

C. For j= N-2 ej= N-1 DC = C'j-C'j-L (Backword difference for Dx Dx Spatial don't) Previously, for the advection code in the lecture: if V7=0. (For) dC [0] = (C[0, i-1] - C[N-1, i-1])/dz (Boundary cond) (1st-) last) (Back) dC [L:N] = (C[1:N, i-1] - C[:N-1,i-1])/dx (Bound cond) (last =15+) 1 No need since they're not @ boundary (For) dC [:N-1] = CC[1:N,i-1] - C[:N-1,i-1])/dx (For) dCIN-13 = (C [0, i-1] - C[N-1, i-1])/dx -) There fore for N-2 & N-1: if V7=0: dc IN-2] = (C[N-2] i-1] - C[N-3, i-1])/dx dC [N-1] = (C[N-1, i-L] - C[N-2, i-L])/dx else: dCIN-27 = CCEN-1, 1-17-CEN-2, 1-17)/dx dC[N-1] = (C[G, :-1]-C[N-1, :-1])/dx

