

## Code of factorial

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```

1  (define factorial
2    (lambda (n)
3      (if (<= n 0)
4          1
5          (* n (factorial (- n 1)))))
6    )
7  )
8  )

```

Run:  
(factorial 100)

Result:

933262154439441526816992388562667004907159682643816214685929638  
952175999932299156089414639761565182862536979208272237582511852  
10916864000000000000000000000000

Description:

This is a function which calculate factorial.

Argument n multiply by (factorial (- n 1)).

Next, argument  $m(= (-n-1))$  multiply by  $(\text{factorial } (-m-1)) \dots$  and so on.

When argument is 0 and under, then return 1.