f(3)  return 3 x **f(2)** | n=3  f(3)  return 3 x f(2) | n=3  f(3)  return 3 x f(2) | n=3  f(3)  return 3 x f(2) | n=3  f(3)  return 3 x f(2) | n=3  f(3)  return 3 x f(2) | n=3  f(3)  return **6** |
| n=4  f(4)  return 4 x **f(3)** | n=4  f(4)  return 4 x f(3) | n=4  f(4)  return 4 x f(3) | n=4  f(4)  return 4 x f(3) | n=4  f(4)  return 4 x f(3) | n=4  f(4)  return 4 x f(3) | n=4  f(4)  return 4 x f(3) | n=4  f(4)  return 4 x f(3) | n=4  f(4)  return **24** |
| push | push | push | push | push - pop | pop | pop | pop | pop |