

TABLE-INSERT( $T, x$ )

**if**  $T.size == 0$

    allocate  $T.table$  with 1 slot

$T.size = 1$

**if**  $T.num == T.size$

// expand?

    allocate  $new-table$  with  $2 \cdot T.size$  slots

    insert all items in  $T.table$  into  $new-table$

//  $T.num$  elem insertions

    free  $T.table$

$T.table = new-table$

$T.size = 2 \cdot T.size$

insert  $x$  into  $T.table$

// 1 elem insertion

$T.num = T.num + 1$