

A Simple Criterion for Avoiding Basing Errors.

Basing errors can only occur if a base b is diminished or made an assignment target while one of the objects based on b is still alive. Therefore the following restriction is sufficient (but by no means necessary) to ensure that basing errors do not occur: suppose that b is a base. Let $O_i, i = 1, \dots, n$ be all the ovariable occurrences of variables based (wholly or partially) on b . Let $\bar{O}_j, j = 1, \dots, m$ be all the ovariables such that $\text{crthis}(\bar{O}_j)$ includes one of the O_i . Let $x_j, j = 1, \dots, m$ be the variables of the ovariables \bar{O}_j . We require that at each assignment to b there should exist no live variable x_j which is linked to \bar{O}_j along an x_j -clear path.