$N_{re} = 4, S = 10, p = 2, c = 0.1, N_c = 100$
$d_{\text{attract}} = 100, w_{\text{attract}} = 0.01, h_{\text{repellant}} = 0.3, w_{\text{repellant}} = 0.01$

$J^* = 0.017$