Permutation Formats

anyone who ever wants to permite a set will discover the confusion of whether they are moving labels on objects or the objects relative to some natural frame. First, we défine a permutation o e S' as a bijection o: {1,...,n3} > {1,...,n3}. So called 2-line (Carchy notation describes the action of the permetation

brief 1-line notation is just (66),...,6(n))

follow the arrows to see where elements

go. Then there is cycle notation, which I found necessary to represent permutations on bit sets. In this case, we group sets on which o acts as a cyclic permutation (i, o(i), o(o(i)), ...) (j, o(j), o(o(j)), ...)... The conclusion is that I-line 02 2- line notation give ux permetations of the values of the integer sets, that is they let us specify that i shoold go to j; this is convenient to impose a fixed order onto a set. However, cycle notation gives us a convenient platform for moving positions independently of the values they have. Algorithms cannot mix-and-netch.