

permute([1,2,3], 0)

① i=0

permute([1,2,3], 1)

② i=1

permute([2,1,3], 2)

③ i=2

permute([3,2,1], 3)

① Notice that the function of the for-loop
is so that each item gets its
chance at the first spot.

(go into this
function call)

permute([1,2,3], 1)

① i=1

permute([1,2,3], 2)

② i=2

permute([1,3,2], 3)

② The first item is now constant,
and the remaining items get
their chance at the second
spot.

permute([1,2,3], 3)

③ This finally prints out one
of the permutations of the
array.