average number of infecteds versus time p1 =0.00 , p2 =0.00, β = 0.1 p1 =0.00 , p2 =0.00, β = 0.25 p1 =0.00 , p2 =0.00, β = 0.4 p1 =0.00 , p2 =0.00, β = 0.55 p1 =0.00 , p2 =0.00, β = 0.7 p1 =0.00 , p2 =0.00, β = 0.85 p1 =0.00 , p2 =0.00, β = 1.0 time