472 The user's variables are binary b and natural x. Using implementer's variables L: [*nat] and i: nat, we implement the following operations.

$init = L := [nil]$
$start = i := 0$
$insert = L := L[0;...i];;[x];;L[i;...\#L]$
$delete = L := L[(0;...i); (i+1;..\#L)]$
$next = i := i+1$
$end = b := i=\#L$
$value = x := L\ i$
$set = L := i \rightarrow x \mid L$

Transform the operations to provide a heap implementation. Inserted nodes come from a free list, and deleted nodes are returned to the free list.

no solution given