

# Permutations

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# Permutations: Lilāvati

- Permutations of  $n$  digits
- Sum of all permutations of  $n$  digits
  - ① Example 1
  - ② Example 2
- Permutations of  $n$  digits when digits are repeated
- Permutations of  $n$  ( $< 10$ ) non-zero digits when digits are not repeated.
- Partitioning  $n$  items into  $k$  ( $k < 9$ ) bins  
(Stars and Bars Combinatorics)

