Let $s(k,n)$ be the number of swaps done when `Perm` is invoked as `Perm(a,k,n)`. $s(k,n) = 0$ when $k = n$ and $(n - k + 1)(2 + s(k+1,n)$ when $k < n$. Using repeated substitution, we get

$$s(1,n) = 2n + 2n(n-1) + 2n(n-1)(n-2) + \cdots 2n(n-1)(n-2) \cdots 2$$

$$= 2n! \sum_{i=1}^{n-1} \frac{1}{i!}.$$