







```
Destructive Mapping
                                                                                                   Destructive Mapping (II)
def dmap_rlist(f, s):
                                                                                 def dmap_rlist(f, s):
    """The rlist of values F(x) for each element x of rlist S in
                                                                                     """The rlist of values F(x) for each element x of rlist S in
    order. May modify S."""
                                                                                     order. May modify S."""
    if isempty(s):
                                                                                     if isempty(s):
       return empty_rlist # This case doesn't change
                                                                                         return empty_rlist # This case doesn't change
    else:
                                                                                     else:
                                                                                         set_first(s, f(first(s)))
                                                                                         dmap_rlist(f, rest(s))
                                                                                         return s
                                                                                >>> L0 = make_rlist(-3, make_rlist(-2, make_rlist(-1)))
                                                                                 >>> I.0
                                                                                 (-3, (-2, (-1, None))) # Assumes empty_rlist is None.
                                                                                >>> L1 = dmap_rlist(abs, L0)
                                                                                >>> L1
                                                                                 (3, (2, (1, None)))
                                                                                 >>> I.0
                                                                                 (3, (2, (1, None)))
                                                                                                          # Original data lost
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