Permutations

Permutations[list] generates a list of all possible permutations of the elements in list.

Example:

Permutations[{a, b, c}] —> \{\{a, b, c\}, \{a, c, b\}, \{b, a, c\}, \{b, c, a\}, \{c, a, b\}, \{c, b, a\}\.

There are n! permutations of a list of n elements. Each element of the original list is treated as distinct. The object list need not have head List. See page 106. See also: Sort, Signature, Reverse, RotateLeft.