1 D radial transvent heart flow 12/5/2007 L L [r2 LT] = DG LT r2 LV [r2 LT] = K Lt expanding the derivative 2 JT J J2] = 1 JT Approximating the derivatives w/finite differences (5 index refusto radral direction, pinder referoto time LT = TS-TS Inserting these into ODE 2 JT J J²J - J JT 2 (Ts -Ts-1) + Ts+1 - 2 Ts + Ts-1 = (Ts - Ts) Solvergfor ToP+1 TSP+1 = st Ts+1+Ts-1 - 2 Ts-17 + It dror dare Is This egn can be used to Colculate T(r,t): given steps zes and initial & boundary Enditions