- a[j], j uniformly randomly chosen from 1..n - i. Claim: a now represents a uniform sample from the set of cyclic permutations of the original array.
- Examples: j = n i for each i yields $n \to n - 1 \dots \to 1 \to n; j = 1$ for each i yields $1 \to \dots \to n \to 1$.
- Number of swaps is always n 1.
 Other quantities of interest: number of moves by a given element, distance moved by a given element, total distance moved.

Proof of correctness

- $\mathcal{C}_n \cong \mathcal{C}_{n-1} \times \mathcal{N}$ via maps
- $(\sigma, q)^{\uparrow} = \sigma^* \tau$ where τ is the transposite $\sigma_{\downarrow} = (\tau \sigma)_*$ where τ is the transposite