

**comb()** — Combinatorial function[Description](#)[Syntax](#)[Conformability](#)[Diagnostics](#)[Also see](#)

## Description

`comb( $n$ ,  $k$ )` returns the elementwise combinatorial function  $n$ -choose- $k$ , the number of ways to choose  $k$  items from  $n$  items, regardless of order.

## Syntax

*real matrix* `comb(real matrix  $n$ , real matrix  $k$ )`

## Conformability

`comb( $n$ ,  $k$ )`:

<i>n</i> :	$r_1 \times c_1$
<i>k</i> :	$r_2 \times c_2$ , $n$ and $k$ r-conformable
<i>result</i> :	$\max(r_1, r_2) \times \max(c_1, c_2)$

## Diagnostics

`comb( $n$ ,  $k$ )` returns missing when either argument is missing or when the result would be larger than  $10^{300}$ .

## Also see

[M-4] [Statistical](#) — Statistical functions