Signature

`Signature[list]` gives the signature of the permutation needed to place the elements of `list` in canonical order. by `list`.

Examples: `Signature[{a, b, c}]` → 1; `Signature[{a, c, b}]` → -1. The signature of the permutation is \((-1)^n\), where \(n\) is the number of transpositions of pairs of elements that must be composed to build up the permutation. If any two elements of `list` are the same, `Signature[list]` gives 0. See pages 106 and 460. See also: `Sort`.